

## BOOKS RECEIVED

(Continued from page 260)

seph C. Daniel, Jr., Ed. Academic Press, New York, 1978. xviii, 566 pp., illus. \$39.50.

**Microbiology.** An Environmental Perspective. Paul Edmonds. Macmillan, New York, and Collier Macmillan, London, 1978. xiv, 368 pp., illus. \$14.95.

**Middle East Sport Science Symposium Journal.** Vol. 1. Papers from a symposium, Manama, Bahrain, June 1977. Thomas P. Rosandich and Robert F. Greene, Eds. United States Sports Academy, University of South Alabama, Mobile, 1978. xviii, 288 pp., illus. Paper, \$8.25.

**The Mind in Sleep.** Psychology and Psychophysiology. Arthur M. Arkin, John S. Antrobus, and Steven J. Elman, Eds. Erlbaum, Hillsdale, N.J., 1978 (distributor, Halsted [Wiley], New York). xvi, 654 pp. \$29.95.

**Modern Switching Theory and Digital De-**

**sign.** Samuel C. Lee. Prentice-Hall, Englewood Cliffs, N.J., 1978. xiv, 498 pp., illus. \$22.95.

**Mycotoxic Fungi, Mycotoxins, Mycotoxicoses.** An Encyclopedic Handbook. Vol. 3, Mycotoxicoses of Man and Plants: Mycotoxin Control and Regulatory Aspects. Thomas D. Wyllie and Lawrence G. Morehouse, Eds. Dekker, New York, 1978. xxviii, 202 pp., illus. \$45.

**"Nature to be Commanded . . .".** Earth-Science Maps Applied to Land and Water Management. G. D. Robinson and Andrew M. Spieker, Eds. U.S. Geological Survey, Reston, Va., 1978 (available from Branch of Distribution, USGS, 1200 South Eads Street, Arlington, Va.). iv, 96 pp., illus. Paper, \$6.25. Geological Survey Professional Paper 950.

**Organism, Medicine, and Metaphysics.** Essays in Honor of Hans Jonas on His 75th Birthday, May 10, 1978. xxviii, 330 pp. \$24.50. Philosophy and Medicine, vol. 7.

**Pathology of Cerebrospinal Microcircula-**

**tion.** Proceedings of a symposium, Berlin, Sept. 1977. J. Cervós-Navarro, E. Betz, G. Ebhardt, R. Ferszt, and R. Wüllenweber, Eds. Raven, New York, 1978. xxvi, 606 pp., illus. \$45. Advances in Neurology, vol. 20.

**Pattern-Directed Inference Systems.** Papers from a workshop, Honolulu, May 1977. D. A. Waterman and Frederick Hayes-Roth, Eds. Academic Press, New York, 1978. xiv, 658 pp. \$33.

**Perception and Experience.** Richard D. Walk and Herbert L. Pick, Jr., Eds. Plenum, New York, 1978. xxiv, 432 pp., illus. \$25. Perception and Perceptual Development, vol. 1.

**Personality, Motivation, and Achievement.** John W. Atkinson and Joel O. Raynor with contributions by David Birch and Marina Souretis Horner. Hemisphere, Washington, D.C., and Halsted (Wiley), New York, 1978. x, 272 pp., illus. Paper, \$10.95.

**Pharmacokinetics.** H. Schönfeld, Ed. Karger, Basel, 1978. xii, 320 pp., illus. \$86.75. Antibiotics and Chemotherapy, vol. 25.

**Physical Chemistry and its Biological Applications.** Wallace S. Brey. Academic Press, New York, 1978. xii, 590 pp., illus. \$14.95.

**Physical Geography.** A Laboratory Manual. John J. Hidore and Michael C. Roberts. Burgess, Minneapolis, ed. 2, 1978. viii, 220 pp., illus. Paper, \$8.95.

**Placodermi.** Robert Denison. Gustav Fischer, New York, 1978. vi, 128 pp., illus. \$65.70. Handbook of Paleozoichthyology, vol. 2.

**Planetary Nebulae.** Observations and Theory. Papers from a symposium, Ithaca, N.Y., June 1977. Yervant Terzian, Ed. Reidel, Boston, 1978. xxii, 376 pp., illus. cloth, \$37; paper, \$24. International Astronomical Union Symposium No. 76.

**Planning for Water Reuse.** Duane D. Baumann and Daniel M. Dworkin, Eds. Maaroufa Press, Chicago, 1978. xii, 200 pp., illus. \$22.95.

**Planning Fundamentals of Thermal Power Plants.** F. S. Aschner. Halsted (Wiley), New York, and Israel Universities Press, Jerusalem, 1978. xii, 728 pp., illus. \$95.

**Polymer Stress Reactions.** Vol. 1, Introduction. Antonio Casale and Roger S. Porter. Academic Press, New York, 1978. xviii, 252 pp., illus. + index. \$21.

**Prediction and Improved Estimation in Linear Models.** John Bibby and Hele Toutenburg. Wiley-Interscience, New York, 1978. xiv, 188 pp. \$18.50.

**Principles of Behavioral Assessment.** Stephen N. Haynes. Gardner Press, New York, 1978 (distributor, Halsted [Wiley], New York), xii, 530 pp. \$23.50.

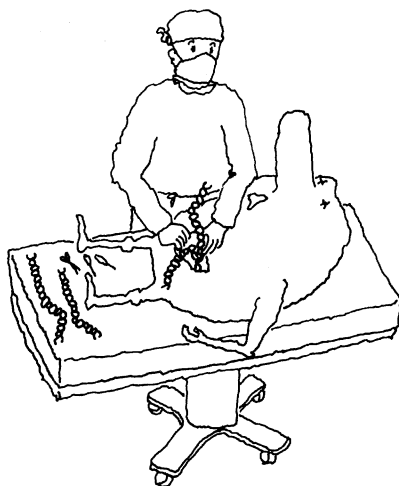
**Proceedings of the First Conference on Radiocarbon Dating with Accelerators.** Rochester, N.Y., Apr. 1978. H. E. Gove, Ed. University of Rochester Nuclear Structure Research Laboratory, Rochester, N.Y., 1978. x, 402 pp., illus. Paper, \$20.

**Solar Heated Buildings of North America.** 120 Outstanding Examples. William A. Shurcliff. Brick House Publishing Co., Harrisville, N.H., 1978. xvi, 296 pp., illus. Paper, \$8.95.

**Some Modern Methods of Organic Synthesis.** W. Carruthers. Cambridge University Press, New York, ed. 2, 1978. xii, 532 pp., illus. Cloth, \$59.50; paper, \$15.95. Cambridge Texts in Chemistry and Biochemistry.

**Sourcebook on the Environment.** A Guide to the Literature. Kenneth A. Hammond, George Macinko, and Wilma B. Fairchild, Eds. University of Chicago Press, Chicago, 1978. x, 614 pp. \$20.

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## POSITIONS WANTED

**Environmental Microbiologist.** Ph.D. 1978, biologist M.S., and industrial research experience in water recycling, mine acid, biological waste management. Seeks industrial, utility, government, or institute R & D position. Box 21, SCIENCE. X

**Forester/Soil Scientist.** M.S. 1976. Seeking research or analytical position. Experience: strip-mine reclamation research. Analysis of water, soil, plants, sewage sludge, and sediment. Setting up and maintenance of a laboratory. Box 22, SCIENCE. X

**Nutrition.** Ph.D. 1975. Postdoctoral experience. University teaching in application of nutrition to health sciences. Publications on trace metal nutrition. Available after June 1979. Box 20, SCIENCE. X

**Pharmacologist.** Ph.D. Broad experience in pharmaceutical industry and tenured academic appointment in clinical department of medical school. More than 50 publications encompassing basic and clinical drug development. Seeks administrative or management position in university or industry. Box 23, SCIENCE. X

## POSITIONS OPEN

The Department of Neurology at the University of California, Los Angeles (UCLA), School of Medicine is seeking a qualified applicant for the position of **ADJUNCT ASSOCIATE PROFESSOR**. Applicant must have a Ph.D. degree and will conduct research on response properties of normal and abnormal hippocampal neurons in animals and men. Teaching requirements will include format course presentation in the neurosciences and supervision of postdoctoral scholars. Applicants are requested to submit a curriculum vitae to: **Richard D. Walter, M.D., Chairman, Department of Neurology, UCLA School of Medicine, Los Angeles, California 90024. UCLA is an Equal Opportunity/Affirmative Action Employer and is desirous of receiving applications from minority and women candidates as well as other qualified persons.**

## POSITIONS OPEN

**ACADEMIC PATHOLOGIST**—The University of Southern California School of Medicine and Los Angeles County-University of Southern California Medical Center invite applications for a staff pathologist. This is an academic position which will carry the rank of assistant professor; a special interest in renal and pulmonary pathology is necessary. Applicant must have a strong interest in teaching and scholarly activity and must have a California license. Reply to: **Chairman, Department of Pathology, University of Southern California, 2025 Zonal Avenue, Los Angeles, California 90033.**

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

**ADMINISTRATOR**—Department of Microbiology and Public Health, Michigan State University. To manage multimillion-dollar department. Duties include: managing departmental budget and equipment acquisition, overseeing maintenance of physical facilities, implementing biological safety guidelines, supervising nonacademic technical personnel, advising faculty on research grant proposals, and implementing/interpreting university policies. Will report to the chairman but will be expected to exercise considerable independence. An advanced degree (preferably Ph.D.) in biological science plus teaching, research, or administrative experience is required. Ability to communicate with faculty, staff, and administrative officers of the university. Send curriculum vitae and names of three references to: **Chairman, Administrator Search Committee, Department of Microbiology and Public Health, Michigan State University, East Lansing, Mich. 48824. An Equal Opportunity/Affirmative Action Employer.**

## ANATOMY FACULTY POSITIONS

Applications are invited for two permanent positions available in 1979. The Texas College of Osteopathic Medicine (TCOM) is a young, growing, state-supported medical school located in the Dallas-Fort Worth Metroplex. One position is in **NEUROANATOMY/NEUROBIOLOGY** while the second is for a **GROSS ANATOMIST** capable of participating in embryology or histology. Duties associated with each position include teaching in the medical-graduate program and productive research. Submit curriculum vitae, a statement of professional interests, and three letters of reference to: **Department of Anatomy, Texas College of Osteopathic Medicine, Camp Bowie at Montgomery, Fort Worth, Texas 76107. TCOM is an Equal Opportunity Employer.**

## ANATOMY

A full-time position to teach courses in general and ocular anatomy will be available 1 July 1979. Ph.D. required. Applicants should have a strong commitment to teaching and research. Please send curriculum vitae to: **Douglas H. Poorman, Ph.D., Dean of Academic Affairs, Southern California College of Optometry, 2001 Associated Road, Fullerton, California 92631. Southern California College of Optometry is an Equal Opportunity Employer, M/F.**

## UNIVERSITY OF MINNESOTA

**ANTHROPOLOGIST, ASSISTANT PROFESSOR**, tenure-track. Salary competitive. Begin September 1979—Ph.D. required for application. Up to 2 years of postdegree teaching experience desirable. Topical interests in nutrition, epidemiology, demography, the nature of health/disease, or related medical specialties. Research and teaching excellence sought. Send curriculum vitae, copies of published and unpublished work, three letters of reference, and graduate transcripts to: **Search Committee, Department of Anthropology, 215 Ford Hall, University of Minnesota, Minneapolis 55455. Deadline for completed applications: 28 February 1979. The University of Minnesota is an Equal Opportunity/Affirmative Action Employer.**

**AQUATIC MICROBIOLOGIST.** To develop programs in:

- 1) viruses or microbial pathogens in estuarine/marine systems,
- or
- 2) estuarine/marine microbial ecology, particularly heterotrophic processes.

This is a tenure-track faculty position; rank open. Primary emphasis on research productivity. Experience in aquatic ecology desirable.

Send letter of application and curriculum vitae, and arrange for three letters of evaluation to be sent to: **Chairman, Search Committee, Chesapeake Biological Laboratory, University of Maryland, Solomons, Maryland 20688. Closing date: 15 March.**

## POSITIONS OPEN

**Announcing openings for: ANATOMIST, PHYSIOLOGIST, VIROLOGIST.**

The College of Osteopathic Medicine and Surgery in Des Moines, Iowa, has openings in the discipline of anatomy, the discipline of physiology/pharmacology, and the discipline of microbiology. All three positions require a person with a strong commitment to teaching and research. Candidates will be expected to be capable of obtaining extramural funding. Established investigators are encouraged to apply. Excellent research facilities are available. Interim funding is available to facilitate transfer of an ongoing project. Salary and rank are negotiable and will be based on experience and potential. Teaching responsibilities for the anatomist will be in histology with some responsibility in either gross or neuro. Teaching responsibilities for the physiologist will be in the area of neurophysiology and in another area such as cardiovascular. Teaching and research for the microbiologist will be in the area of virology. Clinical virology experience would be very helpful. The college has an excellent fringe benefits program. *Equal Opportunity Employer.* Interested candidates please send curriculum vitae to: **Paul E. Benoit, Ph.D., Associate Dean for Pre-Clinical Affairs, College of Osteopathic Medicine and Surgery, 3200 Grand Avenue, Des Moines, Iowa 50312.**

## ANATOMY—ASSISTANT PROFESSOR UNIVERSITY OF WISCONSIN —MADISON

Position available 1 July 1979 for a person with Ph.D. or M.D. to teach allied health undergraduate courses in anatomy. Evidence of a strong research program and interest in graduate training are required. Research area is open but some preference may be given to cell or developmental biology and muscular or nervous systems. Curriculum vitae and letters of reference must be sent before 5 April 1979 to:

**Dr. David D. Slautterback  
447 Bardeen Laboratories  
Anatomy Department**

## UNIVERSITY OF WISCONSIN —MADISON

**Madison, Wisconsin 53706**

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

**Position announcement: VISITING ASSISTANT PROFESSOR.** One-year temporary appointment, September 1979–1980, to teach undergraduate courses in general microbiology. Ph.D. required; postdoctoral experience desirable. Research facilities available. Contact: **Dr. Raymond C. Jackson, Chairperson, Department of Biological Sciences, Texas Tech University, Lubbock, Texas 79409. Texas Tech University is an Affirmative Action/Equal Opportunity Employer.**

## ASSISTANT PROFESSOR

The Sidney Farber Cancer Institute is recruiting candidates for basic science positions at the assistant professor level in the areas of somatic cell genetics and molecular genetics of eukaryotes. Demonstrated outstanding research ability is essential. Candidates will establish their own programs of research and are expected to seek outside funding. A concomitant appointment with an academic department at Harvard Medical School will be required. Send curriculum vitae, list of publications, names of references, and summary of proposed research to:

**Dr. Arthur B. Pardee, Director  
Laboratory of Tumor Biology  
Sidney Farber Cancer Institute  
44 Binney Street  
Boston, Massachusetts 02115**

*An Affirmative Action/Equal Opportunity Employer*

## ASSISTANT PROFESSOR AND ASSOCIATE PROFESSOR/PROFESSOR

In areas of (i) human genetics (human biochemical genetics or chromosome structure and function), and (ii) gene regulation or developmental and molecular genetics of other (lower) eukaryotic organisms. Full-time positions that involve teaching and independent research. Send curriculum vitae and bibliography to:

**Dr. Stanley N. Cohen, Chairman  
Department of Genetics  
Stanford University Medical Center  
Stanford, California 94305**

*Stanford University is an Equal Opportunity Employer and we welcome nominations of and applications from women and minority group members.*

