

**Programs in BASIC for Simple Correlation and Regression (with Worked Examples).** Roger Till with programs by Sue Watts. University of Reading Geology Department, Reading, England, 1977. iv, 62 pp., illus. Paper, 75p. Reading University Geological Reports, No. 11. Computer-Based Packages for Teaching Earth Science, Report No. 5.

**Progress in Nucleic Acid Research and Molecular Biology.** Vol. 20. Waldo E. Cohn, Ed. Academic Press, New York, 1977. xvi, 298 pp., illus. \$24.50.

**Psyche and Demos.** Individual Psychology and the Issues of Population. Warren B. Miller and R. Kenneth Godwin. Oxford University Press, New York, 1977. xvi, 332 pp. Cloth, \$12; paper, \$5. Reconstruction of Society Series.

**Receptors and Recognition.** Series A. Vol. 3. P. Cuatrecasas and M. F. Greaves, Eds. Chapman and Hall, London, and Halsted (Wiley), New York, 1977. viii, 166 pp., illus. \$24.50.

**Roots of Open Education in America.** Reminiscences and Reflections. Papers from a conference, New York, Apr. 1975. Ruth Dropkin and Arthur Tobier, Eds. City College Workshop Center for Open Education, New York, 1976. vi, 202 pp. + plates. Paper, \$5.

**The Science and Technology of Gelatin.** A. G. Ward and A. Courts, Eds. Academic Press, New York, 1977. xvi, 564 pp., illus. \$39.50. Food Science and Technology.

**Scientific Aspects of Nature Conservation in Great Britain.** Proceedings of a meeting, London, June 1976. The Royal Society, London, 1977. x, 104 pp., illus. £3.65.

**Scoliosis.** Proceedings of a symposium, London, Sept. 1976. P. A. Zorab, Ed. Academic Press, New York, 1977. xvi, 382 pp., illus. \$15.25.

**Secrets of the Stones.** The Story of Astroarchaeology. John Michell. Penguin Books, New York, 1977. 96 pp., illus. Paper, \$2.95.

**Sensible Sludge.** A New Look at a Wasted Natural Resource. Jerome Goldstein. Rodale Press, Emmaus, Pa., 1977. viii, 184 pp., illus. Paper, \$5.95.

**SIF Cells.** Structure and Function of the Small, Intensely Fluorescent Sympathetic Cells. Olavi Eränkő, Ed. National Institutes of Health, Bethesda, Md., 1976 (available from the Superintendent of Documents, Washington, D.C.). xiv, 260 pp., illus. \$6.50. Fogarty International Center Proceedings, No. 30. DHEW Publication No. (NIH) 76-942.

**Statistical Principles in Health Care Information.** S. James Kilpatrick. University Park Press, Baltimore, ed. 2, 1977. xviii, 286 pp., illus. \$14.50.

**Stress and Coping.** An Anthology. Alan Monat and Richard S. Lazarus. Columbia University Press, New York, 1977. xvi, 426 pp., illus. Cloth, \$20; paper, \$10.

**Studies in Neurolinguistics.** Vol. 3. Haiganoosh Whitaker and Harry A. Whitaker, Eds. Academic Press, New York, 1977. xiv, 322 pp., illus. \$18.50. Perspectives in Neurolinguistics and Psycholinguistics.

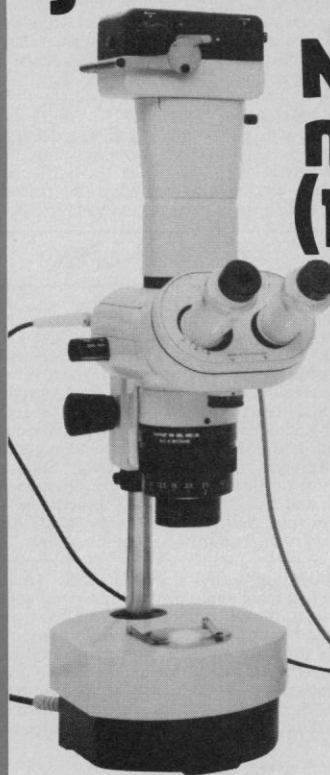
**Supervision in Speech Pathology.** A Handbook for Supervisors and Clinicians. Albert R. Oratio. University Park Press, Baltimore, 1977. xviii, 148 pp., illus. Paper, \$7.95.

**Television and the Preschool Child.** A Psychological Theory of Instruction and Curriculum Development. Harvey Lesser. Academic Press, New York, 1977. x, 262 pp., illus. \$16.

**Tools for Thought.** How to Understand and Apply the Latest Techniques of Problem Solving. C. H. Waddington. Basic Books, New York, 1977. 250 pp., illus. \$12.

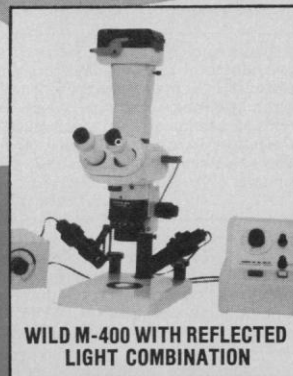
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# Personnel Placement

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## POSITIONS WANTED

**Anatomist-Histologist-Embryologist.** Ph.D. 1973. Seeks teaching-research position. Three years of postdoctoral experience. Broad research background. Box 7, SCIENCE. X

**Biochemical Endocrinologist.** Ph.D. Two years of independent postdoctoral research and teaching. Extensive experience in human and experimental mammary cancers, hormone receptors, tissue culture, and RIA. Broad proficiency in biochemical techniques. Publications, societies, honors, and references. Prefers academic or industrial position. Available summer 1978. Box 18, SCIENCE. 1/20; 2/3, 17; 3/3, 17

**Biochemical Pharmacotoxicologist.** Veterinarian, doctorate, 1977; 5 years of research experience in toxicology, pharmacology, immunology, enzymology, electrophoresis, chromatography; publications. Seeks position in university/industry. Write: Ghosh, Werderstrasse 5, 3000 Hannover, West Germany. X

**Biochemist.** Ph.D. Seeks postdoctoral position in food or medical biochemistry for July 1978. Write to: Eid, Institut Chimie, Rue Blaise Pascal, 67008-Strasbourg-Cedex, France. X

**Biochemist.** M.D., Ph.D., assistant professor, wishes to change position. Over 10 years of research, grants, publications. Expertise in induced enzyme biosynthesis, purification and characterization of proteinases and inhibitors. Current research: biochemical and clinical aspects of antitrypsin. Box 16, SCIENCE. 1/20; 27; 2/3

**Electronic Engineer.** B.S., specialized in design and development of research instrumentation. Seeks a challenging position with side-by-side research involvement in academic or industrial research and/or development environment. Five years of experience with sponsored-research group; extensive practice in state-of-the-art analog, digital, and optoelectronic design and implementation; computer programming abilities; believes in documenting own work. Enthusiastic. Adaptable. Box 17, SCIENCE. X

**Psychopharmacologist.** Ph.D., needs position change. Highly motivated and productive. Main interests include antiparkinsonism drugs, narcotics, psychotropic drugs, neurochemical correlates. Many publications; many exciting ideas. Also enthusiastic about organizing a new CNS research laboratory. Box 445, SCIENCE. 1/20; 2/3

## POSITIONS WANTED

**Cardiovascular Pharmacologist.** Ph.D., with research interests in mechanisms and treatment of experimental hypertension, sympathetic and humoral influences in renal functions. Seeks research/teaching position. Box 15, SCIENCE. X

**Parasitologist/Microbiologist.** Ph.D. (medical parasitology), M.S. (public health). Postdoctoral microbiology training at C.D.C. Two years of clinical laboratory experience. Broad teaching interests; primary research interest in parasite physiology. Desires academic position. Box 19, SCIENCE. X

**Plant Physiologist.** Ph.D. 1975. Three-year postdoctoral with publications. Interests include metal toxicity, nitrogen cycling, root physiology, and herbicide physiology. M.S. soils, B.A. biochemistry. Academic or industrial position. R. Hunter, 1225 Greenway Drive, Las Vegas, Nevada 89108. X

## POSITIONS OPEN

### ALLIED HEALTH

Tenure-track positions available in **FOUR-YEAR INTEGRATED MEDICAL TECHNOLOGY B.S.** program offered in cooperation with the University of Texas Health Science Center at San Antonio. Must be ASCP registered. Opportunity to conduct research and participate in interdisciplinary course offerings in the division. Have M.S. programs and Ph.D. programs under consideration. Send curriculum vitae to: **Dr. H. Cronenberger, Division of Allied Health and Life Sciences, The University of Texas at San Antonio, San Antonio, Texas 78285. An Equal Opportunity/Affirmative Action Employer.**

**ANATOMY FACULTY POSITIONS.** Applications are invited from anatomists experienced in teaching gross anatomy and embryology who have active research programs or interests. Send curriculum vitae, lists of publications, and supporting references to: **Personnel/Manpower Division, School of Medicine, Uniformed Services University of the Health Sciences (USUHS), 4301 Jones Bridge Road, Bethesda, Maryland 20814. USUHS is an Equal Opportunity Employer.**

### DEPARTMENT OF ANATOMY UNIVERSITY OF CALIFORNIA, IRVINE COLLEGE OF MEDICINE

The Department of Anatomy has openings for three regular faculty appointments (one professor and two assistant professors) for fall 1978. Accomplishments in the neuroscience field and experience in the teaching of embryology, histology, or gross anatomy will be strongly preferred. A minimum of 2 years of postdoctoral research experience is required. *Applications from all qualified candidates are welcome; women and minorities are encouraged to apply.* Applications must include a curriculum vitae, professional references, and copies of major publications. Send applications to:

**John E. Swett, Ph.D.  
Department of Anatomy  
California College of Medicine  
University of California  
Irvine, California 92717**

### ANATOMISTS (2)

Assistant professor and instructor level, Ph.D. or M.D., trained in basic science medical department. Preference to postdoctoral research experience and evidence of ability to develop an active research program. Teaching responsibilities will be either in human gross anatomy or histology. Position available July or August 1978. Current curriculum vitae and names of references should be submitted to: **Dr. A. V. Boccabella, Chairperson, Department of Anatomy, College of Medicine and Dentistry-New Jersey Medical School (CMDNJ-NJMS), 100 Bergen Street, Newark, New Jersey 07103.** Applications should be received by 1 March 1978. *Applications from women and minority candidates are encouraged. CMDNJ-NJMS is an Equal Opportunity/Affirmative Action Employer.*

**ASSISTANT/ASSOCIATE PROFESSOR.** Ph.D. in biochemistry with bachelor's degree in chemistry to continue development of recently established biochemistry program. Responsibilities include teaching other chemistry courses, in addition to biochemistry, and directing undergraduate research. Position begins fall 1978. Submit résumé and names of three references by 31 January to: **Dr. Davison G. Grove, Coordinator, Division of Natural Sciences and Mathematics, Wilson College, Chambersburg, Pa. 17201.**

## POSITIONS OPEN

### ASSISTANT COORDINATOR FOR PESTICIDE IMPACT ASSESSMENT (Western Region)

Experienced person with appropriate advanced degree to assist in coordinating information about pesticides used in California and designated by EPA as the subject of a "Rebuttal Presumption Against Registration" action. Work closely with coordinator to develop pesticide assessment teams and establish communication with clientele. One-year assignment with possible extension. Refer to #7738. Apply to: **Personnel Administrator, Cooperative Extension, University of California, Berkeley, Calif. 94720. An Equal Opportunity/Affirmative Action Employer, M/F**

### ASSISTANT PROFESSOR

Position available 1 September 1978 in the Department of Biological Chemistry, Medical School, the University of Michigan, Ann Arbor. Strong chemical background and at least 2 years of postdoctoral training with interest and experience in nucleic acid biochemistry, preferably in regulation of gene expression or molecular aspects of immunology. Should also have interest and experience in teaching. Code 100FO. Please send résumé to: **Box 11, SCIENCE**

*A nondiscriminatory, Affirmative Action Employer.*

### ASSISTANT PROFESSOR POSITION Department of Geological Sciences The University of Texas at Austin

An assistant professor position is available in the field of geophysics, effective 1 September 1978. Preference will be given to candidates whose research interests are related to the inference of earth structure from seismic wave observations, as applied either to petroleum exploration or crustal and upper mantle problems. However, those with experience involving nonseismic geophysical studies will also be considered.

The successful applicant for this position will be expected to participate in undergraduate teaching programs in addition to graduate courses in the individual's specialty. Applicants should demonstrate their ability to develop their own research programs and to publish the results of that research in recognized journals in the field of geophysics.

Interested persons should submit their résumé, names of three references, and a description of research interests to:

**Dr. Robert E. Boyer, Chairman  
Department of Geological Sciences  
The University of Texas at Austin  
P.O. Box 7909  
Austin, Texas 78712**

*Equal Opportunity/Affirmative Action Employer, M/F*

Sargent College of Allied Health Professions, Boston University, is seeking an individual with an earned doctorate to teach advanced research design and statistics courses and to assist faculty and graduate students in basic and clinical research design and in the statistical treatment of experimental results. Expertise in computer programming is essential. Rank: **ASSISTANT OR ASSOCIATE PROFESSOR.** Sargent College has well-established undergraduate and graduate degree programs in occupational therapy, physical therapy, rehabilitation counseling, speech pathology and audiology, applied physiology, and cardio-pulmonary technology. Résumé and three letters of recommendation should be sent to: **Walter H. Inge, Ph.D., Chairperson, Search Committee, Department of Health Sciences, Sargent College of Allied Health Professions, 36 Cummings Street, Boston, Mass. 02215.** Deadline for receipt of all materials: 1 March 1978. *Boston University is an Equal Opportunity/Affirmative Action Employer.*

### ASSISTANT PROFESSOR OF BIOLOGY

The University of Redlands is seeking a **biologist** to teach comparative physiology, vertebrate anatomy, embryology, and introductory courses beginning 1 September 1978. Ph.D. and some experience required. Appointment will be at the assistant professor level. For additional information and application material, write to:

**Dr. James B. Ifft, Dean  
Division of Natural Sciences  
University of Redlands  
Redlands, Calif. 92373**

Apply by 13 February 1978. *An Equal Opportunity/Affirmative Action Employer.*

## POSITIONS OPEN

### ASSISTANT PROFESSOR

Stockton State College is seeking an individual with a rare balance of human insight, professional competence, and a commitment to undergraduate teaching excellence for a position teaching biochemistry and organic chemistry in an interdisciplinary science program. Starting salary: \$13,814 to \$15,887. Doctorate required. Write for detailed description. *Applications from minority group members and women are encouraged.* Send applications by 15 February to: **Philip Nanzetta, Dean, Faculty of Natural Sciences and Mathematics, Box 7440, Stockton State College, Pomona, N.J. 08240.** *An Affirmative Action/Equal Opportunity Employer*

### ASSISTANT PROFESSOR, ANATOMY

The Department of Anatomy, Northwestern University Medical School, is seeking candidates to teach microscopic or gross anatomy, beginning September 1978. Postdoctoral experience is required; research interest should be in cell biology. The Department of Anatomy is multidisciplinary, with strong representation in cell biology and neuroscience. Applicants should send curriculum vitae and the names of three references to: **Dr. R. M. Clavier, Faculty Search Committee, Department of Anatomy, Northwestern University Medical School, 303 East Chicago Avenue, Chicago, Ill. 60611.** *An Affirmative Action/Equal Opportunity Employer.*

### HARVARD UNIVERSITY

**ASSISTANT PROFESSOR OF APPLIED MATHEMATICS**, Departments of Physiology and Biostatistics. Responsibilities include teaching of statistics and the conduct of collaborative research in pulmonary physiology. Competence in mathematical modeling and in experimental design and analysis is essential. Familiarity with pulmonary biology and computing is desirable. Address inquiries to: **Dr. Joseph Brain, Department of Physiology, Harvard School of Public Health, 665 Huntington Avenue, Boston, Mass. 02115.** *Harvard University is an Equal Opportunity/Affirmative Action Employer.*

### UNIVERSITY OF WISCONSIN ASSISTANT PROFESSOR IN BIOCHEMISTRY

The Department of Biochemistry invites applications for the above position. Preference will be given to candidates in the areas of immunobiochemistry, plant biochemistry, and x-ray crystallography. *Female and minority candidates are especially encouraged to apply.* Send detailed curriculum vitae, names of three references, and a short statement of research interests to: **H. F. DeLuca, Department of Biochemistry, University of Wisconsin, Madison, Wis. 53706.** *The University of Wisconsin is an Equal Opportunity/Affirmative Action Employer.*

### ASSISTANT PROFESSORSHIPS— MICROBIOLOGY

The Department of Microbiology, Schools of Medicine and Dentistry, with the Diabetes Research and Training Center and the Institute of Dental Research, respectively, invite applications from individuals with research interests in:

- 1) Regulation of Viral Protein Synthesis
- 2) Oral Microbiology—Immunology.

