

**matics, and Social Science Education: 1955-1975.** Vol. 1, Science Education. Stanley L. Helgeson, Patricia E. Blosser, and Robert W. Howe. Information Reference Center for Science, Mathematics, and Environmental Education, Ohio State University, Columbus, 1978. iv, 260 pp. Spiral bound, \$6.50. Science Education Information Reports.

**Stereotaxic Atlas of the Human Brainstem and Cerebellar Nuclei.** A Variability Study. F. Afshar, E. S. Watkins, and J. C. Yap. Raven, New York, 1978. viii, 248 pp. \$145.

**The Stream of Consciousness.** Scientific Investigations into the Flow of Human Experience. Kenneth S. Pope and Jerome L. Singer, Eds. Plenum, New York, 1978. xvi, 376 pp., illus. \$24.50. Emotions, Personality, and Psychotherapy.

**Structure and Mechanisms of Turbulence.** Proceedings of a symposium, Berlin, Aug. 1977. H. Fiedler, Ed. Springer-Verlag, New York, 1978. Two volumes. Vol. 1. xx, 296 pp., illus. Paper, \$13.50. Vol. 2. xx, 406 pp., illus. Paper, \$16.50. Lecture Notes in Physics, vols. 75 and 76. To order circle 610 on Reader Service Card.

**Structure Determination by X-Ray Crystallography.** M. F. C. Ladd and R. A. Palmer. Plenum, New York, 1978. xvi, 394 pp., illus. Paper, \$14.75. Reprint of the 1977 edition.

**Systems Analysis Applications to Complex Programs.** Proceedings of a workshop, Bielsko Biala, Poland, June 1977. K. Cichocki and A. Straszak, Eds. Published for the International Federation of Automatic Control by Pergamon, New York, 1978. xiv, 316 pp., illus. \$45. To order circle 628 on Reader Service Card.

**Techniques for the Solidification of High-Level Wastes.** International Atomic Energy Agency, Vienna, 1977 (U.S. distributor, Unipub, New York). xii, 124 pp., illus. Paper, \$10. Technical Reports Series No. 176.

**Theory of Organic Reactions.** Nicolaos D. Epiotis. Springer-Verlag, New York, 1978. xiv, 292 pp., illus. \$49. Reactivity and Structure Concepts in Organic Chemistry, vol. 5. To order circle 611 on Reader Service Card.

**Thermophilic Microorganisms and Life at High Temperature.** Thomas D. Brock. Springer-Verlag, New York, 1978. xii, 468 pp., illus. \$25.80. Springer Series in Microbiology. To order circle 629 on Reader Service Card.

**To Feed This World.** The Challenge and the Strategy. Sterling Wortman and Ralph W. Cummings, Jr. Johns Hopkins University Press, Baltimore, 1978. xvi, 442 pp., illus. Cloth, \$25; paper, \$6.95.

**Topics in Quantum Field Theory and Gauge Theories.** Proceedings of a seminar, Salamanca, Spain, June 1977. J. A. de Azcárraga, Ed. Springer-Verlag, New York, 1978. x, 378 pp., illus. Paper, \$14.30. Lecture Notes in Physics, vol. 77. To order circle 612 on Reader Service Card.

**Transform Techniques in Chemistry.** Peter R. Griffiths, Ed. Plenum, New York, 1978. xviii, 386 pp., illus. \$39.50. Modern Analytical Chemistry.

**Women and Mathematics, Science and Engineering.** A Partially Annotated Bibliography with Emphasis on Mathematics and with References on Related Topics. Else Høyrup. Roskilde University Library, Værløse, Denmark, 1978 (available from the author, Bøgevej 8, DK 3500 Værløse, Denmark). vi, 62 pp. Paper. Skriftserie fra Roskilde Universitetsbibliotek, 4.

**Your Mind and Breast Diseases.** Sarah Splaver. Veritas Press, New York, 1978. 96 pp. Paper, \$7.95.



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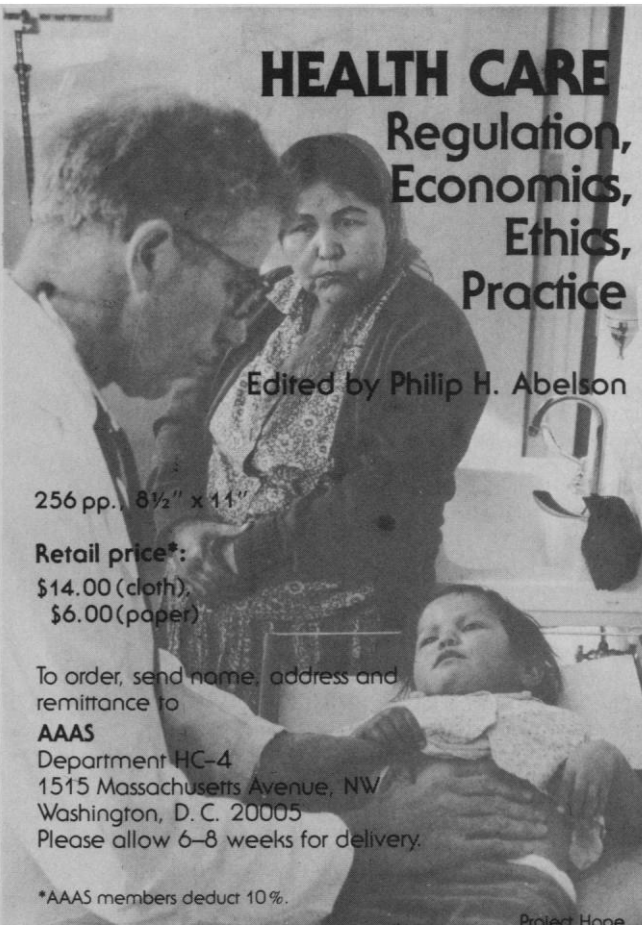
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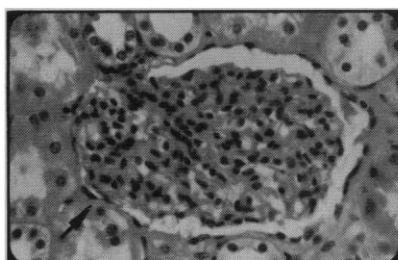
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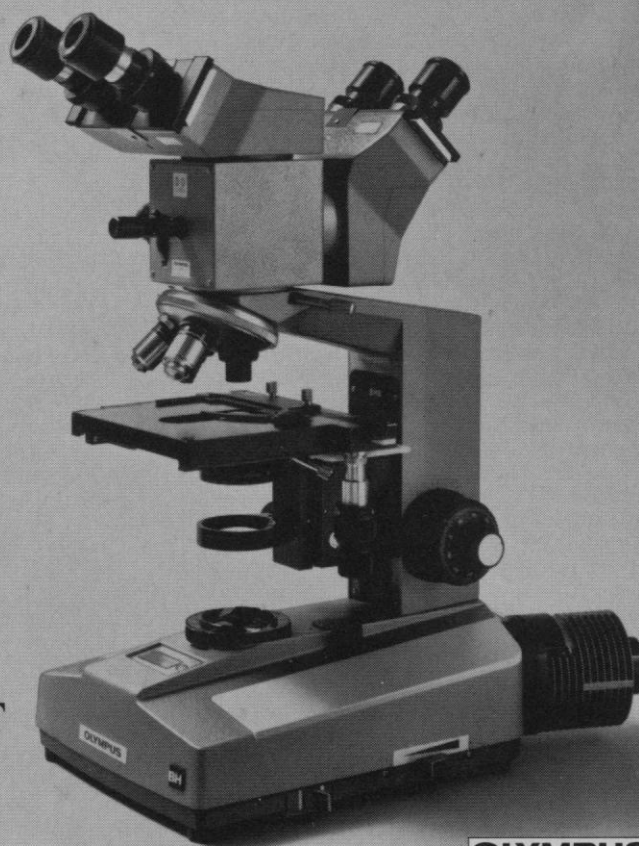
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**Biochemist/Systems Analyst.** Ph.D. (biochemistry), M.S. (electrical engineering), available for mathematical modeling and analysis of biochemical, physiological, or pharmacological systems. Full-time, part-time, or consulting basis. Will translate data into model, check hypotheses, and suggest experiments. Expertise in mathematics, large-scale computation, multivariable optimization, and biochemistry. Has programs. Interdisciplinary publications. References. Box 57, SCIENCE. X

**Biochemist/Ph.D.** enzymology, molecular virology. Seeks industry-government-academic position in health-related research. Box 80, SCIENCE. X

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**Biostatistician/Mathematical Biologist.** Ph.D. Broad experience in clinical and nonclinical cancer research, statistical consultation, data analysis, and mathematical modeling. More than 40 publications, recipient of awards for research, associate editor of two journals. Presently directing consulting group at large cancer research institute. Seeks administration/consulting/teaching position. Box 81, SCIENCE. X

**Experimental Psychologist/Human Factors Engineer.** Ph.D. Fellow of APA and AAAS. Experience as researcher, project director, administrator, consultant (to government and industry), teacher (as visiting professor), writer-editor, and inventor (two patents) in many areas of experimental psychology and human factors, particularly vision, psychophysics, mathematical models, learning (operant conditioning), and training. R. M. Herrick, Meetinghouse Road, R.D. 1, Ambler, Pennsylvania 19002. Telephone: 215-646-0470. X

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## POSITIONS WANTED

**European Veterinary Graduate.** M.S. (pathology). A.C.V.P. eligible. Eight years of toxicology experience in U.S. pharmaceutical industry; residency training in comparative pathology. Available August. No agents. Box 82, SCIENCE. X

**Mammologist/Vertebrate Ecologist.** Ph.D. 1978. Teaching experience at quality college. Publications. Competence in anatomy, ecology, behavior, evolution, population dynamics, systematics, biometrics. Experienced in biochemical techniques. Seeking postdoctoral, teaching/research, industrial, curatorial position. Box 83, SCIENCE. X

**Microbiologist.** Ph.D. 1971. Background in government contract cancer research (past 6 years) and pharmaceutical industry (predoctoral) in drug discovery and development. Research as a group leader includes soil screening, antibiotic fermentations, microbiological, cytotoxicity, antitumor, and antiviral bioassays, various immunological and cell culture methods, and enteric virus isolation. Desires research, service, or administrative position. Box 84, SCIENCE. X

**Pharmaceutical Microbiologist.** Ph.D. Ten years of scientific and managerial leadership in R & D, directing microbiological investigations involving sterilization validations; antibiotic and preservative evaluations; microbial limit and sterility testing; experimental infections; water and air analyses. Experienced in working with FDA on INDs and NDAs. Desires director-level R & D position in large pharmaceutical firm producing sterile drugs or medical devices. Box 85, SCIENCE. X

**Pharmacologist/Toxicologist.** Ph.D. Extensive research experience in psychopharmacology, neurotoxicology, and drug safety evaluation testing. Diverse teaching in psychology, pharmacology, and drug abuse. Desires stable administrative or teaching/research position in academics or government. Box 86, SCIENCE. X

**Physical Oceanographer.** Ph.D. and experience. Has worked and published in meteorology, air-sea interaction, descriptive physical oceanography, and biology. Extensive computer experience. Desires position involving interdisciplinary research and teaching. Box 76, SCIENCE. X

## POSITIONS OPEN

### ANATOMIST

There is an opening for an anatomist at the West Virginia School of Osteopathic Medicine (WVSOM) beginning 1 July 1979. Principal responsibilities will be in histology and neuroanatomy but applicant should be competent in gross anatomy as well. Rank and salary will depend upon qualifications. An additional 1-year position in gross anatomy is available to fill in for a person on leave of absence.