## POSITIONS OPEN

**ASSISTANT PROFESSOR**, University of Connecticut, Health Center. The Department of Oral Biology is seeking a biochemical or biochemically trained cellular immunologist or a neurobiologist to initiate a research and teaching program in his/her specialty. Postdoctoral experience, publications, and the potential to attract research funding required. Send curriculum vitae and three references to: **Dr. G. A. Rodan, University of Connecticut, Health Center, Farmington, Conn. 06032. An Equal Opportunity/Affirmative Action Employer, M/F.**

**ASSISTANT PROFESSORSHIP IN ANATOMY.** Requires Ph.D. in anatomy (or equivalent expertise), teaching experience in human gross anatomy, and research experience in biomechanics. Teach undergraduate and graduate human gross anatomy (and related canine anatomy). Develop research program in biomechanics directly related to human and animal physical fitness. Academic year appointment. Starting date: 15 May 1979. Salary: \$18,000. Send inquiries and/or application, including résumé and three reference letters, by 15 March 1979 to: **Screening Committee, Department of Anatomy, College of Veterinary Medicine and Biomedical Sciences, Colorado State University, Fort Collins, Colorado 80523; telephone: 303-491-5036. The University is an Equal Opportunity/Title IX Employer; Equal Opportunity Office: 314 Student Services Building.**

**ASSISTANT PROFESSOR FACULTY POSITION—**The Animal Science Department of Iowa State University is seeking an individual with a Ph.D. degree in reproductive physiology for a position consisting of approximately 40 percent teaching and 60 percent research. Undergraduate teaching responsibilities will include laboratory and lecture courses in physiology of reproduction in farm animals and advising undergraduate students. Research in basic aspects of reproduction in farm and laboratory animals. Research emphasis should include physiological and biochemical aspects of problems dealing with reproductive efficiency in farm animals. Send résumé, a list of publications, and a minimum of three references to: **Dr. S. A. Ewing, Head, Animal Science Department, 101 Kildee Hall, Iowa State University, Ames, Iowa 50011. Affirmative Action/Equal Opportunity Employer.**

The Department of Biology anticipates an opening for a tenure-track **ASSISTANT PROFESSOR** commencing August 1979. Responsibilities include development of a research program in animal physiology and teaching in physiology courses. The Ph.D. in animal physiology is required. Postdoctoral experience is preferred. Send curriculum vitae, list of three references, and statement of research interests by 1 March 1979 to: **Search Committee, Department of Biology, New Mexico State University, Las Cruces, N.M. 88003. An Affirmative Action/Equal Opportunity Employer**

**ASSISTANT PROFESSOR OF CHEMISTRY.** Tenure-track. August 1979. Ph.D. required. Teach general chemistry and advanced undergraduate courses. Supervise undergraduate research. Must be committed to quality liberal arts education. Send letter of interest, résumé, and three letters of recommendation by 19 February, to: **Dr. Dennis M. Travis, Dean, College of Arts and Sciences, Millikin University, Decatur, Illinois 62522. Millikin University is an Affirmative Action/Equal Opportunity Employer.**

**ASSISTANT PROFESSOR IN PHYSIOLOGY.** The Physiology Department of the West Virginia School of Osteopathic Medicine invites applications for the position of assistant professor in physiology, available immediately. Duties include teaching in the areas of genitourinary, gastrointestinal, and mechanical aspects of musculoskeletal physiology, using an organ system approach to the teaching of medicine. Research facilities are available and research is encouraged. Send curriculum vitae and names of three references to: **Michael K. Cope, Ph.D., Acting Chairman, Department of Physiology, West Virginia School of Osteopathic Medicine, 400 North Lee Street, Lewisburg, West Virginia 24901. An Affirmative Action/Equal Opportunity Employer.**

**ASSISTANT SCIENTIST** to investigate strategies to minimize pollution of groundwater. Ph.D. in physical sciences. Applicant must have strong background in physics and chemistry and have the ability to initiate, conduct, and conclude significant field and laboratory studies. Send application to: **Dr. C. R. Frink, Chief, Department of Soil and Water, The Connecticut Agricultural Experiment Station, P.O. Box 1106, New Haven, Conn. 06504.**

*An Equal Opportunity/Affirmative Action Employer*

## POSITIONS OPEN

### ASSISTANT PROFESSOR— MOLECULAR GENETICS

The Genetics Program at the University of Georgia has one(two) position(s) available at the level of assistant professor beginning 1 September 1979. Applications are invited from individuals with a strong commitment to research in molecular genetics. While the specific area of research is not restricted, preference will be given to candidates planning active research programs in the areas of protein synthesis, genetic regulation, or DNA-protein interactions. Teaching responsibilities will include participation in courses in nucleic acid biochemistry, molecular genetics, and introductory genetics.

Interested candidates should submit, by 16 February 1979, complete curriculum vitae, including a list of publications and a brief statement of research plans. Applicants should also arrange to have three letters of reference sent to: **Search Committee, Genetics Program, Division of Biological Sciences, Room 400 Biological Sciences Building, University of Georgia, Athens, Georgia 30602. The University of Georgia is an Equal Opportunity/Affirmative Action Employer.**

### ASSISTANT PROFESSOR OF PHARMACOLOGY

Applications are invited by the Department of Pharmacology at the University of Missouri-Columbia for the position of assistant professor. The applicant should possess the Ph.D. in pharmacology, biochemistry, or a related discipline, should have completed approximately 3 years of postdoctoral research experience, should have demonstrated excellence in research, and should have an active interest in teaching medical and graduate students. The area of research interest is of less importance than the applicant's ability. The position is available 1 June 1979. Closing date for receipt of applications is 15 February 1979. Please send complete curriculum vitae, list of publications, and at least two letters of reference to: **Dr. Murray Heimberg, Chairman, Department of Pharmacology, University of Missouri, School of Medicine, Columbia, Missouri 65212. The University of Missouri is an Equal Opportunity/Affirmative Action Employer.**

Scripps Institution of Oceanography has a possible opening for a postdoctoral position as **ASSISTANT RESEARCH GEOCHEMIST I**, \$17,500, to participate in grant-supported laboratory program using stable isotope variations to study environmental and atmospheric chemistry. Appointment beginning immediately, for 1 to 2 years, possibly longer. Candidates should have Ph.D. in physical, nuclear, or geochemistry or physics, with publications, an experience in analytical work involving mass spectrometry or low-level counting. Experience with study of glacial ice samples is desirable. Send résumés and references to: **M. Atwell, A-020, Geological Research Division, Scripps Institution of Oceanography, La Jolla, California 92093. The University of California is an Equal Opportunity Employer with an Affirmative Action Program. Women and minorities are encouraged to apply.**

### BIOCHEMISTRY FACULTY POSITION

The Department of Biochemistry is actively engaged in a search for a faculty member at the assistant or associate professor level. This position is state-funded and on a tenure-track. Candidates should have postdoctoral experience, and must provide evidence of research and scholarly productivity. Equally important is an interest in, and enthusiasm for, the academic processes. Although teaching loads are modest, expectations with regards to teaching ability are high.

The candidate's area of interest is not restricted; however, preference will be given to those candidates with competency in the general areas of molecular genetics to include the biochemistry of gene expression and regulation.

Interested candidates should send up-to-date and complete curriculum vitae along with the names of three qualified references to:

**Dr. Charles M. Baugh, Chairman  
Department of Biochemistry  
University of South Alabama  
College of Medicine  
Mobile, Alabama 36688**

Applications received after 31 March 1979 may not be considered.

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

## POSITIONS OPEN

### BEHAVIORAL PHYSIOLOGY

The Department of Biology, University of Chicago, invites applications for a faculty position in behavioral physiology. For a description of the position and application instructions, write: **Behavioral Physiologist Search Committee, Department of Biology, University of Chicago, Chicago, Ill. 60637. An Equal Opportunity/Affirmative Action Employer.**

**BIOCHEMIST.** Applications are being sought from scientists, preferably with experience with tissue culture and study of proteins and glycoproteins, to investigate cell-to-cell interactions and nerve dysfunction. The work is to be done in a separate laboratory within a multidisciplinary Peripheral Neuropathy Clinical Center at Mayo Medical School and Mayo Clinic. Only the most highly qualified and recommended applicants will be considered. Funding for the research program is available. The position could become permanent. Curriculum vitae, reprints, and three letters of reference should be sent to: **Chairman, Selection Committee, Peripheral Neuropathy Clinical Center, Room 812, Guggenheim Building, Mayo Clinic, Rochester, Minnesota 55901. Mayo is an Equal Opportunity Employer.**

**BIOCHEMIST—NUTRITION.** Ph.D. Tenure-track position beginning August 1979. Teaching responsibility to dental and allied health professional students. Potential exists to participate in graduate education. Development of an independent research program is required. Send curriculum vitae to: **Dr. Howard M. Klitgaard, Chairman, Department of Basic Sciences, Marquette University School of Dentistry, 604 North 16 Street, Milwaukee, Wis. 53233. Marquette University is an Equal Opportunity/Affirmative Action Employer.**

**BIOLOGY—**Doctorate required for position starting 16 August 1979 to teach general microbiology and general human anatomy and physiology, and develop course and research program in microbial genetics. Tenure-track position. Send résumé and three letters of recommendation by 16 March 1979 to: **Dr. Robert D. Hoyt, Department of Biology, Western Kentucky University, Bowling Green, Ky. 42101. Rank and salary dependent upon qualifications and experience. An Affirmative Action/Equal Opportunity Employer.**

**BIOLOGY—**University of North Carolina at Charlotte (UNCC) has three tenure-track positions for fall 1979. All three require the doctorate earned in the appropriate discipline prior to September 1979, and will be at beginning ranks. It is expected that individuals will develop an active research program, will participate in the core courses, and will develop and teach courses in their specialty that will complement the offerings of the undergraduate and graduate program. Positions: **animal physiology; genetics; plant physiology/morphogenesis.** Letters and résumé are to be sent to: **Dr. Roger H. Trumbore, Chairman, Biology, UNCC, UNCC Station, Charlotte, N.C. 28223. Deadline is 15 February 1979. UNCC is an Affirmative Action/Equal Opportunity Employer.**

### BIOLOGY FACULTY POSITIONS

Two tenure-track positions are available at the assistant professor level in the Biology Department of Virginia Commonwealth University. Both openings require the teaching of general biology and a course in one or more of the following areas: cell biology, animal behavior, or marine biology. Candidates will also be expected to establish active research programs. The minimum requirement for both positions is the Ph.D. Applicants should send their curriculum vitae and the name of three references to: **Dr. Peter E. Giebel, Department of Biology, Virginia Commonwealth University, Richmond, Virginia 23284. Closing date for receipt of applications is 1 March 1979. An Equal Opportunity/Affirmative Action Employer.**

**CHIEF, LABORATORY ANIMAL COLONY.** An experienced individual is sought to head an AAALAC accredited laboratory animal colony. The individual should have a minimum of 2 years of supervisory experience, knowledge of subhuman primate husbandry, certification as a laboratory animal technologist or technician, and academic experience. Send curriculum vitae and three letters of recommendation to: **Chairman, Animal Colony Advisory Committee, Texas Research Institute of Mental Sciences, 1300 Moursund Avenue, Houston, Texas 77030. An Equal Opportunity/Affirmative Action Employer.**

## POSITIONS OPEN

### NEW SOUTH WALES STATE CANCER COUNCIL SPECIAL UNIT FOR INVESTIGATION AND TREATMENT BIOMETRICIAN

The Special Unit of the New South Wales State Cancer Council, situated at the Prince of Wales Hospital, Sydney, Australia, requires the services of a biometrician to take charge of statistical aspects of the activities of both the Council and the Special Unit. Of special interest is the organization and interpretation of clinical trials, laboratory results, population surveys, and the medical records of cancer patients.

At present, statistical assistance is provided by a senior consultant, and it is expected that this relationship will be maintained and fostered. Facilities currently available within the Unit are a time sharing facility via a DIABLO 1620 console linked to CYBER 72 CDC at the University of New South Wales, and a small WANG 2000 computer.

The position requires someone with a good personality and a high degree of initiative. Postgraduate qualifications are essential and practical experience in statistics and computing is desirable.

Salary will be that of a senior scientific officer (\$16,686 to \$20,409). Conditions of employment in accordance with scientific officers (public hospital scientists) award.

Applications should contain full details of personal background, qualifications and experience, and, where appropriate, curriculum vitae.

Further information may be obtained from: **Dr. A. R. Nash, Special Unit, Prince of Wales Hospital, Randwick, Australia 2031.** Written applications to be forwarded to above address.

### DREXEL UNIVERSITY Biophysics/Physics/Atmospheric Science

Several tenure-track faculty positions are available starting fall 1979. Applications are invited from Ph.D.'s with experience in one of these three areas: (i) experimental physics (biophysics, quantum optics, solid state physics), (ii) theoretical physics (surface physics, materials, solid state with optical properties), (iii) atmospheric science (mesoscale modeling, remote sensing, satellite observations, and data analysis). Rank and salary commensurate with experience. Send résumé and references to: **Dr. William W. Eidson, Head, Department of Physics and Atmospheric Science, Drexel University, Philadelphia, Pa. 19104.** An Equal Opportunity/Affirmative Action Employer.

### BOTANIST

Applications are invited for a position in an area of organismic botany, preferably in some non-angiospermous group. In addition to developing a vigorous research program in his/her area of specialization, the successful candidate is expected to teach in the general botany program (plant kingdom) and in the general biology program (structure and function of organisms). Level of appointment is open.

Please direct applications, including names of at least three references, to:

**T. Delevoryas, Chairman  
Department of Botany  
University of Texas  
Austin, Texas 78712**

Deadline for applications is 15 February 1979.

*The University of Texas at Austin is an Equal Opportunity/Affirmative Action Employer. Women and minorities are urged to apply.*

### CARDIOVASCULAR PHARMACOLOGIST

Immediate opening available for a full-time Ph.D. pharmacologist with at least 4 years of postdoctoral experience in experimental cardiovascular pharmacology. The individual should have experience with isolated heart preparations and in surgical techniques and methodology related to the measurement of coronary artery blood flow in the ischemic and nonischemic heart. A practical knowledge of the assessment of coronary collateral blood flow with microspheres and experience with arrhythmia models is desired.

Please send résumé with three references to: **Dr. Walter L. Henry, Professor of Medicine and Chief, Division of Cardiology, University of California, Irvine, Medical Center, 101 City Drive South, Orange, California 92668.**

*Applications are invited from all qualified persons; minorities and women encouraged to apply.*

## POSITIONS OPEN

**CELL BIOLOGIST**—Tenure-track position at the assistant professor level; Ph.D. required. Expected to teach cell physiology and related courses, participate in introductory course, and supervise M.S.-level research. Training in the study of plant or animal cells at the developmental level preferred. Submit curriculum vitae, a statement of teaching and research interests, and three letters of reference to: **Dr. Anne Funkhouser, Department of Biological Sciences, University of the Pacific, Stockton, California 95211,** by 1 March 1979.