Candidates should have a Ph.D. or equivalent terminal degree, expect to develop a strong research program and participate in the education of graduate and professional students. A curriculum vitae, relevant reprints, description of research interests, and three letters of reference should be forwarded to: **Dr. Kenneth J. Roozen, Vice-Chairman, Department of Microbiology, The University of Alabama in Birmingham, Birmingham, Alabama 35294,** not later than 1 March 1978. *An Affirmative Action/Equal Opportunity Employer.*

**ASSISTANT PROFESSOR OF WILDLIFE RESOURCES.** The University of Idaho invites applications for a full-time position at the assistant professor level. Primary responsibility will be to develop a continuing education program of workshops, public presentations, and extension activities. Additional responsibilities include teaching one or two courses and conducting wildlife research. An M.S. in wildlife biology and 3 years of experience in wildlife education/extension activities are required. A Ph.D. with at least 1 year of such experience is preferred. Send a résumé, three letters of reference, and official transcripts by 15 February 1978 to: **E. O. Garton, Wildlife Search Committee, Wildlife Resources, University of Idaho, Moscow, Idaho 83843.** *Affirmative Action/Equal Opportunity Employer.*

## POSITIONS OPEN

### ASSISTANT PROFESSOR DEPARTMENT OF BIOCHEMISTRY

The College of Medicine and Dentistry of New Jersey—New Jersey Medical School has recently occupied permanent quarters in the new Medical Sciences Building in Newark.

As part of the expansion program of the school, the Department of Biochemistry has immediate openings at the assistant professor level for individuals with training and research interests in any or all of these areas:

- 1) Physical biochemistry,
- 2) Immunobiochemistry, and
- 3) Developmental biochemistry.

The department is a basic science department with responsibility for research, and teaching of medical, dental, and graduate students. Applications from candidates should include a general statement regarding research goals and should be received no later than 1 March 1978. Curriculum vitae, letters from three references supporting research and teaching ability, reprints, and other information should be sent to:

**Search Committee  
Department of Biochemistry  
College of Medicine and Dentistry of New Jersey  
New Jersey Medical School  
100 Bergen Street  
Newark, N.J. 07103**

*An Equal Opportunity/Affirmative Action Employer*

Position available: **assistant professor of biology.** Full-time; tenure-track; \$14,256 to \$17,136; September 1978. **HUMAN OR HUMAN/MAMMALIAN CYTOGENETICIST:** duties include teaching human and general genetics, supervision of master's and Ph.D. students, research, and interaction with local genetic counseling units. Send curriculum vitae, reprints, transcripts, statement of research interests, and three letters of reference to: **Dr. F. Ratty, Chairman, Search Committee, Biology Department, San Diego State University, San Diego, Calif. 92182.** Deadline for accepting applications is 1 March 1978. *An Equal Opportunity/Affirmative Action/Title IX Employer.*

**ASSISTANT PROFESSOR, PHARMACOLOGY—**Candidates should be prepared to develop a quality independent research program in neuropharmacology. Strong academic background, expected to teach basic medical pharmacology to medical students. Appointment available 1 July 1978. Send curriculum vitae, statement of teaching, salary requirements, representative reprints, and three references to:

**Chairman  
Department of Pharmacology  
University of Tennessee  
874 Union Avenue, 301C  
Memphis, Tenn. 38163**

University of Montana, **ASSISTANT PROFESSOR, physical chemistry or chemical physics, experimental spectroscopy.** Teaching and research, tenure-track. Postdoctoral research experience or equivalent required. Completed application forms and three letters of recommendation are due 13 March 1978. Send inquiries well in advance to: **G. Woodbury, Chemistry Department, University of Montana, Missoula, Montana 59812.** *The University of Montana is an Equal Opportunity Employer. Women and minorities are encouraged to apply.*

### BIOCHEMISTS

Salary: \$12,000 to \$16,000. Ph.D. with experience in one or more of the following areas: tissue culture, lipid or lipoprotein biochemistry, prostaglandins, and mass spectrometry of biological compounds. Also research assistant with extensive experience in tissue culture to direct tissue culture laboratory. Send curriculum vitae to: **M. Schwartz, Committee on Postgraduate Appointments, Biochemistry Department, George Washington Medical School, 2300 Eye Street, NW, Washington, D.C. 20037.**

**Tenure-track faculty position in BIOCHEMISTRY** for September 1978. Postdoctoral experience and a strong commitment to research and teaching required. Candidates with a strong biochemical or chemical background preferred. Rank open. Send curriculum vitae, a brief summary of research and teaching interests, and names of at least three references to: **Biochemistry Committee, Department of Chemistry, California State University, Fullerton, Calif. 92634.** *An Equal Opportunity/Affirmative Action Employer.*

## POSITIONS OPEN

### ASSISTANT PROFESSOR OF SOILS

The Department of Agronomy and Soils seeks a Ph.D. to teach upper division courses and conduct research in soil genesis, morphology, and classification. Salary is open. Applicants should submit résumé, statement of research interests, academic transcripts, and names of three references to:

**Dr. J. C. Engibous  
Department of Agronomy and Soils  
Washington State University  
Pullman, Wash. 99164**

*Washington State University is an Equal Opportunity/Affirmative Action Employer.*

### POSITION AVAILABLE—1 JANUARY 1978

**ASSISTANT RESEARCH PEDIATRICIAN BIOCHEMIST.** Particular expertise in glycoprotein, mucopolysaccharide biochemistry is desirable. Will work in close association with physiologists, investigating surface coat structure and function in myocardial cells. Isolation, purification, and characterization of surface coat material will be the major focus of the work. Also expertise in glucose and fatty acid metabolism is desirable. The work will focus on intermediates of glycolysis and oxidative phosphorylation. Other routine biochemical studies will be required at times. Salary dependent upon qualifications.

If you are interested in this position, please send your letter of application and résumé to:

**Dr. Jay M. Jarmakani  
Department of Pediatrics  
University of California  
Marion Davies Building B2-427  
UCLA Center for the Health Sciences  
Los Angeles, Calif. 90024**

*Affirmative Action/Equal Opportunity Employer. Minority and women candidates are encouraged to apply.*

### ASSISTANT RESEARCH SCIENTISTS

#### ENZYMOLOGIST

Postdoctoral fellow or 1 or 2 years of experience and interest in neurochemistry.

#### RESEARCH ASSOCIATE

Postdoctoral for neurobiology laboratory. Background in nerve or muscle cell biology preferred. Send curriculum vitae and names of referees to: **M. Kerans, Personnel Department, NEW YORK UNIVERSITY MEDICAL CENTER, 568 First Avenue, N.Y., N.Y. 10016.** *An Equal Opportunity/Affirmative Action Employer, M/F.*

**ASSOCIATE CLINICAL RESEARCH BIOCHEMIST.** Long-term position at University of California, Berkeley, starting 1 February 1978. Preference will be given to scientist with established expertise in steroid endocrinology and at least 5 years of experience using gas chromatographic-mass spectrometric methods in successful collaboration with clinical research projects in studies of human hypertension. Applicant should also have minimum of 5 years of experience in supervision of interdisciplinary research group and in preparation, negotiation, and management of grants and contracts. Send résumé and three letters of recommendation to: **Dr. A. L. Burlingame, Director of Biomedical Mass Spectrometry Resource, Space Sciences Laboratory, University of California, Berkeley, Calif. 94720.** *Equal Opportunity/Affirmative Action Employer.*

The College of Engineering of the University of Washington is seeking an **ASSOCIATE DIRECTOR** for the Aerospace and Energetics Research Program (AERP). This position requires 10 years or equivalent experience in university research, and graduate and undergraduate teaching at the university level. The research background should contain energy and aerospace related work of both a basic and applied nature with an emphasis on theoretical efforts. Supervisory experience in academic administration, and experience as principal investigator of multidisciplinary projects, is preferred. The associate director will be involved in the management of the existing programs of AERP as well as developing new expansion programs in energy and aerospace related sciences. For further details, contact: **Professor Hertzberg, Aerospace and Energetics Research Program, University of Washington FL-10, Seattle, Washington 98195.** Salary commensurate with experience and background.

*An Equal Opportunity Employer*

## POSITIONS OPEN

### ASSOCIATE VICE PRESIDENT FOR RESEARCH AND DEAN OF THE GRADUATE COLLEGE

Nominations and applications are invited for the position of associate vice president for research and dean of the Graduate College, a newly created post at the University of Vermont.

The associate vice president for research and dean of the Graduate College will be the chief executive officer of the Graduate College and participate, as a member of the staff of the vice president for academic affairs, in the formation and implementation of policies involving the future development of the university with particular emphasis on research aspects. Strong preference will be given to a person with the following qualities: a broad interest in scholarship and research, and the ability to be an effective advocate for their role in the university; a clear understanding of the issues involved in promoting and maintaining scholarly excellence; proven ability as a scholar and as a teacher at the graduate level; evidence of ability in administration and in dealing with the agencies which support research both within and outside the university; and earned doctorate and eligibility for a senior academic appointment.

Salary open. Position available 1 July 1978, or earlier if desired. Nominations and applications (including résumé) should be submitted by 15 February 1978 to:

**Robert G. Arns**  
Vice President for Academic Affairs  
Waterman Building  
University of Vermont  
Burlington, Vermont 05401  
*An Affirmative Action Employer*

### BACTERIOLOGIST

Bacterial physiologist, assistant professor, fall 1978. Postdoctoral experience desirable. Potential for developing both a vigorous research program and excellence in teaching required. Teaching responsibilities include introductory microbiology and a senior/graduate course. Send curriculum vitae, future research plans, and addresses and telephone numbers of three references to: **L. Harold Stevenson, Chairman, Search Committee, Department of Biology, University of South Carolina, Columbia, S.C. 29208.** *Equal Opportunity/Affirmative Action Employer.*

**BIOCHEMISTRY/MOLECULAR BIOLOGY.** A faculty position is available for the academic year 1978-1979 to replace a staff member on leave. Competence in the areas of biochemistry and molecular biology is required. A second position in **GENETICS/MICROBIOLOGY** is expected to develop for 1978-1979. Rank and salary depend upon qualifications and experience. Applicants should submit a curriculum vitae by 20 February 1978 to: **Dr. Anna Ruth Brummett, Chairman, Department of Biology, Oberlin College, Oberlin, Ohio 44074.**

*Oberlin College is an Equal Opportunity/Affirmative Action/Title IX Employer.*

### UNIVERSITY OF CHICAGO DIVISION OF THE BIOLOGICAL SCIENCES

The Department of Pharmacological and Physiological Sciences is considering appointments in the areas of **physiology, pharmacology, neurobiology, and clinical pharmacology.** From the time of its original charter, the principle of the University of Chicago has been to appoint scholars without regard to race, color, religion, sex, or national origin. Please have three professional persons write us concerning you and send your résumé together with your most significant publications to:

**Alfred Heller, Professor and Chairman**  
Department of Pharmacological and Physiological Sciences  
University of Chicago  
947 East 58th Street  
Chicago, Illinois 60637

### BIOLOGIST—CLAREMONT COLLEGES

Assistant professor beginning 1 September 1978. Teaching duties include: human or mammalian physiology, with endocrinology, neurobiology, or animal behavior desirable, plus introductory level teaching. Research encouraged. Small liberal arts colleges. Application deadline: 20 February 1978. Send statement of interests, curriculum vitae, and three letters of recommendation to: **Dr. C. Robert Feldmeth, Joint Science Department, The Claremont Colleges, Claremont, California 91711.**

*An Equal Opportunity/Affirmative Action Employer*

**BIOMATHEMATICIAN, Ph.D.** in mathematics or statistics. A position is available for a biomathematician who will develop mathematical models to describe the actions of drugs in biological systems. Some experience desirable; must be able to interact with a number of groups working on different projects. Send résumé to: **Dr. Patrick J. Creaven, Department of Experimental Therapeutics, Roswell Park Memorial Institute, 666 Elm Street, Buffalo, New York 14263.** *An Equal Opportunity Employer.*

## POSITIONS OPEN

## POSITIONS OPEN

### DEPARTMENT OF BOTANY UNIVERSITY OF GEORGIA

The University of Georgia, Botany Department, invites applicants for two tenure-track faculty positions available 1 September 1978, in the areas of **plant physiology** and **plant ecology.**

Appointment levels will be commensurate with the qualifications of the applicants. Applicants will be expected to develop strong research programs and to teach in both undergraduate courses and in graduate courses in their areas of expertise.

Application deadline is 1 March 1978. Forward résumés, reprints of three representative publications, a brief statement of research interests, and have at least three letters of recommendation sent to: **Dr. James W. Porter, Chairman, Search Committee, Botany Department, University of Georgia, Athens, Georgia 30602.** *An Equal Opportunity/Affirmative Action Institution.*

### CHAIRPERSON DEPARTMENT OF BIOCHEMISTRY

The Albany Medical College of Union University seeks a highly qualified individual for the position of chairperson and professor of biochemistry. Ph.D. and/or M.D. required. A commitment to teaching and a record of accomplishment in research essential.