WVSOM is a fully accredited medical school in the state's system of higher education; it will graduate its second class in June 1979. There are 60 students in each entering class. A systems approach is used, beginning with the second semester of the freshman year; gross anatomy, however, is taught in the traditional manner throughout the first year.

Emphasis at WVSOM is placed upon excellence in teaching. Research is encouraged and small institutional start-up grants are available but promotions and advancement are based upon academic performance.

Letters of application, curriculum vitae, and the names of three references should be sent to:

Frances H. Higginbotham, Ph.D.  
Professor and Chairman  
Department of Anatomy  
West Virginia School of Osteopathic Medicine  
400 North Lee Street  
Lewisburg, West Virginia 24901

**ASSISTANT PROFESSOR** to conduct research on stress in turfgrass, to teach in the undergraduate program including a course in turfgrass management, and to participate in graduate instruction. The position is an 11-month appointment with a commitment of 35 percent to teaching and 65 percent to research. Requirements are a Ph.D. in a pertinent discipline and a background or demonstrated interest in applied plant science. Position available 1 July 1979. Applicants should submit résumé, statement of qualifications and research interests, transcripts, and names and addresses of three references to: J. L. Paul, Department of Environmental Horticulture, University of California, Davis, Calif. 95616, before 15 May 1979. *The University of California is an Equal Opportunity/Affirmative Action Employer and invites applications from all qualified individuals.*

## POSITIONS OPEN

### ANATOMY—ASSISTANT PROFESSOR Two openings (potential)

Department of Anatomy, University of South Dakota School of Medicine, invites applications from qualified Ph.D. or M.D. for teaching/research position beginning 1 July 1979. Qualifications include broadly based anatomical training/experience for teaching medical and graduate students and an active independent research program. Salary competitive. Closing date: 31 March 1979. Send curriculum vitae with list of three references to: Dr. Wesley W. Parke, Chairman, Department of Anatomy, University of South Dakota School of Medicine, Vermillion, South Dakota 57069.

*Equal Opportunity/Affirmative Action Employer*

### AQUATIC MICROBIAL ECOLOGIST

Applications are invited for research-teaching, tenure-track position effective September 1979 in the Biology Department of Virginia Polytechnic Institute and State University. Rank open. Ph.D. required; postdoctoral experience desired. Teaching is required in undergraduate and graduate courses. Strong research commitment necessary with emphasis on bacteria, algae, or fungi in aquatic ecosystems. Research interests should include some of the following: degradation processes of natural and synthetic organics; role of microbes in assimilative capacity; nutrient cycling and energy flow; emphasis on functional or rate processes; and fate and effects of toxic chemicals. Candidate is expected to integrate with faculty conducting applied and fundamental research. Applicants should send curriculum vitae and up to five pertinent reprints, and request that three letters of recommendation be sent to: Dr. Arthur L. Buikema, Jr., Chairman, Search Committee, Department of Biology, Virginia Polytechnic Institute and State University, Blacksburg, Virginia 24061. Closing date is 1 April 1979.

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### ASSISTANT PROFESSOR OF ANATOMY

Ph.D. to teach human histology and gross anatomy to preprofessional and first-year medical students. Tenure-track appointment jointly in zoology and basic medical sciences. Research is actively encouraged. Development of a program leading to scholarly publication and fostering graduate education is a firm requirement. Send to: Dr. Ronald J. Adkins, Chairman, Anatomy Search Committee, Morrill 102, Washington State University, Pullman, Wash. 99164. *Washington State University is an Affirmative Action/Equal Opportunity Employer.*

**AMHERST COLLEGE** seeks an **ASSISTANT PROFESSOR** in the area of **ECOLOGY** to begin 1 July 1979. Doctorate required. Responsibilities during the first year include teaching a general ecology course (with laboratories) jointly with another ecologist, teaching an additional beginning or advanced undergraduate course and developing an active research program, including supervision of one or two senior research projects. During the second year limited participation in an introductory biology course will be expected. Three-year renewable contract with tenure decision at 6 years. Applicants should send curriculum vitae, copies of publications, and arrange to have three letters of reference sent to: Chairman, Biology Department, Amherst College, Amherst, Mass. 01002. The deadline is 13 April 1979. *An Equal Opportunity/Affirmative Action Employer.*

The Department of Oral Diagnosis, University of Connecticut School of Dental Medicine, is seeking to fill a tenure-track position at the **ASSISTANT PROFESSOR** level in **DENTAL RADIOLOGY**. Candidates should have training in radiology beyond the undergraduate dental curriculum. Responsibilities will include teaching technique and interpretation of common dental radiographic procedures and performance of all routine examinations as well as routine testing and calibration of x-ray equipment and processors. Candidates with interest in clinical and/or basic research are desired. Applicants should forward their curriculum vitae and three references to:

Leslie S. Cutler, D.D.S., Ph.D.  
Chairman, Department of Oral Diagnosis  
The University of Connecticut  
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*The University of Connecticut is an Equal Opportunity/Affirmative Action Employer. Women and minorities are encouraged to apply.*

## POSITIONS OPEN

The Department of Oral Diagnosis, The University of Connecticut School of Dental Medicine, is seeking to fill two positions at the **ASSISTANT PROFESSOR** level. One of the appointments will be a tenure-track position while the other appointment will be for 2 years with the potential for renewal. Responsibilities will include teaching in the undergraduate and graduate clinical and didactic programs in oral diagnosis and hospital dentistry. A D.D.S., D.M.D., or M.D. degree and specialty training in the area of oral medicine and diagnosis or equivalent post-doctoral training is required. Candidates with interest in establishing independent research programs are desired. Applicants should forward their curriculum vitae and three references to:

**Leslie S. Cutler, D.D.S., Ph.D.**  
Chairman, Department of Oral Diagnosis  
The University of Connecticut  
School of Dental Medicine  
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*The University of Connecticut is an Equal Opportunity/Affirmative Action Employer. Women and minorities are encouraged to apply.*

### HARVARD SCHOOL OF PUBLIC HEALTH ASSISTANT PROFESSOR OF INDUSTRIAL HYGIENE ENGINEERING

Applications invited for the position of assistant or associate professor (dependent on qualifications) of industrial hygiene engineering. The position requires a doctorate in industrial hygiene or a closely related field, with a background in engineering and public health. Professional practice as an industrial hygienist plus teaching and research practice are required. Candidates certified by the American Board of Industrial Hygiene will have preference. Responsibility involves teaching in an interdisciplinary curriculum and participating in current research activities in the engineering aspects of occupational health. Excellent opportunities for initiating new research programs of special interest to the successful applicant. Appointment to begin at earliest possible date but not later than 3 September 1979.

*Harvard University is an Equal Opportunity Employer with an Affirmative Action Program. Qualified women and minority group members are encouraged to apply.*

Send curriculum vitae, bibliography, research interests, and three references to:

**Professor Melvin W. First**  
Department of Environmental Health Sciences  
Harvard School of Public Health  
665 Huntington Avenue  
Boston, Massachusetts 02115

**ASSISTANT PROFESSOR OF PHYSIOLOGY** with demonstrated independent research in the cardiovascular area. At least 4 years of postdoctoral experience is required. Send curriculum vitae to: **John J. Spitzer, M.D., Professor and Head, Department of Physiology, Louisiana State University Medical Center, 1542 Tulane Avenue, New Orleans, La. 70112.** *Louisiana State University is an Equal Opportunity/Affirmative Action Employer.*

### BEHAVIORAL TOXICOLOGY RESEARCH

Research position available in field of behavioral toxicology at the Toxic Hazards Research Unit, Wright-Patterson Air Force Base, Dayton, Ohio. This position will have an adjunct professorship of appropriate rank in the University of California, Irvine. Collaborative research conducting studies in animals exposed to airborne materials of environmental/occupational interest. Requires Ph.D. in behavioral sciences or related field and 2 years of post-doctoral research. Experienced in behavioral measurements in laboratory animals. Preference given applicants experienced in inhalation toxicology and published independent work. Closing date for applications is 1 August. *Applications from all qualified candidates are welcome; minorities and women are encouraged to apply.* Submit complete curriculum vitae and names of at least three references to: **Dr. J. D. MacEwen, University of California, Irvine, Toxic Hazards Research Unit, Overlook Branch, P.O. Box 3067, Dayton, Ohio 45431.**

**BIOLOGY FACULTY POSITION.** Teaching responsibilities include a two-semester human anatomy and physiology course for nursing students, and a vertebrate physiology course for biology majors. Ph.D. required. Salary and rank commensurate with experience. Appointment begins September 1979. Deadline for application is 1 April 1979. Send résumé and three letters of recommendation to: **Dr. Keith Miller, Department of Biology, Capital University, Columbus, Ohio 43209.** *An Equal Opportunity/Affirmative Action Employer.*

## POSITIONS OPEN

**ASSISTANT PROFESSOR—ZOOLOGY.** Full-time, tenure-track, \$12,500 to \$16,500, beginning 22 August 1979. Ph.D. and undergraduate teaching experience preferred. Duties include teaching each semester a course in anatomy and physiology (for allied health majors) plus, on a rotating basis, one of the following: general zoology, comparative anatomy/histology, general biology, and a specialty course; directing student research; and developing an active personal research program. Send introductory letter and résumé to: **Dr. Joseph Kawatski, Chairman, Department of Biology, Viterbo College, La Crosse, Wisconsin 54601.** *An Equal Opportunity/Affirmative Action Employer.*

**ASSOCIATE IN RESEARCH** in the area of comparative visual physiology and behavior. Should have M.S. in biology and preferably be experienced in electron microscopy and the editorial preparation of scientific papers. Send résumé to: **Roberta Clouet, Department of Biology, Kline Biology Tower, Yale University, 219 Prospect Street, New Haven, Conn. 06520.**

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### ASSOCIATE VICE PRESIDENT FOR HEALTH AFFAIRS

The associate vice president for health affairs will be the major administrative associate of the vice president for health affairs, and as such must have experience in a major administrative position in an academic health center, familiarity with the university environment, a terminal degree and faculty member experience in a recognized health profession, and budgetary and fiscal experience, as well as new program development. The newly created administrative unit for health affairs at Wright State University is composed of an existing medical school, and a new School of Professional Psychology. Development of other major academic areas are in the early planning stages. A large number of clinical affiliations have been developed, as well as programs in graduate medical education. A letter of application or nomination, including curriculum vitae, with the names of three references, should be sent by 15 April 1979 to: **John R. Beljan, M.D., Vice President for Health Affairs, Dean, School of Medicine, Wright State University, Dayton, Ohio 45435.** *Wright State University is an Equal Opportunity Employer.*

**BIOCHEMISTRY FACULTY POSITION.** Position as assistant professor of chemistry, liberal arts college with strong science program; initial 2-year appointment starting 1 September 1979. Candidate would be expected to teach a one-semester course in biochemistry, participate in the teaching of general and physical chemistry courses, and direct undergraduate thesis research. It is expected that the candidate will maintain an active research program. Applicants should send curriculum vitae, a statement of research interests, and arrange to have three letters of recommendation postmarked by 1 April to: **Dr. Marshall W. Cronyn, Chairman, Biochemistry Search Committee, Department of Chemistry, Reed College, Portland, Oregon 97202.** *An Equal Opportunity/Affirmative Action Employer.*

**BIOCHEMISTRY FACULTY POSITIONS.** Applications are invited for tenure-track positions in the Department of Biochemistry at Emory University. Applicants should have postdoctoral experience and must be committed to both teaching and research. Rank is open, but assistant professor is the likely level of appointment. Teaching duties will include participation in undergraduate and graduate courses, especially as related to the health sciences. Research area is open. Supply a complete résumé, a statement of research plans, and a summary of teaching experience and have at least three letters of recommendation sent to: **Dr. Donald B. McCormick, Chairman, Department of Biochemistry, Emory University School of Medicine, Atlanta, Ga. 30322.**

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### CELL AND MOLECULAR—MICROBIOLOGY

Assistant professor (tenure-stream) to teach undergraduate and graduate courses in microbiology and cell biology, supervise graduate students, and develop an independent research programme (current salary floor: \$20,800). Candidates with Ph.D. completed and postdoctoral research or teaching experience are invited to submit curriculum vitae and names of three referees to: **Dr. R. M. Roy, Chairman, Biology Department, Concordia University, 1455 de Maisonneuve Boulevard West, Montreal, Quebec, Canada H3G 1M8.**

## POSITIONS OPEN

### BIOLOGY. TWO POSITIONS.

1) One-year sabbatical replacement (September to May) to teach general biology for non-majors (enrollment/section varies from 80 to 200). Candidates should have a Ph.D., teaching experience, a strong commitment to excellence in undergraduate teaching, and a considered approach to general courses.