### CHAIRPERSON, DEPARTMENT OF MATHEMATICS—MARSHALL UNIVERSITY

Applicants must have an earned doctorate, teaching experience within a college mathematics department, and a record of mathematical research. Administrative experience is preferred. The position is at the rank of associate professor and is available August 1979, contingent upon funding. The department has 15 faculty members. It grants the B.A. and M.A. degrees in mathematics and offers a wide variety of service courses. Applied mathematics and statistics options for the masters program are under development. By 2 March 1979, a résumé should be sent to: **Professor David Cusick, Search Committee, Department of Mathematics, Marshall University, Huntington, West Virginia 25701.** Late applications may be considered if the position is unfilled. *Marshall University is an Equal Opportunity/Affirmative Action Employer.*

The University of Missouri, Columbia, Missouri, College of Agriculture, seeks a **CHAIRMAN** of the Department of Plant Pathology. Candidates are expected to be active in research and teaching. Send necessary papers and the names of three references to: **V. H. Dropkin, Department of Plant Pathology, 108 Waters Hall, University of Missouri, Columbia, Mo. 65211.** An Equal Opportunity/Affirmative Action Employer. *Position available September 1979.*

### DEAN COLLEGE OF SCIENCE THE UNIVERSITY OF TEXAS AT EL PASO

The University of Texas at El Paso is seeking a person to lead, administratively and academically, its College of Science which is composed of five departments: Biological Sciences, Chemistry, Geological Sciences, Mathematics, and Physics. The college has 81 tenure-track faculty positions and offers B.S. and M.S. degrees in all of its departments and a doctor of geological sciences degree. Applicants must possess a Ph.D., demonstrated administrative ability, and research and teaching experience at both the undergraduate and graduate levels so as to qualify for the rank of professor in one of the college's departments. Closing date for application is 28 February 1979, with date of appointment to be 1 June 1979, or 16 July 1979.

Each applicant should send a résumé and the names of at least three persons qualified to evaluate his/her qualifications and accomplishments to:

**Chairman  
Search Committee for a Dean, College of Science  
Office of the Vice President for Academic Affairs  
The University of Texas at El Paso  
El Paso, Texas 79968**

*The University of Texas at El Paso is an Equal Opportunity/Affirmative Action Employer.*

### DEAN OF THE GRADUATE COLLEGE UNIVERSITY OF ILLINOIS AT CHICAGO CIRCLE

The University of Illinois at Chicago Circle, one of the three campuses of the University of Illinois system, is a comprehensive university with 18 doctoral programs, 38 master's programs, and more than 3000 graduate students. It is seeking qualified candidates for the position of dean of the Graduate College, effective September 1979. Applicants and nominees must possess an earned doctorate, distinguished scholarly record, successful administrative experience in the development and maintenance of high-quality graduate programs, and demonstrated ability to generate research support and to work effectively with governmental and private agencies. The deadline for receipt of applications is 15 February 1979. Send curriculum vitae with a list of five references to: **P. L. E. Uslenghi, Chairman, Search Committee for the Dean of the Graduate College, Office of Academic Affairs, University of Illinois at Chicago Circle, Box 4348, Chicago, Illinois 60680.** *The University of Illinois is an Affirmative Action/Equal Opportunity Employer.*

## POSITIONS OPEN

**COMPARATIVE ANIMAL PHYSIOLOGIST.** Assistant professorship on tenure-track, beginning September 1979. Two years of postdoctoral experience preferred. Candidates must show evidence of ability to initiate and sustain a productive research program. Teaching duties will include a course in comparative physiology and direction of dissertation research. Salary competitive and commensurate with experience. Provide curriculum vitae, three letters of reference, and a statement of research interests by 15 March 1979 to: **Dr. Stanley Hillman, Chairman, Physiology Search Committee, Department of Biology, Portland State University, P.O. Box 751, Portland, Ore. 97207.** *Portland State University is an Equal Opportunity/Affirmative Action Employer. All interested persons are encouraged to apply.*

### DEVELOPMENTAL NEUROBIOLOGISTS DEPARTMENT OF ANATOMY UNIVERSITY OF UTAH COLLEGE OF MEDICINE

Applications are invited for several tenure-track positions at assistant and associate professor levels to begin in the 1979-1980 academic year; salaries range from \$20,000 to \$30,000, depending on rank and experience. Individuals with research interests in the development of vertebrate nervous systems should send curriculum vitae and the names of three referees to: **Dr. Marcus Jacobson, Chairman, Department of Anatomy, College of Medicine, University of Utah, Salt Lake City, Utah 84132.** *The University of Utah is an Equal Opportunity/Affirmative Action Employer.*

The Psychology Department of the University of California at Riverside (UCR) has two positions available in **DEVELOPMENTAL PSYCHOLOGY** for the 1979-1980 academic year. Candidates with subspecialty in any area of developmental psychology are encouraged to apply.

One position will be a tenure appointment, preferably at the **ASSOCIATE PROFESSOR** level. A substantial record of research productivity and teaching excellence is required.

The other position is that of **LECTURER IN PSYCHOLOGY** for the 1979-1980 academic year. Continuation beyond 1 year is a possibility. Lecturer appointments at UCR are made strictly on a year-to-year basis, and in all cases they are currently limited to a maximum of 3 years.

The Department of Psychology and the university place heavy emphasis on both research and teaching excellence at the undergraduate and graduate levels. In addition, professional, departmental, and university service is valued.

*UCR is an Equal Opportunity/Affirmative Action Employer. Minority and female candidates are encouraged to apply.*

All candidates should send their curriculum vitae and the names and addresses of three people to whom we can write for letters in your behalf to:

**Dr. Ovid Tzeng  
Chair, Search Committee  
Department of Psychology  
University of California, Riverside  
Riverside, Calif. 92521**

### DIAGNOSTIC PRODUCT TECHNICAL ASSISTANT

We are seeking a mature individual with clinical chemistry experience to assist in the responsibilities for expediting new diagnostic tests from R & D to finished products. The job will include drafting technical literature and catalogue descriptions, FDA submissions and support files, and coordination of relative auxiliary activities. Applicants should have a background in clinical chemistry or biochemistry, plus well-developed writing skills. For consideration, please forward résumé to: **Personnel Manager, Sigma Chemical Company, 3500 DeKalb Street, St. Louis, Missouri 63118.**

*An Equal Opportunity Employer, M/F*

### DIRECTOR, NUCLEAR SCIENCE AND TECHNOLOGY FACILITY

Responsible for all facility activities including a 2MW reactor. Desired qualifications include a reactor research record and ability to maintain strong relations with academic departments. Concurrent academic appointment possible. Salary range: \$26,786 to \$30,062 (12 months). Send applications to: **R. Springer, Parker Engineering, State University of New York, Buffalo, N.Y. 14214** by 15 February. *State University of New York is an Affirmative Action/Equal Opportunity Employer.*

## POSITIONS OPEN

Position in **DEVELOPMENTAL BIOLOGY** at the assistant professor level.

The person will be expected to maintain an active research program, supervise the training of graduate students, and teach a course in the molecular aspects of development.

Candidates should send curriculum vitae and a statement of research interests postmarked no later than 1 April 1979 to:

**Ross J. MacIntyre, Chairman**  
**Developmental Biology Search Committee**  
**Section of Botany, Genetics, and Development**  
**Cornell University**  
**Ithaca, New York 14853**

Three letters of recommendation should also be sent to the above address. *Cornell University is an Equal Opportunity/Affirmative Action Employer.*

### DIRECTOR THE FLORIDA STATE MUSEUM

The Florida State Museum, a division of the University of Florida, invites applications for director. Applicants should have the Ph.D. and proven administrative experience within natural history museums. Position opens 1 July 1979; salary range: \$35,000 to \$40,000. Curriculum vitae, the names of five persons who will write references for the candidate, and supporting documents should be sent to: **Dr. Jerald T. Milanich, Search Committee, Florida State Museum, Gainesville, Florida 32611.** Deadline for applications is 31 January 1979. *An Equal Opportunity/Affirmative Action Employer.*

**Position available: DIRECTOR** of the 150-acre Desert Botanical Garden in Phoenix, Arizona, a nonprofit, privately supported installation devoted to the display of desert plants and to research and education in the field of desert botany.

**Qualifications:** Degree in botany necessary; advanced degree desirable. Experience in botanical garden administration essential. Knowledge of government and private grant funding. Background in arid-land flora, especially cacti and other plants indigenous to the southwestern United States.

**Salary:** Start up to \$16,000, depending on experience.

**Responsibilities:** Overall management of the garden, working with a board of trustees and paid staff of 20. Supervision of all facilities, activities, and programs including public relations, budget, long-range planning and development, propagation, educational activities, library, herbarium, research, gift shop, special shows and exhibits, and so forth. Work closely with volunteer staff including docents. Supervise monthly magazine and contribute articles. Develop financial support from public and private sources.

**Apply to:** Selection Committee  
Desert Botanical Garden  
P.O. Box 5415  
Phoenix, Arizona 85010

**DIRECTOR OF CENTER FOR PUBLIC HEALTH STUDIES.** Appointee will direct the development of graduate and existing undergraduate programs. The tenure-track appointment will be for a 12-month period starting July 1979 at a competitive salary. Candidate should have a record of quality research, of experience in public health programs and of funded grants, should have demonstrable administrative ability, and should have experience as a faculty member in a graduate health program. Appropriate doctorate or exceptional, equivalent experience. Have three letters of recommendation and application with full professional curriculum vitae and names of two additional references sent by 23 March 1979 to: **Dr. Norman Rose, PHS Search Committee, College of Science, Portland State University, P.O. Box 751, Portland, Oregon 97207.** *An Affirmative Action/Equal Opportunity Employer.*

**ECOLOGY**—Oberlin College seeks a recent Ph.D. in ecology to replace a staff member on leave for the academic year 1979-1980. First semester teaching responsibilities include a block of lectures on evolutionary ecology (part of a team-taught introductory course) and a course in general ecology. Second semester responsibilities will be determined on the basis of departmental needs and candidate expertise. Salary will be commensurate with experience. Complete applications should be received by 5 March 1979. Inquiries should be directed 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.*

## POSITIONS OPEN

### SENIOR FACULTY POSITION SOUTHERN METHODIST UNIVERSITY BIOLOGY DEPARTMENT Available after September 1979

**DIRECTOR OF THE HERBARIUM.** Application and nominations for the position of director of the herbarium are invited. Applicants must be well established in the field, hold the Ph.D. degree, and have qualifications for a tenured appointment at the associate or full professor level. Applicants must have a commitment to undergraduate and graduate teaching, administrative and curatorial experience, and a demonstrated competence in research in the area of plant systematics. Salary and appointment date are negotiable. Salary will be commensurate with experience and level of appointment.

Faculty interest in the herbarium from the allied fields of geology and anthropology encourages cooperative activities. The herbarium's personnel includes one faculty member, one herbarium botanist, and part-time student assistants. Additions to the herbarium's staff are negotiable.

Applicants should submit a résumé, including teaching, research, administrative and curatorial experience, a short statement of research and professional goals, and names of at least three references to:

**Dr. Venita F. Allison, Chairman**  
**Department of Biology**  
**Southern Methodist University**  
**Dallas, Texas 75275**

*Southern Methodist University is an Affirmative Action/Equal Opportunity Employer who does not discriminate against the handicapped.*

**ECOLOGIST.** Ph.D. with interest in modern approaches to teaching in an undergraduate program. Teaching duties involve introductory ecology, advanced ecology and staff-taught courses (introductory biology, senior seminar, and independent study). Assistant professor; 180-acre natural preserve in adjacent county. Detailed description of duties available. Submit materials by 15 February 1979 to: **T. A. Cole, Department of Biology, Wabash College, Crawfordsville, Ind. 47933.** Starting date: 25 August 1979. *Equal Opportunity/Affirmative Action Employer.*

The Johns Hopkins University **ENVIRONMENTAL ENGINEERING FACULTY APPOINTMENT.** Teaching and research involving chemical, biochemical, and biological processes related to treatment of municipal and industrial wastes, industrial processes to assessment of environmental impact. Professor; other ranks considered commensurate with qualifications. *Johns Hopkins is an Equal Opportunity Employer.* Send résumé to: **Dr. M. Gordon Wolman, Chairman, Department of Geography and Environmental Engineering, The Johns Hopkins University, Baltimore, Maryland 21218.** Telephone: 301-338-7090.

### EXECUTIVE DIRECTOR OF NATIONAL ASSOCIATION OF BIOLOGY TEACHERS

A Selection Advisory Committee to the National Association of Biology Teachers invites nominations and applications for the position of executive director.

The National Association of Biology Teachers (NABT) is a professional organization of educators and scientists devoted to the improvement of education in the biological sciences. The association maintains its national headquarters in Reston, Virginia. It publishes *The American Biology Teacher* monthly, a newsletter bi-monthly, and sponsors an annual convention in addition to many special projects and workshops.

It is desirable for the candidate to have experience in teaching in the biological sciences, a minimum of a baccalaureate in biology or biology education, administrative achievement, and demonstrated capacity to exercise educational leadership. The new director will be expected to assume duties not later than 1 July 1979.

Nominations and applications including current résumés and references may be sent until 1 March 1979 to:

**Phillip R. Fordyce, Chairman**  
**NABT Selection Advisory Committee**  
**Room 211-N Westcott Building**  
**Florida State University**  
**Tallahassee, Florida 32306**

*An Equal Opportunity/Affirmative Action Employer*

## POSITIONS OPEN

**ENGINEER** or other professional with relevant training to direct project on toxic water pollution control for national environmental organization in Washington, D.C. Primary responsibility will be analysis of industrial toxic water pollution control capabilities. Project director will be assisted by an interdisciplinary research staff and technical consultants. Project to commence immediately with a 1-year appointment, with possibilities of renewal. Previous experience in chemical engineering or industrial water pollution control preferred. Competitive salary. **Box 18, SCIENCE.**

**ENVIRONMENTAL BIOLOGIST.** The University of Dubuque is seeking qualified applicants for an environmental biologist to begin fall 1979. Requires expertise in environmental problems and analysis. Experience outside of education in public or private sector desirable. Ph.D. preferred. Includes teaching and promotional activities in an interdisciplinary environmental science program. Send résumé and names of three references to: **Dr. David B. Straley, Biology Department, University of Dubuque, Dubuque, Iowa 52001** no later than 15 February. *An Equal Opportunity/Affirmative Action Employer.*

**EXECUTIVE DIRECTOR** for scientific society with a membership of 7,500. Minimum qualification: a knowledge of organizational management, business administration and public relations, principles and practices. Ability to generate ideas and promote and execute programs. Must have a high degree of skill in communications, both oral and written, and a proficiency in dealing with people (academic, industrial, and public officials). Academic training and/or relevant experience in the publishing field desirable. Scientific background helpful but not essential. Salary negotiable. To apply please send résumé and arrange to have three letters of reference sent to: **Dr. E. H. Glass, Chairman, Search Committee, Entomological Society of America, New York State Agricultural Experiment Station, P.O. Box 462, Geneva, New York 14456.** *The Entomological Society of America is an Affirmative Action Employer.*

**FACULTY POSITIONS: environmental health sciences.** Requirements: Doctoral degree; teaching experience desirable. Rank: Assistant professor, or higher if qualifications warrant. Research interests: Air quality, toxicology, environmental epidemiology, or other appropriate fields. Our program is based on a concern for the effects on health of the interactions of people and their environments, and emphasizes research in human communities. Please contact:

**Thomas F. Gesell, Ph.D., Chairman**  
**Environmental Health Sciences Search Committee**  
**School of Public Health**  
**The University of Texas**  
**Box 20186**  
**Houston, Texas 77025**

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

### THREE FACULTY POSITIONS DEPARTMENT OF BIOLOGY BAYLOR UNIVERSITY

Starting fall 1979

**GENETICIST.** Tenure-track position at the assistant or associate professor level. Duties include teaching a required course in introductory genetics and the development of an advanced course and an active research program. Ph.D. required, teaching experience desired.

