

Kris, and Albert J. Solnit, Eds. Yale University Press, New York, 1976. viii, 574 pp. \$20.

**Radiation Effects on Solid Surfaces.** Papers from a symposium, Chicago, Aug. 1975. Manfred Kaminsky, Ed. American Chemical Society, Washington, D.C., 1976. x, 398 pp., illus. \$32.50. *Advances in Chemistry Series, 158. To order this book circle No. 466 on Readers' Service Card.*

**Radiationless Processes in Molecules and Condensed Phases.** F. K. Fong, Ed. Springer-Verlag, New York, 1976. xiv, 362 pp., illus. \$39.80. *Topics in Applied Physics, vol. 15. To order this book circle No. 461 on Readers' Service Card.*

**The Radicalisation of Science.** Ideology of/in the Natural Sciences. Hilary Rose and Steven Rose, Eds. Holmes and Meier, New York, 1977. xxvi, 206 pp. \$23. *Critical Social Studies.*

**Retinas of Fishes.** An Atlas. M. A. Ali and M. Anctil. Springer-Verlag, New York, 1976. xiv, 286 pp. \$49.20. *To order this book circle No. 462 on Readers' Service Card.*

**The Role of Terrestrial and Aquatic Organisms in Decomposition Processes.** Papers from a symposium, Apr. 1975. J. M. Anderson and A. Macfadyen, Eds. Blackwell, Oxford, England, 1976 (U.S. distributor, Halsted [Wiley], New York). xii, 474 pp., illus. \$32.50. *To order this book circle No. 467 on Readers' Service Card.*

**Schizophrenia.** Selected Papers. David Shakow. International Universities Press, New York, 1977. xviii, 358 pp. \$12.50. *Psychological Issues Monograph 38.*

**The Sea.** Ideas and Observations on Progress in the Study of the Seas. Vol. 6, Marine Modeling. E. D. Goldberg, I. N. McCave, J. J. O'Brien, and J. H. Steele, Eds. Wiley-Interscience, New York, 1977. xvi, 1048 pp., illus. \$49.50. *To order this book circle No. 468 on Readers' Service Card.*

**Selected Papers from: Third International Conference on Port and Ocean Engineering under Arctic Conditions.** Fairbanks, Aug. 1975. Michael E. McCormick, Ed. Pergamon, New York, 1976. vi pp. + pp. 263-382, illus. Paper, \$15. *Ocean Engineering, vol. 3, No. 5. To order this book circle No. 463 on Readers' Service Card.*

**Sinn-Deutungen der Geschichte.** Drei philosophische Betrachtungen zur Situation. Max Müller. A. Fromm. Osnabrück, 1976. 126 pp. Paper, DM 8. *Texte + Thesen, 75.*

**Soils of the Polar Landscapes.** John C. F. Tedrow. Rutgers University Press, New Brunswick, N.J., 1977. xxvi, 638 pp., illus. \$60.

**Statistical Decision Theory and Related Topics II.** Proceedings of a symposium, West Lafayette, Ind., May 1976. Shanti S. Gupta and David S. Moore, Eds. Academic Press, New York, 1977. xiv, 478 pp., illus. \$19.50. *To order this book circle No. 469 on Readers' Service Card.*

**Statistical Methods for Digital Computers.** Kurt Enslein, Anthony Ralston, and Herbert S. Wilf, Eds. Wiley-Interscience, New York, 1977. x, 454 pp., illus. \$24.95. *Mathematical Methods for Digital Computers, vol. 3. To order this book circle No. 464 on Readers' Service Card.*

**Stereochemistry of Heterocyclic Compounds.** Part 1, Nitrogen Heterocycles. W. L. F. Armarego. Wiley-Interscience, New York, 1977. xviii, 434 pp., illus. \$39.95. *General Heterocyclic Chemistry Series. To order this book circle No. 470 on Readers' Service Card.*

**Striking a Balance.** Environment and Natural Resources Policy in the Nixon-Ford Years.

John C. Whitaker. American Enterprise Institute for Public Policy Research, Washington, D.C., and Hoover Institution on War, Revolution and Peace, Stanford, Calif., 1977. xvi, 344 pp. Paper, \$5. *AEI-Hoover Policy Studies.*

**Studies in History of Biology.** Vol. 1. William Coleman and Camille Limoges, Eds. Johns Hopkins University Press, Baltimore, 1977. x, 218 pp. \$14.

**Subharmonic Functions.** Vol. 1. W. K. Hayman and P. B. Kennedy. Academic Press, New York, 1976. xviii, 284 pp. \$25.50. *L. M. S. Monographs, 9. To order this book circle No. 448 on Readers' Service Card.*

**A Technology of Reading and Writing.** Vol. 2, Criterion-Referenced Tests for Reading and Writing. Judith M. Smith, Donald E. P. Smith, and James R. Brink. Academic Press, New

York, 1977. xii, 280 pp. \$12.50. *Educational Psychology. To order this book circle No. 449 on Readers' Service Card.*

**Topics in Enzyme and Fermentation Biotechnology.** Vol. 1. Alan Wiseman, Ed. Horwood, Chichester, England, and Halsted (Wiley), New York, 1977. 192 pp., illus. \$25. *To order this book circle No. 450 on Readers' Service Card.*

**A Treatise on Dinitrogen Fixation.** R. W. F. Hardy, Ed. Section 4, Agronomy and Ecology. A. H. Gibson, Ed. Wiley-Interscience, New York, 1977. xiv, 528 pp. \$31. *To order this book circle No. 473 on Readers' Service Card.*