2) One-semester sabbatical replacement (September to December) to coteach first semester biology for majors and to coteach vertebrate natural history. Primary responsibilities in freshman class include animal diversity and population biology as well as two laboratories. Strong background in lower vertebrates required for natural history.

Curriculum vitae and three letters of reference should be received no later than 16 April 1979 by:

**Dr. R. F. McGinnis, Chairman**  
Department of Biology  
Pacific Lutheran University  
Tacoma, Washington 98447

*Equal Opportunity/Affirmative Action Employer*

### WESTERN MICHIGAN UNIVERSITY BIOLOGY

Assistant professor positions (2-year term renewable appointments) anticipated beginning fall 1979: (i) **zoologist** specializing in the lower vertebrates, aquatic research interests; (ii) **population biologist** with evolutionary interests and strong mathematical background; and (iii) **botanist** to teach morphology and environmental biology course for non-majors. Ph.D. and publications required. Responsibilities include teaching introductory and graduate courses, direction of master's degree candidates, and development of research program.

Send curriculum vitae and three letters of recommendation to: **Chairperson, Search Committee, Department of Biology, Western Michigan University, Kalamazoo, Mich. 49008.** *An Equal Opportunity/Affirmative Action Employer.*

**BIOLOGY. Assistant professor** position at Georgia College beginning September 1979; Ph.D. required. Competency in medically oriented histology, microbiology, or parasitology. Duties may include teaching in human anatomy, human physiology, and general biology in addition to the competency areas. Additional responsibility will be working with pre-professional majors. Salary open and negotiable. Send letter of application, curriculum vitae, and three letters of recommendation to:

**Dr. Everette Hayes Barman, Jr.**  
Chairman of Search Committee  
Georgia College  
Milledgeville, Georgia 31061

Applications should be completed by 30 March 1979. *Georgia College is a unit of the University System of Georgia and is an Affirmative Action/Equal Opportunity Employer.*

### OCEANIC LABORATORIES' DIRECTOR VACANCY

The National Oceanic and Atmospheric Administration (NOAA) of the U.S. Department of Commerce has announced the vacancy of director, Atlantic Oceanographic and Meteorological Laboratories (AOML) in Miami, Florida. The director provides research leadership for programs geared to the geology and geophysics of ocean basins and borders, physical and chemical oceanic processes, sea-air interactions and remote sensing of the ocean. The staff includes approximately 115 permanent positions and a budget of approximately \$5 million. The 300-foot ship, *Researcher*, is used more or less full-time by AOML.

**Qualifications:** At least 3 years of specialized experience in or closely related to at least one of the areas of research being conducted (physical oceanography, ocean chemistry, marine geology and geophysics, sea-air interaction, or marine acoustics) with general competence in all of these specialties. At least 1 year of this specialized experience must demonstrate experience in planning and directing complex programs of national significance.

**Salary:** The annual rate will be established between \$44,756 and \$47,500 commensurate with experience, training, and scientific achievement.

**Application:** Interested persons should contact: **Dr. Ferris Webster, Assistant Administrator for Research and Development, National Oceanic and Atmospheric Administration, Washington Science Center (Building 5), 6010 Executive Boulevard, Rockville, Maryland 20852.** Application materials will be provided upon request. *NOAA is an Equal Opportunity Employer.*

## POSITIONS OPEN

### CARDIOTHORACIC RESEARCHER

A researcher in cardiathoracic surgery is needed to study the surgical aspects of the stable nonfailing hypertrophied heart and its physiological and biochemical characteristics, the quantitation and the regression of myocardial hypertrophy, and the changes in the mechanisms of the transition from hypertrophy to failure.

A bachelor's degree in biology and at least 4 years of experience in cardiathoracic surgery, the hydrogen polarography, the measurement of cardiac dimensions and functions by mutual inductance, and a complete knowledge of running a modern cardiathoracic research laboratory are required.

The position is open immediately. The salary range is \$15,000 to \$17,000 annually. Send résumé and salary requirements to: **Alexander Geha, M.D., Yale University, 333 Cedar Street, New Haven, Connecticut 06510.** *Yale University is an Equal Opportunity/Affirmative Action Employer.*

**CHAIRPERSON, PROFESSOR OF CHEMISTRY, DEPARTMENT OF CHEMISTRY.** State University of New York at Albany. Applications are invited for this position to start on 1 September 1979 or as soon thereafter as possible. The Department of Chemistry has a commitment to continuing development of outstanding programs in research and teaching and seeks a chairperson to provide leadership in these areas and to guide the future growth of the department. The applicant should be a chemist of senior rank, with an established reputation in research and interest in teaching and administration. Each applicant should send a résumé and the names of at least three references to: **J. A. Zubieta, Chairman, Search Committee, Department of Chemistry, State University of New York at Albany, Albany, New York 12222.** Applications should be completed before 30 March 1979. *An Equal Opportunity/Affirmative Action Employer.*

**CHIEF, MEDICAL SERVICE** for VA Medical Center. Must qualify for professional appointment in Department of Medicine, University of Washington. Board certification/eligibility required. To apply send curriculum vitae to: **L. P. Eliel, M.D., Veterans Administration Medical Center, Tacoma, Wash. 98493.** *An Equal Opportunity Employer.*

**CLINICAL PATHOLOGIST** to direct Clinical Chemistry Laboratory, Emory University Hospital, and to develop associated teaching and research activities. Requires minimum of 3 years of previous experience in clinical chemistry, demonstrated ability in research, and eligibility for medical licensure in Georgia. Reply to: **Rex B. Conn, M.D., Department of Pathology and Laboratory Medicine, Emory University, Atlanta, Georgia 30322.**

### DIRECTOR, ELLIOTT P. JOSLIN RESEARCH LABORATORIES

Appointee should be a senior scientist with an established reputation in research related to diabetes and of sufficient stature to qualify for a full professorship at the Harvard Medical School. The appointee could also serve as director of the Division of Metabolism at the Peter Bent Brigham Hospital. Candidates are invited to submit up-to-date curriculum vitae and bibliographies to: **Dr. Eugene Braunwald, Chairman of the Search Committee, Peter Bent Brigham Hospital, 721 Huntington Avenue, Boston, Massachusetts 02115.**

*The Joslin Foundation, Harvard Medical School, and the Peter Bent Brigham Hospital are Equal Opportunity/Affirmative Action Employers and qualified women and minority candidates are encouraged to apply.*

### DIRECTOR, CELL SORTER LABORATORY

New core facility at University of Iowa requires a director of a program employing the FACS IV fluorescence-activated cell sorter. Ph.D. or equivalent with 1 to 3 years of flow cytometry experience. Salary negotiable. *The University of Iowa is an Equal Opportunity/Affirmative Action Employer.* Send résumé to:

**John C. Hoak, M.D.  
Department of Medicine  
University Hospitals  
Iowa City, Iowa 52242**

## Senior Toxicologist

**Make a beneficial impact on the environment and your career—at our new Environmental Health Center.**

Stauffer Chemical Company, an international industry leader, is seeking a Senior Toxicologist to conduct a variety of subchronic, chronic and special studies in the design, implementation and interpretation of toxicologic evaluations.

Position offers excellent opportunity for collaborative work with staff in the Mutagenesis/Carcinogenesis, Reproductive Biology/Teratology and Metabolism/Pharmacokinetics Sections. Requirements include a Ph.D in Pharmacology and at least 5 years' related experience.

Stauffer provides an excellent salary and outstanding benefits. Our Health Center is adjacent to the University of Connecticut Health Center, in one of the state's most attractive, semi-rural towns. To apply, please send your curriculum vitae, a brief description of your experience and your salary requirements, in complete confidence, to: **Dr. R. Freudenthal, Stauffer Chemical Company, Suite 327, The Exchange, 270 Farmington Avenue, Farmington, Connecticut 06032.**

**An Equal Opportunity Employer, M/F**

**Stauffer**  
CHEMICALS

## Teratologist/Reproductive Toxicologist

Design, conduct and interpret studies in teratology and multi-generation reproduction at Stauffer Chemical Company's new Environmental Health Center in Farmington, Connecticut. You'll supervise a technical staff, and have ample opportunities for collaborative work in areas which include inhalation toxicology, metabolism/pharmacokinetics, mutagenesis and pathology. Ph.D. and related experience as a senior-level teratologist/reproductive toxicologist required.

Our new Health Center, adjacent to the University of Connecticut Health Center, is located in one of Connecticut's most attractive, semi-rural

towns. We offer a competitive salary, excellent benefits and the opportunity for continuing professional advancement.

Please send your curriculum vitae and salary requirements, in confidence, to: **Dr. R. Freudenthal, Stauffer Chemical Company, Suite 327, The Exchange, 270 Farmington Avenue, Farmington, Connecticut 06032.**

**An Equal Opportunity Employer, M/F**

**Stauffer**  
CHEMICALS



## POSITIONS OPEN

### ASSISTANT PROFESSOR—ANATOMY

The Department of Anatomy at Wayne State University School of Medicine invites applications for a tenure-track position at the assistant professorial level. The department is searching for a highly qualified individual with interests in central nervous system neuronal mechanisms such as synaptology, somatotopic mapping, or neuronal development. Preference will be given to individuals with demonstrated expertise and interests in current neurophysiological techniques and neuroanatomical and/or neurochemical approaches. Excellent facilities and support are available. The development of an independent, creative, and productive research program is an essential requirement. Teaching will be primarily in medical and graduate student neuroscience courses and gross anatomy. Interested individuals should send curriculum vitae, brief summary of research interests, and the names and addresses of three references to: **Dr. Harry Maisel, Chairman, Department of Anatomy, Wayne State University School of Medicine, 540 East Canfield Avenue, Detroit, Mich. 48201.** *Wayne State University is an Equal Opportunity/Affirmative Action Employer.*

The Science Institute of Antioch College has a 1-year opening for a **Biologist** to teach vertebrate zoology, animal physiology, ecology, and three other offerings appropriate to the individual's background. The position does not carry the expectation of renewal. Inquiries, applications, and references should be addressed to:

**Antioch College  
Personnel Office  
Yellow Springs, Ohio 45387**

*Antioch College is an Affirmative Action/Equal Opportunity/504 Employer.*

### BIOPHYSICAL CHEMISTRY, BIOPHYSICS, OR BIOLOGICAL PHYSICS

Calendar-year, tenure-track position at assistant professor level in medicinal chemistry, beginning September 1979. Candidate must be capable of participating in elementary general physics and introductory physical chemistry instruction; experience in radioisotope methodology is also desirable. Postdoctoral research experience in an area of the life sciences is required. Complete job description sent upon request. Send curriculum vitae, a brief statement of future research interests, and have three letters of recommendation sent to: **Dr. M. E. Johnson, Department of Medicinal Chemistry, 545 Pharmacy, University of Illinois at the Medical Center, P.O. Box 6998, Chicago, Illinois 60680.** *The University of Illinois is an Equal Opportunity/Affirmative Action Employer.*