**GENERAL BIOLOGIST.** Full-time lecturer to teach a required introductory biology laboratory course. Ph.D. desired. Successful applicant should have a record of effective teaching and a primary interest in teaching large numbers of biology majors in the laboratory setting.

**GENERAL BIOLOGIST.** Temporary lecturer for fall semester 1979 only. Duties include lecturing to two large sections of required introductory biology and an upper division course appropriate to needs of the department and experience of applicant. Ph.D. and teaching experience desired.

Send application, curriculum vitae, and three letters of recommendation to:

**Chairman, Search Committee**  
**Biology Department**  
**Baylor University**  
**Waco, Texas 76703**

*Baylor University is an Equal Opportunity Employer.*



## POSITIONS OPEN

The Department of Biology, College of Science, Texas A & M University, College Station, Texas 77843, is accepting applications for a number of tenure-track **FACULTY POSITIONS** for September 1979. Preferred specialties are in animal behavior, protozoology with training in molecular biology, invertebrate physiology, and in plant morphology with emphasis on experimental approaches. These positions are at the rank of assistant professor and candidates should have a Ph.D. with a minimum of 1 year of postdoctoral experience. High-quality research and teaching will be expected of those appointed. Teaching will be at the undergraduate and graduate levels.

Positions are available, also, for **visiting assistant professors** qualified to teach in one or more of the following areas: human anatomy and physiology, general biology, botany, and general biology laboratory coordination. Candidates for these positions must have a Ph.D.; salary: \$14,625. Time for postdoctoral research will be available in collaboration with departmental faculty members.

For all positions, send curriculum vitae, reprints, and three letters of recommendation to: **Chairman, Search Committee, Department of Biology, Texas A & M University, College Station, Texas 77843. Texas A & M is an Affirmative Action/Equal Opportunity Employer.**

**GI PHYSIOLOGIST.** The Chicago College of Osteopathic Medicine (CCOM) has an instructor or assistant professor position open in physiology starting by 1 September 1979. The position includes responsibilities for teaching and research. The primary teaching responsibility is the GI section of the medical physiology course. The applicant is expected to establish a productive research program and will be assisted with seed money. Postdoctoral experience desirable. Send letter of application, curriculum vitae, and two reference letters to: **Dr. Robert S. Tarr, Department of Physiology, Chicago College of Osteopathic Medicine, 1122 East 53 Street, Chicago, Illinois 60615. CCOM is an Equal Opportunity/Affirmative Action Employer.**

## POSITIONS OPEN

### FACULTY POSITIONS, DEPARTMENT OF HEALTH ADMINISTRATION AND EDUCATION

The newly formed department has two vacancies. The first position requires a minimum of a master's degree and practical experience in health care administration or equivalent education and experience. Candidates should have a special concern for health planning and long-term care administration.

The other position also requires a minimum of a master's degree. Candidates should be specialists in community health education and possess teaching and/or field experience.

Salary and rank for these positions are dependent upon qualifications. Closing date for receipt of applications is 1 March 1979. Send applications to:

**Donna Paske  
College of Health-Related Professions  
Wichita State University  
Wichita, Kansas 67208  
An Affirmative Action Employer**

**FACULTY POSITION—BIOCHEMICAL TOXICOLOGY.** The Department of Biochemistry, Virginia Polytechnic Institute and State University (VPI & SU), is seeking applicants for a 12-month tenure-track appointment at the level of assistant or associate professor. Applicants should be qualified to teach biochemistry courses at the undergraduate and graduate levels. Only candidates who have demonstrated excellence in research and who are prepared to establish an active research program in biochemical toxicology will be considered. Some initial research support and access to biohazard research facilities will be made available to the successful candidate. Preference will be given to individuals who received graduate and postdoctoral training in strong research environments. For full consideration, curriculum vitae, a list of publications, a brief description of research plans, and three letters of reference should be sent by 31 March 1979 to: **Bruce M. Anderson, Head, Department of Biochemistry, VIRGINIA POLYTECHNIC INSTITUTE AND STATE UNIVERSITY, Blacksburg, Va. 24061. VPI & SU is an Affirmative Action/Equal Opportunity Employer.**

## POSITIONS OPEN

### FACULTY POSITION, BIOHAZARD SCIENCE

The University of North Carolina at Chapel Hill, School of Public Health, is seeking qualified candidates for a faculty position in the Department of Parasitology and Laboratory Practice to develop and direct a new graduate program in biohazard science. Rank and salary will be dependent on qualifications.

Qualifications: Earned doctorate in biological science; experience in teaching and in institutional biosafety program; and proven research capability.

Deadline for application: 1 March 1979. Request further information from or submit résumé and three reference letters to: **Dr. C. H. Okey, University of North Carolina at Chapel Hill, Rosenau Hall 201H, Chapel Hill, N.C. 27514.**

*An Equal Opportunity/Affirmative Action Employer*

### FACULTY POSITION IN PHARMACOLOGY NORTHEASTERN OHIO UNIVERSITIES COLLEGE OF MEDICINE

Applications are invited for position of assistant professor of pharmacology with special consideration to individuals with research and teaching experience in cardiovascular-renal pharmacology. Applicants should have a Ph.D. in pharmacology, M.D. degree, or equivalent. Successful candidate will be expected to develop an independent research program in area of his/her choice and to share teaching responsibilities for medical and graduate students within the Northeastern Ohio Universities College of Medicine, its consortium universities (University of Akron, Kent State University, Youngstown State University), and teaching hospitals in Akron, Canton, and Youngstown.

Interested individuals should send curriculum vitae and names of three references to: **Charles V. Blair, Vice Provost for Administration, Northeastern Ohio Universities College of Medicine, 4209 SR 44, Rootstown, Ohio 44272.**

Selected applicants will be invited for interviews with Edward B. Truitt, Ph.D., program chief and professor of pharmacology.

*An Equal Opportunity/Affirmative Action Employer*

### RESEARCH SCIENTIST DEPARTMENT OF PSYCHIATRY AND BEHAVIORAL SCIENCE STATE UNIVERSITY OF NEW YORK AT STONY BROOK

Position for research associate to participate in all phases of research and service in clinical electrophysiology. Department has core group of investigators and is building strong focus in this area. Responsibilities include design, execution, analysis, and reporting of research; maintenance of laboratory equipment; and assistance in education of medical students and residents. Studies generally to be carried out in collaboration with senior researchers but opportunity for independent work as well. Successful candidate should have prior experience with electrophysiological measures; prior training in sleep research desirable but not required. Minimum qualifications include master's with 3 years of appropriate experience or doctorate with 1 year of experience. Salary: \$17,500 to \$22,800, commensurate with education and experience. Send curriculum vitae and other materials to:

**Stanley F. Yolles, M.D.  
Chairman and Professor  
Department of Psychiatry  
and Behavioral Science  
Health Sciences Center  
T-10 Suite 020**

**State University of New York at Stony Brook, Long Island, New York 11794  
Equal Opportunity/Affirmative Action Employer**

## SENIOR BIOCHEMIST

New England Nuclear, the world's leader in the development and manufacture of radioactive chemicals for medical research and diagnosis, is currently seeking a senior biochemist for our Labeled Chemicals Division in Boston.

Your work will involve R & D on the synthesis of nucleotide sugars, lipid-linked mono- and oligosaccharides, and other key lipid intermediates. The ideal candidate will have a Ph.D. in biochemistry or molecular biology with 1 to 2 years of postdoctoral experience. A strong background in the purification of enzymes and subcellular components is desired.

**We offer competitive salaries as well as a comprehensive benefits package, including profit sharing and relocation expenses.**

**Interested candidates may submit a résumé with salary history to: Janet Anderson, New England Nuclear Corporation, 549 Albany Street, Boston, Mass. 02118.**

**NEN New England Nuclear**  
**...A Better World**  
an equal opportunity employer

## POSITIONS OPEN

### FACULTY POSITIONS IN ATMOSPHERIC SCIENCES

The Department of Atmospheric Sciences of the University of California, Los Angeles (UCLA), has two ladder faculty positions open, starting 1 July 1979. Candidates must have a Ph.D. degree in atmospheric sciences or in a related area. Preferred areas of research specialization are (i) cloud dynamics, mesoscale dynamics, and cloud microphysics and (ii) atmospheric chemistry or physical meteorology.

Exceptionally qualified candidates in other areas of atmospheric sciences are also encouraged to apply.

Besides carrying out research in his/her own area of specialization, the candidate will be expected to teach both graduate and undergraduate courses in atmospheric sciences. Applicants should submit résumés, including a list of publications and the names of three references, to: **Chairman, Department of Atmospheric Sciences, University of California, Los Angeles, California 90024.** *UCLA is desirous of receiving applications from minorities and women candidates as well as from other qualified persons. UCLA is an Equal Opportunity/Affirmative Action Employer.*

**GENETICIST.** Assistant professor, to begin fall 1979. Ph.D. required. Applicants will be expected to teach courses in genetics, molecular biology, and introductory cell biology. A background in histology and microbiology is desirable. Involvement in student research supervision and interdisciplinary courses outside the sciences is expected. Applicants must have an interest in teaching and advising undergraduate students in a liberal arts college. Applicants should send curriculum vitae, transcripts, and three letters of recommendation to: **Dr. Dan T. Bedsole, Dean of the Faculty, Austin College, Sherman, Texas 75090.** *Equal Opportunity Employer.*

### GEOHYDROLOGIST/ GROUNDWATER HYDROLOGIST

Institute of Ecology, University of Georgia, has a faculty opening for a geo- or groundwater hydrologist with a strong wetlands and systems orientation to begin mid-April 1979. Candidate will design and conduct investigations on water and element transport in coastal plain region of south Georgia (Okefenokee Swamp and uplands, and Coastal Plains Experiment Station in Tifton, Georgia), and integrate information on surface and subsurface water and element flux into ecosystem biogeochemical cycling models. Salary is competitive and resources are excellent. Position will be at research or postdoctoral associate level; doctorate degree required.

For additional information regarding the position, telephone: **Dr. B. C. Patten at 404-542-8134**, or **Dr. R. L. Todd at 404-542-2461.** Send résumé, three letters of recommendation, and copies of publications or preprints to:

**Dr. G. Ronnie Best  
Manager, Swamp Ecosystems Research  
Institute of Ecology  
University of Georgia  
Athens, Georgia 30602  
Telephone: 404-542-2968**

Deadline for receipt of application is 1 March 1979.  
*An Equal Opportunity/Affirmative Action Institution*

**GEOLOGICAL OCEANOGRAPHER.** Associate professor for tenure-track position in research and graduate-level teaching in mineralogy of marine sediments and rocks. Emphasis on terrigenous marine deposits. Experience in x-ray diffraction and/or fluorescence techniques required. Send letters, résumé, and names of three references by 15 April 1979 to: **Dean, School of Oceanography, Oregon State University, Corvallis, Ore. 97331.** *An Affirmative Action/Equal Opportunity Employer in compliance with Section 504 of the Rehabilitation Act of 1973.*

**INSTRUCTOR, BIOCHEMISTRY,** to team-teach biochemistry and biochemistry laboratory and conduct research on the biochemical mechanism of excitation-secretion coupling in the CNS. Starting salary: \$14,000 to \$15,000. Position available for 5 years. Send curriculum vitae, three letters of recommendation, and bibliography to: **Dr. J. A. Babitch, Chemistry Department, Texas Christian University, Fort Worth, Texas 76129,** by 28 February 1979. *Texas Christian University does not discriminate on the basis of sex, religion, handicap, race, or ethnic origin.*

## POSITIONS OPEN

Highly qualified **HEALTH PROFESSIONAL** sought as associate chief of staff/education. Applicant must have M.D., D.D.S., Ph.D., or ED.D. Large teaching hospital with medical and allied health programs. Must have experience and interest in comprehensive health-related educational activities. *Equal Opportunity/Affirmative Action Employer.* Send inquiries to: **Chief of Staff, VA Medical Center, North Chicago, Ill. 60064; telephone: 312-689-1900, extension 2841.**

## IMMUNOLOGIST

The Laboratory of Immunology, National Institute of Allergy and Infectious Diseases, anticipates the filling of a position of senior investigator (medical officer, research chemist, research biologist). Applications from individuals with a Ph.D., M.D., or equivalent and a strong research background and record of achievement in membrane biochemistry, biochemistry of lymphocyte activation, regulation of immune response, molecular genetics, immunogenetics, or somatic cell genetics are especially sought but inquiries from accomplished scientists in any field on immunology are welcome. Position will be filled through career Civil Service (salary range: \$27,453 to \$38,160); Commissioned Corps, U.S. Public Health Service; or through the NIH Staff Fellowship Program, depending upon qualifications. Send curriculum vitae, bibliography, statement of research interests, and names of three references to: **Dr. William E. Paul, 9000 Rockville Pike, Building 10, Room 11N311, NIAID, National Institutes of Health, Public Health Service, Bethesda, Md. 20014.** *An Equal Opportunity Employer.*

**IMMUNOLOGIST,** Ph.D., assistant professor position in the Department of Surgery with cross appointment in Immunology. Research interest in experimental and clinical transplant immunology. Experience with immunoabsorbent columns helpful. Send curriculum vitae and three letters of reference to: **Charles T. Fitts, M.D., Professor of Surgery, Medical University of South Carolina, Charleston, S.C. 29403.** *An Equal Opportunity/Affirmative Action Employer.*

**UNIVERSITY OF MICHIGAN. INVERTEBRATE PALEONTOLOGIST.** The Museum of Paleontology invites applications for a joint appointment with the Department of Geology and Mineralogy as an assistant curator of invertebrate paleontology and assistant professor of geology, beginning as early as 1 July 1979. Applicants must have a Ph.D. degree and must have a demonstrated commitment to evolutionary, ecological, and/or stratigraphic research in invertebrate paleontology. Candidates should send a résumé, names of four persons from whom the museum can request letters of recommendation, a statement of research interests and directions, and copies of pertinent publications to: **Gerald R. Smith, Director, Museum of Paleontology, 1529 Museums Building, Ann Arbor, Mich. 48109.** *University of Michigan is a nondiscriminatory, Affirmative Action Employer.*

## HARVARD UNIVERSITY

The Kennedy School of Government seeks **JUNIOR FACULTY** in economics, operations research, statistics, or related fields. Candidates should have a Ph.D. and a strong publications and teaching record. Send résumé to:

**Professor Richard Zeckhauser  
Kennedy School of Government  
Harvard University  
Cambridge, Mass. 02138**

*An Affirmative Action/Equal Opportunity Employer*

## LECTURER IN BIOLOGY

Department of Biology anticipates possibly one or more temporary or part-time teaching positions in undergraduate biology for one or more quarters and is establishing a roster of qualified and interested candidates. Subject areas are introductory biology, zoology, botany, human anatomy-physiology, ecology, genetics, cell physiology, and entomology. Department offers B.S., B.A., and M.S. degrees and concentrations in ecology and marine biology. Preference will be given to persons with Ph.D. and demonstrated research in specific area of biology. Send curriculum vitae with names of three referees to: **Dr. J. R. P. Ross, Chair, Roster Committee, Department of Biology, Western Washington University, Bellingham, Wash. 98225** by 1 March 1979. *Western Washington University is an Equal Opportunity/Affirmative Action Employer.*