Applicants should send curriculum vitae, bibliography, and names of three references to:

**Dr. Lawrence A. Caliguiri, Chairman**  
Biochemistry Search Committee  
Albany Medical College of Union University  
Albany, New York 12208

*An Equal Opportunity/Affirmative Action Employer*

### CHAIRMAN DEPARTMENT OF INTERNAL MEDICINE EAST TENNESSEE STATE UNIVERSITY COLLEGE OF MEDICINE

Qualified candidates are being sought to direct this department at a developing new Veterans Administration and community hospital affiliated medical college. Chairperson will be responsible for recruitment of faculty, establishing a referral practice center for the geographic area, continuing the implementation of the newly approved residency program, developing and implementing an undergraduate medical student education program, implementing a medical service plan, and managing the overall teaching, research, and service functions of the department. Candidates should be Board-certified, have teaching and research experience, and some experience and/or interest in administration. Consideration of applications will begin on 1 February 1978, and continue until the position is filled. Apply to:

**Dr. Jack E. Mobley, Dean**  
College of Medicine  
East Tennessee State University  
P.O. Box 23,320A  
Johnson City, Tennessee 37601

*East Tennessee State University offers Equal Opportunity in its employment, admissions, and educational activities and is an Affirmative Action Employer.*

### CHAIRPERSON DEPARTMENT OF PHARMACOLOGY

St. Louis University School of Medicine is seeking an individual with demonstrated research capabilities in biochemistry or pharmacology to replace the current chairperson who is retiring. The individual should have a demonstrated competence in teaching of medical and graduate students. Administrative experience is highly desirable. Send curriculum vitae to: **Dr. J. Joseph Marr, M.D., Chairperson, Pharmacology Search Committee, c/o Personnel Services, St. Louis University Medical Center, 3556 Caroline Street, Saint Louis, Missouri 63104.**

*Equal Opportunity Employer, M/F/Handicapped*

### CURATOR—PALEONTOLOGY

Conduct paleontological research. Maintain and broaden present collection, primarily of marine invertebrate and fish fossils. Head the department. Qualifications require Ph.D., significant publications, experience in obtaining grants, demonstrated ability to work well with colleagues and superiors, and at least 4 years of related work experience. Submit credentials to: **Chief Scientist, Natural History Museum, P.O. Box 1390, San Diego, Calif. 92112.** *An Equal Opportunity Employer.*

**BIOCHEMISTRY FACULTY POSITION.** The Biochemistry Department, University of California, Riverside, invites applications for an assistant professor position (tenure-track) effective summer 1978. Although we have a slight preference for a person with a strong background in physical biochemistry who will initiate research into the structure and function of biologically interesting macromolecules and/or biological membranes, applications from outstanding individuals in other areas of biochemistry will receive serious consideration. The successful candidate will participate in the department's instructional program at the undergraduate and graduate level. Candidates should include in their application a statement of their current and future research objectives and a statement of their teaching experience and areas of competence. Send curriculum vitae, complete bibliography, duplicate copies of three representative publications, and the names and addresses of three references to: **Biochemistry Search Committee, Department of Biochemistry, University of California, Riverside, Calif. 92521.** Applications will be accepted until 10 March 1978 or until a suitable candidate is located. *The University of California is an Equal Opportunity/Affirmative Action Employer. Minority and women candidates are encouraged to apply.*

**FACULTY POSITION—PLANT BIOCHEMIST.** Applications are requested for an appointment as **assistant professor of biochemistry** in the tenure-track at the University of California, Riverside, effective summer 1978. Applicants should have demonstrated ability in research in plant biochemistry and the capability to develop a vigorous research program in this area. This individual will be expected to teach a course in plant biochemistry at the upper division/graduate level and participate in other teaching activities of the department. Candidates should send curriculum vitae, a statement of their current and future research interests, and ask three scientists familiar with their work to send us letters of recommendation. Applications will be accepted until 10 March 1978 or until a suitable candidate is located. Address correspondence to: **Search Committee, Plant Biochemist, Department of Biochemistry, University of California, Riverside, Calif. 92521.** *The University of California is an Equal Opportunity/Affirmative Action Employer. Minority and women candidates are encouraged to apply.*

### INVERTEBRATE ZOOLOGIST

Applications are invited for an assistant professor or well-established full professor with international recognition in invertebrate zoology, to begin September 1978. Teaching and research specialization in modern concepts of systematics and evolution with participation in teaching general biology and invertebrate zoology. Development of vigorous research program expected. Interested candidates should send curriculum vitae, a statement of teaching and research interests, selected reprints, and names of three references by 1 March 1978 to: **Dr. Anne McNabb, Department of Biology, Virginia Polytechnic Institute and State University, Blacksburg, Virginia 24061.**

*An Affirmative Action/Equal Opportunity Employer*



## POSITIONS OPEN

### BELOIT COLLEGE DEPARTMENT OF BIOLOGY (TWO) CHAIRPERSON AND ASSISTANT PROFESSOR

Beloit College seeks applicants with Ph.D. for two tenure-track positions for fall 1978: (i) **animal physiologist**, and (ii) **plant biologist**, each at the molecular level plus teaching competence in at least one of the following: microbiology, genetics, developmental biology, cell biology, and evolution. Teaching to include animal/plant physiology and beginning course emphasizing cellular and molecular biology. Active research involving undergraduates expected.

One position at assistant professor level; excellence in undergraduate teaching a major qualification. Rank open for chairperson; must have established record in teaching and research, with potential for administrative leadership.

Submit résumé and application by 15 February 1978 to: **Provost, Beloit College, Beloit, Wis. 53511.** An Equal Opportunity/Affirmative Action Employer.

### CHIEF RESEARCH AND DEVELOPMENT ILLINOIS DEPARTMENT OF MENTAL HEALTH AND DEVELOPMENTAL DISABILITIES

The Illinois Department of Mental Health and Developmental Disabilities invites applications and nominations for its major policy staff position for R & D. Duties include formulation of R & D policy; provides advice to the director on intramural research programs; administrative supervision of extramural research program; and liaison with state departments, federal agencies, universities, and the community. Candidates must hold a Ph.D. or M.D. degree and have extensive experience in mental health-related research and research administration. Salary \$26,000 to \$43,000, depending on qualifications. Deadline for applications is 15 February 1978. Submit curriculum vitae and three letters of recommendation to: **Dr. Gershon Berkson, Chairman, Search Committee, Research and Development, Department of Mental Health and Developmental Disabilities, 160 North LaSalle Street, Room 1500, Chicago, Illinois 60601.**

The Illinois Department of Mental Health and Developmental Disabilities is an Equal Opportunity/Affirmative Action Employer.

The Department of Psychiatry and Behavioral Sciences of the University of Louisville School of Medicine has an opening for a **CHILD PSYCHIATRIST** at the assistant professor or associate professor level in the Child Psychiatric Services. This position is for the director of the Day Treatment Program, a therapeutic program for stimulating growth and development in children ages 5 to 15. Duties will include the development of this new program, teaching medical and other students, supervising residents and child fellows, and serving as the team leader of a multidisciplinary clinical team of professional staff. Candidate will have opportunity to be involved in part-time private practice. The salary range is \$32,000 to \$38,000, plus fringe benefits. Please submit curriculum vitae to: **Mohammad Shafii, M.D., Professor of Psychiatry and Director of the Child Psychiatric Services, University of Louisville School of Medicine, 200 East Chestnut Street, Louisville, Kentucky 40202.** An Equal Opportunity/Affirmative Action Employer.

Applications and nominations are invited for position of **DEAN OF GRADUATE STUDIES** and **ASSISTANT VICE PRESIDENT FOR ACADEMIC AFFAIRS** at Montana State University (MSU). Applicants must have terminal degree, record of scholarship and creative activity that will establish credibility nationally and locally, experience with M.S. and Ph.D. programs in an area of prominence at MSU, and demonstrated administrative ability. *MSU is an Equal Opportunity/Affirmative Action Employer.* Send résumé and letter of interest to: **K. Tiaht, Chairman, Dean of Graduate Studies Search Committee, Mathematics Department, Montana State University, Bozeman, Montana 59717.** Deadline is 20 February 1978 or until suitable candidate is found.

### UNIVERSITY OF MICHIGAN MEDICAL SCHOOL DIRECTOR-INTERNAL MEDICINE

Position available for director, Department of Internal Medicine. M.D., chief of Division of Hematology and director of Simpson Memorial Institute. Trained in internal medicine and hematology. Certified subspecialty of hematology and/or oncology preferred. Substantial research and administrative experience and highly qualified teacher. Send résumé to: **Box 13, SCIENCE.** An Affirmative Action, nondiscriminatory Employer.

20 JANUARY 1978

## POSITIONS OPEN

### CURATOR OF BOTANY/HERBARIUM

Assistant or associate professor, tenure-track. Ph.D. with strength in taxonomic botany, palynology, and Plains flora required. Send résumé with names of three references to: **James H. Gunnerson, Director, University of Nebraska State Museum, Lincoln, Nebraska 68588** by 1 March 1978.

An Equal Opportunity/Affirmative Action Employer

### DERMATOPATHOLOGIST

The Department of Pathology, University of Wisconsin Medical School, has an opening for an assistant or associate professor with expertise in dermatologic pathology and an academic orientation. A joint appointment with the dermatology section may be arranged. Pathology Board-certification desirable. Submit résumés to: **Chairman, Faculty Search Committee, Department of Pathology, University of Wisconsin Medical School, Madison, Wis. 53706.** An Equal Opportunity Employer, M/F.

### THE UNIVERSITY OF MICHIGAN MEDICAL CENTER DIRECTOR OF RESEARCH SECTION OF PLASTIC SURGERY

Faculty position available July 1978. Ph.D. or M.D. with interest in both basic science and clinically related research pertinent to plastic and reconstructive surgery is needed to head the research division of the Section of Plastic Surgery. The applicant should have the ability to initiate and carry on an independent research program and to participate in the research endeavors of the clinical staff. Experience in teaching medical students and residents required. Salary and academic position will be competitive with similar positions and will be based upon applicant's qualifications. Send complete curriculum vitae, a statement of current research interests and goals, and three letters of recommendation to:

**William C. Grabb, M.D.  
Professor of Surgery & Heat  
Section of Plastic Surgery  
University of Michigan Medical Center  
Ann Arbor, Michigan 48109**

An Affirmative Action, nondiscriminatory Employer.

### DIRECTOR-INSTITUTE ON AGING UNIVERSITY OF WASHINGTON

The University of Washington's newly established Institute on Aging seeks candidates for the position of director, whose responsibilities will be to provide leadership in the development of interdisciplinary programs in education, new research, and model programs which address the needs of the aged. Candidates should possess a doctorate and academic experiences in a pertinent discipline, professional experience, and scientific recognition in the field of aging. Closing date: 18 March 1978. Salary: open. Applications and nominations addressed to:

**J. Scott Briar, Dean of Social Work  
Chair, Search Committee  
Institute on Aging, SC-61  
University of Washington  
Seattle, Wash. 98195**

University of Washington is an Equal Opportunity Employer.

### LABORATORY DIRECTOR The University of Georgia Marine Institute Sapelo Island

The Marine Sciences Program of the University of Georgia is seeking applicants for the position of director, Marine Institute, Sapelo Island. Candidates should have the Ph.D., preferably in biological sciences. Research emphasis at Sapelo is on marsh ecology. A portion of Sapelo Island has been designated as a National Estuarine Sanctuary, which will require participation in monitoring and public education programs. The laboratory has resident staff including five Ph.D. biologists and, in addition, serves as the coastal research facility for on-campus faculty.

Application deadline: 15 February 1978. Apply to:

**Director, Marine Sciences Program  
University of Georgia  
Ecology Building  
Athens, Georgia 30602**

Affirmative Action/Equal Opportunity Institution

## POSITIONS OPEN

The University of Oregon is seeking a **DIRECTOR** for a proposed Interdisciplinary Research Program in the Neurosciences, with members from the biology, psychology, and chemistry departments. The appointment will be at the level of professor of biology. Applicants should have proven ability to conduct a sustained program of original research, as well as an interest in training students. The successful candidate will be expected to foster interactions among research groups whose interests range from the study of behavior to the analysis of structure and function of the nervous system at all levels of organization. The director will play a major role in recruiting new staff and in formulating future goals for the neurosciences at the University of Oregon. The director will be responsible for initiating and coordinating training programs in the neurosciences.

We will also consider proposals from two persons to share the academic appointment with one designated as director. The deadline for applications is 15 February 1978. *The University of Oregon is an Equal Opportunity/Affirmative Action/Title IX Institution.*

Qualified persons should submit a curriculum vitae, a statement of research interests, copies of relevant publications, and the names and addresses of three persons willing to serve as referees to: **Dr. Russell D. Fernald, Chairman, Search Committee, Department of Biology, University of Oregon, Eugene, Oregon 97403.**

### UNIVERSITY OF MICHIGAN MEDICAL SCHOOL DIRECTOR-INTERNAL MEDICINE

Position available for director, Department of Internal Medicine. M.D., chief of Division of Nephrology and director of Simpson Memorial Institute. Trained in internal medicine and nephrology. Certified subspecialty of nephrology preferred. Substantial research and administrative experience and highly qualified teacher. Send résumé to: **Box 14, SCIENCE.** A nondiscriminatory, Affirmative Action Employer.

**DIRECTOR FOR INTERPROFESSIONAL EDUCATION.** The University of Louisville invites qualified applicants for the position of director for interprofessional education in the Office of the Vice President for Health Affairs and appropriate faculty appointment depending on the applicant's qualifications. The person selected will be responsible for design and implementation of extramural education in all units of the Health Sciences Center, field faculty development, development of educational support systems, student assessment, student evaluation, faculty evaluation, assisting in developing grant applications to the Council on Higher Education, and establishing test models for interprofessional education in extramural settings. Applicants for the position should possess an advanced degree in education, educational psychology, or a comparable degree. Submit nomination or résumé to: **William P. VonderHaar, M.D., Assistant Vice President for Health Affairs (Community and Regional Health Care Programs), University of Louisville, 500 South Preston Street, Louisville, Kentucky 40232.** An Equal Opportunity/Affirmative Action Employer.

**DIRECTOR FOR EXTRAMURAL EDUCATION PROGRAM DEVELOPMENT.** The University of Louisville invites qualified applicants for the position of director for extramural education program development and appropriate faculty appointment depending on the person applying. Person selected will be responsible for innovation of the area health education programs, assisting Health Sciences Center units in curriculum development, promoting area health education system concept, facilitating submission of grant requests to the state Council on Higher Education, preparing Health Sciences Center area health education system budget, improving ongoing projects, coordinating medical, dental, nursing, and allied health programs. The candidate must possess one of the following degrees: M.D., D.M.D., D.D.S., Ph.D. in nursing or allied health disciplines. Nominations or résumés should be directed to:

**William P. VonderHaar, M.D.  
Assistant Vice President for Health Affairs  
(Community and Regional Health Care Programs)  
University of Louisville  
Health Sciences Center  
500 South Preston Street  
Louisville, Kentucky 40232**

An Equal Opportunity/Affirmative Action Employer

## POSITIONS OPEN

### ECOLOGICAL SCIENCES UNIVERSITY PROFESSOR

The Department of Biological Sciences at Old Dominion University will have a position for a university professor, an outstanding and nationally recognized scientist, available beginning fall 1979. The successful candidate will have a reduced teaching load and be expected to develop a significant research program to advance the department's developing doctoral ecological sciences program. Candidates should be involved in a wide range of scholarly activities with extensive research experience and productivity. The university is in close proximity to important marine and estuarine habitats, the Dismal Swamp, and coastal plain communities. Many of the department's 32 faculty are in ecologically related areas. Salary is negotiable. Application closing date is 27 February 1978. Contact: **Dr. Harold G. Marshall, Chairman, Department of Biological Sciences, Old Dominion University, Norfolk, Va. 23508.** An Affirmative Action/Equal Opportunity Employer.

**EXPERIMENTAL PSYCHOLOGISTS.** The State University of New York (SUNY) at Albany invites applications for a position at the full professor level and for a position at the assistant professor level in experimental psychology. Specific area is open and could include animal behavior, developmental, psychobiology, human or animal learning, memory, cognitive, social, and so forth. Candidates for the senior position will be chosen on the basis of research accomplishments and scientific potential. Applicants for the assistant professor opening should have an already established record of research with evidence of long-term scientific promise. Send curriculum vitae, a statement of research interests, and a list of three references to: **Search Committee, Department of Psychology, SUNY at Albany, 1400 Washington Avenue, Albany, New York 12222.** SUNY at Albany is an Affirmative Action/Equal Opportunity Employer.

### DEPARTMENT OF NUTRITION AND FOOD SCIENCE MASSACHUSETTS INSTITUTE OF TECHNOLOGY FACULTY POSITION

The department, a large multidisciplinary teaching and research unit with activities in all principal areas of nutrition and food science, is seeking an applicant to fill the following faculty position:

An M.D., with research training and preferably with a Ph.D. degree and experience and a major interest in human and clinical nutrition. The appointee will be expected to teach graduate-level courses concerned with human and clinical nutrition, to develop a vigorous research program, and become actively involved in the research programs of the MIT Clinical Research Center.

The appointment will be at the assistant or associate professor rank, depending upon the qualification of the successful applicant.

Curriculum vitae, together with representative publications, and the names of five referees should be submitted before 1 March 1978 to: **Dr. V. R. Young, Chairman, Search Committee, Room 56-331, Massachusetts Institute of Technology, Cambridge, Mass. 02139.**

MIT is an Equal Opportunity Employer. Representatives of minority groups are urged to apply.

### FACULTY POSITION Beginning Autumn Term 1978 DEVELOPMENTAL BIOLOGIST

The Biology Department at Lake Forest College invites qualified applicants to apply for the following faculty position: expertise in developmental biology.