### DEAN UNIVERSITY OF PITTSBURGH SCHOOL OF MEDICINE

Applications are invited from qualified individuals for the position of dean of the School of Medicine at the University of Pittsburgh. Candidates must have a record of effective leadership in academic medicine in outstanding institutions. Applications must include complete curriculum vitae and bibliography. *We are an Equal Opportunity Employer and applications from women and members of minority groups are encouraged.* Please send applications, curriculum vitae, bibliography, and references to: **Secretary, Search Committee, University of Pittsburgh, School of Medicine, M240 Scaife Hall, 3550 Terrace Street, Pittsburgh, Pennsylvania 15261.**

**DEVELOPMENTAL BIOLOGY—VIROLOGY—MOLECULAR BIOLOGY.** Three postdoctoral positions available in a vigorous, young department of ten faculty members working in various areas of molecular biology. Qualified individuals interested in research in the areas of: (i) developmental biology using recombinant DNA technology, (ii) molecular genetic studies on animal viruses (paramyxoviruses), or (iii) molecular genetic studies on bacteriophage P22, should communicate directly with: **Dr. Lydia Villa-Komaroff, Dr. Michael A. Bratt, or Dr. Miriam Susskind, respectively, Department of Microbiology, University of Massachusetts Medical School, 55 Lake Avenue North, Worcester, Mass. 01605.** Applicants should possess scientific credentials equivalent to those required for successful external fellowship applications. *An Equal Opportunity/Affirmative Action Employer.*

## POSITIONS OPEN

### ENDOCRINOLOGY AND BEHAVIOR

The Department of Zoology at Oregon State University invites applications for a tenure-track assistant professorship in endocrinology and behavior. Preference will be given to individuals with extensive training in both endocrinology and behavior. Teaching responsibilities include undergraduate courses in introductory biology, physiology, and behavior, and a graduate course in endocrinology. In addition, the successful applicant will be expected to initiate a vigorous program of federally sponsored research and to become actively involved with graduate education. A Ph.D. with at least 3 years of postdoctoral experience is required. Applications consisting of curriculum vitae, representative reprints, and three letters of reference should be directed to: **Endocrinology Search Committee, Department of Zoology, Oregon State University, Corvallis, Oregon 97331,** by 9 April 1979. *Oregon State University is an Affirmative Action/Equal Opportunity Employer and complies with Section 504 of the Rehabilitation Act of 1973.*

### MICHIGAN STATE UNIVERSITY ENVIRONMENTAL CARCINOGENESIS-MUTAGENESIS

Openings for postdoctoral research associates with strong background in molecular biology, biochemistry, microbiology, pharmacology, or biophysics to study the relationship between DNA repair, mutagenesis, and oncogenic transformation of cells in culture and in vivo by physical and chemical agents. Twelve-month appointment with option of renewing. Send application, including curriculum vitae, reprints, and letters of recommendation, to:

**Dr. J. Justin McCormick  
Carcinogenesis Laboratory  
Fee Hall  
Michigan State University  
East Lansing, Mich. 48824**

**ENVIRONMENTAL GEOLOGIST** for assistant professor, tenure-track position beginning fall 1979. Ph.D.; teaching and field experience in environmental geology/geography. Department primarily supports undergraduate Environmental Science Program and general education. Application, including résumé, three letters of recommendation, graduate transcripts, and brief statement of philosophy and goals, must be postmarked by 16 April 1979. Send to: **Dr. Thomas Detwyler, Chairman, Earth Science Department, Willamette University, Salem, Oregon 97301.** *An Equal Opportunity Employer. Women and minorities are encouraged to apply.*

### EUKARYOTIC GENETICIST

The Department of Biological Sciences at Purdue is considering making a faculty appointment at the assistant professor level. Candidates with outstanding potential for teaching and research in any area of eukaryotic genetics will be considered with preference given to those who complement existing programs and have an interest in neurogenetics or development of *Drosophila*. The successful candidate will be expected to initiate and maintain a program of high quality research and to contribute to the teaching of undergraduate biology majors. Applications, including curriculum vitae, list of publications, statement of research interests, and the names of at least three referees, should be submitted before 31 March to: **Professor Struther Arnott, Head, Department of Biological Sciences, Purdue University, West Lafayette, Ind. 47907.** *Purdue University is an Equal Opportunity/Affirmative Action Employer.*

We are interested in an **EXPERT IN DEVELOPMENT AND MANUFACTURING OF RADIOIMMUNOASSAY.** Marketing and administrative abilities are essential. Expert in radio-pharmaceutical is desirable. Energetic, success oriented individuals should send their work history to: **Box 79, SCIENCE.**

### FACULTY POSITION AVAILABLE

Research position; nontenured. Should have postdoctoral experience in cellular and humoral immunology, biochemistry, and immunogenetics. Salary dependent on experience.

Send letter of inquiry to: **Dr. E. G. Reisner, Box 3010, Division of Immunology, Duke University Medical Center, Durham, N.C. 27710.**

*An Equal Opportunity/Affirmative Action Employer*

## POSITIONS OPEN

### FACULTY POSITION IN INSECT PATHOLOGY Department of Entomological Sciences College of Natural Resources University of California, Berkeley

Full-time, 11-month research (75 percent) and teaching (25 percent) position available 1 July 1979 in insect pathology at the assistant professor level. Expertise mandatory in one of the following areas: bacteriology, comparative virology, mycology, or protozoology. Ph.D. and background in pathology required and postdoctoral experience desirable.

Responsibilities will be in basic and applied research and teaching in insect pathology and pest management. Experience in pathogen-insect relationships, pathogenicity, and the manipulation of pathogens for insect control will be weighting factors when judging applicants.

Send full curriculum vitae, official transcripts, copies of significant publications or manuscripts, and names of three references by 1 April 1979 to: **Evert I. Schlinger, Acting Chairman, Department of Entomological Sciences, 137 Giannini Hall, University of California, Berkeley, California 94720.** *The University of California is an Equal Opportunity/Affirmative Action Employer.*

### FACULTY POSITION IN NATURAL PRODUCTS CHEMISTRY Department of Entomological Sciences College of Natural Resources University of California, Berkeley

Full-time, 11-month research (80 percent) and teaching (20 percent) position available in natural products chemistry at the assistant professor level. Ph.D. in organic chemistry or other field(s) relevant to natural products required with evidence of interest in chemicals active in insects.

Responsibilities will be in basic and applied research involving bioactive chemicals from insects, plants, and other biological materials that influence insect growth, development, reproduction, and behavior. Research will include identification and synthesis of active components, and studies on their potential use in managing insect populations. Teaching duties may include developing a course in chemical ecology, environmental chemistry, insect biochemistry, or chemical pest control.

Send full curriculum vitae, official transcripts, copies of significant publications or manuscripts, and names of at least three references by 1 April 1979 to: **Evert I. Schlinger, Acting Chairman, Department of Entomological Sciences, 137 Giannini Hall, University of California, Berkeley, California 94720.** *The University of California is an Equal Opportunity/Affirmative Action Employer.*

**FRESHWATER BIOLOGIST.** Recent Ph.D. to teach general botany and courses in area of specialty. Research interests in applied aspects of aquatic systems preferred. Ten-month tenure-track appointment at assistant professor level, beginning September 1979. Submit résumé, transcripts, and three letters of recommendation by 1 April 1979 to: **Dr. Alexander Spence, Chairman, Department of Biological Sciences, State University of New York College, Cortland, N.Y. 13045.** *An Affirmative Action/Equal Opportunity Employer.*

**GENETICIST**—Applications are being solicited for a temporary academic year position as visiting professor of biology at the University of Oregon, at 0.5 FTE. Responsibilities will include: (i) an upper division one-term course in eukaryotic genetics, and (ii) an upper division and graduate one-term course in developmental genetics. Collaboration and interaction with graduate students on their research in genetics and developmental biology in connection with the Genetics Training Grant is expected. Since this opening is for a single academic year only, the position may be most suitable for faculty members on sabbatical leave from their home institutions. Salary negotiable depending upon experience.

Interested persons should promptly send curriculum vitae, a brief statement of research interests, reprints of research papers, and any other information deemed desirable to:

**Dr. Philip Grant, Head  
Department of Biology  
University of Oregon  
Eugene, Ore. 97403**

Closing date for applications: 15 April 1979.

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

## POSITIONS OPEN

### EXPERIMENTAL HELMINTHOLOGIST

A tenure-track faculty position, beginning 1 September 1979, is anticipated. Candidate should have extensive training in **IMMUNOPARASITOLOGY** or **BIOCHEMISTRY**. In addition to teaching obligations, the candidate will participate in our NIH training program in parasitology. Postdoctoral experience and publications required. Send curriculum vitae and names and addresses of several references by 30 March 1979 to: **E. Brooks, Department of Zoology, University of Massachusetts, Amherst, Mass. 01003.** An Affirmative Action/Equal Opportunity Employer.

Applications are invited for a tenure-track position as **EXTENSION PLANT PATHOLOGIST** to develop a program in extension (60 percent) and research (40 percent) in diseases of vegetables, including potatoes. Experience in extension and research beyond a Ph.D. preferred. Teaching in alternate years in specialty area possible. Send letter of interest, curriculum vitae, transcripts, and names of three references by 27 April 1979 to: **Dr. J. E. Mitchell, Department of Plant Pathology, 1630 Linden Drive, University of Wisconsin-Madison, Madison, Wis. 53706.**

The University of Wisconsin-Madison is an Affirmative Action/Equal Opportunity Employer.

### FACULTY POSITIONS

Full-time faculty positions are available in the Department of Obstetrics and Gynecology for basic scientists with a research interest in reproductive biology and an expertise in biochemistry. A doctorate is required. Academic rank and salary are dependent on qualifications. If interested, please send curriculum vitae and bibliography to:

**William N. Spellacy, M.D.**

**Professor and Head**

**Department of Obstetrics and Gynecology  
Abraham Lincoln School of Medicine  
University of Illinois Medical Center  
840 South Wood Street  
Chicago, Illinois 60612**

*Affirmative Action/Equal Opportunity Employer*

### UNIVERSITY OF SOUTH CAROLINA SCHOOL OF MEDICINE DEPARTMENT OF MICROBIOLOGY AND IMMUNOLOGY

The University of South Carolina School of Medicine invites applications for **FACULTY POSITIONS** in its recently established Department of Microbiology and Immunology.

Correspondence should be addressed to:

**M. Michael Sigel, Ph.D., Chairman  
Department of Microbiology and Immunology  
University of South Carolina  
Columbia, South Carolina 29208**

*An Affirmative Action/Equal Opportunity Employer*

### MARINE INVERTEBRATE PHYSIOLOGIST

Dauphin Island Sea Laboratory with primary appointment in Department of Biology, University of Alabama, Birmingham. Assistant professor on tenure track; \$18,000 to \$20,000; trained in modern biochemical procedures with postdoctoral experience. Teaching, service, and ability to develop a strong research program required. Submit curriculum vitae and three letters of recommendation by 15 April 1979 to: **Dr. Jack W. Hudson, Department of Biology, University of Alabama, Birmingham, University Station, Birmingham, Alabama 35294.** An Affirmative Action/Equal Opportunity Employer.