## POSITIONS OPEN

**JUNIOR FACULTY POSITION**—Division of Dermatology, Department of Medicine, Duke University Medical Center. Cell biologist with interest in epithelial cell culture, immunocytology, mechanisms of phagocytosis and secretion, and proteinase metabolism. Fully equipped laboratory with technician and 5 years of support. Possibility of fellows. Two years of postdoctoral experience required. Salary: \$15,000. Reply to: **Gerald S. Lazarus, M.D., Chairman, Division of Dermatology, Box 2987, Duke University Medical Center, Durham, North Carolina 27710.**

*Duke University is an Affirmative Action/Equal Opportunity Employer.*

### MAMMALIAN PHYSIOLOGIST POSITION KNOX COLLEGE

Teaching responsibilities include lecture and laboratories of two physiology courses offered to first-year medical students and upper-class biology majors. One is a course in mammalian physiology emphasizing the organs and systems; the other is an introduction to pathological physiology. The courses may be designed according to the candidate's interests but must meet the needs of the first-year medical curriculum. Instruction in the lecture and laboratory of other biology courses are also part of teaching duties. The candidate should be broadly trained in biology and capable of teaching several topics. Subspecialties in histology and/or embryology are desirable. Send résumés to:

**Dr. Peter Schramm, Chairman  
Department of Biology  
Knox College  
Galesburg, Illinois 61401**

*Knox College is an Affirmative Action/Equal Opportunity Employer.*

## MICROBIOLOGIST

The Department of Microbiology, Meharry Medical College, invites applications for two positions at the assistant professor level in virology and cellular immunology to be filled by August 1979. A Ph.D. and at least 2 years of postdoctoral experience is required. Appointees will be expected to conduct independent research programs in their fields of expertise and guide Ph.D. students. Teaching duties will include participation in the medical and dental microbiology courses and a graduate course in the applicant's area of specialization. Salary is \$20,000 to \$24,000 per year (12 months). Send curriculum vitae and names of three references to: **Fred Jones, Jr., Ph.D., Chairman, Search Committee, Department of Microbiology, Meharry Medical College, Nashville, Tenn. 37208.**

*An Equal Opportunity/Affirmative Action Employer*

### Mycoplasma and Other Fastidious Bacteria—Assistant Professor of Plant Pathology

The Department of Plant Pathology, University of California, Berkeley, announces a faculty position for a scientist with a Ph.D. in plant pathology with emphasis on plant bacteriology. Training and/or experience with fastidious bacteria and in either general ecology or epidemiology is desirable. Research emphasis will focus on the biology and epidemiology of mycoplasma and other fastidious bacteria. Applicant should send curriculum vitae, publications, and the names of three references to: **Dr. A. R. Weinhold, Chairman, Department of Plant Pathology, University of California, Berkeley, Calif. 94720** by 1 March 1979.

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

### Plant Virology—Assistant Professor of Plant Pathology

The Department of Plant Pathology, University of California, Berkeley, announces a faculty position for a scientist with a Ph.D. in plant pathology with emphasis on plant virology. Training and/or experience in either general ecology or epidemiology is highly desirable. Research emphasis will focus on ecology and epidemiology of plant viruses. Teaching responsibility will be at both the undergraduate and graduate levels. Applicant should send curriculum vitae, publications, and names of three references to: **A. R. Weinhold, Chairman, Department of Plant Pathology, University of California, Berkeley, Calif. 94720** by 1 March 1979.

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

**FACULTY POSITIONS**  
**SOUTHERN METHODIST UNIVERSITY, DEPARTMENT OF BIOLOGY**  
Available starting 15 August 1979

**DEVELOPMENTAL GENETICIST.** Assistant professor. The appointee must have competence to teach: (i) an undergraduate middle-level course in genetics which includes adequate coverage of classical genetics and has a laboratory, (ii) an advanced course in either developmental genetics or developmental biology, and (iii) an advanced course in a related special topic based on an area of special interest. The establishment of a vigorous and independent research program in an area emphasizing the cellular or molecular aspects of heredity and development unique to eucaryotes is essential. The appointee will be expected to seek extramural support for research. Qualifications include the Ph.D. degree, post-doctoral work, and demonstrated competence in teaching and research including publications in the above described area of research.

**PHYSIOLOGICAL/POPULATION ECOLOGIST.** Assistant or associate professor; 12-month contract. Summer work at Fort Burgwin, Taos, New Mexico, in the department's Environmental Biology Program; fall semester and inter-term in Dallas; appropriate release time (from full-time teaching) in spring semester. The appointee must teach: (i) undergraduate courses appropriate to the Environmental Biology Program (Fort Burgwin), (ii) an undergraduate course in population ecology (Dallas), and (iii) an advanced course in physiological ecology. The establishment of an independent research program in an area emphasizing aquatic invertebrate biology and an interest in directing graduate students in research are essential. The appointee will be expected to seek extramural support for research. Competence to participate in curriculum development in environmental biology at Fort Burgwin is essential. Coordination of biology's offerings with those from the Departments of Geology and Anthropology will be expected. Ph.D., 2 to 3 years of experience, and demonstrated competence in teaching and research, including publications in an area of research specialty, are required.

Please send (i) name in full and social security number; (ii) home address, business address, current mailing address, telephone numbers; (iii) scholastic training: complete undergraduate and graduate transcripts are preferred; (iv) experience: complete list of names of institutions and employers, location and dates of service, titles of positions including student-related and postdoctoral positions; current position should be completely described; (v) memberships in honorary societies, learned societies, professional organizations, scholarships held, and so forth; (vi) list of funded grants and contracts; (vii) complete list of publications, including description of thesis and dissertation; (viii) three letters of recommendation from appropriate individuals who are competent to evaluate your qualifications; and (ix) brief statement concerning areas of special research interest and teaching interest.

Application deadline: 15 February 1979.

Direct applications to: **Dr. Venita F. Allison, Chairman, Department of Biology, Southern Methodist University, Dallas, Texas 75275.**

*Southern Methodist University is an Affirmative Action/Equal Opportunity Employer and does not discriminate against the handicapped.*

## N. C. SCHOOL OF SCIENCE AND MATHEMATICS

seeks chief executive officer (title to be decided) to provide leadership in the development of a unique residential public high school committed to excellence in education for 750 to 900 boys and girls with very high aptitude in science and mathematics. Candidate should have graduate degree(s) in science and/or mathematics and teaching and administrative experience, preferably in secondary or college education. Residential school experience a plus factor. This new publicly supported School will be structured to provide the chief executive and staff maximum flexibility to pioneer in curriculum development, instructional techniques, and the admission of students for the purpose of setting and attaining the highest standards of excellence in science and mathematics. The recruitment of an outstanding full-time faculty and the management of the School, including its curriculum and its funding, will be primary responsibilities of the chief executive who will report directly to a distinguished Board of Trustees. Salary commensurate with experience. It is anticipated that the appointment will be made prior to July 1, 1979 and that the first 300 students will be admitted to the Watts campus in Durham, North Carolina in September 1980. Candidates are urged to apply with full curriculum vitae as soon as possible, preferably prior to February 28, 1978.

**SEARCH COMMITTEE**  
N.C. School of Science & Mathematics  
Office of the Governor  
Raleigh, North Carolina 27611  
AN EQUAL OPPORTUNITY EMPLOYER

# ENERGY

## HOW ACCURATE IS THE INFORMATION AND WHAT DOES IT ACTUALLY MEAN?

We need people in our newly formed Energy Information Systems Validation Group to analyze the processes of information specification, measurement reporting and processing in order to determine the utility and accuracy of energy information.

## MANAGERS

Three key positions requiring demonstrated scientific and managerial ability in interdisciplinary research programs. Typical disciplines represented include information systems, statistical analysis, sociology, operations research, energy systems studies, economics and policy analysis. Require Ph.D. and outstanding scientific contributions in a relevant field, strong interpersonal skills, and ability to effectively plan, organize, staff and direct research operations.

### ■ ■ ■ Manager, Systems Validation

responsible for validation studies of information systems addressing fundamental problems in measurement estimation and interpretation.

### ■ ■ ■ Manager, Methodology Development

responsible for design and development of scientifically sound methods for validating information systems.

### ■ ■ ■ Manager, Field Operations

responsible for direction of field research efforts including interviewing firms and agencies associated with systems under study. Develop information gathering methods which emphasize both exploratory and structured solicitation techniques.

## PROJECT ANALYSTS

Positions involve responsibility for design and execution of validation studies and preparation of reports on information systems. Require advanced degree with relevant experience in systems validation.

Send 2 copies of resume and salary history to:

**LAWRENCE BERKELEY LABORATORY**



Personnel Department/EISV Project  
One Cyclotron Road  
Berkeley, CA 94720

An Equal Opportunity Employer M/F/H



## POSITIONS OPEN

### MAMMALIAN SYSTEMS PHYSIOLOGIST

A permanent joint appointment at the rank of assistant professor in the School of Basic Medical Sciences and the School of Life Sciences is available for fall 1979 in the Department of Physiology and Biophysics at the University of Illinois, Urbana. Salary is negotiable depending upon experience and qualifications. Those specializing in endocrinology or neurophysiology need not apply. All other applicants will be considered; however, first consideration will be given to those candidates with strong backgrounds in gastrointestinal or respiratory physiology. Duties will include (i) sharing in the delivery of the physiology curriculum to medical students enrolled in the Schools of Basic Medical Sciences and Clinical Medicine and (ii) participating in teaching and direction of graduate student research in the Department of Physiology and Biophysics within the School of Life Sciences. Postdoctoral experience, a record of research productivity, and a strong interest in quality research and teaching are essential. To receive equal consideration, applications should be received by 15 February 1979. Each applicant is requested to submit (i) complete curriculum vitae including at least two recent reprints if available, (ii) a brief narrative of his/her future research goals, and (iii) the names of three individuals conversant with the applicant and his/her research activities. Apply to:

**Dr. James E. Heath, Head**  
Department of Physiology and Biophysics  
524 Burrill Hall  
University of Illinois  
Urbana, Illinois 61801  
Telephone: 217-333-1734

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

### UNIVERSITY OF DELAWARE COLLEGE OF MARINE STUDIES LEWES, DELAWARE

Applications are invited for a tenure-track faculty position at the advance assistant or associate professor level for an experienced **MARINE GEOPHYSICIST** with demonstrated research accomplishment and leadership. Position will be located in College of Marine Studies facilities at Lewes, Delaware. Specific experience and skills are required in marine seismological techniques for projects involving seismic modeling and seismic signal processing. Initial assignment will be primarily in research with minimal teaching duties. Strong geological background desired. Salary will be commensurate with rank and based on a 12-month contract with multiple-year initial appointment. Closing date: 1 April 1979. Send résumés and three letters of recommendation to: **Robert E. Sheridan, Department of Geology, University of Delaware, Newark, Del. 19711.** *University of Delaware is an Equal Opportunity/Affirmative Action Employer.*

## NATURAL RESOURCES (Soil Science)

Assistant or associate professor in Department of Natural Resources. Will teach undergraduate and graduate courses in soil science and related areas, with some opportunity for research. Will consider candidate nearing completion. Modern teaching and research facilities available. Send résumé, three letters of recommendation, and transcripts of all college work to: **Dr. Clyde W. Hibbs, Chairman, Department of Natural Resources, Ball State University, Muncie, Ind. 47306.** Application deadline: 15 March 1979.

*Ball State University practices Equal Opportunity in Education and Employment.*

### NEUROBIOLOGIST

Cornell University's Section of Neurobiology and Behavior, of the Division of Biological Sciences, announces an appointment in **cellular or molecular neurobiology**. This position may be filled at the rank of assistant, associate, or full professor. *Minority and women candidates are encouraged to apply.* Curriculum vitae with copies of recent reprints and three letters of reference, requested by the candidate, should be sent to: **Dr. K. Adler, 101 Langmuir Laboratory, Cornell University, Ithaca, New York 14853; telephone: 607-256-6569.** Applications will be considered after 1 March 1979. *An Affirmative Action/Equal Opportunity Employer.*

## POSITIONS OPEN

### NEUROBIOLOGIST

The Neurobiology Division, Department of Physiology, State University of New York at Buffalo, invites applications from qualified neurobiologists for a position at the assistant professor level, to start in September 1979. Applicants must have a Ph.D. or M.D. degree with two or more years of postdoctoral training and should be prepared to take an active role in the medical, graduate, and undergraduate neurophysiology teaching activities of the division. Candidates should have demonstrated outstanding potential for independent research in neurobiology at the cellular or systems level, utilizing techniques of electrophysiology and/or morphology. Preference will be given to a cellular neurobiologist with research interests in developmental neurobiology, neuronal plasticity, or correlations of neuronal structure and function. Deadline for applications: 15 February 1979. Please send curriculum vitae, a brief summary of research interests, and the names of at least three references to: **Dr. Donald S. Faber, Division of Neurobiology, 317 Cary Hall, State University of New York at Buffalo, Buffalo, New York 14214.**

*The State University of New York at Buffalo is an Affirmative Action/Equal Opportunity Employer.*

### NEUROBIOLOGY AND BEHAVIOR

A position at the assistant professor level is available in the Biology Department, Princeton University. Faculty in the neurobiology and behavior area include: M. Constantine-Paton, H. Horn, A. Gelperin, J. Gould, R. Lisk, and W. Quinn. Evidence of exceptional promise in research is essential. Applicants should send curriculum vitae, statement of research experience, and three letters of recommendation to: **Dr. Alan Gelperin, Neurobiology Search Committee, Department of Biology, Princeton University, Princeton, N.J. 08540.** *Princeton University is an Equal Opportunity/Affirmative Action Employer.*

**PHARMACOLOGIST—Ph.D. or D.V.M., Ph.D.** A regular full-time position in the Department of Physiology and Biophysics in the College of Veterinary Medicine and Biomedical Sciences at Colorado State University (CSU). The successful candidate will be expected to contribute to the teaching program as well as conduct independent research in pharmacology. Salary and rank negotiable. Letter of application and curriculum vitae must be received by 1 February 1979. Address to: **R. W. Phillips, D.V.M., Ph.D., Chairman, Search Committee, Department of Physiology and Biophysics, Colorado State University, Fort Collins, Colo. 80523.** *CSU is an Equal Opportunity/Title IX Employer. Equal Opportunity Office: 314 Student Services Building.*

### PHARMACOLOGIST

The University of South Carolina, School of Medicine, invites applications for faculty positions in its recently established Department of Pharmacology. Candidates should have a Ph.D. and/or M.D. degree. Candidates should desire involvement in a growing department and have a commitment to teaching medical students and to an independent research program. Rank and salary are negotiable.