Candidates should hold the Ph.D. and be interested in teaching at the undergraduate level and in developing a research program in which undergraduate students can take part. In addition to a course in developmental biology, the successful candidate will be expected to teach in our general biology course and develop other courses appropriate to his or her background and the needs of the department. Candidates should submit a complete curriculum vitae and at least three letters of recommendation to:

**Dr. Charles D. Louch, Acting Chairman  
Biology Department  
Lake Forest College  
Lake Forest, Illinois 60045**

The deadline for applications is 1 March 1978.  
An Equal Opportunity Employer.

## POSITIONS OPEN

### FACULTY POSITION IN ANATOMY

Applications are invited for two positions in the Department of Anatomy. The appointments will be at the assistant and associate professor levels with primary teaching commitment being in the area of human gross anatomy. Demonstrated commitment and excellence in research and teaching are essential and one or more years of experience after the doctorate is required at the associate professor level. Send complete curriculum vitae including a statement of research interests and names of at least three references to:

**Dr. Herbert Schapiro  
Department of Anatomical Sciences  
Eastern Virginia Medical School  
P.O. Box 1980  
Norfolk, Virginia 23507**

Closing date for applications is 1 February 1978. Eastern Virginia Medical School is an Equal Opportunity Educator and Employer.

**FACULTY POSITION**—Experience in genetics, preferably animal virus genetics. Required to assist in teaching medical microbiology and molecular genetics to medical and graduate students and to maintain a vigorous research program. Rank and salary dependent on background, experience, and qualifications. Send curriculum vitae, bibliography, and three recommendations by 28 February 1978 to: **Dr. Fred Rapp, Department of Microbiology, M. S. Hershey Medical Center, The Pennsylvania State University, Hershey, Pennsylvania 17033.** An Equal Opportunity/Affirmative Action Employer.

### FACULTY POSITION IN PLANT PATHOLOGY

The Department of Botany and Plant Pathology at Oregon State University is presently accepting applications for a position in plant pathology which will be available beginning 1 April 1978. Responsibility will be for basic and applied research on diseases of vegetable crops, with major emphasis on potatoes. The appointment will be in the Agricultural Experiment Station on a 12-month basis and at the rank of assistant professor. A Ph.D. degree in plant pathology is required, and preference will be given applicants who have had postdoctorate research experience. Salary will be competitive and dependent upon experience. Closing date for applications will be 1 March 1978.

Oregon State University is an Affirmative Action/Equal Opportunity Employer and complies with Section 504 of the Rehabilitation Act of 1973, and invites all interested and qualified persons to apply. Application and inquiries should be addressed to: **Dr. Thomas C. Moore, Chairman, Department of Botany and Plant Pathology, Oregon State University, Corvallis, Oregon 97331.** Applications should include curriculum vitae, reprints of research papers, transcripts of academic records, three letters of recommendation, and any other information considered pertinent by the applicant.

### FACULTY POSITIONS—MICROBIOLOGY

Applications are invited for two tenure-track positions, starting 15 August 1978. One is at the assistant professor level in the area of microbial genetics, and the other is at the assistant or associate level in the area of pathogenic bacteriology. Appointees will be required to teach introductory microbiology and courses in their specialty areas, and to develop active research programs. The Ph.D. is required and postdoctoral experience is desirable. Submit curriculum vitae, description of professional goals, transcripts, and three letters of recommendation to: **Dr. M. J. B. Paynter, Head, Department of Microbiology, Clemson University, Clemson, S.C. 29631.** Deadline for applications is 15 March. An Affirmative Action/Equal Opportunity Employer.

### HEAD OF PSYCHOPHARMACOLOGY RESEARCH SECTION

Applications are invited for the position of head of the Psychopharmacology Research Section in a major teaching institute and hospital. The successful applicant must qualify for a senior academic appointment in the Departments of Pharmacology and Psychiatry of the University of Toronto. Candidates are expected to have expertise and competence in basic pharmacology relevant to psychiatry. The appointment is available immediately.

Please apply to: **Dr. Frederick H. Lowy, Director, Clarke Institute of Psychiatry, 250 College Street, Toronto, Ontario, Canada M5T 1R8.** including a curriculum vitae and the names of three referees.

## POSITIONS OPEN

**GENETICIST/ASSISTANT PROFESSOR.** Opening anticipated for fall 1978 for individual with teaching and research expertise in population or molecular genetics of eucaryotes. Ph.D. and demonstrated competence in research essential; postdoctoral experience desirable. Facilities include the Mid-American Drosophila Stock Center. Submit research plan, résumé, transcripts, reprints, and names of three referees by 15 February 1978 to: **Dr. Roger Thibault, Department of Biological Sciences, Bowling Green State University, Bowling Green, Ohio 43403.** An Equal Opportunity/Affirmative Action Employer. Applications from women and members of minority groups are encouraged.

### GENETICIST/MICROBIOLOGIST

Carleton College teaching position at the assistant professor level. Duties include genetics, microbiology, and taking part in the introductory course. We are especially interested in applicants who have worked with eukaryotic systems as well as prokaryotes.

Interested persons should send letters of application, curriculum vitae, and three letters of reference to: **Dr. Paul Jensen, Department of Biology, Carleton College, Northfield, Minn. 55057** by 15 February 1978.

An Equal Opportunity Employer. Minority and women candidates are urged to apply.

### MEMORIAL UNIVERSITY OF NEWFOUNDLAND DEPARTMENT OF GEOLOGY

The Department of Geology invites applications for three faculty positions in **sedimentology and marine geology** with special reference to the Labrador continental margin (subject to the availability of funds).

One appointment will be a regular faculty position at a salary and rank commensurate with qualifications and experience. The appointee will direct and participate in the activities of a research group working in the following specialties: Mesozoic and Cenozoic clastic sedimentology, clay mineralogy, sedimentary geochemistry, and micropaleontology. Applications from suitably qualified candidates with working experience in the petroleum industry will be especially welcome.

Two appointments will be at the rank of assistant professor (research) and will be for a 2-year term in the first instance. Applicants should have proven research ability in one (or more) of the specialist fields listed above.

Applications for all three positions, which must include a detailed curriculum vitae and the names and addresses of three referees, should be sent by 31 March 1978 to:

**Dr. David Skevington  
Head, Department of Geology  
Memorial University of Newfoundland  
St. John's, Newfoundland, Canada A1B 3X5**

### THE UNIVERSITY OF MICHIGAN MEDICAL SCHOOL DEPARTMENT OF PATHOLOGY

Position available for **INSTRUCTOR/ASSISTANT PROFESSOR** in the Department of Pathology, University of Michigan Medical School. Individual must have M.D. and Board-certification in clinical and anatomic pathology. Responsibilities include teaching and research. Candidate must have interest and some experience in clinical research. Respond to: **Box 12, SCIENCE.** Code 1700F0. A nondiscriminatory, Affirmative Action Employer.

### INVERTEBRATE ZOOLOGIST LECTURER, TEMPORARY

Academic-year faculty position available starting 1 September 1978 for a biologist working in invertebrate zoology, preferably with interests in marine biology. To teach course in invertebrate zoology with laboratory, advanced course in specialty, and participate in teaching of introductory biology. Candidate must have Ph.D. and should have teaching experience.

Please send curriculum vitae, reprints, and three letters of recommendation to:

**Professor Edward S. Hodgson  
Biology Department  
Tufts University  
Medford, Mass. 02155**

Application deadline: 1 March 1978.

Tufts University is an Equal Opportunity Employer: minorities, women, and the handicapped are encouraged to apply.

## POSITIONS OPEN

### ICHTHYOLOGIST

Faculty opening starting 1 September 1978 to teach ichthyology and participate in general teaching program. Successful candidate will be expected to conduct research in fish systematics and evolution, and assume responsibility for curation of extensive fish collection emphasizing Mid-Atlantic and Southern Appalachian species. Rank and salary open. Send curriculum vitae, names of three references, and research plans by 1 March 1978 to: **Dr. A. G. Heath, Chairman, Search Committee, Department of Biology, Virginia Polytechnic Institute and State University, Blacksburg, Virginia 24061.**

*An Affirmative Action/Equal Opportunity Employer*

**IMMUNOLOGY AND BIOCHEMISTRY:** a new post exists in a research group studying cartilage degradation and inflammation in rheumatoid arthritis (RA). Postdoctorate is required to work on cell-mediated immunity to autoantigens in RA. Biochemical and immunological experience necessary. Salary up to \$13,600 per annum. Please send curriculum vitae including names of three referees to: **Dr. A. R. Poole, Joint Diseases Laboratory, Shriners Hospital for Crippled Children, 1529 Cedar Avenue, Montreal, Quebec, Canada H3G 1A6.**

**JUNIOR FACULTY or POSTDOCTORAL POSITION** available 1 January 1978 at the University of Michigan, with collaborative research in Ann Arbor and with Dr. K. Yasunobu at the University of Hawaii, Honolulu, on sequencing cytochrome P-450. Previous experience in protein sequencing essential. Rank and salary dependent upon experience. Send credentials to: **Dr. M. J. Coon, Professor and Chairman, the University of Michigan, Department of Biological Chemistry, Ann Arbor, Mich. 48109.** *An Equal Opportunity/Affirmative Action Employer.*

### JUNIOR FACULTY POSITION IN INTEGRATED CIRCUITS

Applications are solicited for a junior faculty position in the Department of Electrical Engineering and Computer Science at Massachusetts Institute of Technology (MIT) in the general area of semiconductor devices and integrated circuits. Duties include teaching in electrical engineering and/or computer science, and research and thesis supervision in integrated-circuit technology, device design, and related areas.

Prior industrial experience in integrated circuits will be helpful. Applicants should have the interest and ability to work with groups at MIT that seek to apply semiconductor technology to a variety of fields, for example, computer technology, signal processing, biomedical engineering, and communications. Ability to work with industrial organizations is highly desirable.

*Applications from women and minority candidates are encouraged. MIT is an Equal Opportunity Employer.* Résumés should be sent to: **Professor Paul Penfield, Jr., Associate Head of the Department, Department of Electrical Engineering and Computer Science, Room 38-401, Massachusetts Institute of Technology, Cambridge, Mass. 02139.**

**MARINE SCIENTIST C** and assistant professor of marine science. Requires a Ph.D., plus research experience in marine/estuarine fisheries preferred. Primary interests: trophic dynamics and ichthyoplankton. Position will involve contract research and teaching and advising graduate students who have M.S./Ph.D. degrees. Existing position will remain open until acceptable candidate is selected. Send résumés and applications, references and publications, or letters to:

**Virginia Institute of Marine Science  
Personnel Office  
Gloucester Point, Virginia 23062**

### MICROBIOLOGIST

Ph.D. with experience in mutagenicity testing, including the Ames test, will have responsibility for the direction of the microbiology department as well as establishing a solid client base. Excellent salary and benefits within a rapidly expanding contract bio-research laboratory in rural Ohio makes this position a good opportunity. Please send résumé and salary requirements in confidence to: **Wayne Statt, Springborn Institute for Bio-research, Inc., Spencerville, Ohio 45887.**

*Equal Opportunity Employer, M/F*

## POSITIONS OPEN

### LECTURER THE ENVIRONMENTAL PROGRAM

To participate in the teaching program in environmental studies, including responsibility for a large-enrollment introductory course, seminars for environmental studies students, and special topics courses appropriate to candidate's training and interests. Advise undergraduate students in environmental studies, prospective students; and advising of independent student research and internships. Position available 15 August 1978. Send résumé and names and addresses of at least three references before 1 March 1978 to:

**Dr. Mark B. Lapping  
The Environmental Program  
University of Vermont  
Burlington, Vermont 05401**

*An Affirmative Action Employer*

### LIMNOLOGIST

The Division of Biological Sciences of the University of Michigan is seeking a limnologist to be hired at the assistant professor level. Consideration will be given persons from any branch of limnology. Applications from those interested in the ecology of aquatic microorganisms will be especially welcome. Responsibilities will include the development of a strong research program in limnology and teaching in one or more of the following areas: limnology, basic ecology, or microbiology. Applicants should send curriculum vitae, and three letters of recommendation to: **P. Kilham, Chairman, Limnology Search Committee, Division of Biological Sciences, University of Michigan, Ann Arbor, Mich. 48109.** Closing date for applications: 1 March 1978.

*The University of Michigan is a nondiscriminatory, Affirmative Action Employer.*

### DEPARTMENT OF RADIOLOGICAL SCIENCES UNIVERSITY OF CALIFORNIA, IRVINE

The Department of Radiological Sciences invites applications for the position of **MEDICAL PHYSICIST** in the Radiation Therapy Division. This appointment will be at the assistant or associate professor level. Applicants must have a Ph.D. degree, extensive experience in radiation therapy physics including all aspects of treatment planning, equipment monitoring and record-keeping, and the teaching of residents and technologists.

The successful candidate will work closely with clinicians in radiation oncology, will have a major commitment to the teaching program, and will be expected to develop an independent research program and to supervise one or more graduate students in the Radiological Sciences Graduate Program. Remodeling of the radiation therapy facilities is planned and the candidate will have a significant voice in developing these new facilities. *Applications from all qualified candidates are welcome; minorities and women are encouraged to apply.* If you are interested in this position, please write to the address below enclosing a curriculum vitae and autobiographical letter.

Closing date: 15 February 1978.

**Eric N. C. Milne, M.B., Ch.B., F.F.R.  
Professor and Chairman  
Department of Radiological Sciences  
University of California, Irvine  
College of Medicine  
Irvine, California 92717**

**NUTRITIONIST.** To do research and teaching in an established program. Graduate students have interests in all areas of poultry nutrition and related management. Opportunity to cooperate with allied departments. Teaching involves both undergraduate and graduate programs. Assistant or associate professor position. Send résumé to: **M. L. Sunde, Poultry Science Department, University of Wisconsin, Madison, Wis. 53706.** *Equal Opportunity Employer.*

**ORAL PHYSIOLOGIST-PHARMACOLOGIST** at the level of assistant professor in multidisciplinary department. Available 1 July 1978. Requirements include teaching physiology and pharmacology and developing and pursuing active research program. Ph.D. required and interest in one or more of the following areas preferred: oral physiology, neurophysiology, neuropharmacology, and dental therapeutics. Send curriculum vitae and names of three references to: **Dr. W. Sprague, Chairman, Department of Oral Biology, University of Nebraska College of Dentistry, 40th and Holdrege, Lincoln, Nebraska 68583,** by 1 March 1978.

*Equal Opportunity/Affirmative Action Employer*

## POSITIONS OPEN

The Deep Sea Drilling Project, Scripps Institution of Oceanography, University of California, San Diego, is currently seeking to fill positions for **MARINE SEDIMENTOLOGISTS or GEOPHYSICISTS**, Ph.D. level. Sedimentologists should have strong background in mineralogy and sedimentary petrology. Geophysicists should have working knowledge of marine multichannel seismic, magnetics, gravity, and heat flow systems. These positions exist as project staff scientists who will engage in project-related and independent scientific research. Appointment anticipated in the assistant through associated professional research series; salary commensurate with experience. Please send completed résumé and names of at least three referees to: **Dr. David G. Moore, Deep Sea Drilling Project, A-031, La Jolla, Calif. 92093.** *The University of California is an Equal Opportunity/Affirmative Action Employer.*

The Department of Biological Sciences is seeking applications for several positions open in **MICROBIOLOGY** and in **ANATOMY/PHYSIOLOGY** for appointment in August 1978. Applicants may expect primary teaching assignment in courses associated with allied health programs. Research activity is encouraged. Although these tenure-track appointments are anticipated at assistant professor level, senior faculty interested in administration with appointment as department chairman are urged to apply. Rank and salary are open.

Applications from candidates should be received no later than 3 March 1978. Curriculum vitae, three or more references, and preliminary supporting information such as reprints should be forwarded to: **Dr. W. Davies, Chairman, Department of Biological Sciences, Indiana University-Purdue University at Fort Wayne, 2102 Coliseum Boulevard East, Fort Wayne, Indiana 46805.** *An Equal Opportunity/Affirmative Action Employer.*

## MICRO-BIOLOGIST

We are a large medical center seeking a microbiologist (Ph.D. or M.D.) to reorganize and supervise our clinical laboratory. Must be able to obtain own research support from outside sources. Salary depending upon background and experience. We offer a competitive salary and benefits package.