**METROLOGIST NEEDED** by the State of California for significant new program. Person selected will develop and direct a new, statewide measurement system involving a network of commercial, educational, governmental, industrial, and scientific research laboratories and the State Metrology Laboratory. Salary from \$1876 to \$2265 per month; full civil service benefits including vacation, sick leave, health plans, good retirement program, and so forth. Requirements include 5 years of experience in measurement science, 2 years of which were in a supervisory or managerial capacity; a master's degree in the field may be substituted for 1 year of the non-supervisory experience or a doctorate may be substituted for 2 years of the non-supervisory experience. Also, major college work in measurement science (metrology), physics, electronics, or measurement engineering. Telephone for more information: 916-336-5119. California Division of Measurement Standards, Sacramento, Calif. 95826.

9 MARCH 1979

## PROGRAM EVALUATION SOLAR ENERGY COLORADO

The Solar Energy Research Institute, located in Golden, Colorado, has several positions available in the Program Evaluation Branch, Analysis and Assessment Division. Branch activities include surveys, studies, and reviews of programs and technologies and an annual review of the Solar Energy Field.

**SENIOR EVALUATOR** PH.D. in Planning, Management, Applied Social Science or field related to program evaluation. Experience in evaluation research with knowledge of decision analysis desirable. Practical experience in working with government managers and decision makers.

**SENIOR SOLAR ENGINEER** Advanced degree Physical Science, or Engineering with minimum 7 years experience in research and development. Experience in planning and conducting R&D in several solar energy areas. Other requirements include demonstrated ability in research project leadership, familiarity with federal solar energy programs, and strong quantitative and systems analysis abilities.

**STAFF EVALUATOR** Solar Energy Programs - Masters Degree in Business Administration, or Public Administration. Minimum 3 years experience in conducting audits, reviews or evaluations of actual government programs with a high technical content. Team leadership in an evaluation project required.

**STAFF ENGINEER** MS Systems Engineering or Planning; or BS and relevant experience in systems planning. Experience in a variety of quantitative techniques, including operations research and computer simulation.

**RESEARCH ASSOCIATE** MS Degree with emphasis in energy technology, systems analysis, technology assessment, or planning. Knowledge of quantitative techniques and computer simulation, with excellent writing skills required.

**RESEARCH ASSOCIATE** Masters or equivalent policy analysis, public administration, or a social science field with emphasis in public policy. Must have the ability to absorb, synthesize, and simplify technical data and arguments.

Qualified candidates are encouraged to submit detailed resumes, (NO PHONE CALLS), including professional references and salary history. SERI will only consider applicants who provide materials requested above.



ATTN: DEPT. R-2  
Personnel Services

**SOLAR ENERGY  
RESEARCH INSTITUTE**

A Division of Midwest Research Institute  
1536 Cole Boulevard, Golden, Colorado 80401

A DOE Contractor

An Equal Opportunity Employer M/F/H/V

## METABOLISM / PHARMACOKINETICS

This challenging opening at Stauffer's new Environmental Health Center in Farmington, Connecticut, requires a Ph.D. with experience in chemical metabolism/pharmacokinetics. Successful candidate will design, conduct and interpret biotransformation studies in our modern, well-equipped laboratory, and will relate the results to toxicological effects observed in sub-chronic and chronic bioassays. Will also determine the species differences in metabolism, and relate saturation of biotransformation pathways to the initiation of toxicologic response.

Excellent opportunities exist for collaborative work in areas such as inhalation toxicology, mutagenesis, teratology, biochemistry, analytical chemistry, carcinogenesis, and pathology.

Our new Health Center, adjacent to the University of Connecticut Health Center, is located in one of the state's most attractive, semi-rural towns. We offer an excellent work environment, competitive salary and an outstanding benefits program.

Please send your curriculum vitae and salary requirements, in confidence, to: **Dr. R. Freudenthal, Stauffer Chemical Company, Suite 327, The Exchange, 270 Farmington Avenue, Farmington, Connecticut 06032.**

An Equal Opportunity  
Employer, M/F

**Stauffer**  
CHEMICALS

## POSITIONS OPEN

### LOUISIANA STATE UNIVERSITY (LSU)

The Department of Geology anticipates adding three new **faculty members** for fall 1979. The appointments are tenure-track at the assistant professor level, although applications will be considered from more senior individuals. We expect to hire an individual with a strong background in stable isotope geology/geochemistry to fill one of the positions, but the other two are open to persons specializing in any area of geology. The Ph.D. or equivalent is required.

The appointees will be responsible for teaching at the undergraduate and graduate levels. They will be expected to develop innovative research and graduate training programs.

All applicants should submit a résumé, a brief statement of their teaching and research interests, and three letters of recommendation to:

**Ray E. Ferrell, Jr., Chairman**  
Department of Geology  
Louisiana State University  
Baton Rouge, La. 70803

The deadline for the receipt of applications is 15 April 1979.

*LSU is an Equal Opportunity/Affirmative Action Employer.*

Possible opening in fall 1979 for visiting faculty member (1-year appointment) in **GEOLOGY/EARTH SCIENCE**. Candidate must be able to teach a wide range of geoscience material. Interest in undergraduate interdisciplinary research highly desirable. Evergreen is a 4-year accredited liberal arts college which emphasizes team-taught interdisciplinary studies. No departments. For information, contact: **Dr. Willard Humphreys, Academic Dean, L2211, The Evergreen State College, Olympia, Wash. 98505**. Closing date: 31 March 1979. *An Affirmative Action/Equal Opportunity Employer.*

**INFORMATION SCIENTIST** with M.S. in plant science. Laboratory experience desirable. Select, recover, and index R & D information in response to scientists' requests related to experimental work and company products. Full range of benefits and liberal salary. Company provides relocation. Send résumé to: **Judith C. Leondar, Manager, Technical Information Services, AMERICAN CYANAMID COMPANY, Agricultural Research Division, P.O. Box 400, Princeton, N.J. 08540**. *An Equal Opportunity Employer, M/F.*

### MICROBIOLOGY FACULTY MEMBERS

The University of Kentucky College of Medicine has two faculty openings in the newly reorganized Department of Medical Microbiology and Immunology which are to be filled at the assistant and assistant or associate professor levels. Candidates should have a Ph.D. or M.D. and postdoctoral and/or faculty research experience. Senior-position candidates must have an ongoing funded research program. Candidates are desired in the areas of microbial physiology, molecular genetics, molecular basis of microbial pathogenesis, and gene regulation. Emphasis will be placed upon genetic, biochemical, and molecular approaches to basic problems. Duties will include the development of a strong research program, graduate student training, and teaching of medical students. The positions will be available beginning approximately January 1980.

Send completed curriculum vitae, including the names of at least three references, to: **S. Kaplan, Department of Medical Microbiology and Immunology, University of Kentucky, College of Medicine, A. B. Chandler Medical Center, MN-524 Medical Center, Lexington, Kentucky 40536**.

*The University of Kentucky is an Equal Opportunity Employer, F/M.*

### POSTDOCTORAL POSITIONS PREDOCTORAL POSITIONS

The University of Kentucky College of Medicine has both postdoctoral and predoctoral positions available within the Department of Medical Microbiology and Immunology for individuals interested in the genetic control of membrane development and biosynthesis. Postdoctoral applicants should send completed curriculum vitae, including three letters of reference. Postdoctoral salary will be \$11,000 to \$12,000 per annum, depending upon experience. Predoctoral applicants should write for information. Both teaching and research assistantships are available. All inquiries should be sent to: **S. Kaplan, Department of Medical Microbiology and Immunology, University of Kentucky College of Medicine, A. B. Chandler Medical Center, MN-524 Medical Center, Lexington, Kentucky 40536**.

*The University of Kentucky is an Equal Opportunity Employer, F/M.*

## POSITIONS OPEN

### FACULTY POSITIONS BIOCHEMISTRY AND BIOPHYSICS

The Department of Biochemistry and Biophysics of The Pennsylvania State University invites applications for two tenure-track positions available at the assistant/associate professor level. Candidates should have a strong background in biochemistry, biophysics, or molecular biology; have postdoctoral experience and be capable of developing an independent research program in one of the following areas: gene structure and regulation of gene expression, possibly using recombinant DNA technology; biochemical endocrinology, particularly with interests in hormonal control of gene expression and differentiation; or nucleic acid and protein metabolism, especially membrane-related systems. We provide excellent physical facilities, competitive salary and benefits, and stimulating research environment. Applications should consist of curriculum vitae, a brief but detailed description of research goals, and the names of three references. Send applications, by 6 April 1979, to: **Dr. R. W. Bernlohr, Department of Biochemistry and Biophysics, The Pennsylvania State University, 108 Althouse Laboratory, University Park, Pennsylvania 16802**.

*An Affirmative Action/Equal Opportunity Employer*

**INSTRUCTOR OR ASSISTANT PROFESSOR IN PHYSIOLOGY**. Medical school full-time faculty to participate in the human physiology course for freshman medical students and advanced courses for graduate students. An active research program, preferably in cardiovascular physiology, is highly desired. Rank and salary negotiable, depending on qualifications and experience; starting 1 July 1979. Send résumé and three letters of recommendation to: **Dr. P. G. Iatridis, Director, Northwest Center for Medical Education, Indiana University School of Medicine, 3400 Broadway, Gary, Indiana 46408**. *Indiana University is an Equal Opportunity/Affirmative Action Employer.*

**MEDICAL MICROBIOLOGY EXPANDING DEPARTMENT** dedicated to research, committed to teaching, desirous of excellence, seeks applicants for tenure-track positions. Candidates should have postdoctoral experience, demonstrated potential for independent and cooperative research, interest(s) in pathogenic mechanisms and immunology at organismal, genetic, and molecular levels. Please send curriculum vitae, names of at least three references who may be contacted for recommendations and, especially, a summary of research interests and future plans to: **Chairman, Search Committee, Department of Microbiology, School of Medicine, University of Missouri-Columbia, Columbia, Mo. 65212**. Deadline: 15 April 1979. *An Equal Opportunity/Affirmative Action Employer.*

### MICROBIOLOGIST

The Department of Biology, University of Nevada, Reno, anticipates an opening for a microbiologist at the assistant professor level. Responsibilities include the teaching of introductory microbiology and advanced courses in an area of specialty. The successful candidate must have an earned Ph.D. in an area of microbiology and is expected to direct graduate students as well as develop a strong research program.

Application deadline: 16 April 1979. Application forms and details from: **Chairman, Search Committee, Department of Biology, University of Nevada, Reno, Nevada 89557**. *The University of Nevada is an Equal Opportunity/Affirmative Action Employer.*

**MUSCLE BIOCHEMISTRY PHYSIOLOGY**—Research associate needed for program examining sarcolemmal properties in myometrium in different physiological states. Ph.D. or equivalent in biochemistry, physiology, or pharmacology. Apply: **Dr. W. Bruce Currie, Department of Animal Science, Cornell University, Ithaca, N.Y. 14853**. *An Equal Opportunity/Affirmative Action Employer; minorities, women, and the handicapped are encouraged to apply.*

### NEUROANATOMISTS

At assistant professor level. Currently involved in neurobiological research. Teaching will include human neuroanatomy. Send curriculum vitae to: **Michael D. Gershon, M.D., Chairman, Department of Anatomy, College of Physicians and Surgeons, Columbia University, 630 West 168 Street, New York, N.Y. 10032**.

*An Equal Opportunity/Affirmative Action Employer*

## POSITIONS OPEN

The Department of Neurology at the University of California, Los Angeles (UCLA), School of Medicine, is seeking a **NEUROLOGIST-CLINICAL NEUROLOGIST** who is wanted to develop and run a clinical evoked potential laboratory with the Department of Neurology. Opportunities available for independent and collaborative research. Appointment at assistant to full professor level, depending upon qualifications. *The University of California is an Affirmative Action/Equal Opportunity Employer.* Submit curriculum vitae to: **Richard D. Walter, M.D., Chairman, Department of Neurology, Reed Neurological Research Center, UCLA School of Medicine, Los Angeles, California 90024**.