Preference will be given to those applicants with a cellular or biochemical approach to pharmacology, although outstanding and broadly experienced individuals in all areas will be considered. Interested individuals should send their curriculum vitae and the names of three references to:

**Dr. Donald O. Allen, Chairman**  
Department of Pharmacology  
University of South Carolina  
Columbia, South Carolina 29208

*An Equal Opportunity/Affirmative Action Employer*

**PHARMACOLOGIST.** Applications are invited for a faculty position (assistant professor or associate professor) at Emory University. Candidates must have doctoral degree; for assistant professor rank, at least 1 year of postdoctoral research experience and potential to develop independent research program; for associate professor rank, five or more years of experience in teaching and research in pharmacology and evidence of excellent independent research. One of following research areas, either biochemical or physiologically oriented, is preferred: cardiovascular, autonomic, respiration, or histamine and mediators of allergy and inflammation. Send curriculum vitae, brief description of proposed research, and names of three references to: **Dr. Neil C. Moran, Chairman, Department of Pharmacology, Emory University, Atlanta, Ga. 30322.** *An Equal Opportunity/Affirmative Action Employer.*

## POSITIONS OPEN

### PHYSIOLOGIST

Position available in the Department of Basic Sciences, Peoria School of Medicine. One of the four clinical schools within the University of Illinois College of Medicine. Applicants must have a Ph.D. in physiology and at least 2 years of experience beyond the doctor's degree, preferably with subspecialty in pulmonary or exercise physiology, or other field closely related to clinical practice. Duties will include instructing medical and associated health sciences students and conducting an independent research program. Must have demonstrated potential for research. Salary to be commensurate with experience and qualifications, with academic rank of assistant or associate professor. Starting date: 1 September 1979 or earlier. Send application and names of three individuals for references before 15 February 1979 to: **Dr. F. J. Grundbacher, Department of Basic Sciences, Peoria School of Medicine, 123 Southwest Glendale Avenue, Peoria, Illinois 61605.** *The University of Illinois is an Affirmative Action/Equal Opportunity Employer and encourages applications from members of minority groups and women.*

The Medical Sciences Program of Indiana University School of Medicine-Bloomington is recruiting a **PHYSIOLOGIST** at the assistant professor level. Ph.D. in physiology or equivalent, postdoctoral experience, and teaching of mammalian physiology are highly recommended. The appointee will participate in the teaching of medical and graduate students and be expected to establish a strong independent research program. Preferred areas include exercise, respiration, temperature regulation or endocrinology, and GI. Applications must be returned by 15 March 1979 to: **Reynaldo Elizondo, Section of Physiology, Medical Sciences Program, Indiana University, Bloomington, Ind. 47405.** *An Equal Opportunity/Affirmative Action Employer.*

### PLANNER

Assistant professor. A tenure-track position in planning to begin 1 September 1979 to teach natural resources and/or land-use planning and introductory environmental science at Plattsburgh, N.Y., in a multidisciplinary environmental science B.A. program and to supervise undergraduate research projects at a satellite campus in Chazy, N.Y. Candidates with a strong research orientation toward developing innovative planning methodologies will be given preference over planners practicing standard techniques. Ph.D. required. Send résumé and three letters of reference by 31 March 1979 to: **Dr. James C. Dawson, Institute for Man and Environment, State University of New York, Plattsburgh, N.Y. 12901.** *Equal Opportunity/Affirmative Action Employer.*

Faculty position in **PLANT PHYSIOLOGY**, assistant professor of botany and assistant botanist in the Agricultural Experiment Station (11 months); 75 percent research, 25 percent teaching. The candidate will be expected to develop a research program on the cellular mechanisms of uptake of organic molecules including but not restricted to soil-applied herbicides. A Ph.D. degree is required. The candidate should have a strong background in the biophysical techniques appropriate to the field. Teaching responsibilities will include an upper-division undergraduate course in plant physiology and/or a course in weed science. Applications, including résumé, statement of research and teaching goals, transcripts, and three letters of reference, should be sent to: **Dr. D. E. Bayer, Search Committee Chairman, Botany Department, University of California, Davis, Calif. 95616.** Closing date: 15 March 1979. *The University of California is an Equal Opportunity/Affirmative Action Employer and invites applications from all qualified individuals.*

**POSTDOCTORAL POSITION.** Protein structure, stability, and assembly. Experience with protein and peptide purification methods desirable. Available 1 July; minimum salary: \$11,000 per annum, renewable. Send résumé and reference letters to: **Professor D. Wetlauffer, Department of Chemistry, University of Delaware, Newark, Del. 19711.** *An Equal Opportunity/Affirmative Action Employer.*

**POSTDOCTORAL POSITION IN NEUROPHARMACOLOGY** available circa fall 1979. Area of research will be pharmacological and biochemical studies on receptors in the autonomic nervous system. Send résumé or letters of inquiry to: **Dr. Lance L. Simpson, Department of Pharmacology, College of Physicians and Surgeons, Columbia University, 630 West 168 Street, New York, N.Y. 10032.** *An Equal Opportunity/Affirmative Action Employer.*

University of Illinois  
School of Life Sciences  
and School of Basic Medical Sciences  
at Urbana-Champaign

## ANATOMIST

Joint appointment in the School of Life Sciences' newly developing Department of Anatomy and School of Basic Medical Sciences. To participate in teaching anatomy curriculum to medical and health professional students and in the graduate programs within the School of Life Sciences. The appointee is expected to develop a productive research program.

Candidate must have Ph.D. and/or M.D., formal training in gross and microscopic anatomy, and postdoctoral experience.

The position is available 21 August 1979 and is a permanent full-time faculty appointment preferably, but not necessarily, at the assistant professor level. Applicants should submit curriculum vitae, a description of research interests, and names of three references to:

C. R. Leeson, Chairperson  
Search Committee  
190 Medical Sciences Building  
University of Illinois  
Urbana, Illinois 61801  
Telephone: 217-333-6118

Applications should be received by 15 February 1979, in order to receive full consideration.

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

University of Illinois  
School of Life Sciences  
and School of Basic Medical Sciences  
at Urbana-Champaign

## NEUROSCIENTIST

Joint appointment in the School of Life Sciences' newly developing Department of Anatomy and School of Basic Medical Sciences. Will participate in teaching neuroscience curriculum to medical and health professional students and in the graduate programs in the School of Life Sciences. The appointee is expected to develop a productive research program.

Candidate must have Ph.D. and/or M.D., formal training in neuroanatomy, and postdoctoral experience.

The position, available 21 August 1979, is a permanent full-time faculty appointment preferably, but not necessarily, at the assistant professor level. Applicants should submit curriculum vitae, a description of research interests, and names of three references to:

C. R. Leeson, Chairperson  
Search Committee  
190 Medical Sciences Building  
University of Illinois  
Urbana, Illinois 61801  
Telephone: 217-333-6118

Applications should be received by 15 February 1979, in order to receive full consideration.

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

### FACULTY POSITIONS

1979-1980

KING FAISAL UNIVERSITY  
COLLEGE OF MEDICINE  
DAMMAM, SAUDI ARABIA

The expanding College of Medicine, now in its fourth year, is accepting applications from qualified men and women for the 1979-1980 academic year in:

CHEMISTRY  
BIOLOGY  
PHYSICS  
BIOCHEMISTRY  
ANATOMY  
PHYSIOLOGY  
PHARMACOLOGY

PATHOLOGY  
COMMUNITY  
MEDICINE  
EPIDEMIOLOGY  
MICROBIOLOGY  
PARASITOLOGY

Doctorate or equivalent degree required. Language of instruction is English. Interviews to be held in London and Houston in late February 1979.

**SALARY RANGES** (annual, paid monthly in Saudi riyals):

Professor: \$26,118 to \$33,378

Associate Professor: \$23,359 to \$29,712

Assistant Professor: \$19,039 to \$24,757

Lecturer: \$11,906 to \$16,444

(30 percent allowance for M.D. degree)

### BENEFITS:

Free furnished housing, educational allowances, airfare to and from Saudi Arabia for family of four, 60-day paid vacation, liberal overweight allowance. No Saudi income tax.

Send two copies of résumé and three references to:

Dr. Tawfik Tamimi  
Dean, Faculty of Medicine  
King Faisal University  
c/o Saudi Arabian Educational Mission  
2221 West Loop, South  
Houston, Texas 77027

OR

c/o P.O. Box 2  
Sunbury on Thames  
Middlesex TW16 6EH England

## Chief, Medical Neurology Branch

The National Institute of Neurological and Communicative Disorders and Stroke invites nominations and applications for the position of Chief, Medical Neurology Branch. The laboratory is located within the Intramural Clinical Research Program and utilizes laboratory and hospital facilities to conduct a range of basic and clinical research in neurological diseases. Candidates must meet the following mandatory qualifications requirements: an M.D. with 5 years experience (at least 1 year of which must be equivalent to the GS-15 level in the Federal service) in research work in one or more specialty areas such as pharmacology, virology, immunology, pathology, microbiology, biochemistry, and physiology; evidence of significant scientific research and/or clinical achievement in neuroscience, such as publications in leading scientific journals, service on editorial boards of professional journals, consultantships, lectures, etc.; experience in developing a basic biomedical or clinical research program and exercising effective administrative control over the work of professional and supporting staff, including the ability to implement EEO objectives. Desirable qualifications include a high degree of scientific peer recognition; training and education in addition to the M.D.; leadership of a basic or clinical research program; and honors and awards indicative of outstanding contributions to the field of neuroscience. Candidates will be evaluated by a panel of specialists on the extent to which they possess the desirable qualifications.

This position is designated for the Senior Executive Service (subject to the approval of the U.S. Civil Service Commission) with a current salary range of \$44,700 to \$47,500 per annum. The position could also be filled through the Commissioned Corps of the U.S. Public Health Service with the salary level being dependent upon length and breadth of experience.

Nominations and applications should include a Curriculum Vitae, bibliography, SF-171 (Personal Qualifications Statement) and the names of at least two references, and should be submitted by February 19, 1979 to: Dr. Donald B. Calne, Clinical Director, Intramural Research Program, NINCDS, National Institutes of Health, Public Health Service, Building 10, Room 6D-20, 9000 Rockville Pike, Bethesda, Maryland 20014. An Equal Opportunity Employer.

NATIONAL INSTITUTES OF HEALTH

## RESPIRATORY PHYSIOLOGIST

The Biomedical Science Department of General Motors Research Laboratories is developing a research program on health effects of inhaled gases, mists and particulate aerosols potentially associated with the automobile. Applications are invited from investigators with either a Ph.D. or M.D. and research training in respiratory physiology. The successful candidate will initiate and conduct pulmonary function studies on healthy human volunteers and subjects with increased sensitivity to atmospheric pollutants. Technical and support staff are provided by the department.

Applicants must be able to legally accept permanent employment under U.S. Laws.

Investigators interested in exploring this opportunity should forward their resume to:

J. J. Vostal, M.D., Ph.D.  
Head, Biomedical Science Dept.  
General Motors  
Research Laboratories



GENERAL MOTORS  
TECHNICAL CENTER  
WARREN, MICHIGAN 48090

*We Are An Equal Opportunity Employer*

## POSITIONS OPEN

**POPULATION BIOLOGIST.** The Department of Biology invites applications for the position of assistant professor beginning September 1979 in the areas of theoretical population biology or animal behavior, with particular emphasis on evolutionary problems. This is a tenure-track appointment. Candidates should submit curriculum vitae and summary of research interests and names of three people who will write letters of recommendation. Send materials to:

Conrad A. Istock  
Department of Biology  
University of Rochester  
Rochester, N.Y. 14627

*An Affirmative Action/Equal Opportunity Employer*

**POSTDOCTORAL POSITIONS** available immediately:

1) Ph.D. in microbiology or biochemistry interested in surface proteins of lymphoid cells and/or genetics of immunoglobulins.

2) Ph.D. in microbiology or immunology interested in the identification and functional classification of human lymphocyte subpopulations.

Send curriculum vitae and three recommendations to: **Dr. Katherine Knight (1) or Dr. Marius Teodorescu (2), Department of Microbiology and Immunology, University of Illinois at the Medical Center, P.O. Box 6998, Chicago, Ill. 60680.**

**Cooperative Institute for Marine and Atmospheric Studies (CIMAS)**

Two **POSTDOCTORAL POSITIONS** renewable for up to 3 years, will be available for the investigation of the role of ocean dynamics and of large-scale air-sea interactions in climate variability. Salary will be commensurate with experience. CIMAS is operated under the joint sponsorship of the University of Miami and NOAA. Subject to performance, there are good possibilities for later long-term appointment with either of the two parent organizations. Please send inquiries with résumés to: **Director, CIMAS, 4600 Rickenbacker Causeway, Miami, Florida 33149.** *An Equal Opportunity/Affirmative Action Employer*

**POSTDOCTORAL POSITION** (1 to 3 years) is available on ongoing project on the regulation of both HMG-CoA reductase and cholesterol metabolism in rat hepatocytes and human monocytes. Applicants should have a strong background in biochemistry. Experience with protein turnover and messenger RNA isolation is desirable. Applicants must be U.S. citizens or have permanent or immigrant visas. Salary: \$13,000 to \$15,000. Starting date: July 1979. Send curriculum vitae and names of three references to: **Peter A. Edwards, Ph.D., Division of Cardiology, Department of Medicine, University of California, Los Angeles, Los Angeles, Calif. 90024.**

**POSTDOCTORAL POSITION** available immediately in protein chemistry. Studies on subunit interactions and slow transitions in the regulation of hexokinases or on interaction of nerve growth factor with membrane receptors. Send curriculum vitae and names of three references to: **Dr. K. E. Neet, Department of Biochemistry, Case Western Reserve University, Cleveland, Ohio 44106.**

*An Equal Opportunity/Affirmative Action Employer*

**POSTDOCTORAL POSITION**—Biochemist with experience in physical techniques: fluorescence enhancement, circular dichroism, electron microscopy, to study changes in the structure of chromatin during development. Send curriculum vitae and names of three references to: **Dr. P. T. Magee, Department of Microbiology and Public Health, Michigan State University, East Lansing, Mich. 48824.** *An Equal Opportunity/Affirmative Action Employer.*

**POSTDOCTORAL RESEARCH ASSOCIATE.** Research concerning normal striated muscle development and muscle disorders at the electron microscopic level. Send résumé and names of references to: **M. Ontell, Anatomy and Cell Biology, University of Pittsburgh School of Medicine, 3550 Terrace Street, Pittsburgh, Pa. 15261.** *Equal Opportunity/Affirmative Action Employer.*

**POSTDOCTORAL AND RESEARCH ASSOCIATE** positions available immediately for work on growth factors for rat mammary tumors. Experience with either transplantable tumors, culture of mammary tissue, or receptor chemistry required. Salary commensurate with experience, renewable for 2 or 3 years. Send résumé and names of three references to: **Dr. V. P. Hollander, THE HOSPITAL FOR JOINT DISEASES AND MEDICAL CENTER (affiliated with Mount Sinai School of Medicine), 1919 Madison Avenue, New York, N.Y. 10035.** *An Equal Opportunity Employer, M/F.*

## POSITIONS OPEN

**POSTDOCTORAL POSITION** available immediately for research in the biosynthesis and assembly of basement membranes. Previous research experience with proteins and/or carbohydrates desirable. Experimental techniques include cell culture and somatic cell hybridization. Salary: \$12,000, renewable. Send curriculum vitae and two letters of recommendation to: **Dr. Albert E. Chung, Department of Biological Sciences, University of Pittsburgh, Pittsburgh, Pa. 15260.** *An Equal Opportunity/Affirmative Action Employer.*

**POSTDOCTORAL POSITION** after 1 May 1979. Salary negotiable. Changes in histone variant composition and chromatin structure, as identified by biochemical and immunologic probes, correlated with changing malignant states of a cell. Relationship of histone variants in nucleosome repeat lengths in normal and malignant cells showing different degrees of malignancy and specific gene (globin) expression. Analysis of histone variants in human cancers. Inquire: **Dr. Stuart B. Levy, Tufts New England Medical Center, 171 Harrison Avenue, Boston, Massachusetts 02111.** *An Equal Opportunity Employer, M/F.*