**Submit curriculum vitae to:**  
**Janis V. Klavins, M.D., Ph.D.**  
**Chairman of Pathology**  
**Catholic Medical Center**  
**88-25 153rd Street, Jamaica,**  
**N.Y. 11432**

*Equal Opportunity Employer, M/F/H*

### MOLECULAR AND DEVELOPMENTAL BIOLOGY

The Biology Department of Wayne State University invites applications for a faculty position in its division of molecular and developmental biology. The successful candidate will be expected to establish an active research program as well as to participate in the teaching program of the department. Applications should include a curriculum vitae, a description of research interests, and letters from three referees. Submit to: **Dr. A. Siegel, Biology Department, Wayne State University, Detroit, Mich. 48202.**

*Wayne State University is an Equal Opportunity/Affirmative Action Employer.*

**MOLECULAR GENETICIST.** Assistant professor, non-renewable 3-year appointment for fall 1978, to teach an advanced course in genetics or eucaryotic molecular biology. Research interest in molecular genetics of a lower eucaryote or in eucaryotic DNA replication preferred. Salary (academic year) competitive. Send résumé and three letters of recommendation to: **Gary N. Gussin, Department of Zoology, University of Iowa, Iowa City, Iowa 52242.** *The University of Iowa is an Equal Opportunity/Affirmative Action Employer.*

## POSITIONS OPEN

### NEUROCYTOLOGIST

The Department of Anatomy at the University of Minnesota is searching for a neuroscientist with interests in neurocytology. The successful candidate should have expertise in modern analytical methods, including electron microscopy, freeze fracture and tract-tracing methods, as well as in more classical techniques. The candidate should be pursuing a vigorous research program. Area of research interest is not critical, although persons interested in neuroendocrinology would complement ongoing programs in the department. Teaching will be to medical, dental, and graduate students. Salary and rank negotiable, and dependent upon qualifications. Interested persons should send their curriculum vitae, and a list of three references to: **Neuroscientist Search Committee, Department of Anatomy, 262 Jackson Hall, 321 Church Street, SE, University of Minnesota, Minneapolis, Minnesota 55455.**

*An Equal Opportunity Educator and Employer*

### NEURO/PSYCHOBIOLOGIST

The Department of Psychology, University of Virginia, invites applications for an assistant professor position to begin fall 1978, from individuals with strong evidence of research productivity in psychobiology and/or neuroscience. Applicants should send curriculum vitae, including a brief description of research experience and future objectives, as well as the names of at least three references, to:

**Dr. Paul E. Gold or Phillip J. Best**  
Psychobiology Research Group Search Committee  
Department of Psychology, Gilmer Hall  
University of Virginia  
Charlottesville, Va. 22901

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

### UNIVERSITY OF SOUTHERN CALIFORNIA (USC) ORE PETROLOGIST

The Department of Geological Sciences invites applications for a possible opening in ore petrology beginning September 1978, at the assistant professor level. Applicant must hold Ph.D. and be field oriented with expertise in metamorphic or igneous petrology and high-temperature geochemistry. Additional background in one or more of the following areas is desirable, but not required: structural geology, geothermal and other energy resources, applied geophysics, and environmental or engineering geology. Appointee will be expected to develop a teaching and research program in economic geology and develop cooperative relationships with the mineral industry. Please send résumés, including three references, to: **Dr. Gregory A. Davis, Chairman, Department of Geological Sciences, University of Southern California, Los Angeles, California 90007. USC is an Affirmative Action/Equal Opportunity Employer.**

**UNIVERSITY OF UTAH, PATHOLOGY DEPARTMENT**, needs expert in **pyrolysis spectrometry**. *Women and minority candidates are encouraged.*  
**Telephone: 801-581-7773.**

**PHARMACOLOGISTS** with a Ph.D. and/or M.D. degree are invited to apply for a faculty position at the Faculty of Medicine, Memorial University of Newfoundland. The duties will include contributing to the teaching of pharmacology in an integrated medical curriculum as well as some pharmacology teaching to science students and to graduate students. Candidates should have a broad background in general pharmacology with a major interest in drug kinetics, toxicology, drug metabolism, or biochemical pharmacology and will be expected to have or to develop a research program. The Faculty of Medicine has recently moved into a new Health Sciences Complex located on the Memorial University Campus, and will soon be joined by the St. John's General Hospital.

Academic rank and salary will be commensurate with experience and qualifications. The position will be available from September 1978 or by negotiation. The application deadline is 10 March 1978. Application, including curriculum vitae and the names and addresses of three references, should be sent to: **Dr. R. S. Neuman, Chairman, Pharmacology Search Committee, Faculty of Medicine, St. John's, Newfoundland, Canada A1B 3V6.**

## POSITIONS OPEN

**PATHOLOGIST.** The University of Manitoba, Department of Oral Biology, has an opening for an oral pathologist, rank and salary dependent upon qualifications and experience. Applicants should be capable of coordinating and teaching courses in oral pathology and general pathology at the graduate and undergraduate levels and conducting research. At present the department operates a biopsy service for which the applicant may also have responsibility. Applicants should be eligible for registration as an oral pathologist in the province of Manitoba. Deadline for applications: when position is filled. Applications with curriculum vitae and names of three referees should be forwarded to: **Dr. Christopher Lavell, Department of Oral Biology, Faculty of Dentistry, the University of Manitoba, Winnipeg, Canada R3E 0W3.**

### PATHOLOGIST

School of Medicine, University of California, San Francisco, is searching for a **chief of pathology/assistant pathologist** for its affiliated VA Hospital in Fresno, California. The Medical School is developing a major clinical branch in the central San Joaquin Valley. The VA Hospital in Fresno is a principal site of medical student clerkship and housestaff instruction. Candidates should have interest in clinical teaching and academic program development, as well as organization and operation of pathology laboratory services. Board-certification in clinical and anatomical pathology required. Kindly address inquiries to: **David Werdeg, M.D., Associate Dean, University of California Medical Education Program, 2615 East Clinton Avenue, Fresno, California 93703.**

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### PHARMACOLOGY-TOXICOLOGY

The Department of Pharmacology and Toxicology, School of Medicine, University of Louisville, invites applications for a full-time faculty position at the associate professor level. Applicants must have either an M.D. or a Ph.D. in pharmacology and at least 5 years of experience in pharmacology or toxicology; they will be judged on their ability to conduct independent, notable research and to teach medical pharmacology.

Send curriculum vitae and three letters of recommendation to: **William J. Waddell, M.D., Chairman, Department of Pharmacology and Toxicology, School of Medicine, Health Sciences Center, University of Louisville, P.O. Box 35260, Louisville, Kentucky 40232.**

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

### UNIVERSITY OF OKLAHOMA COLLEGE OF MEDICINE

Applications are solicited for faculty positions in the following department: **PHYSIOLOGY**—(#78) **associate professor** to develop a strong research program in cardiac cell kinetics and hypertrophy. (#79, #80) Two (2) **assistant professors** to develop a research program in neural components contributing to the control of the cardiovascular junction. (#81) **Assistant-associate professor** to develop a research program in respiratory physiology with emphasis on the control of respiration. All carry active teaching roles.

Applicants should send curriculum vitae, identifying vacancy number for which they are applying, to: **Dr. Thomas N. Lynn, Dean, College of Medicine, University of Oklahoma Health Sciences Center, P.O. Box 26901, Oklahoma City, Oklahoma 73190. We are an Equal Opportunity Employer.**

### PLANT ECOLOGIST

Department of Botany, University of North Carolina at Chapel Hill, seeks to hire plant ecologist at rank of assistant or associate professor. Preference given to candidates with broad ecological backgrounds and expertise in ecosystem function or physiological aspects of ecology. Candidates must have Ph.D. and strong commitment to research and teaching. Duties include developing independent research program, graduate student training, and teaching at the graduate and undergraduate levels. Applicants should forward curriculum vitae, reprints, manuscripts, brief résumé of research plans, and should arrange to have three letters of reference sent to: **Chairman, Ecology Search Committee, Department of Botany 010A, University of North Carolina, Chapel Hill, N.C. 27514.** Applications received after 1 March 1978, cannot be assured of consideration. *The University of North Carolina at Chapel Hill is an Equal Opportunity/Affirmative Action Employer.*

## POSITIONS OPEN

### PHYSIOLOGIST

**DEPARTMENT OF BIOLOGY, UNIVERSITY OF CALIFORNIA, LOS ANGELES**, wishes to fill a position in physiology at the assistant professor level beginning 1 July 1978. Applicants should be committed to excellence in undergraduate and graduate teaching and have a record of independent research performance. Postdoctoral experience is desirable. Research and teaching interests should be in the area of cell-cell interactions or organismic physiology. Qualified applicants should send curriculum vitae, names of references, a statement of present and past research activities, and other pertinent information to: **Chairman, Search Committee, Department of Biology, University of California, Los Angeles, Los Angeles, California 90024.** Closing date for application is 31 January 1978.

*An Equal Opportunity/Affirmative Action Employer*

### PHYSIOLOGIST

A faculty position is available at the level of assistant or associate professor in the Department of Physiology and Biophysics at the University of Tennessee Center for the Health Sciences, Memphis. The faculty member will be expected to participate in teaching and to carry out an independent research program. Minimum requirements are a Ph.D. or M.D. degree and at least 2 years of postdoctoral research training. Preference will be given to individuals with a research interest in CNS control of the cardiovascular system or water and electrolyte metabolism. Send curriculum vitae, names of three references, and a brief statement of research interest to: **Dr. Leonard Share, Department of Physiology and Biophysics, University of Tennessee Center for the Health Sciences, Memphis, Tenn. 38163.** *The University of Tennessee is an Affirmative Action/Equal Opportunity Employer.*

**PLANT PHYSIOLOGIST.** The Department of Botany and Plant Pathology, Purdue University, seeks applicants for position at the assistant professor level. Applicants should have Ph.D. degree in plant physiology or a related area in biochemistry and/or biophysics. Research may include some aspect of environmental stresses, mycorrhizal associations, membrane physiology, uptake and translocation of nutrients or control of plant development. The individual will be expected to interact with other faculty and with graduate students on research involving genetics, pathology, and weed science. Some graduate teaching will be required. Curriculum vitae, transcripts, and three letters of recommendation should arrive by 1 March 1978 and should be addressed to: **Dr. Thomas K. Hodges, Head, Department of Botany and Plant Pathology, Purdue University, West Lafayette, Indiana 47907.** *Purdue University is an Equal Opportunity/Affirmative Action Employer.*

### PLASMA PHYSICS STATISTICAL MECHANICS

Hunter College of City University of New York (CUNY) invites applications for a tenure-track assistant professor position in the field of plasma physics or statistical mechanics. Appointee must be qualified to pursue significant, independent research and teach undergraduate and graduate courses. Starting date of position is September 1978.

Applications with supporting material should be addressed to: **Professor A. Bennick, Physics Department, Hunter College of CUNY, 695 Park Avenue, New York, N.Y. 10021.** *Hunter College is an Affirmative Action/Equal Opportunity Employer. Applications from women and members of minority groups are encouraged.*

**POSTDOCTORAL FELLOW (MOLECULAR BIOLOGY).** Position requires a Ph.D. Work experience should be in either biochemistry, chemistry, or pharmacology. Applicant will conduct investigations of metabolic capacity of intestinal mucosa with respect to colon-specific chemical carcinogens. Submit résumé to: **Department MB, American Health Foundation, Naylor Dana Institute for Disease Prevention, Dana Road, Valhalla, New York 10595.** *An Equal Opportunity Employer, M/F.*

**POSTDOCTORAL POSITION IN NEUROPHYSIOLOGY** available spring 1978 to study aging and plasticity at the neuromuscular junction, with both descriptive and experimental approaches. Previous training in intracellular recording, preferably synaptic physiology, essential. Computer experience helpful. NIH pay scale. Send curriculum vitae and references to: **Dr. Norman Robbins, Department of Anatomy, Case Western Reserve University School of Medicine, Cleveland, Ohio 44106.**



## Virologist

A Research Scientist position is open for a Ph.D. Virologist interested in Human Virus Vaccine Development. Experience in mechanisms and techniques for the isolation and immunological evaluation of viral antigens from human viral pathogens will be helpful. Responsibilities include collaboration with present group, the development of original programs, and ability to demonstrate scientific and administrative leadership.

These opportunities are available with Wyeth Laboratories, a leading pharmaceutical firm located in Suburban Philadelphia. We are offering an excellent salary along with a comprehensive benefits plan. If you have an interest and are qualified for this position, please submit your curriculum vitae including salary requirements and references to:

John W. Pinkerton  
Personnel Department

**Wyeth** **WYETH**  
**LABORATORIES**  
P.O. Box 8299  
Philadelphia, Pa. 19101  
An Equal Opportunity Employer, M/F/H

## ACADEMY OF NATURAL SCIENCES OF PHILADELPHIA ALGAL ECOLOGIST POSITION

Training and experience in algal physiology and ecology, including primary productivity studies. Applicant must hold a Ph.D and have demonstrated competence in research. An interest in solving environmental related problems is highly desirable. Resumes should be submitted to: Dr. James Mears, Div. of Systematics and Evolution, Academy of Natural Sciences, 19th and the Parkway, Phila., PA 19103. An Eq. Oppor. Empl.

### SUMMER COURSE RIVERS, LAKES, AND ESTUARIES (Jun 5 thru Jul 14, 1978)

The Academy of Natural Sciences will sponsor a summer course at its 3 field stations: Lake Lacawac Sanctuary, Stroud Water Research Center, and the Benedict Estuarine Laboratory. Courses will include methods of field study, field and laboratory experiments and interpretation of data. Recommended 5 college credits. Prerequisite: chemistry, calculus, and ecology. Tuition: \$315; meals and lodging will be arranged by the Academy at a cost of \$535. For applications please contact Dr. Clyde E. Goulden, Academy of Natural Sciences, 19th and the Parkway, Phila., PA 19103.

**Book—Just Published, December, 1977**  
*Changing Scenes in the Natural Sciences—1776-1976*  
Publication of a Bicentennial Symposium  
Held at the Academy of Natural Sciences of Philadelphia in 1976

### CONTRIBUTORS:

Drs. R. D. Alexander, A. J. Cain, W. J. Ewens, E. B. Ford, J. L. Harper, G. E. Hutchinson, D. H. Janzen, R. M. May, E. Mayr, R. T. Paine, R. Patrick, P. H. Raven, H. L. Sanders, R. R. Sokal, E. Stellar, T. Uzzell, A. C. Wilson, E. O. Wilson, Edited by Dr. C. E. Goulden.

PRICE: Paperback—\$15.00, Hardback—\$25.00. Send check or money order to Academy of Natural Sciences of Philadelphia, ATTN: Publications Department, 19th and the Parkway, Philadelphia, PA 19103.

### FACULTY POSITIONS College of Medicine, King Faisal University Dammam, Saudi Arabia

Applications invited from qualified men and women in:

Biology	Biochemistry
Chemistry	Hematology
Physics	Biostatistics
Anatomy	Microbiology
Human Physiology	Parasitology
Pathology	Pharmacology
Epidemiology	General Surgery
Community Medicine	Internal Medicine

Doctorate or equivalent degree required. Language of instruction is English. Positions available starting September 1978; interviews scheduled with the dean in the United States and Great Britain early in 1978.

Salary ranges (monthly salary in Saudi riyals or approximate annual equivalent in U.S. dollars)—professor: SR6,000 to 6,600 or \$20,300 to \$22,300; associate professor: SR4,800 to 5,800 or \$16,300 to \$19,600; and assistant professor: SR3,600 to 4,600 or \$12,200 to \$15,600.

(M.D. degree commands a higher salary, up to 50 percent if a clinical as well as academic appointment held.)