### NEUROMAGNETISM

**POSTDOCTORAL POSITION** in the Neuromagnetism Laboratory of the Departments of Physics and Psychology of New York University now open. To conduct studies of visually evoked magnetic fields of the human brain using a cryogenic detection system. Some background in physics as well as sensory physiology or psychology preferred. Salary from \$13,500 renewable for 1 or 2 years. Send curriculum vitae and names of three references to: **Professor S. J. Williamson, Physics Department, New York University, 4 Washington Place, New York, N.Y. 10003**. *An Equal Opportunity/Affirmative Action Employer.*

**PHARMACOLOGIST** needed for faculty position at The Oklahoma College of Osteopathic Medicine and Surgery. Ph.D. and minimum of 2 years of postdoctoral teaching experience required. Biochemical or analytical research interest background preferred. Salary and rank open. Send curriculum vitae and three references to: **Daniel E. Overack, Ph.D., Chairman of Medical Biology Division, The Oklahoma College of Osteopathic Medicine and Surgery, P.O. Box 2280, Tulsa, Oklahoma 74101**. *An Affirmative Action/Equal Opportunity Employer.*

**PHYSICAL OCEANOGRAPHER**. Assistant professor, tenure-track position. Applicant must have experience and interest in the development and use of new technology in making measurements at sea and in the analysis of modern oceanographic observations. Must have a Ph.D. in physical sciences and ability to: (i) conduct independent research, (ii) obtain funding; and (iii) supervise and teach graduate students. Résumé and three letters of reference should be sent to: **G. Ross Heath, Dean, School of Oceanography, Oregon State University, Corvallis, Ore. 97331** before 15 April 1979. *An Affirmative Action/Equal Opportunity Employer in compliance with Section 504, Rehabilitation Act of 1973.*

### PHYSIOLOGICAL OPTICS— PSYCHOPHYSICS OF VISION

Applications for the position of **assistant research scientist in ophthalmology** (nontenure accruing, new grant supported full-time research position) in the laboratory of Professor Jay M. Enoch. This is a cooperative research program between this laboratory and that of Professor Gerald Westheimer, University of California, Berkeley. The research attempts to relate basic to applied clinical science. Advanced knowledge of one or more of the following areas is desirable: visual psychophysics, optics of the eye, computer skills, refractive techniques, and clinical anomalies of the eye and visual pathway. Applicants should have either a Ph.D. degree or a professional degree (M.D. or O.D.), with research experience and commitment. Some travel will be required. Applications should include curriculum vitae, sample research papers, three references, and a statement of research interests. Please respond promptly to: **Professor Jay M. Enoch, Chairman, Search Committee, Department of Ophthalmology, University of Florida College of Medicine, Box J-284 JHMC, Gainesville, Fla. 32610**.

*An Equal Opportunity/Affirmative Action Employer*

**POSTDOCTORAL POSITIONS** available to U.S. citizens and permanent residents under Institutional National Research Service Award (\$10,000 up, depending on experience) to study: (i) hormonal and other factors controlling growth and differentiation of mammary epithelial cells in culture, or (ii) cell and organismal factors affecting spontaneous metastasis of mammary tumors. Cell biologists or biochemists with experience in cell culture preferred. Send résumé and names of three references to: **Director, Cancer Research Laboratory, 230 Warren Hall, University of California, Berkeley, Calif. 94720**. *An Equal Opportunity/Affirmative Action Employer.*



## POSITIONS OPEN

**PLANT PHYSIOLOGY and BIOPHYSICS FACULTY POSITION.** Rank: instructor. Temporary sabbatic replacement. Ten-month appointment for the academic year 1979-1980. Duties: teaching an undergraduate laboratory course in plant physiology and an introductory biology course for nonscience students; interaction with students and faculty in biochemistry/biophysics program expected; and assisting in teaching of biophysics with laboratory in area of candidate's biophysical specialization. Qualifications: Ph.D. and undergraduate teaching experience required. Send curriculum vitae, résumé, a statement of research interests, and three letters of recommendation by 15 March 1979 to: **Chairperson, Search Committee, Department of Biological Science, Box 1000, State University College, Plattsburgh, N.Y. 12901.** An Equal Opportunity/Affirmative Action Employer.

### PLANT PHYSIOLOGIST PHOTOSYNTHESIS

Applications and nominations are invited for a position beginning September 1979. The successful applicant will be expected to develop a vigorous research program. Teaching duties will include an undergraduate course in plant physiology and a graduate-level course in his or her specialty. Rank and salary will be commensurate with qualifications and experience. Deadline for applications is 1 April 1979. To apply, submit complete curriculum vitae and names of three references to: **Dr. Judith Croxdale, Chairman of the Search Committee, Department of Biology, Virginia Polytechnic Institute and State University, Blacksburg, Virginia 24061.**

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**POSTDOCTORAL POSITION** available 1 May 1979 to conduct studies on transcapillary fluid exchange and regulatory mechanisms in the microcirculation. Send résumé and names of three references to: **Dr. Robert W. Gore, Department of Physiology, College of Medicine, University of Arizona, Tucson, Ariz. 85724.** An Equal Opportunity/Affirmative Action/Title IX/Section 504 Employer.

A **POSTDOCTORAL POSITION IN CLINICAL NEUROPHYSIOLOGY** is open in the Department of Neurology, University of California, Irvine. Candidates should have a Ph.D. in neuroscience, psychology, or related fields. The position will involve investigation of human sleep disorders with additional training in clinical application of evoked responses. *All qualified candidates welcome; minorities and women are encouraged to apply.* Send curriculum vitae and names of three references to: **Jon F. Sassin, M.D., Director, Sleep Disorders Center and Professor of Neurology, Department of Neurology, University of California, Irvine Medical Center, 101 City Drive South, Orange, California 92668.** The position will be available 1 July 1979.

**POSTDOCTORAL POSITION** available to Ph.D. for research in electrophysiological and psychophysical studies of humans with retinal and optic nerve disease. Opportunity available to do clinical research in the areas of glaucoma and neuro-ophthalmology using the visually evoked potential, contrast sensitivity measurement, and color vision testing. Some background in human electrophysiological recording and/or psychophysics desirable. Salary: \$10,000 to \$12,000 plus fringe benefits. Send curriculum vitae to: **Samuel Sokol, Ph.D., Department of Ophthalmology, Tufts-New England Medical Center, 171 Harrison Avenue, Boston, Mass. 02111.** Equal Opportunity Employer, M/F. U.S. citizens or permanent residents.

**POSTDOCTORAL POSITION.** Microbiologist, biochemist, or geneticist to do research in microbiology and/or biotechnology of drug development. Experience in investigating molecular interactions of new or modified drugs with DNA is desirable. Send curriculum vitae, statement of research interest, and three references to: **Dr. Anthony J. Sinskey, Department of Nutrition and Food Science, Massachusetts Institute of Technology, Cambridge, Mass. 02139.** An Equal Opportunity Employer.

**POSTDOCTORAL RESEARCH ASSOCIATE. ENZYMOLOGY AND CONTROL MECHANISMS.** Summer 1979, Boston. Good pay. Send résumé and references to: **Box 78, SCIENCE.**

## POSITIONS OPEN

### POSTDOCTORAL POSITIONS IN DEVELOPMENTAL BIOLOGY

**UNIVERSITY OF CALIFORNIA, IRVINE.** Two positions available for postdoctoral fellows, beginning summer 1979, in the Center for Pathobiology. Recent Ph.D. required, preferably in the area of cell biology, developmental biology, or genetics. Candidates to work on problems of stem cell differentiation, determination, pattern formation, or morphogenesis. Research will be carried out in one of several laboratories (H. R. Bode, R. D. Campbell, S. V. Bryant, P. J. Bryant, H. A. Schneiderman) using hydra, amphibians, or *Drosophila*. *Applications from all qualified candidates are welcome; minorities and women are encouraged to apply.* Arrange for three letters of reference to be sent and submit résumé and brief description of research interests and experience to: **H. R. Bode, Center for Pathobiology and Department of Developmental and Cell Biology, University of California, Irvine, Irvine, California 92717.**

## POSITIONS OPEN

**POSTDOCTORAL**—Available immediately or 1 July. Biochemist, biophysicist, or cell biologist to work on synthesis of myelin in vitro. Experience with membrane isolation and cell culture desirable. Send curriculum vitae and names of three references to: **Dr. Sara Suchet, Department of Neurology, The University of Chicago Hospital and Clinics, 950 East 59 Street, Chicago, Illinois 60637.** An Affirmative Action/Equal Opportunity Employer.

**POSTDOCTORAL POSITION** in cellular endocrinology, available for study of membrane receptor regulation in cultured cells. Experience in cell culture and immunology desirable. Salary: \$10,000 to \$14,000, depending on experience. Send curriculum vitae and three references to: **Dr. Robert Fellows, Department of Physiology and Biophysics, University of Iowa College of Medicine, Iowa City, Iowa 52242.** An Equal Opportunity/Affirmative Action Employer.



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### PHYSICAL OCEANOGRAPHER (109-025-026)

Salary: \$16,500 — \$34,045  
Ref. No: 78-NCRSO-32-143 ( S )  
Fisheries and the Environment  
Ocean and Aquatic Sciences  
Bedford Institute of Oceanography  
Dartmouth, Nova Scotia

The successful candidate will plan and conduct research on the physical processes which determine biological productivity on continental shelves, with a special emphasis on the role of tidal dynamics. The duties will involve participation in work at sea and extensive use of numerical simulation and analysis techniques.

#### Qualifications

Applicants must possess a Ph.D., or a lesser degree with evidence of research experience and productivity to a doctorate, in physical oceanography, physics, applied mathematics or a related field. Research experience and a demonstrated capacity to make original contributions in the study of continental shelf oceanography, particularly in the area of tidally-included shallow-water frontal systems, is required. Knowledge of English is essential.

#### How to Apply

Send your application form and/or résumé to:  
**D.E. Fraser**  
**National Capital Region Staffing Office**  
**Public Service Commission of Canada**  
**Ottawa, Ontario K1A 0M7**  
**Closing Date: March 26, 1979**

Please quote the applicable reference number at all times.