**POSTDOCTORAL POSITIONS** available immediately for M.D.'s and Ph.D.'s in the NIH-supported **DIABETES RESEARCH TRAINING PROGRAM** at the University of Texas, Houston. Supervised research training is coupled with an educational program which will acquaint trainees with the major clinical problems of diabetes and provide an overview of the current state of diabetes research. Faculty is drawn from the Medical School, Graduate School of Biomedical Sciences, School of Public Health, and the University of Texas Cancer Center. There are opportunities for research in the fields of molecular biology, physiology, epidemiology, and assessment of care of diabetic patients. Salary according to NIH stipend scale. For more information call or write with curriculum vitae to: **Dr. Victor Lavis, Program Director, Department of Medicine, University of Texas Medical School, P.O. Box 20708, Houston, Texas 77025; telephone: 713-792-5508.** *An Equal Opportunity Employer.*

**POSTDOCTORAL POSITION IN NEUROCHEMISTRY** available immediately for research involving the biochemical and pharmacological characterization of enzyme systems involved in degradation of amine neurotransmitters. Applicant should have a strong background in biochemistry. Send curriculum vitae and names of three references to: **Dr. Jerome Roth, Department of Pharmacology and Therapeutics, 127 Farber Hall, State University of New York at Buffalo, Buffalo, New York 14214.** *Affirmative Action/Equal Opportunity Employer.*

**POSTDOCTORAL POSITION**—Available immediately to study the biogenesis of Na,K-ATPase or to study the molecular mechanisms of Na-K transport. Research in Na,K-ATPase biogenesis will involve immunochemical binding, subcellular fractionation, and cytochemical localization. Research in Na,K transport will involve reconstitution and chemical characterization with purified Na,K-ATPase. Send curriculum vitae and two letters of recommendation to: **Dr. Lowell Hokin, Department of Pharmacology, University of Wisconsin Medical School, Madison, Wisconsin 53706.**

**POSTDOCTORAL RESEARCH ASSOCIATE** University of Massachusetts Medical School, Department of Pharmacology, has an opening for a Ph.D. or equivalent. Postgraduate work in microbial/genetics/molecular biology/biochemistry is helpful. This individual will be engaged in a Public Health Service project on DNA methylation in *Escherichia coli*. Please send résumé to: **Dr. Martin G. Marinus, Department of Pharmacology, University of Massachusetts Medical School, 55 Lake Avenue North, Worcester, Mass. 01605.** *An Equal Opportunity/Affirmative Action Employer.*

### UNIVERSITY OF MICHIGAN MEDICAL SCHOOL

The Department of Psychiatry at the University of Michigan is seeking a **PSYCHIATRIST** at the instructor or assistant professor level. Qualifications should include a documented interest in consultation-liaison psychiatry as well as experience in teaching and research in this area. Please send curriculum vitae to: **Dr. Monica N. Starkman, Chief, Adult Services Consultation-Liaison Program, Department of Psychiatry, University of Michigan Medical Center, 1405 East Ann Street, Ann Arbor, Michigan 48109.** *The University of Michigan is a non-discriminatory, Affirmative Action Employer. Code 1100DO.*

## POSITIONS OPEN

### POSTDOCTORAL RESEARCH ASSOCIATE

Available in the field of endocrinology and metabolism. Planning, conducting, and analyzing biochemical endocrine research. Candidates should have background in biochemistry and chemistry. Experience in steroid chemistry, protein purification techniques, and radioimmunoassay would be an asset. Salary: \$15,000 per annum. **Box 17, SCIENCE.**

### POSTDOCTORAL RESEARCH ASSOCIATES

Two postdoctoral positions available. Experience desired in (i) intracellular recording and dye injection and/or (ii) ultrastructural studies on an invertebrate nervous system. Send curriculum vitae and names of three references to:

James G. Townsel, Ph.D.  
University of Illinois, College of Medicine  
131 DMP  
1853 West Polk Street  
Chicago, Illinois 60612

*An Equal Opportunity/Affirmative Action Employer*

### POSTDOCTORAL RESEARCH ASSOCIATE.

Ph.D. with a strong biomathematical background; 19-month appointment. Field experience in entomology and forestry is desirable but not essential. Data analysis and modeling of endemic southern pine beetle population dynamics. Salary commensurate with training and experience. Send applications (before 1 March 1979) to: **Dr. Fred P. Hain, Department of Entomology, North Carolina State University, Raleigh, N.C. 27650.** Include biographical data, university transcripts, list of all publications and reprints from last 3 years, and three letters of reference.

*Affirmative Action/Equal Opportunity Employer*

**POSTDOCTORAL STUDENTS** interested in investigations concerned with the mechanism of steroid hormone activity in breast cancer and reproductive tissues. Research involves tissue culture, cytosolic ligand binding studies, the nuclear uptake and processing of receptor complex, steroid metabolism, enzyme induction, and kinetics. Well-equipped laboratory accommodating six investigators. Opportunity for graduate or medical curriculum teaching experience. Good stipend for a period of 2 years possible. Positions available spring and summer 1979. Apply: **Dr. S. C. Brooks, Department of Biochemistry, Wayne State University School of Medicine, 540 East Canfield, Detroit, Mich. 48201.**

### RESEARCH ASSOCIATE

Position available in the laboratory of Dr. Foteos Macrides, a multidisciplinary laboratory studying the neuroendocrinological, neuroanatomical, neurophysiological, and behavioral interrelationships of the olfactory system with the limbic and hypothalamic systems. Candidates should have research experience in immunochemical localization of various peptides/hormones in the hypothalamus, limbic system, and related areas; experience in electron microscopy highly desirable; Ph.D. required. Send résumé and request three referees to send letters of reference to: **Personnel Office, Worcester Foundation for Experimental Biology, 222 Maple Avenue, Shrewsbury, Mass. 01545.**

*An Equal Opportunity/Affirmative Action Employer*

The University of Tennessee, **DEPARTMENT OF ZOOLOGY**, has three tenure-track openings to be filled at the assistant or associate professor level for September 1979. Postdoctoral experience is strongly desirable. Duties will include lecturing at undergraduate and graduate levels and maintenance of a strong research program. Applications are invited for positions of:

- 1) **CELL BIOLOGIST** with expertise in one of the following: regulation of assembly of cell components; cell cycle, growth and division; differentiation in tissue culture; nuclear-cytoplasmic interactions. Search committee chairperson: **G. L. Whitson.**
- 2) **ENDOCRINOLOGIST** with expertise in mechanisms of hormone action, hormone receptors and cell regulation. Search committee chairperson: **C. A. Shivers.**
- 3) **EVOLUTIONARY BIOLOGIST** with expertise in quantitative population genetics and interest in ecology and animal behavior. Search committee chairperson: **S. E. Riechert.**

Applicants should send curriculum vitae and three references by 1 March 1979 to the appropriate chairperson, **Department of Zoology, University of Tennessee, Knoxville, Tenn. 37916.**

*An Equal Opportunity/Title IX/Section 504 Employer*

## POSITIONS OPEN

The University of California, Berkeley, has a 1 May 1979 opening for a **POSTGRADUATE RESEARCH BIOCHEMIST**. To study in vivo kinetics of lipid metabolism in rats. Ph.D. in biochemistry or related area. Experience with in vivo kinetic studies very desirable. Position available 1 May 1979, promised funding through February 1982. Salary: about \$12,000 to \$14,000, depending on qualifications. Application deadline: 15 April 1979. Write: M. A. Williams, Department of Nutritional Sciences, University of California, Berkeley, Calif. 94720; telephone: 415-642-0809. *The University of California is an Affirmative Action Employer.*

Limited number of **PREDOCTORAL AND POSTDOCTORAL POSITIONS IN NEUROBIOLOGY**. The studies center on sensory and motor aspects of the primate visual system. Techniques include single unit neurophysiology, light microscopic tracing methods (autoradiography and peroxidase), and transmission and scanning EM. Send résumé and letter of interest to: L. A. Benevento, Professor, College of Medicine, University of Illinois Medical Center, P.O. Box 6998, Chicago, Illinois 60680.

Coastal and Oceanographic Engineering Department at the University of Florida invites applications for a **FULL PROFESSOR** position. Desired areas of expertise are naval architecture and ocean wave spectra. Ph.D. in related field required. Inquiries and résumés should be sent to: Dr. D. Max Sheppard, Acting Chairman, Coastal and Oceanographic Engineering Department, University of Florida, Gainesville, Florida 32611.

### DISTINGUISHED ENERGY PROFESSORSHIP AT SYRACUSE UNIVERSITY

Nominations and applications are invited for the Niagara Mohawk Energy Chair at Syracuse University. The holder of the chair must be a recognized scholar and is expected to provide leadership in the establishment of an interdisciplinary center of excellence for energy research and in the development of energy curricula. The candidate should have experience in high-efficiency, bulk-energy conversion techniques using environmentally acceptable processes for the utilization of coal or nuclear fuels. The chair is expected to be attached to the Department of Chemical Engineering and Materials Science which has a particular interest in fluidized bed technology. Outstanding scholars in other energy-related areas are also eligible. Nominations and applications should be sent to: Professor David K. Cheng, Chairman, Energy Professor Search Committee, Link Hall, Syracuse University, Syracuse, N.Y. 13210, before 1 April 1979. *Syracuse University is an Equal Opportunity/Affirmative Action Employer.*

### NATIONAL SCIENCE FOUNDATION DIVISION OF ASTRONOMICAL SCIENCES

The Division of Astronomical Sciences invites applications for the position of **PROGRAM DIRECTOR** in the Astronomy Research Section. Applicants should have a record of productive research in any area of observational or theoretical astronomy/astrophysics.

A program director is responsible for the review, recommendation, and processing of proposals for grants in a given subarea of the discipline. Two positions are to be filled. One could lead to a permanent appointment; the other is on a 1- or 2-year rotating basis. The rotator position presents an excellent opportunity for a person on sabbatical leave who seeks firsthand administrative experience. The program areas of the Astronomy Research Section include: galactic and extragalactic, stars and stellar evolution, solar system, stellar systems and motions, and instrumentation and development.

Salary is negotiable and commensurate with experience and past salary history. Appointments are made at the EC-13 to EP (equivalent to GS-13/15) levels. Letters of application accompanied by curriculum vitae and a list of at least three reference persons should be sent to: National Science Foundation, Division of Personnel and Management, Section B, 1800 G Street, NW, Washington, D.C. 20550. All applications should be received no later than 15 March 1979. For further information telephone: E. Paul Broglia at 202-632-4107. *The National Science Foundation is an Equal Opportunity/Affirmative Action Employer.*

## POSITIONS OPEN

### POSTDOCTORAL POSITIONS available now.

First, for investigating sporulation gene expression in bacilli. Second, for investigating gene expression in the double-stranded RNA-associated yeast killer system. Protein isolation, in vitro translation, immunochemical analysis. A strong background in biochemistry required; experience in translation systems desirable. Send curriculum vitae and the names of three referees to: Donald J. Tipper, Department of Microbiology, University of Massachusetts Medical School, Worcester, Massachusetts 01605.

### UNIVERSITY OF PENNSYLVANIA SCHOOL OF PUBLIC AND URBAN POLICY

The School of Public and Urban Policy (SPUP) hopes to make several appointments to tenure-track or tenured positions to begin in the 1979-1980 academic year, subject to approval and funding by the university.

The primary objective of SPUP is to develop and apply interdisciplinary approaches to public policy analysis and to improve the methodological and intellectual bases for making and evaluating public policy. The school has a strong commitment to research and to instruction at the graduate level.

The objective of this search is to attract scholars of the highest quality, rather than to fill narrowly defined positions. Candidates should be engaged in research relevant to public policy, and should expect to play a central teaching and advising role in a demanding educational program. *Female and minority candidates are especially encouraged to apply.*

Please send nominations, applications, and supporting materials, or inquiries to: Chair, Personnel Committee, School of Public and Urban Policy, University of Pennsylvania/B1, 39th and Walnut Streets, Philadelphia, Pa. 19104.

*An Equal Opportunity/Affirmative Action Employer*

**RESEARCH ASSISTANT PROFESSOR.** Ph.D./M.D. for position in a university medical center setting. Qualified person would assist in developing research and training program in human biochemical genetics, enzyme mechanisms, and analytical biochemistry for medical professionals, graduate students, and postdoctoral fellows in the health sciences. Background in amino acid metabolism, enzyme mechanisms, genetics, computer science, and tissue culture preferred. Send curriculum vitae and letters of recommendation from three persons familiar with applicant's background by 1 March 1979 to: Dr. George K. Summer, Biochemistry Department, 231H, University of North Carolina, Chapel Hill, N.C. 27514. *Equal Opportunity/Affirmative Action Employer.* Salary: negotiable.

**RESEARCH ASSOCIATE.** To study specific proteins of the central nervous system. Prior experience in immunochemistry and protein chemistry preferred. Position available immediately. Salary negotiable. Please send résumé and names of three references to: Dr. Pierluigi Gambetti, Institute of Pathology, Case Western Reserve University, Cleveland, Ohio 44106.

### SENIOR PROGRAM DIRECTOR

A national organization based in Washington, D.C., seeks a person to give staff leadership to a study of research-doctorate programs in the United States. The successful candidate will exhibit ability to conduct computer-based analyses of large data files and to write clear and cogent reports; familiarity with the process of graduate education in the fields of advanced research and scholarship, as well as knowledge of national trends in graduate education; personal accomplishment in research demonstrated by publication record; and skill in management. An earned doctorate or its equivalent is required. The appointment will be for 2 years. Salary will be commensurate with experience.

Please send curriculum vitae and salary history to: Box 19, SCIENCE. Closing date is 5 February 1979. *An Equal Opportunity Employer.*

Immediate opening for **WILDLIFE BIOLOGIST** or **TERRESTRIAL VERTEBRATE ECOLOGIST**, with demonstrated scientific achievements, administrative abilities, and writing skills, for a senior staff position involving fieldwork and supervising biological investigations within major technical programs. Ph.D. and 4 years of experience, minimum (or M.S. or B.S. with greater experience and outstanding credentials). Salary open. Other biology staff positions periodically available. Send résumé, supplementary narrative, and names/addresses/telephone numbers of three referees to: Personnel Director, Conservation Consultants, Inc., P.O. Box 35, Palmetto, Fla. 33561. *An Equal Opportunity Employer.*

## POSITIONS OPEN

### SUPERVISOR IMMUNOLOGY LABORATORY

Position open for the supervisor of the Clinical Immunology Laboratory in a 600-bed teaching hospital in Atlanta, Georgia. The Clinical Immunology Laboratory performs routine as well as advanced technical procedures such as electrophoresis, immunoelectrophoresis, autoimmune serology, cellular immunology, and complement studies. Master's degree in immunology, biochemistry, or microbiology is preferred, but candidates with bachelor's degree and relevant experience in clinical immunology will be considered. All applicants must have a minimum of 4 years of experience in laboratory medicine with three of these 4 years in clinical immunology. Previous supervisory experience desirable. Applicants should submit a résumé and names of references to:

Staffing Center  
Personnel Department  
EMORY UNIVERSITY  
Trimble Hall  
Atlanta, Georgia 30332

*An Equal Opportunity/Affirmative Action Employer*

## CALL FOR PAPERS

An International Symposium on the Effects of Nutrient Enrichment in Estuaries will be held on 29 to 31 May 1979 in Williamsburg, Va. The conference is being organized by the Chesapeake Research Consortium and sponsored by the U.S. Environmental Protection Agency. One- to two-page abstracts for papers on relevant topics should be submitted by 15 February 1979 to:

Dr. Bruce J. Neilson  
Virginia Institute of Marine Science  
Gloucester Point, Va. 23062  
Telephone: 804-642-2111

## COURSES

The fourth annual **Advanced Institute in Methods of Immunological Diagnosis**, conducted under the auspices of the World Health Organization Collaborating Laboratory for the Serology of Autoimmune Diseases at Wayne State University School of Medicine, will be held 17 to 23 June 1979. The course is to be held on the wooded campus of Cranbrook Educational Community in Bloomfield Hills, Michigan.