Free furnished accommodations. Airfare to and from Saudi Arabia once a year plus a 45- to 60-day holiday. No Saudi income tax.

Send complete curriculum vitae plus addresses and telephone numbers of three references to:

Mohammed T. Altorki, M.D., MRCP  
Dean of the Medical Faculty  
King Faisal University  
c/o Saudi Arabian Educational Mission  
2223 West Loop South, Suite 400  
Houston, Texas 77027

Mohammed T. Altorki, M.D., MRCP  
Dean of the Medical Faculty  
King Faisal University  
P.O. Box 9  
Isleworth, Middlesex TW7 4LZ  
England

Specify dates of teaching appointments and availability.

### UNIVERSITY OF ILLINOIS COLLEGE OF MEDICINE SCHOOL OF BASIC MEDICAL SCIENCES AT URBANA-CHAMPAIGN PROGRAM IN THE ANATOMICAL SCIENCES

### THREE FACULTY POSITIONS IN ANATOMY

*Neuroanatomy, Microscopic Anatomy, Gross Anatomy:* Responsibilities include delivery of curriculum in subject disciplines to medical and other health professional students and participation in graduate education.

*Qualifications:* Ph.D. and/or M.D. with formal training in the anatomical sciences, a demonstrated potential in research in the biological sciences, and experience in medical education.

*Appointment:* These positions are permanent, full-time faculty appointments. Salary and rank commensurate with experience.

*Position Available:* August 21, 1978, for 1978-79 academic year.

*Closing Date for Applications:* In order to receive full consideration, applications should be received by February 15, 1978.

*Contact:* Send curriculum vitae to:

Charles H. Hockman, Ph.D.  
Chairperson, Search Committee  
School of Basic Medical Sciences  
University of Illinois  
Urbana, Illinois 61801  
(217)333-9749

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### DEAN

### COLLEGE OF LIFE SCIENCES AND AGRICULTURE UNIVERSITY OF NEW HAMPSHIRE

The dean is the chief administrative officer of the College of Life Sciences and Agriculture which includes: the 4-year undergraduate instructional programs; the Thompson School of Applied Science (2-year programs); the Agricultural Experiment Station; and the Cooperative Extension Service. The dean also serves as director of the Agricultural Experiment Station and as administrative technical representative for the McIntire-Stennis Program.

*Qualifications:* candidates should have demonstrated administrative skill, be familiar with the organization and management of land-grant programs, and show evidence of creative research/scholarship.

*Responsibilities:* provide leadership to maintain a creative and scholarly environment for faculty, staff, and students and enhance and coordinate the missions of the college. The candidate would be expected to develop an effective working relationship with faculty, staff, and the people of New Hampshire.

*Salary range:* principal administrator's salary range: \$29,600 to \$44,440. Starting salary will not normally exceed \$33,500.

*Starting date:* 1 July 1978.

*Closing date for applications and nominations:* 1 February 1978.

Applicants should submit a complete résumé with three references. Nominations should include addresses and phone numbers. All materials should be sent to:

Dr. George O. Estes, Chairman  
Dean's Search Committee  
University of New Hampshire  
Nesmith Hall  
Durham, New Hampshire 03824

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## POSITIONS OPEN

### POLYSACCHARIDE CHEMIST

Ph.D. biopolymer chemist with significant academic and research experience in polysaccharide chemistry. Challenging assignment involving characterization of complex carbohydrate biopolymers, their interactions and functional applications performance in food systems. Broad research competence required in starch, gum, food fiber, hydrocolloid and polysaccharidase chemistry. Full project leadership responsibility for a self-motivated, creative scientist.

Outstanding corporate research facility in north suburban Chicago.

Send confidential résumé with salary expectation to:

Director of Personnel Administration



INC  
Research & Development  
801 Waukegan Road  
Glenview, Illinois 60025

An Equal Opportunity Employer M/F

**POSTDOCTORAL POSITION** available immediately. Qualified individual with experience in cell biology and/or cell membrane study is required. Send résumé and references to: **J. K. Reddy, M.D., Department of Pathology, Northwestern University Medical School, 303 East Chicago Avenue, Chicago Illinois 60611. An Affirmative Action/Equal Opportunity Employer.**

### POSTDOCTORAL POSITION REPRODUCTION RESEARCH LABORATORY ST. LUKE'S EPISCOPAL HOSPITAL and DEPARTMENT OF OBSTETRICS AND GYNECOLOGY BAYLOR COLLEGE OF MEDICINE HOUSTON, TEXAS 77030

A Ph.D., D.V.M., or M.D. fellow with a physiology of reproduction background is sought for a 2-year fellowship in the area of reproductive tract receptor research with primary emphasis on the biochemistry of the placenta. Thus, some advanced chemistry and biochemistry courses are essential.

Salary range is in keeping with experience. *We are an Equal Opportunity Employer.* There are currently eight other postdoctoral fellows in the department and 39 residents. This individual joins a research team already active in reproductive research and should send their résumé to **Paige K. Besch, Ph.D., Professor and Director**, at the above address.

**POSTDOCTORAL POSITION** is available immediately for studies on the biochemical mechanism and control of gastric acid secretion. Adequate background in biochemistry is desirable. Send curriculum vitae and names of two references to: **Tushar K. Ray, Department of Physiology, University of Texas Medical School at Houston, P.O. Box 20708, MSMB 4214, Houston, Texas 77030. An Equal Opportunity Employer.**

**POSTDOCTORAL POSITION—biochemistry, immunochemistry, and biophysics:** U.S. citizenship required. Position is immediately available for a person with a recent Ph.D. in biophysics or biochemistry. The research deals with the use of nuclear magnetic resonance spectroscopy to study the interactions of antibodies and haptens, and sugar-protein interactions. Interdisciplinary training is emphasized in this program. Send curriculum vitae, including references, to: **Dr. C. F. Brewer, Department of Pharmacology, Albert Einstein College of Medicine, Bronx, N.Y. 10461.**

**POSTDOCTORAL POSITION** available spring, summer, or fall for a combined spectroscopic and enzymatic study of the binding of anticancer drugs to DNA, synthetic polymers, and oligonucleotides. Experience in spectroscopy (CD, FT-NMR, fluorescence), nucleic acid chemistry, or enzymology preferred. Interested applicants should submit curriculum vitae, transcript, and three letters of recommendation to: **Dr. Thomas R. Krugh, Department of Chemistry, University of Rochester, Rochester, New York 14627.**

## POSITIONS OPEN

**POSTDOCTORAL POSITION.** Available summer 1978 for research on structure and functioning of the mitochondrial electron transport chain. Recent Ph.D. with background in membrane research preferred. Please send curriculum vitae and references to: **Roderick A. Capaldi, Institute of Molecular Biology, University of Oregon, Eugene, Oregon 97403. An Equal Opportunity/Affirmative Action Employer.**

**POSTDOCTORAL POSITION** to work on secretion of proteins across membranes. Background in protein synthesis or membrane biochemistry helpful. Send curriculum vitae to:

**Dr. Bernard D. Davis  
Bacterial Physiology Unit  
Harvard Medical School  
Boston, Mass. 02115**

**POSTDOCTORAL POSITIONS** are available in the Department of Psychobiology, University of California, Irvine. The faculty involved and areas of research are as follows: C. Cotman—synaptogenesis; a background in neurochemistry and neuroanatomy is required; G. Lynch—neural plasticity; neurochemistry and neurophysiology background required; R. F. Thompson—brain mechanisms of learning; neurophysiology/neuroanatomy/behavior background desired; and N. M. Weinberger—neurophysiology of learning and ethanol action; electrophysiology or behavioral conditioning background preferred.

For further information contact individual faculty member in area of interest at: **Department of Psychobiology, University of California, Irvine, Calif. 92717.**

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**POSTDOCTORAL POSITION** available immediately for a Ph.D. in biochemistry or biochemical pharmacology to participate in research program related to psychopharmacology. Research experience in any of the following areas desirable: cyclic AMP, receptor binding, and catecholamine metabolism. Starting salary: \$14,000 per year. Send résumé to: **G. Pandey, Ph.D., Research Department, Illinois State Psychiatric Institute, 1601 West Taylor Street, Chicago, Ill. 60612.**

### POSTDOCTORAL RESEARCH ASSOCIATE

Position is available immediately for recent Ph.D. with an interest in the molecular mechanisms of synaptic transmission. Applicants should be able to contribute biochemical approaches to the study of muscarinic acetylcholine receptors and the molecular mechanisms of the response of the heart to acetylcholine. Salary is \$10,800 per year, plus fringe benefits. Applicants should send curriculum vitae, names of three references, and a brief statement of research interests to: **Dr. H. Criss Hartzell, Department of Anatomy, Emory University School of Medicine, Atlanta, Ga. 30322. An Equal Opportunity/Affirmative Action Employer.**

**PREDOCTORAL POSITIONS** available in pharmacology. Research areas include behavioral, cellular, chemical, biochemical, neurophysiological, clinical, and neurochemical subfields of pharmacology and toxicology. Supported by USPHS training grant with stipends of \$3900 per year plus tuition. Apply to: **Director of Graduate Studies, Department of Pharmacology, University of Kansas Medical Center, Kansas City, Kansas 66103.**

### BEHAVIORAL SCIENCE PROFESSOR AND HEAD OF THE DEPARTMENT

Senior behavioral scientist with strong record of research, teaching and scientific leadership to chair the Department of Behavioral Sciences at the Harvard School of Public Health, and develop research and teaching programs with applications to public health. Cooperative work with departments throughout the university will be important. Specialization in any of the fields of the behavioral and social sciences would be appropriate.

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

A statement of interest and résumé should be sent to:

**Professor Frederick Mosteller  
Department of Biostatistics  
Harvard School of Public Health  
677 Huntington Avenue  
Boston, Massachusetts 02115**

## POSITIONS OPEN

**POSTDOCTORAL POSITION**—Available immediately for research in hepatic drug metabolism. Experience in HPLC and spectrophotometry of biological material highly desirable. Laboratory leadership potential. Send curriculum vitae and references to: **Dr. M. R. Franklin, Department of Pharmacology, University of Utah, Salt Lake City, Utah 84132. The University of Utah is an Equal Opportunity/Affirmative Action Employer.**

### POSTDOCTORAL POSITION IN BIOCHEMISTRY

Available immediately for a highly motivated investigator to isolate and examine the properties of eukaryotic protein synthesis elongation factors. Prefer individual with some background in protein chemistry. Send curriculum vitae and names of three references to: **Dr. James W. Bodley, Department of Biochemistry, 227 Millard Hall, 435 Delaware Street, SE, University of Minnesota Medical School, Minneapolis, Minnesota 55455. An Equal Opportunity Employer.**

The Department of Psychology, Dalhousie University, announces two faculty positions commencing 1 July 1978.

- 1) **Behavioral biology:** person with research/teaching interests in development, integration, and/or functional analysis of species behavior patterns from a broad biological perspective (for example, developmental neurobiology, ethology, sociobiology, genetics, and endocrinology).
- 2) **Perception/applied neuropsychology:** person with research/teaching interests in perceptual mechanisms and neuroscience, preferably with a focus upon organically mediated abnormalities of processing capacities (for example, consequences of multiple sclerosis and deprivation during development).

Excellent marine, laboratory, field, and hospital facilities are available. Candidates will be selected on basis of academic excellence.

Send résumés, including curriculum vitae, reprints, and names of at least three references, to: **Chairman's Advisory Committee, Department of Psychology, Life Sciences Centre, Dalhousie University, Halifax, Nova Scotia, Canada B3H 4J1.**

### RESEARCH ASSOCIATE

Research associate position is available for candidate with Ph.D. (electrical engineering) and interests and some experience in neurobiology to investigate neural correlates of behavior in mollusks. A background in control systems and on-line computer analysis essential and experience with electrophysiological recording techniques highly desirable. Staff benefits available are health and life insurance and retirement plan. Starting salary consistent with NIH guidelines, \$12,000. Send curriculum vitae and letters of recommendation from three persons. Apply to: **Bureau for Manpower Service, 300 South Upper Street, Lexington, Ky. 40508; contact T. Moore.**

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### RESEARCH ASSOCIATES

#### ECOLOGIST ENVIRONMENTAL PLANNER/SOCIAL SCIENTIST PHYSICAL SCIENTIST

Three 18-month, non-tenure-track positions available 1 February 1978. Each position involves working as member of interdisciplinary team conducting environmental assessment for water resource project in Virginia. Supervise and coordinate overall conduct of ecological, human-cultural, and physical sciences activities including design of field and laboratory investigations, analyses of data, and preparation of reports.

Qualifications: Ph.D. in terrestrial or aquatic ecology; sociology, economics, or environmental or land-use planning; soils science (preferred), geology, or hydrology. Will also consider M.S. with related environmental assessment experience.

To apply: submit curriculum vitae, names of three references, and a brief statement of research interests and career goals to:

**Dr. K. L. Dickson, Assistant Director  
Center for Environmental Studies  
Virginia Polytechnic Institute and State University  
Blacksburg, Virginia 24061  
An Equal Opportunity Employer**

## GRADUATE TRAINING IN MEDICAL COMPUTING FOR PHYSICIANS

The University of Illinois at Urbana-Champaign College of Medicine and Department of Computer Science are accepting applications for a two-year program in medical computing, leading to the degree of Master of Computer Science.

All applicants must have a M.D. degree, U.S. citizen (or permanent resident), and preferably some residency training. A basic stipend of \$15,000 per year will be provided to qualified applicants.

The Department of Computer Science offers a well-established graduate program with 35 full time faculty. Research interests include advanced instrumentation, information engineering, image processing and artificial intelligence. The College of Medicine's Medical Computing Laboratory supports research in interactive medical consultation and other aspects of medical informatics, especially those involved with man-machine interaction.

Inquiries should be directed to Allan H. Levy, M.D., 567 Medical Sciences Building, University of Illinois, Urbana, Illinois 61801 (Telephone: 217/333-2284).

The University of Illinois is in full compliance with all federal and state nondiscrimination and equal opportunity laws, orders and regulations, and will not discriminate against any person in any of its educational programs and activities.

## PROFESSEUR EN PHYSIQUE

**LA FONCTION:** Le titulaire de ce poste dispensera des activités d'enseignement au programme de premier cycle en physique et au programme de maîtrise en sciences de l'atmosphère. Il sera intéressé à la recherche dans le domaine des sciences de la terre, plus particulièrement en physique de l'atmosphère. Il devra être prêt à participer aux recherches sur le terrain et à collaborer avec les équipes déjà existantes. Il participera également aux différents organismes de l'Université.

**LE CANDIDAT:** Il détient un doctorat en physique appliquée et est spécialisé préférentiellement dans l'un des domaines suivants: sciences de l'atmosphère, interaction air-mer, météorologie dynamique.

**LE TRAITEMENT:** La rémunération est selon la convention collective de travail.

**DATE D'ENTREE EN FONCTION:** Le 1er juin 1978.

Les candidats intéressés sont priés de faire parvenir leur curriculum vitae avant le 15 février 1978 à:

Jean-Denis Desrosiers, directeur  
Département des sciences pures  
Université du Québec à Rimouski  
300, avenue des Ursulines  
Rimouski, Qué.  
G5L 3A1



Université du Québec à Rimouski

## SOLAR ENERGY CONVERSION PROGRAM

Position open for experimentalist to conduct research on amorphous-semiconductor thin films. Background (including PhD or equivalent) in solid state physics, materials science, and/or solar energy conversion is required. Experience in thin film research and knowledge of opto-electronic phenomena (e.g. photoluminescence) are desirable.