## POSITIONS OPEN

**POSTDOCTORAL POSITIONS.** One starting in September 1979 and another in February 1980, supported by NIH training grant, for physiological and biochemical studies of photoreceptor function and physiological, histological, biochemical, and genetic studies of visually defective *Drosophila* and mouse mutants. Positions are currently available in laboratories of Doctors W. L. Pak, D. R. Pepperberg, L. H. Pinto, and G. S. Wasserman. Send curriculum vitae and names of three references to: **William L. Pak, Ph.D., Department of Biological Sciences, Purdue University, West Lafayette, Indiana 47907.** *Purdue University is an Equal Access/Opportunity Employer.*

**POSTDOCTORAL POSITION** in pulmonary physiology is open in the Department of Physiology, University of Florida, with emphasis on environmental aspects (air pollution, smoking, diving). Information:

**Marc J. Jaeger, M.D.**  
Department of Physiology  
Box J-274 JHMC  
Gainesville, Florida 32610

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

**POSTDOCTORAL POSITION**—Available immediately for research on isolation and characterization of peptide hormones and their putative precursors from cultured human malignant cells. Will be part of a research group working on the development of new cancer markers. Strong background in biochemistry is essential. Experience in microsequencing desirable. Send curriculum vitae and two letters of reference to: **FREDERICK CANCER RESEARCH CENTER, Litton Bionetics, Inc., Position #1147, P.O. Box B, Frederick, Md. 21701.** *An Equal Opportunity Employer, M/F.*

**POSTDOCTORAL RESEARCH ASSOCIATE.** Position available for research in regulation of membrane lipid asymmetry in tumorigenic cells or for regulation of very low density lipoprotein physical properties. Candidates should have a Ph.D. in a biomedical science preferably in biochemistry, chemistry, or biophysics and should expect to spend 2 to 3 years in our laboratory. Send curriculum vitae and names of three references to: **Dr. Friedhelm Schroeder, Department of Pharmacology, University of Missouri, School of Medicine, Columbia, Missouri 65212.** *An Affirmative Action/Equal Opportunity Employer.*

**POSTDOCTORAL RESEARCH ASSOCIATE** position now available. To investigate the molecular organization of heterochromatin in a *Drosophila* species. Experiences in chromosomal proteins and protein-DNA interactions are preferred. Send résumé and names of references to: **Dr. C. S. Lee, Department of Zoology, University of Texas at Austin, Austin, Texas 78712.** *The University of Texas is an Equal Opportunity/Affirmative Action Employer.*

**POSTDOCTORAL RESEARCH POSITION.** Available immediately in biochemistry and immunology of capsular polysaccharides. Send curriculum vitae and three letters of reference by 5 April 1979 to: **Dr. Robert Cherniack, Department of Chemistry, Georgia State University, University Plaza, Atlanta, Georgia 30303.** Telephone: 404-658-3125. *Georgia State is an Equal Opportunity Institution and is an Equal Opportunity/Affirmative Action Employer in compliance with Title IX and other Civil Rights laws.*

### PULMONARY PHYSIOLOGY RESEARCH

Research position available in field of mammalian pulmonary physiology at the Toxic Hazards Research Unit, Wright-Patterson Air Force Base, Dayton, Ohio. This position will have an adjunct professorship of appropriate rank in the University of California, Irvine. Collaborative research conducting physiologic studies in animals exposed to airborne materials of environmental/occupational interest. Requires Ph.D. in physiology or related field and 2 years of postdoctoral research experience in pulmonary measurements in intact laboratory animals. Preference given applicants experienced in inhalation toxicology with published independent work. Closing date for applications is June 1. *Applications from all qualified candidates are welcome; minorities and women are encouraged to apply.* Submit complete curriculum vitae and names of at least three references to: **Dr. J. D. MacEwen, University of California, Irvine, Toxic Hazards Research Unit, Overlook Branch, P.O. Box 3067, Dayton, Ohio 45431.**

## POSITIONS OPEN

**PRE- AND POSTDOCTORAL POSITIONS** are available for studies on the protein synthesizing system with special emphasis on structure and function of mRNP particles, ribosomes—topography, biogenesis and function—under various conditions of growth and development. Teaching opportunities available. Reply with résumé to:

**Professor Bruce H. Sells**  
Laboratories of Molecular Biology  
Faculty of Medicine  
Memorial University of Newfoundland  
St. John's, Newfoundland, Canada A1B 3V6

### PROTOZOOLOGIST

D.V.M., M.D., D.D.S. and/or Ph.D. in protozoology with specialization in cell biology, biochemistry, or pharmacology.

#### DUTIES:

**Teaching**—Contribute to lecture and laboratory assignments in parasitology for veterinary medical students; participate in department's graduate offerings in parasitology with specific responsibility for the development of a graduate course in protozoology for students in biological sciences, microbiology, and entomology.

**Research**—Contribute to the research program in parasitology through the development of a strong, organized research effort in protozoology. Must have demonstrated achievement in research through significant contributions to the literature and through an ability to obtain sustained research support in competition with other protozoologists.

Title and salary will be commensurate with ability and experience. Send curriculum vitae, personal bibliography, and references to:

**Dr. R. H. Cypess**  
Department of Preventive Medicine  
New York State College of Veterinary Medicine  
Cornell University  
Ithaca, New York 14853

*Affirmative Action/Equal Opportunity Employer*

We are looking for a **RESEARCH ASSISTANT** with experience in histology. The position is available up to 6 months only (\$17,000 to \$20,000 per annum). The work will be carried out in Switzerland and at a marine laboratory in the United States. Travel expenses paid.

Please send application to: **Dr. M. M. Burger, Bio-center, University of Basel, Klingelbergstrasse 70, CH-4056 Basel, Switzerland.**

**RESEARCH ASSOCIATE.** Will isolate SV40 mutants using biochemical and tissue culture techniques and study their tumorigenicity in rats. Experiments include autopsy and detailed histological examination of large number of virus-infected animals. Must have Ph.D. in biological science; training in and strong working knowledge of anatomy, pathology, and histology; minimum of 4 years of experience in nucleic acid research and cell culture at postdoctoral level; \$1,100 monthly. **Lauren Sompayrac, Molecular, Cellular and Developmental Biology, University of Colorado, Boulder, Colorado 80309.**

**RESEARCH ASSOCIATE.** The Atomic Physics Group at Kansas State University (KSU) has one or more 1-year postdoctoral openings for recent Ph.D.'s with experience in experimental ion-atom collision problems.

**VISITING RESEARCH SCIENTIST:** the Atomic Physics Group has one or more openings for established research physicists on sabbatical leave who would like to work on experimental ion-atom collision problems.

Apply with curriculum vitae and names of three references to: **Professor J. R. Macdonald or Professor P. Richard, Department of Physics, Kansas State University, Manhattan, Kansas 66506.** *KSU is an Equal Opportunity/Affirmative Action Employer.*

### RESEARCH ASSOCIATE PHYSIOLOGY AND BIOPHYSICS

Position available immediately concerning integrative studies of vascular smooth muscle and hypertension. Candidate must have Ph.D. and record of accomplishments in muscle structure or function, or hypertension. Experience desirable in methods associated with one or more of the following: pharmacologic control of smooth muscle; electrophysiology; and microcirculatory hemodynamics. Send résumé and names of three references to: **Dr. William Halpern, Department of Physiology and Biophysics, University of Vermont, Burlington, Vermont 05405.**

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## POSITIONS OPEN

**RESEARCH ASSOCIATE** available immediately for research on physiological plant ecology/anatomy of desert perennials during part or rest of 1979. Graduate background in plant physiology or anatomy and use of  $^{14}\text{CO}_2$  desired. Salary: \$600 to \$1000 per month. Personal research opportunities available. Contact: **Dr. Arthur Gibson, Department of Ecology and Evolutionary Biology, University of Arizona, Tucson, Ariz. 85721.** *Equal Opportunity/Affirmative Action/Title IX/Section 504 Employer.*

**RESEARCH ASSOCIATE IN SYNAPTIC PHYSIOLOGY.** Neurobiologist wanted with physical science background and computer experience to collaborate in voltage clamp studies of synaptic events in sympathetic ganglia. Available for 2½ years starting 1 March 1979. Salary level negotiable depending on prior experience. Contact: **Dr. R. L. Parsons, Department of Physiology and Biophysics, University of Vermont, Burlington, Vermont 05405.**

### SEDIMENTOLOGIST

University of Wisconsin-Milwaukee (UWM)

Assistant professor-level opening beginning September 1979, for a sedimentologist with teaching capabilities in sedimentology, sedimentary petrology, oceanography, and elementary geology. Ph.D. required. The successful candidate must enthusiastically conduct research in his/her area of specialization, supervise graduate students, and teach undergraduate and graduate students. A commitment to excellence in both teaching and research is essential. Location and facilities provide unusual opportunities for Great Lakes research. Curriculum vitae and three letters of recommendation are to be received no later than 20 March 1979 by: **Dr. Robert E. Gernant, Chairman, Department of Geological Sciences, University of Wisconsin-Milwaukee, Milwaukee, Wisconsin 53201.** *UWM is an Equal Opportunity/Affirmative Action Employer.*

**STATEWIDE PESTICIDE COORDINATOR.** University of California career position available. Provide statewide coordination of all aspects of pesticide registration, use, and safety; interface with the agricultural sector, pesticide industry, governmental agencies, consumers, and environmentalists. Ph.D. and 5 years of related experience required. Davis location. Contact: **Personnel Administrator, Cooperative Extension, 331 University Hall, University of California, Berkeley, Calif. 94720.** Refer to #7903. Closing date: 27 April 1979.

Applications from Ph.D.'s are invited for **TEACHING POSITIONS** in the following courses:

**Biochemistry  
Histology Laboratory  
Physiology  
Pathology  
Pharmacology  
Neuroanatomy Laboratory**

The university is located in the West Indies. Please send curriculum vitae to:

**St. George's University**  
c/o The Foreign Medical School Service Corporation  
One East Main Street  
Bay Shore, New York 11706

### VERTEBRATE BIOLOGIST

University of North Carolina at Charlotte (UNCC) has a tenure-track position starting fall 1979. Applicants must be competent in comparative anatomy and willing to develop courses in their specialty which will complement the offerings of the undergraduate and graduate program. An active research program is essential. Position requires earned doctorate. Rank and salary are competitive. Résumé and letters are to be sent to: **Dr. Roger H. Trumbore, Chairman, Biology Department, UNCC, Charlotte, N.C. 28223.** Deadline for application is 30 March. *UNCC is an Affirmative Action/Equal Opportunity Employer.*

## POSITIONS OPEN

**POSTDOCTORAL POSITION** to study the role of fibronectin in cell adhesion and other cell membrane phenomena. Experience in biochemistry and/or cell biology desired. See *Proc. Natl. Acad. Sci. U.S.A.* 75, 6159 (1978) and *Exp. Cell. Res.* 115, 73 (1978). Send curriculum vitae and references to: **Dr. Robert J. Klebe, Division of Human Genetics, University of Texas Medical Branch, Galveston, Texas 77550.** An Equal Opportunity/Affirmative Action Employer.

## TECHNOLOGY AND PUBLIC POLICY

The Department of Engineering and Public Policy of Carnegie Institute of Technology, and the School of Urban and Public Affairs and the College of Humanities and Social Science, Carnegie-Mellon University, have one or more joint faculty openings: (i) for **APPLIED SOCIAL SCIENTISTS** interested in doing collaborative policy research with engineers or (ii) for **ENGINEERS** interested in doing collaborative policy research with social scientists. Problem areas of interest include social impacts of computers and telecommunications, product liability and safety, electric power load management, retrospective technology assessment, and energy and environmental systems. Desirable areas of skill include decision analysis, optimization techniques, organizational analysis, and regulatory process and law. Send résumé with list of publications to:

**Dr. M. Granger Morgan**  
Department of Engineering and Public Policy, 19816  
Carnegie-Mellon University  
Pittsburgh, Pa. 15213

**VISITING PROFESSOR.** Physical biochemist needed for 1979-1980 academic year at any professional rank. Duties to include team teaching of graduate level physical biochemistry courses, both lectures and laboratory. Collaboration with present faculty encouraged. Submit résumé and names of three references to: **Chairman, Department of Biochemistry and Biophysics, John A. Burns School of Medicine, University of Hawaii, Honolulu, Hawaii 96822.** An Equal Opportunity Employer.

## POSITIONS OPEN

**DIABETES CENTER, UNIVERSITY OF IOWA**—Immediate opening.

**RESEARCH SCIENTIST, RADIOLIGAND ANALYSIS:** Ph.D. with experience in radioimmuno- or radioreceptor assay and iodination techniques. Experience with membrane preparation, protein separation, and computers helpful.

**RESEARCH SCIENTIST, RECOMBINANT DNA:** Ph.D. with experience in production of cDNA, DNA cloning, and DNA sequencing techniques.

**RESEARCH ASSOCIATES:** at least B.A. with experience in either of the above fields or cell culture techniques.

Send curriculum vitae and three letters of reference to: **Daryl K. Granner, M.D., Director, Diabetes Center, Department of Internal Medicine, University of Iowa, Iowa City, Iowa 52242.** An Equal Opportunity Employer.