This year, the course will emphasize selected, newer methods applicable to the diagnosis of human diseases.

Category 1 credit for postgraduate medical education has been approved. Deadline for receiving applications is 15 April. Further information can be obtained by writing to:

Noel R. Rose, M.D., Ph.D.  
Department of Immunology and Microbiology  
Wayne State University School of Medicine  
540 East Canfield  
Detroit, Michigan 48201

### MARINE BIOLOGICAL LABORATORY Woods Hole, Massachusetts will conduct a residential laboratory course FREEZE-ETCHING in ELECTRON MICROSCOPY 16 to 21 April 1979

This concentrated course of study is intended primarily for scientists, technicians, and advanced graduate students having some practical experience in electron microscopy. They will learn freeze-fracturing, freeze-etching, freeze-drying and surface replication of biological specimens, including their own.

The instructor-in-chief will be Dr. Russell Steere of the U.S. Department of Agriculture in Beltsville. Also on the faculty will be Dr. Joaquim Sommers of Duke Medical School. No more than 16 participants will be accepted.

Other short courses on electron microscopy, scanning electron microscopy, and diagnostic microscopy will be offered by the laboratory in the spring.

Application materials and additional information are available from: Office of Admissions, Marine Biological Laboratory, Woods Hole, Mass. 02543; telephone: 617-548-3705.

*An Equal Opportunity/Affirmative Action Institution*



## TRAINING PROGRAMS

### **PATHOLOGY OF RESPIRATORY DISEASE**

Lecture and laboratory course for non-physician scientists involved in lung research, air pollution, and public health. Comprehensive morphological overview with emphasis on pathophysiology and pathogenesis; 12 to 18 August 1979; tuition: \$250. Contact:

J. E. Craighead, M.D.  
Vermont Lung Center  
Rowell Building  
University of Vermont  
Burlington, Vermont 05405

**PRE- AND POSTDOCTORAL TRAINEESHIPS AND FELLOWSHIPS** in an interdepartmental program in **EXPERIMENTAL PARASITOLOGY** are available, as of 1 September 1979, at the University of Massachusetts, Amherst. Training is provided in the biological, immunological, physiological, and biochemical aspects of protozoal, helminth, and arthropod parasites. Write to: Dr. B. M. Honigberg, Parasitology Program, Department of Zoology, University of Massachusetts, Amherst, Mass. 01003. An Affirmative Action/Equal Opportunity Employer.

## TRAINEESHIPS

**NIH PREDOCTORAL AND POSTDOCTORAL TRAINEESHIPS IN DEVELOPMENTAL BIOLOGY** are available for 1979. This is an interdisciplinary program with faculty from the Departments of Anatomy, Biochemistry, Botany, Medical Genetics, Obstetrics and Gynecology, Oncology, Pediatrics, Psychology, and Zoology emphasizing research that is basically developmental in nature. For further information write: Barbara Houser, Administrator Developmental Biology Training Program, University of Wisconsin-Madison, Zoology Research Building, Madison, Wis. 53706; telephone: 608-262-3457. Affirmative Action/Equal Opportunity Employer.

## ASSISTANTSHIPS

**GRADUATE ASSISTANTSHIPS.** The Division of Cell and Molecular Biology, Department of Biological Sciences, offers assistantships carrying a 10-month stipend of \$4000 plus tuition waiver. Supplemental summer appointments of \$1000 are available. A firm grounding in chemistry, genetics, or biochemistry is desirable. Information and application forms may be obtained from: Dr. M. Rothstein, Division of Cell and Molecular Biology, Department of Biological Sciences, State University of New York at Buffalo, Amherst, N.Y. 14260.

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

### **PREDOCTORAL ASSISTANTSHIPS IN ANATOMY**

Qualified students are invited to apply for graduate study leading to the Ph.D. degree in anatomy with specialization in cell biology, neurobiology, developmental biology, or functional morphology. Stipends are available as teaching assistantships and tuition waivers. For application forms and further information write to: Chairperson, Graduate Studies Committee, Department of Anatomy, University of Illinois at the Medical Center, Box 6998, Chicago, Illinois 60680.

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### **ENVIRONMENTAL SCIENCE/CHEMISTRY**

Teaching, research assistantships for graduate study in M.S. and multidisciplinary Ph.D. program. Specializations include aquatic and atmospheric chemistry. Write to: Dr. Raymond Lutz, Department of Chemistry, Portland State University, P.O. Box 751, Portland, Ore. 97207. An Equal Opportunity Employer.

### **ASSISTANTSHIPS IN BIOLOGY**

Teaching and research assistantships in M.S. program. Emphasis on, but not limited to, environmental research at biological station and natural areas. Application deadline: 1 March 1979. For information write: Graduate Coordinator, Department of Biological Sciences, Murray State University, Murray, Kentucky 42071.

## GRADUATE STUDY

### **NEW GRADUATE PROGRAM IN ENVIRONMENTAL HEALTH POLICY AND MANAGEMENT Harvard School of Public Health**

A 2-year program leading to the degree of master of science in health policy and management is now being offered at the Harvard School of Public Health. The program emphasizes skills in the context of environmental health sciences (industrial hygiene, occupational health, radiation protection, air pollution control, and so forth). Deadline for completed applications is 1 February 1979. For details, contact: Linda Mastraccio, Associate Director, Graduate Program in Health Policy and Management, Harvard School of Public Health, 677 Huntington Avenue, Boston, Massachusetts 02115. Applications from members of minority groups are encouraged.

**GRADUATE STUDIES IN NEUROBIOLOGY AND BEHAVIOR.** Actively supported research areas include neuropharmacology and neurophysiology as applied to problems of stress, learning, memory, sleep, arousal, and aging. A background in basic biological sciences and research experience in behavioral and biological sciences are desirable.

Teaching and research assistantships are available for applicants admitted to the Ph.D. program. For applications or further information, write to: The Psychobiology Research Group, Department of Psychology, 102 Gilmer Hall, University of Virginia, Charlottesville, Va. 22901.

## FELLOWSHIPS

### **RADIATION ONCOLOGY TRAINING**

**Postdoctoral fellowship** training appointment in radiation oncology at NCI Radiation Cancer Center in Bluegrass region. NRS fellowship includes clinical and research training and clinical neutron therapy training. Must be U.S. citizen or have permanent immigrant status. Must have M.D. degree, ECFMG, and minimum of 1 year of U.S. training. Three-year training program. Separate program in medical physics for qualified Ph.D. applicants.

Applicants should send curriculum vitae, names of three references, and request application forms from: Chairman, Radiation Therapy Oncology Center, University of Kentucky Medical Center, 800 Rose Street, Lexington, Ky. 40506.

The University of Kentucky is an Equal Opportunity Employer.

**NEUROIMMUNOLOGY POSTDOCTORAL FELLOWSHIP**—One- or 2-year research fellowships available beginning July 1979 and July 1980, supported by NIH training grant. Contact: Dr. Barry G. W. Arnason, Professor and Chairman, Department of Neurology, The University of Chicago Hospitals and Clinics, 950 East 59 Street, Chicago, Illinois 60637. An Affirmative Action/Equal Opportunity Employer.

**POSTDOCTORAL FELLOWSHIPS.** The University of Chicago is now considering applications for postdoctoral fellowships in behavioral biology. For a description of the program and application instructions, contact: Professor Stuart Altmann, Allee Laboratory of Animal Behavior, 5712 South Ingleside Avenue, Chicago, Ill. 60637; telephone: 312-753-2793. An Equal Opportunity/Affirmative Action Employer.

### **RESEARCH FELLOWSHIPS IN HEMATOLOGY**

The Hematology Unit, University of Rochester, has research fellowship positions available beginning July 1979 or July 1980. Research projects include studies of cell and organ ultrastructure, cell culture, immunology and membrane transport, and coagulation protein structure. Candidates must have M.D. or Ph.D., and be U.S. citizens or on permanent visas. Submit curriculum vitae and the names of two references to: Research Fellowships, Hematology Unit, P.O. Box Medicine, University of Rochester, 601 Elmwood Avenue, Rochester, N.Y. 14642. Applications from all qualified individuals will be considered.

**POSTDOCTORAL FELLOWSHIP:** NIH traineeship available in basic cancer chemotherapy dealing with the mechanism of action and metabolism of anticancer agents. Applicants must be either U.S. citizens or have permanent visas. Send curriculum vitae and the names of two references to: Dr. H. George Mandel or Dr. Philip Klubes, Department of Pharmacology, The George Washington University Medical Center, 2300 Eye Street, NW, Washington, D.C. 20037.

## FELLOWSHIPS

### **NATIONAL RESEARCH SERVICE AWARD FELLOWSHIPS IN LUNG BIOCHEMISTRY OR ANATOMY**

A few NIH postdoctoral fellowships for up to 3 years are available to study lung cell biology including biochemistry and ultrastructure. Areas of interest in the lung are proteases, lectins, protein turnover, secretory processes, lipid metabolism, and endothelial cell function. Participating faculty are in departments of anatomy, biochemistry, medicine and physiology. Inquiries, curriculum vitae, and names of three references to: Donald Massaro, M.D., University of Miami School of Medicine, Pulmonary Division R120, P.O. Box 016960, Miami, Florida 33101. An Equal Opportunity Employer.

**RESEARCH ASSOCIATE/POSTDOCTORAL FELLOWSHIP.** Ph.D./M.D. for research position in amino acid metabolism, human biochemical genetics, and analytical biochemistry. Research studies would involve primarily genetics, mechanisms of enzyme action, and amino acid metabolism. Training in cell culture and computer science preferred. Send curriculum vitae and three letters of recommendation by 1 March 1979 to: Dr. George K. Sumner, Biochemistry Department 231H, University of North Carolina, Chapel Hill, N.C. 27514. Salary: negotiable.

Equal Opportunity/Affirmative Action Employer

### **POSTDOCTORAL TRAINING FELLOWSHIPS**

available in neurobiology and cardiac, skeletal, and smooth muscle physiology. Specialized techniques include precise optical (laser applications), thermal and mechanical measurements of intact and skinned fibers from the different muscle types and electrophysiological techniques including voltage clamp and noise analysis applied to muscle and nerve preparations. Positions are currently available in laboratories of Doctors N. R. Alpert, W. R. Gibbons, W. H. Halpern, B. B. Hamrell, and R. L. Parsons. Contact: Dr. N. R. Alpert, Department of Physiology and Biophysics, University of Vermont, Burlington, Vermont 05405.

**STAFF FELLOWSHIP.** Two-year appointment, beginning about September 1979 for Ph.D. or M.D. with 1 to 3 years of postdoctoral research experience to work on the cellular effector arm of the immune response. Areas include cell biology of macrophages; basophils in delayed hypersensitivity, chemistry and function of lymphokines. Salary range is \$15,120 to \$27,609, depending on qualifications. Send curriculum vitae including bibliography, plus three letters of recommendation, to: Dr. Edward J. Leonard, Head Immunopathology Section, Laboratory of Immunobiology, National Cancer Institute, National Institutes of Health, Public Health Service, Building 37, Room 2B15, Bethesda, Maryland 20014. An Equal Opportunity Employer.

## MARKET PLACE

### **MALLARDS FROM WHISTLING WINGS (LABORATORY RESEARCH)**

Year-round supply of MALLARD eggs, day olds, young fledglings, feathered fledglings, and 1- and 2-year-old breeders. TRUE COLOR, CORRECT SIZE, GOOD TEMPERAMENT. Shipping weekly via air from O'Hare, Chicago, Ill. Doing business in a business-like way to your satisfaction. Box 1, Hanover, Ill. 61041; telephone: 815-591-3512.



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**LINCOLN COLLEGE**  
(University College of Agriculture)  
New Zealand

**CHAIR OF SOIL  
SCIENCE**

The Council of Lincoln College invites applications for appointment to the above mentioned Chair, resulting from the impending retirement of Professor T.W. Walker. It is the Council's desire to have the appointee take up duties towards the end of 1979 or early in 1980.

The Chair in Soil Science is one of 15 at the College and the Council is anxious to fill the position with an appointee of high standing because of the significance of this Chair, not only to the College but also to New Zealand agriculture.

Applicants should hold an advanced degree in Science, Agricultural Science or Soil Science, have had research experience in some branch of soil science or soil resources, such as soil fertility, soil chemistry, soil physics, soil biology and pedology, and have had some experience in teaching, communication or extension.

The successful applicant will be appointed as Head of Department and will be responsible to the College Principal for the administration of the Department.

The appointment will be made within the existing range of professorial salaries NZ\$23,012-\$29,188 per annum, the commencing salary being determined by the College Council. Academic salaries are at present under review.

Expenses of appointment reimbursed up to specified limits. New Zealand Government Superannuation is available.

Further details and general Conditions of Appointment are obtainable from the Secretary General, Association of Commonwealth Universities (Appts), 36 Gordon Square, London WC1H 0PF, or from the Registrar of the College.

Applications close on 15 February 1979.

**ANTI-ARTHRITIC  
RESEARCH**

**Position available for Pharmacologists, Immunologists or Biochemists (connective tissue).**

Riker Laboratory, Inc. seeks one MS level and two PhD level individuals for our expanding multi-disciplinary anti-arthritis/dermatologic research group. PhD-1 to 3 years post doctoral or industrial experience preferred. MS-industrial experience preferred but not essential. Functions will be to support and develop innovative, immunologically-based models. Opportunities for independent and collaborative contributions to the study of inflammatory diseases and their treatment are available.

The Twin Cities area offers a superb educational, recreational and cultural environment. If you are interested in a growing and challenging position, please send your resumes with references and salary history to:

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**Ph.D. Biochemical Engineer/Biochemist** with 2-3 years' experience in industrial process development. M.S. with sufficient relevant experience will be considered. Experience in cell immobilization techniques and organic chemistry an asset. Must be a good communicator and self-starter.

**B.S. Biochemist/Microbiologist** with some practical experience in biochemical process development and immobilization techniques.

You will receive competitive salary and benefits and unusual opportunities for growth.

Send resume in confidence to:  
Mr. J. Ciorciari, Personnel Manager

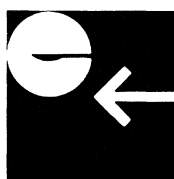


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**INTERNATIONAL  
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**October 22-26, 1979 — Hyatt Regency  
Los Angeles, California**

**ICEUM-II**

**CALL FOR PAPERS**

**Topical areas include:** • Strategies and Alternatives • Models, Analysis, and Assessment • Ecology and Environment • Lifestyles, Motivation and Values • Industry and Commerce • Community Systems and Urban Areas • Buildings and Dwellings • Agricultural Systems and Rural Areas and Transportation and Communication.

Abstracts for papers will be accepted for review until **March 15, 1979**. Papers are due **June 15, 1979**. If you are interested in attending the Conference or are submitting an abstract, please write to:

**ROCCO FAZZOLARE**  
Engineering Bldg. 20, University of Arizona  
Tucson, Arizona 85721  
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Photomicrograph by John Delly, McCrone Research Institute

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