Interested candidates should apply, and request 3 reference letters be addressed to:

Dr. Richard W. Griffith  
Dept of Energy & Environment  
Building 480

**Brookhaven National  
Laboratory**



Associated  
Universities, Inc.  
Upton, L.I.,  
New York 11973

An Equal Opportunity  
Employer M/F

The National Cancer Institute (NCI), National Institutes of Health (NIH), is interested in contracting for the following projects:

### TUMOR IMMUNOLOGY: CANCER CAUSE AND PREVENTION

Reference No. NCI-CB-84242-31. **IMMUNOPREVENTION OF MALIGNANT TUMORS IN GUINEA PIGS: TREATMENT OF PUTATIVE PRECURSOR LESIONS.** Proposals are sought for study of the influence of age on carcinogenesis by dimethylbenzanthracene (DMBA) and on immunoprophylaxis by intraleisional administration of a BCG vaccine into the pigmented nonmalignant lesions which result from DMBA administration. Deadline for receipt of proposals is 5 p.m., Bethesda, Maryland time on 3 April 1978.

Reference No. NCI-CB-84243-31. **IMMUNOPROPHYLAXIS OF BOVINE LYMPHOSARCOMA.** Proposals are sought for study of the immunoprophylaxis of bovine lymphosarcoma with a BCG cell wall vaccine. Correlative studies of immunologic status with course of disease are required. Deadline for receipt of proposals is 5 p.m., Bethesda, Maryland time on 3 April 1978.

Reference No. NCI-CB-84244-31. **IMMUNOLOGIC MECHANISMS OF CATTLE.** Proposals are sought for in vitro investigation of the immunologic mechanisms of healthy and diseased cattle, to be carried out in conjunction with an ongoing immunoprophylaxis study of "cancer eye." Deadline for receipt of proposals is 5 p.m., Bethesda, Maryland time on 3 April 1978.

Reference No. NCI-CB-84245-31. **TOXIC ACTIVITY OF SYNGENEIC COMPLEMENT AGAINST TUMOR TARGET CELLS.** Proposals are sought for studying the interactions of tumor cell, anti-tumor cell antibody and complement in completely autologous or syngeneic systems. Deadline for receipt of proposals is 5 p.m., Bethesda, Maryland time on 3 April 1978.

A request for proposal for each project listed above is available on or after 11 January 1978, by written request to: Contracting Officer, CBDCS, Tumor Immunology, Research Contracts Branch, National Cancer Institute, Landow Building, Room C-425, National Institutes of Health, Bethesda, Maryland 20014. Request for RFP must cite the reference number(s) of the desired project(s) as shown above. Requests or inquiries must be in writing.

## Neuroscientist

Wyeth Laboratories, a leading pharmaceutical firm located in suburban Philadelphia, is seeking a Ph.D. specialist in neuroanatomy and/or neurochemistry interested in collaborative relationships with biopsychologists and psychopharmacologists. Applicant should have post doctoral experience and capabilities in several methodologies (including histofluorescence, immunohistochemistry, horseradish peroxidase, microdissection or radiotracer assays, receptor assays, extraction and isolation of biogenic amines and neuropeptides).

Wyeth offers an excellent salary commensurate with experience along with a comprehensive benefits plan. Interested individuals should submit curriculum vitae, salary requirements and references to:

Dr. Larry Stein

**Wyeth WYETH  
LABORATORIES INC.**  
P.O. Box 8299  
Philadelphia, Pa. 19101

Equal Opportunity Employer, M/F/H

## POSITIONS OPEN

**RESEARCH ASSOCIATE.** One- or 2-year postdoctoral research position in behavioral pharmacology. Send curriculum vitae and statement of research interests to: **Dr. James E. Barrett, Department of Psychology, University of Maryland, College Park, Maryland 20742.** An Equal Opportunity/Affirmative Action Employer.

### RESEARCH CHEMIST, GRADE 12

**Location:** Agricultural Research Service, Barley Malt Laboratory, Madison, Wisconsin. **Salary:** \$21,883 per year. **Description:** Responsible for conducting basic and applied biochemical research on brewing quality of barleys and improving malting and brewing quality evaluation methods. The work is part of the research program of the Barley and Malt Laboratory, Madison, Wisconsin. The incumbent identifies, separates, and quantitates specific biochemical constituents of malt, its associated microflora, or wort that contribute to the quality of beer. Technical contact: **Dr. Warren C. Burger, telephone: 608-262-3355.** Send application to: **James P. Campbell, USDA-ARS-NCRAO-Personnel, 2000 West Pioneer Parkway, Peoria, Illinois 61614.** Telephone: 209-671-7132.

**RESEARCH POSITION** available immediately for research on microbial metabolism of steroids. Research will involve metabolic conversions of androgens, estrogens, and bile acid in the large bowel. Candidates must have a strong background in biochemistry and steroid chemistry; a Ph.D. in biochemistry, chemistry, or related field, preferably with postdoctoral experience. Qualified candidates may send résumés to: **Dr. Sherwood L. Gorbach, Department of Medicine, Tufts New England Medical Center, 171 Harrison Avenue, Boston, Mass. 02111.** An Equal Opportunity Employer, M/F.

## SUPERVISOR SCANNING ELECTRON MICROSCOPE LABORATORY

The University of Chicago has an SEM Users' Laboratory which is an NIH Research Resource Facility. It contains two high-performance SEM's with field emission sources. Position of supervisor now open; suitable for a physicist or engineer with relevant experience. Preference given to Ph.D. degree-holders seeking postdoctoral experience. Duties consist of maintaining microscopes and laboratory equipment in good working order and assisting users with their operation. There are many opportunities for collaboration on research projects and pursuit of independent research. Interested candidates should send résumés only to:

**Dr. A. V. Crewe**  
**Enrico Fermi Institute**  
**5630 South Ellis Avenue**  
**Chicago, Ill. 60637**

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Equal Opportunity Employer, M/F

**TECHNICAL EDITOR.** Inhalation Toxicology Laboratory with 50 doctoral-degreed staff members seeks experienced technical editor to edit manuscripts for scientific journals and technical documents and papers for presentation at professional meetings. Must be able to communicate effectively with scientific staff which includes biologists, chemists, physicists, pathologists, engineers, and toxicologists. Will plan tables, figures, exhibits, and art work; lay out materials for publication; prepare brochures and booklets for internal and external distribution; supervise editorial assistant, technical illustrator, and small-word processing center. Send résumé to: **Personnel Manager, Lovelace Inhalation Toxicology Research Institute, P.O. Box 5890, Albuquerque, N.M. 87115,** or telephone: 505-264-9432. An Equal Opportunity/Affirmative Action Employer, M/F/Handicapped.

## COURSES

### THE MARINE BIOLOGICAL LABORATORY WOODS HOLE, MASSACHUSETTS

Will conduct a series of short residential laboratory courses during late spring 1978. The course titles, dates, and principal instructors are: **Electron Microscopy in the Biological Sciences**, 23 April to 5 May, Blair Bowers and Morton Maser; **Correlative Optical and Electron Microscopy in Clinical Diagnosis**, 7 to 12 May, Harry Carter; **Stereology, Morphometry and Optical Analysis of Electron Micrographs**, 14 to 19 May, Lee Peachey; **Scanning Electron Microscopy in the Biological Sciences**, 14 to 19 May, Bruce Wetzel; **Freeze-fracture Replication**, 21 to 26 May, Russell Steere; **Computer Reconstruction of Three-Dimensional Biological Structures from Serial Sections**, 28 May to 3 June, Eduardo Macagno and Cyrus Levinthal. Additional information and application materials may be obtained from: **the Director of Admissions, Marine Biological Laboratory, Woods Hole, Mass. 02543,** telephone: 617-548-3705. *MBL admits students of any race, color, and national or ethnic origin.*

## TRAVEL GRANTS

### 5th Annual Workshop on the Testis "Endocrine Approach to Male Contraception" Gello, Norway 2 to 5 April 1978

Program for the meeting includes sessions on: inhibition of gonadotrophin secretion, Leydig cell function and seminiferous tubular function, comparative aspects of ovarian and testicular function, inhibition of sperm maturation, and methods for evaluation of antifertility agents in the male (see announcement in *Endocrinology* 101, 1346, 1977).

The Carolina Population Center announces the availability of a limited number of **TRAVEL GRANTS** to attend the meeting. Application should be made in the form of a letter describing your interest in the meeting and including a brief biographical sketch as well as an abstract of recent research relevant to the program. Send to:

**Testis Workshop**  
c/o J. Richard Udry, Director  
The Carolina Population Center  
505 University Square East 300A  
Chapel Hill, N.C. 27514

Applications should be received not later than 15 February 1978.

## SYMPOSIUM

### INTERNATIONAL SYMPOSIUM ON CHRONOPHARMACOLOGY

An International Symposium on Chronopharmacology will be held in Tallahassee, Florida, from 10 to 12 February 1978.

The symposium will convene leading investigators to present clinical aspects of chronopharmacology, clinical chronopharmacology, and chronotoxicology. A partial list of speakers includes: C. Ehret (Argonne Laboratories), F. Halberg (University of Minnesota), H. Kabat (University of Minnesota), D. Krieger (Mt. Sinai, N.Y.), R. Kulkarni (India), G. Lew (Michigan State), J. Mirozue (France), A. Reinberg (France), L. Scheving (University of Arkansas), H. Simpson (Scotland), M. Smolensky (University of Texas), H. von Mayersbach (Germany), and C. Winget (NASA, Ames).

The symposium will feature selected topics by guest speakers, abstracts, panel discussions, and a poster session. For further information and registration forms, write to: **Dean Charles A. Walker, School of Pharmacy, Florida A&M University, Tallahassee, Florida 32307.**

## CONFERENCE

### ELECTROPHORESIS 1978

An international conference and poster presentations will be held at the **MIT Kresge Auditorium** in Cambridge, Massachusetts, 19 to 21 April 1978. More than 20 invited speakers will present lectures on all types of electrophoretic and isoelectric focusing methods and applications to proteins, nucleic acid, and cell separation. Abstracts for poster presentations must be received by 1 March 1978. Pre-registration is required. For brochure and registration forms write to:

**Professor Nicholas Catsimopoulos**  
**Massachusetts Institute of Technology**  
**Room 56-307**  
**Cambridge, Massachusetts 02139**

## CONFERENCE

### INVITATION AND CALL FOR PAPERS CAPON SPRINGS CONFERENCE No. 2 POPULATION AND FOOD POLICY

22 to 24 February 1978

International Inn, Washington, D.C.

Deadline for abstracts: 1 February 1978. For further information contact: **Population/Food Fund, Box 255 University Station, Grand Forks, North Dakota.** Telephone: 701-777-3594.

## TRAINEESHIPS

### POSTDOCTORAL TRAINEESHIPS IN BURNS AND TRAUMA RESEARCH

Candidates representing cell and molecular biology, biochemistry, endocrinology, metabolism, surgery, pathology, and pediatrics are invited to apply for a unique opportunity to participate in collaborative basic research aimed at eventual solutions to clinical problems relating to burn injury and trauma. Excellent clinical and laboratory facilities at the Shriners Burn Institute in affiliation with Massachusetts General Hospital and Harvard Medical School. Ph.D. or M.D.; United States citizen. Write for further details or send résumé, transcripts, names of three references, and letter indicating research interests to: **J. F. Burke, M.D., Chief of Staff, Shriners Burns Institute, 51 Blossom Street, Boston, Mass. 02114.** Application deadline: 7 February 1978.

## POSTDOCTORAL

Traineeships in interdisciplinary environmental health studies. Three NIH-supported 1- to 2-year positions, from July 1978, in research team concerned with relating environmental pollution measurements to public health. Especially encouraged are applicants with recent Ph.D. in mathematics, statistics, physics, chemistry, biology, or earth sciences wishing advanced study in atmospheric or oceanic chemical measurements and in statistical evaluation of environmental data for health related factors. Please address inquiries by 15 April to: **Professor F. W. Lyles, Department of Statistics, or to Professor J. W. Winchester, Department of Oceanography, Florida State University, Tallahassee, Fla. 32306.** An Affirmative Action/Equal Opportunity Employer.

## GRADUATE STUDY

**Graduate Studies—Department of Pathology.** A limited number of positions are available for graduate study in pathobiology for the 1978-1979 academic year. Potential research areas concentrate on the application of morphologic, biochemical, immunological, cytochemical, and general cell biology methodology in the study of the disease process. Graduate stipends available on a competitive basis. Contact: **Dr. Harvey Bank, Department of Pathology, Medical University of South Carolina, 171 Ashley Avenue, Charleston, S.C. 29403.**

**TEACHING AND RESEARCH ASSISTANTSHIPS** available in biology (emphases in physiology, microbiology/genetics, plant science, population biology, marine science, and developmental biology). Salary range \$3375 to \$4257 for 9 months M.S./Ph.D. programs. For descriptive brochure, write: **Graduate Chairman, Department of Biology, University of Houston, Houston, Texas 77004.**

## FELLOWSHIPS

**RESEARCH FELLOWSHIP IN CLINICAL IMMUNOLOGY.** Ph.D. or M.D. Clinical and basic studies of human autoimmune and immunodeficiency diseases. Available 1 July 1978 for up to 3 years. Training includes extensive seminar programs. Applicants should be U.S. citizens or permanent residents. Send curriculum vitae to: **Dr. John H. Vaughan, Research Institute of Scripps Clinic, 10666 North Torrey Pines Road, La Jolla, California 92037.** Equal Opportunity Employer.

**POSTDOCTORAL FELLOWSHIP,** available immediately for research on the structure and function of complex lipids in plants and fungi. Send curriculum vitae and references to: **R. A. Laine or R. L. Lester, Department of Biochemistry, University of Kentucky College of Medicine, Lexington, Kentucky 40506.** An Equal Opportunity/Affirmative Action Employer.



### Neuropharmacologist

Candidates should have a Ph.D. in Pharmacology or Physiology with a major interest or preferably experience in evaluation of analgesics. Primary responsibility is in further development of an established program designed to develop new agents for the treatment of pain and to investigate the site and mechanism of action of these drugs. Secondary responsibility will include contributing to the programs designed to develop better drugs for the treatment of disorders of the nervous system. An interest in the role of peptides in brain function is desirable.

This opportunity is available with Wyeth Laboratories, a leading pharmaceutical firm located in Suburban Philadelphia. We are offering an excellent salary along with a comprehensive benefits plan. If you have an interest and are qualified for this position, please submit your curriculum vitae including salary requirements to:

John W. Pinkerton  
PERSONNEL DEPARTMENT

**Wyeth** WYETH  
LABORATORIES INC.  
P.O. Box 8299  
Philadelphia, Pa. 19101

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## Physical Oceanographers GS-13/14 (TWO POSITIONS)

GS-13 Salary Range from \$26,022 to \$33,825 per/annum

GS-14 Salary Range from \$30,750 to \$39,975 per/annum

### OFFICE OF NAVAL RESEARCH Announcement 77-080-K

The successful applicants will become Scientific Officers in the Physical Oceanography Program of the Office of Naval Research's Ocean Science and Technology Division. The individuals will be responsible to the Program Manager for initiating, planning, organizing, directing and carrying through to completion broad research projects in physical oceanography. This is a contract search program, primarily at academic institutions, and is presently budgeted at \$8,250,000 per year. Although the tasks in the program are unclassified, it is oriented toward the

mission problems of the Navy. Education at the PhD level in physical oceanography or a related physical science, or equivalent professional experience, as demonstrated by published articles, management experience, and an ability to make lucid technical presentations, are required. It is desirable that applicants have considerable seagoing experience.

Interested candidates should submit personal qualifications statement, Standard Form 171, including publications and reference to:

### Civilian Personnel Office (Code 123) Naval Ocean Research and Development Activity NSTL Station, Mississippi 39529

These positions are in the Federal Career Service with all Civil Service benefits.

These positions may be located either at NSTL Station, Mississippi (approximately 45 minutes drive east of downtown New Orleans, LA) or at Ar-

lington, Virginia (approximately 10 minutes drive southwest of Washington, DC). Applicants must indicate which of these duty stations is/are acceptable.

These positions will be held open until such time as suitable applications have been obtained.

An Equal Opportunity Employer—M/F

## SENIOR BIOCHEMIST

3M's Central Research Pilot Development Laboratory has an immediate opening for a PHD Biochemist or other biological science with at least 2 years post-doctoral or industrial experience. A background in proteins, lipids and carbohydrates is necessary. Work experience with biologically active organic compounds helpful.