## TRAINEESHIPS

### GRADUATE TRAINING IN CELLULAR AND MOLECULAR BIOLOGY

Predoctoral traineeships are available for fall 1979 for an NIH-supported, interdepartmental program. The program provides financial support, counseling, and a core curriculum stressing modern cellular and molecular biology. Specialization is furnished by the individual departmental curricula and the thesis adviser chosen by the trainee.

Entrance into the program is made through one of the nine separate departments (anatomy, biochemistry, biology, biomedical engineering, macromolecular science, microbiology, pathology, pharmacology, and physiology) of Case Western Reserve University.

For more information and application forms please write to:

**Dr. Arnold I. Caplan**  
Department of Biology  
Case Western Reserve University  
Cleveland, Ohio 44106

In your letter, please indicate which department(s) interests you.

## TRAINEESHIPS

Two **POSTDOCTORAL TRAINEESHIPS** are available in biochemistry at the University of California, Los Angeles (UCLA), Mental Retardation Research Center, through an award from USPHS. Studies focus on various aspects of inborn errors of metabolism and the metabolism of ketone bodies during development. Apply to: **Dr. George Popják or Dr. John Edmond, Mental Retardation Research Center, 760 Westwood Plaza, UCLA School of Medicine, Los Angeles, California 90024.** An Equal Opportunity Employer.

### PRE- AND POSTDOCTORAL ENVIRONMENTAL EPIDEMIOLOGY TRAINEESHIPS

Applications are being accepted for pre- and post-doctoral training in environmental epidemiology. Eligible persons are: (i) predoctoral candidates with a background in biological or environmental sciences, epidemiology or biostatistics, or (ii) post-doctoral candidates with an M.D., D.V.M., D.D.S., or Ph.D. degree. Contact: **Dr. Anita K. Bahn, Chairperson, Graduate Group in Epidemiology, University of Pennsylvania, 36th and Hamilton Walk GA, Philadelphia, Pa. 19104; telephone: 215-243-4890.**

## COURSES

**SCANNING AND TRANSMISSION ELECTRON MICROSCOPY**—Classes are designed to introduce the participants to the theoretical and practical aspects of electron microscopy. Primary emphasis will be on specimen preparation, operation of electron microscopes, photographic and darkroom techniques. Tuition—\$595 for TEM, 4 to 15 June (2 weeks); \$520 for SEM, 18 to 22 June and 25 to 29 June (1 week each); \$935 for combined program, 4 to 22 June. For information write or phone: **Fred Lightfoot, Department of Anatomy, George Washington University, 2300 Eye Street, NW, Washington, D.C. 20037; telephone: 202-676-2881 or 3511.**

## Drug Regulatory Affairs

Adria Laboratories, a rapidly growing ethical pharmaceutical firm, located in Columbus, Ohio, has an excellent career opportunity in its Drug Regulatory Affairs Department.

The position will report to the Manager, Drug Regulatory Affairs, and be responsible for the review, preparation and submission of regulatory documents to the FDA for assigned products or projects; coordination with Research, Medical, Quality Assurance and Marketing Division personnel concerning scientific and/or product regulatory matters; and for providing regulatory opinions on product related activities to appropriate company personnel.

The position requires a technical degree and 2 years experience in a drug regulatory function. Experience with FDA contact or interaction helpful.

Paid relocation, all major company benefits including dental plan and company contribution savings plan.

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## COURSES

### GEOTHERMAL ENERGY AND THE ENVIRONMENT

A short course is being offered for high school and junior college teachers of biology, chemistry, physics, and earth sciences, funded by the Department of Energy. Course studies geothermal resources in Sonoma County, California, including environmental issues and comparison with other energy sources. Two units of credit given. Stipend offered. Course date: 18 to 27 June. Application deadline: 1 May. Write: Dr. Richard Karas, Department of Physics, Sonoma State University, 1801 East Cotati Avenue, Rohnert Park, Calif. 94928. Re: Physics S513.

## CONFERENCE

The Second International Conference on Diagnostic Immunology will be held from 5 to 10 August 1979 at New England College, Henniker, New Hampshire. The conference, which is sponsored by the Engineering Foundation, will focus on two major themes:

- 1) The application of immunological techniques to the diagnosis of disease; and
- 2) Progress in new immunological techniques.

Sessions will be divided into seven major topics of interest including hormones, infectious diseases, immunologically mediated diseases and receptors. Dr. G. Omenn, presidential adviser, will deliver an address. The symposium is primarily reserved for invited principal contributors. However, sessions have been set aside for unsolicited papers. English will be the language used for all presentations. The symposium will be limited to 150 participants. Selection of participants will be based on their participation in the conference and on maintenance of a balance for hospitals, industries, and the academic community. Applications may be obtained from: The Engineering Foundation, 345 East 47 Street, New York, N.Y. 10017. For further information concerning the conference program, contact: Dr. G. Odstrchel, Conference Co-Chairman, Corning Glass Works, Sullivan Science Park, Corning, N.Y. 14830.

## WORKSHOPS

### THIRD ANNUAL WORKSHOPS ON INDUSTRIAL TOXICOLOGY

Thomas Jefferson University offers a 3-day Basic Workshop on Industrial Toxicology, 30 April to 2 May 1979 and an Advanced Workshop, 3 to 4 May 1979.

Topics of the Basic Workshop include: introduction to mutagenesis, carcinogenesis, and teratogenesis; organ toxicity: for example, liver, kidney, CNS, eye, and so forth; toxicity testing; interpretation and application of toxicity data; problems in environmental toxicology; selecting a contract laboratory; future developments in industrial and environmental toxicology; role of behavioral toxicology in safety evaluation; history of federal regulation of industrial air standards; scientific basis of decision-making by EPA; recent judicial and regulatory developments involving OSHA.

Advanced Course includes in-depth discussions with experts on the following topics: nonlethal cell damage; metabolic activation of chemicals; origins of human cancer; identifying human carcinogens; risk assessment of carcinogens; advanced mutagenesis, carcinogenesis, and teratogenesis.

For brochure and information: Dean R. C. Baldrige, College of Graduate Studies, Thomas Jefferson University, Philadelphia, Pa. 19107. Telephone: 215-829-8982.

## PROGRAMS

### UNIQUE DOCTORAL PROGRAM IN BIOLOGY OR SCIENCE EDUCATION

Looking for a unique doctoral program in biology or science education designed to meet individual needs and to foster discipline competencies and teaching skills? Investigate the programs offered at Ball State University. Fellowships available for 1979-1980 academic year. Contact: Dr. Thomas Mertens, Department of Biology, Ball State University, Muncie, Ind. 47306.

## FELLOWSHIPS

### POSTDOCTORAL FELLOWSHIP IN CELLULAR AGING

Two postdoctoral positions of 1 to 2 years duration are available to study cellular aging. Appointees will participate in a National Institute of Aging Training Grant Program involving the development of in vitro model systems relevant to the study of aging. Emphasis of the training program is on the development and use of techniques for establishing cell cultures that retain tissue-specific functions in vitro. These systems will be used to study various aspects of aging. Candidates must have a Ph.D. or M.D. degree in some area of the life sciences and have a demonstrable interest in aging research. Candidates must also be permanent residents of the United States and be committed to a career in aging research. Stipends range from \$10,000 to \$12,000 depending on previous postdoctoral experience. Interested candidates should send curriculum vitae, names of references, and specific area of interest to: Dr. James R. Smith, Associate Scientist, W. Alton Jones Cell Science Center, Old Barn Road, Lake Placid, New York 12946.

*An Equal Opportunity Employer*

### POSTDOCTORAL FELLOW

Postdoctoral fellowship (1 year), available immediately for research on the molecular structure of chromatin and how this is altered in differentiation and neoplasia. Background in biochemistry, physical biochemistry, molecular biology, or biology required. Send curriculum vitae with names of references and proposed starting date to:

Henry Simpkins, M.D., Ph.D.  
Department of Pathology  
University of California, Irvine  
College of Medicine  
Irvine, California 92717

**POSTDOCTORAL AND PREDOCTORAL FELLOWSHIPS IN BEHAVIORAL GENETICS.** Several openings July or September 1979. Persons holding a doctorate in genetics, psychology, or closely related fields with an interest in pursuing careers at an interdisciplinary level in areas related to development, genetics, neurobiology, and psychology, with emphasis on human aspects of behavioral genetics, are encouraged to submit curriculum vitae, statement of research interests, and three letters of reference to: V. Elving Anderson, Dight Institute for Human Genetics, University of Minnesota, 400 Church Street, SE, Minneapolis, Minn. 55455. To assure consideration, apply by 1 May. Predoctoral applicants should write for information. These fellowships are subject to the regulations for National Research Service Awards. *The University of Minnesota is an Equal Opportunity Educator and Employer.*

### A Unique Postdoctoral Program Designed to Relate Psychophysics of Vision and Physiological Optics to Clinical Ophthalmic Science

A limited number of 2- and 3-year National Eye Institute-sponsored postdoctoral fellowships are offered for interested parties to serve part of their training period in this laboratory, and part of their time in other research centers in order to receive breadth of training in an effort to further advance research relating modern visual science to clinical application. Programs will be tailored to the interests of individuals accepted into the program and to the perceived requirements of the ophthalmic research community. It is hoped that this training will be especially useful in advancing knowledge of visual performance in a number of disease categories including diabetic retinopathy, senile macular degenerations, retinitis pigmentosa, the glaucomas, nerve conduction anomalies, and functional problems including amblyopia, anomalies of binocular vision, and vision through partially opaque or translucent media.

Individuals completing Ph.D. training, residency and/or first postdoctoral programs are invited to apply. They must be U.S. citizens or holders of an immigration visa. Please send curriculum vitae and a statement of interest and career goals to:

Jay M. Enoch, Ph.D., Program Director  
Department of Ophthalmology  
University of Florida College of Medicine  
Box J-284, JHMHC  
Gainesville, Fla. 32610  
Telephone: 904-392-4098

Advisory Committee: William Boone, M.D., Constance Fitzgerald, M.D., Herbert Kaufman, M.D., Lorin Riggs, Ph.D., Charles Schepens, M.D., and Gerald Westheimer, Ph.D.

*Affirmative Action/Equal Opportunity Employer*

## FELLOWSHIPS

### UNIVERSITY OF BRITISH COLUMBIA Vancouver, British Columbia, Canada

Postdoctorate fellowship (2 years) available immediately for research on the mechanism of bacterial attachment to hard and soft tissue with emphasis on isolation and characterization of cell surface components involved in bacterial attachment reactions.

Salary: \$11,700 for first year and \$12,500 for second. Send curriculum vitae and names of three referees to:

Dr. B. C. McBride  
Microbiology Department  
University of British Columbia  
2075 Wesbrook Mall  
Vancouver, British Columbia, Canada V6T 1W5

**POSTDOCTORAL FELLOWSHIPS** in experimental lung immunopathology. Applicants should have experience in: (i) isolation and culture of mammalian cells (especially epithelial and/or endothelial cells), or (ii) protein purification and characterization. Research project involves developing techniques useful in isolation and culture of mammalian lung cells, and definition of their roles as effector or target cells in lung inflammation. Additional efforts will focus on purification and characterization of mediators and regulators of lung inflammatory processes. Fellowships available immediately; salary according to NIH guidelines. Send curriculum vitae and three letters of reference to: D. L. Kreutzer, Ph.D., Pathology Department, University of Connecticut Health Center, Farmington, Conn. 06032. *Equal Opportunity Employer.*

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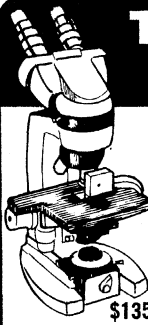
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