Duties involve isolation characterization and processing of biochemicals useful in health care products. Leadership and communication skills required to interest with other 3M Divisions.

Submit resume in confidence to:

**Dennis G. Nelson**  
Staffing & Employee Resources  
**3M COMPANY 3M CENTER**  
St. Paul, Minnesota 55101

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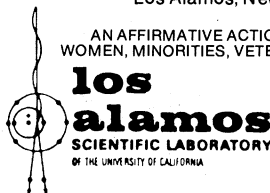
## los alamos POSTDOCTORAL OR VISITING STAFF RESEARCH APPOINTMENTS

1. Ph.D. candidates in biophysics or radiation biology with thesis in radiobiology studies related to radiotherapy to participate in heavy particle comparative radiobiology studies using protons, heavy ions, negative pions, and fast neutrons.
2. Ph.D. candidates in biophysics or radiation biology or D.V.M. candidates interested in applying flow cytophotometry (fluorescence and scattering) to research problems in radiobiology related to radiotherapy. Knowledge of physical concepts of cytophotometry instrumentation and pathology is required. Studies include biopsy materials from canine and human tumors during treatment with either radiation or chemotherapy or both, cultured cells, and rodent tumors.

Individuals with postdoctoral experience specifically in the above areas will be considered for visiting staff member positions. These are renewable one year appointments. For technical information contact Dr. M. R. Raju, 505/667-4281.

Send resume, in complete confidence, to:  
Michael Trujillo, Employment Representative  
Division—78-0  
Los Alamos Scientific Laboratory  
P. O. Box 1663  
Los Alamos, New Mexico 87545

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## FELLOWSHIPS

### POSTDOCTORAL FELLOWSHIP

A postdoctoral fellowship in the area of immunology of parasitic infections is available immediately in the Laboratory of Parasitology, Department of Pathobiology, School of Veterinary Medicine, University of Pennsylvania. Persons holding a Ph.D., D.V.M., or M.D. degree and with a strong background in immunology or parasitology will be considered for this position. Individuals must also be citizens or resident aliens of the United States. Initial appointment is for 1 year; this may be renewed on an annual basis up to a maximum of 3 years.

The topic area of research for this fellowship is the immunology of larval cestode infections and the individual would be located at New Bolton Center, the rural campus of the School of Veterinary Medicine.

Interested individuals should send a summary of their previous research and the significance of it and a statement of their career goals together with the names of three referees to: **Dr. E. J. L. Soulsby, Department of Pathobiology, School of Veterinary Medicine, University of Pennsylvania, 3800 Spruce Street, Philadelphia, Pa. 19104.**

### POSTDOCTORAL FELLOWSHIP IN IMMUNOBIOLOGY

Postdoctoral fellowships in cancer immunobiology are available at Sloan-Kettering Institute for Cancer Research. Fellows will be trained in cellular immunology, development and interaction of lymphoid cells, molecular immunology, clinical immunology and cancer, human and mouse immunogenetics, tumor immunology, cell surface immunology, and immunogenetics. Training methods include individualized research with qualified mentor, training in clinical laboratory analysis, lectures, courses, seminars, discussions, rounds, clinics, and conferences. Individual research program will be offered either in New York City or at Walker Laboratory, Rye, N.Y. Only U.S. citizens or foreign nationals with permanent resident or immigrant visas will be considered. Send inquiry with brief résumé to **Dr. Y. S. Choi, Immunobiology Training Program Director, Sloan-Kettering Institute for Cancer Research, 145 Boston Post Road, Rye, N.Y. 10580. An Equal Opportunity/Affirmative Action Employer.**

Center for Alcohol Studies of the University of Pennsylvania invites applications for two **RESEARCH TRAINING FELLOWSHIPS** to begin 1 July 1978. Applicants must hold an M.D. or Ph.D. degree. Biochemists, biophysicists, and those from related basic science disciplines are encouraged to reply. Opportunities exist for a 2-year research training experience in a multidisciplinary alcoholism center, emphasizing collaboration between biomedical and behavioral sciences. Trainees receive a stipend from \$10,000 to \$13,200 depending on level of experience. Applicants should be United States citizens, noncitizen nationals, or have a permanent visa at the time of appointment. Inquiries should include curriculum vitae and be sent to:

**James Stinnett, M.D.  
1054 Gates Pavilion  
Hospital of the University of Pennsylvania  
3400 Spruce Street  
Philadelphia, Pennsylvania 19104  
Equal Opportunity/Affirmative Action Employer**

### PARASITE NEUROBIOLOGY

Predocotoral fellowships are available for studies on the interaction of drugs with parasitic helminths. Neurophysiological and biophysical techniques will be emphasized in analyzing this interaction. *An Equal Opportunity Employer.* Contact either:

**Dr. R. Pax  
Department of Zoology, or  
Dr. J. L. Bennett  
Department of Pharmacology  
Michigan State University  
East Lansing, Michigan 48824**

To immunologist, Ph.D., 2-year **POSTDOCTORAL FELLOWSHIP** in viral immunology, available 1 July 1978 at Jules Stein Eye Institute, University of California, Los Angeles (UCLA). Eligibility limited to United States citizens and permanent residents. Position should attract someone wishing to work on cellular immunity in herpesvirus infections. Send résumé, statement of research interest, and names of three references to: **Dr. Roberta Meyers, Jules Stein Eye Institute, UCLA School of Medicine, Los Angeles, Calif. 90024. Equal Opportunity/Affirmative Action Employer.**

## FELLOWSHIPS

**POSTDOCTORAL FELLOWSHIP IN PHYSICAL OCEANOGRAPHY.** The University of Québec at Rimouski has a postdoctoral position available in the oceanographic section. Applicants should have a Ph.D. degree in physical sciences and a good background in geophysical fluid dynamics, applied mathematics, time series data analysis, and should be willing to work with a multidisciplinary team. Preference will be given to applicants with some knowledge of the French language. The appointment will be for a 1-year term with possible renewal for a second year to be considered at the end of that term. Reply by 15 February 1978, with curriculum vitae, publications, and three referee names to: **Director, Section d'Océanographie, Université du Québec à Rimouski, Rimouski, Québec, Canada G5L 3A1.**

**PREDOCOTORAL FELLOWSHIPS** in molecular biology. The Graduate Program in Molecular Cell Biology invites applications from highly qualified students interested in an interdisciplinary Ph.D. program. Major areas of emphasis include animal virology, bacterial and somatic cell genetics, cancer biology, cellular immunology and immunochemistry, connective tissue and protein biochemistry, infectious diseases and host defense, membrane biochemistry, nucleic acid synthesis, and research involving the cause and prevention of dental caries. All students admitted to the program receive stipends (\$5000 plus per year). Contact: **Co-Director of Graduate Studies, Department of Microbiology, University of Alabama in Birmingham Medical Center, Birmingham, Alabama 35294.**

**BEHAVIORAL ASPECTS OF CARDIOVASCULAR DISEASE: POSTDOCTORAL AND PREDOCOTORAL FELLOWSHIPS.** Positions available 1 July 1978, under a National Institute for Heart, Lung and Blood Diseases award providing training in behavioral aspects of cardiovascular diseases. Training will permit concentration in behavioral determinants of CV disease, including risk factor behaviors as well as the role of life style and stress; behavioral factors in the treatment of CV disease, including problems of adherence to treatment regimens and behavioral therapies for obesity, smoking, hypertension, and so forth; and adaptation to chronic CV diseases. Postdoctoral fellows will include promising researchers from both the behavioral and clinical sciences, including the Ph.D. in psychology, sociology, pharmacology, and nutrition, the M.D., and the Pharm. D. Predocotoral applicants must hold the master's degree or equivalent. Contact: **C. Anderson Johnson, Ph.D., Codirector, Interdisciplinary Program in Human Health Behavior, Box 715 University Hospitals, University of Minnesota, Minneapolis, Minn. 55455. An Equal Opportunity Employer.**

### UNIVERSITY OF MELBOURNE POSTDOCTORAL RESEARCH FELLOWSHIP in the DEPARTMENT OF MICROBIOLOGY

Applications are invited from Ph.D. graduates for the above position which is funded by the Australian National Health and Medical Research Council and is available from January 1978 or soon after. The candidate will participate in a programme to develop continuous cell lines derived from immune lymphocytes. Previous experience in cytology, especially in the use of fusion hybrid techniques, would be an advantage. The position is available for 2 years with the possibility of renewal. Salary: \$17,279 per annum.

Enquiries will be welcomed by: **Dr. W. Boyle, Department of Microbiology, University of Melbourne, Parkville, Victoria, 3052, Australia.** Applications referring to position number 526 355 should be addressed to: **The Registrar, University of Melbourne, Parkville, Victoria, 3052, Australia.**

### DEPARTMENT OF MICROBIOLOGY DALHOUSIE UNIVERSITY HALIFAX, NOVA SCOTIA, CANADA

Applications are invited for **postdoctoral fellowships** to study viral pathogenesis with special emphasis on the role of interferon. Fellowships beginning 1 July 1978 are available for a period of 2 years with an initial stipend of \$12,720 per annum. Candidates should have research experience in the field of animal virology, preferably with an interest in the biochemistry of nucleic acid biosynthesis. Applications, consisting of curriculum vitae and names of two referees, should be sent not later than 30 March 1978 to: **Dr. K. R. Roze, Professor and Head, Department of Microbiology, Faculty of Medicine, Dalhousie University, Halifax, Nova Scotia, Canada B3H 4H6.**

## FELLOWSHIPS

Two-year **POSTDOCTORAL FELLOWSHIP** in biochemistry/cell biology available 1 July 1978 at the Jules Stein Eye Institute, University of California, Los Angeles (UCLA). Eligibility limited to United States citizens and permanent residents. Position should attract someone wishing to work on mechanism of phagocytosis and/or chemistry of plasma membranes. Send résumé, statement of research interest, and names of three references to: **Dr. Michael Hall, Jules Stein Eye Institute, UCLA School of Medicine, Los Angeles, Calif. 90024. An Affirmative Action/Equal Opportunity Employer.**

### VISITING SCHOLARS IN COGNITIVE SCIENCE

A new Program in Cognitive Science, emphasizing cross-disciplinary study of memory and language, offers six fellowships starting June 1978, for 6 to 18 months, based on \$15,000 per year. Several conferences and a 6-week workshop (summer 1979) supplement the program. Applicants with strong substantive interest in cognitive science and relevant training should write, including brief résumé and names of three references, to: **Donald A. Norman, Program in Cognitive Science, Center for Human Information Processing C009, University of California, San Diego, La Jolla, Calif. 92093.**

*Equal Opportunity/Affirmative Action Employer*

### MUSCLE PHYSIOLOGY

Persons with a doctoral degree interested in a 2-year **postdoctoral fellowship** to study the calcium and enzymatic control of cardiac and skeletal muscle contraction should please send a résumé, including references, to **Dr. Glenn L. Kerrick** at the address below.

### MICROCIRCULATION PHYSIOLOGY

Persons with a doctoral degree interested in a 2-year **postdoctoral fellowship** to study microcirculatory control and exchange should please send a résumé, including references, to **Dr. Curt A. Wiederhielm** at the address below.

### CORONARY PHYSIOLOGY

Persons with a doctoral degree interested in a 2-year **postdoctoral fellowship** to study the control of the coronary circulation should please send a résumé, including references, to **Dr. Eric O. Feigl** at the address below.

### MUSCLE PHYSIOLOGY

Persons with a doctoral degree interested in a 2-year **postdoctoral fellowship** to study mechanisms of contraction and relaxation in skeletal and cardiac muscle should please send a résumé, including references, to **Dr. Albert M. Gordon** at the address below.

**Department of Physiology and Biophysics SJ-40  
University of Washington Medical School  
Seattle, Wash. 98195**

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## MARKET PLACE

### FOR SALE

**NMR Spectrometer In Excellent Condition**  
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## AQUATIC BIOLOGIST

Will be capable of lead technical responsibility for managing aquatic data collection and impact analysis in support of power related environmental reports. Background in statistics and mathematical modeling desirable and knowledge of 316(a) and 316(b) permit procedures essential. M.S. Degree in Biology and 5 to 8 years' related experience required.

Please forward resume and recent salary history to:

**Mr. David Mattair**  
Manager Industrial Relations



**100 Summer Street, Boston, MA 02110**

An Equal Opportunity Employer M/F

## CAREER OPPORTUNITIES

### Immunology, Allergic and Immunologic Diseases Program

The National Institute of Allergy and Infectious Diseases is seeking candidates for the following two positions:

#### ASSISTANT CHIEF

##### Genetics and Transplantation Biology Branch

M.D., D.O. or equivalent in a biomedical science with training and experience in clinically relevant immunology, surgical transplantation or immunopathology, and immunogenetics. Position involves research grant activities, design and monitoring of collaborative studies, administrative functions as contracts project officer, initiation of programs for reagent procurement and establishment of research resources in areas concerned with organ transplantation, histocompatibility tissue typing, genetic-disease associations, genetic immunodeficiency disorders, and histocompatibility antigen studies.

#### PROGRAM OFFICER

##### Immunology, Allergic and Immunologic Diseases Program

M.D. or D.O. with training and experience in allergy and clinical immunology. Position involves research grant activities, design of collaborative studies, development of basic and clinical programs identification or reagent and resource needs for research, clinical investigations, and training in allergic and immunologic diseases; direction of conferences and liaison with Asthma, Allergic and Immunologic Diseases Centers.

These are career Civil Service positions with salary range of \$37,925 to \$47,150 and \$40,995 to \$47,500 respectively dependent upon qualifications and eligibility. Appointment may also be made in the U.S. Public Health Service Commissioned Corps.

Interested applicants should submit a curriculum vitae, bibliography and SF-171 by February 20, 1978 to: Ms. Elizabeth Holmes, Personnel Office, National Institute of Allergy and Infectious Diseases, National Institutes of Health, Public Health Service, Rm. 7A33, Bldg. 31, 9000 Rockville Pike, Bethesda, Md. 20014. An Equal Opportunity Employer

### NATIONAL INSTITUTES OF HEALTH

## ASSISTANT SCIENTIST OR ASSOCIATE SCIENTIST

Applicants are invited to apply for a staff position in nearshore geology at the Woods Hole Oceanographic Institution. The applicant should have training and experience in documenting and qualifying nearshore processes. Most research should be oriented towards estuarine and beach environments, although interaction with our deep-water sedimentologists is encouraged. Rank and salary are open and will be commensurate with the experience of the successful applicant. A Ph.D. or equivalent is expected. Applicants should send curriculum vitae, transcripts and three letters of recommendation to:



**PERSONNEL MANAGER**  
Personnel Department  
**WOODS HOLE OCEANOGRAPHIC INSTITUTION**  
Woods Hole, MA 02543

An Equal Opportunity Employer M/F

## HEAD DEPARTMENT OF GEOLOGY UNIVERSITY OF ILLINOIS AT URBANA-CHAMPAIGN

The Department of Geology of the University of Illinois at Urbana-Champaign invites applications for the position of Head of the Department of Geology. Candidates should have the Ph.D. and a demonstrable record of excellence in research and professional leadership in the geological sciences.

The Geology Department currently has 19 full-time faculty members and grants degrees at the Bachelor's, Master's and Doctoral levels. The Head is responsible for maintaining a high standard of quality in both teaching and research within the Department.

Appointment will normally be made at the rank of Full Professor; salary is open. For equal consideration, applications should be received by March 1, 1978. The desired starting date is August 21, 1978. The University of Illinois is an equal opportunity/affirmative action employer. Interested persons should submit a letter of application, vitae and names of references to the Chairperson of the Search Committee:

Professor Charles Wert  
Head, Department of Metallurgy and Mining Eng.  
201 Metallurgy and Mining Building  
University of Illinois at Urbana-Champaign  
Urbana, Illinois 61801

(217)333-1440



Photomicrograph by John Delly,  
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