**Tree Rings and Climate.** H. C. Fritts. Academic Press, New York, 1976. xiv, 568 pp., illus. \$35. *To order this book circle No. 472 on Readers' Service Card.*

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**Cell/Invertebrate Biologist-Electron Microscopist.** Ph.D. 1966. Seeks teaching and/or research position. Teaching experience and many publications. Box 244, SCIENCE. X

**Director, Regulatory Affairs/Product Safety.** Ph.D. Directed product safety/clinical testing and preparation of IND's, NDA's, 510(k) notifications, all approved. FDA liaison. Management of product development, organic chemistry, microbiology. Box 245, SCIENCE. X

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## POSITIONS OPEN

### ASSISTANT PROFESSOR DEPARTMENT OF ANATOMY

The University of Illinois, College of Medicine, invites applications and nominations for two assistant professorships in the Department of Anatomy of the School of Basic Medical Sciences.

Applicants should be able to carry out research programs and teach in histology and/or neurobiology and cell biology.

Send nominations and applications to: **Chairman, Search Committee, Room 124, 1853 West Polk Street, Chicago, Illinois.** Mailing address: P.O. Box 6998, Chicago, Illinois 60680.

*The University of Illinois is an Affirmative Action Employer.*

## POSITIONS OPEN

**ASSISTANT OR ASSOCIATE PROFESSOR** of analytical and physical chemistry. Teaching experience desirable. Duties include teaching general chemistry; quantitative and instrumental analysis; natural science core course (team taught); physical and advanced inorganic chemistry in alternate years. Candidate should be able to stimulate students engaged in chemical research. Available 1 September 1977 or 1978. Send résumé to **Dean Ernest E. Ettlich, Westmont College, 955 La Paz Road, Santa Barbara, California 93108.** An Equal Opportunity Employer.

### ASSISTANT PROFESSOR-ANATOMY

The University of Wisconsin, Anatomy Department, is seeking a qualified anatomist to fill a position in the group responsible for teaching gross human anatomy to medical students. Necessary qualifications for these positions include a positive long-term commitment to teaching gross human anatomy, a major involvement in research, and interest in training Ph.D. candidates. Interested and qualified persons are invited to correspond directly with **Professor David B. Slautterback, Chairman, Anatomy Department, 1255 Linden Drive, University of Wisconsin, Madison, Wisc. 53706.** Women and minorities are encouraged to apply. An Equal Opportunity Employer, M/F.

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

Applications are invited for a position as **ASSISTANT PROFESSOR.** The duties of this position include general clinical radiology plus responsibility for the subspecialty of mammography. Conventional and xeroradiographic equipment is presently utilized and a magnification mammography unit will be available shortly. Candidates must be Board-certified in radiology, preferably with 2 or 3 years of experience since completion of residency training. Preference will be given to persons with special training in mammography. This is an academic appointment and the successful candidate will take part in medical student and resident training and will be expected to develop research projects in his or her areas of interest and to work with the ultrasound research team in developing breast-scanning techniques. *Applications from all qualified candidates are welcome; minorities and women are encouraged to apply.* If you are interested in this position please write to the address below enclosing a curriculum vitae and an autobiographical letter.

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

Closing date: 15 June 1977.

### UNIVERSITY OF CALIFORNIA, IRVINE COLLEGE OF MEDICINE ASSOCIATE PROFESSOR OF URORADIOLOGY

We have advertised a position in uroradiology at the Veterans Administration Hospital in Long Beach, California. This hospital has a large spinal cord injury service and sees a great deal of urologic pathology. We are interested in appointing as chief of uroradiology (associate professor-in-residence) a Board-certified radiologist with extensive training and experience in uroradiology, with particular emphasis on interventional techniques. The successful candidate must have a proven record of research abilities with extensive publications in refereed journals and should be prepared to develop a research program in uroradiology at Long Beach V.A. He/she will be responsible for both the clinical service and for teaching medical students and residents. The new chief will be a member of the faculty of the Department of Radiological Sciences at the University of California, Irvine, with the rank of associate professor-in-residence. *Applications from all qualified candidates are welcome; minorities and women are encouraged to apply.* If you are interested in this position please write to the address below enclosing a curriculum vitae and an autobiographical letter.

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

Closing date: 15 June 1977.

Note: This supersedes a previous position advertised at assistant professor level.

## POSITIONS OPEN

### ASSISTANT PROFESSOR

Applications are currently being accepted to fill a 1-year vacancy for the 1977-78 school year at the assistant professor level at St. Edward's University, Austin, Texas. Courses to be taught include math foundations, introductory physics with a lab, introductory and intermediate calculus, and COBOL computer language. The successful candidate will be expected to teach some combination of the above for a full-time teaching load of 12 contract hours per semester. St. Edward's is a Catholic liberal arts university and offers bachelor of science degrees in math, computer science, chemistry, and biology. Persons interested in applying should send a résumé and have three letters of recommendation sent to:

**Chairman**  
Division of Physical and Biological Sciences  
St. Edward's University  
Austin, Texas 78704

**ASSISTANT PROFESSOR IN ANATOMY.** Applications are invited for a state-funded tenure-track position in the Department of Anatomy, College of Medicine, University of South Alabama. Candidates must have had teaching experience in human gross anatomy and at least one other anatomical discipline. Applicants must hold the Ph.D. or M.D. degree and be productive researchers. Submit résumé and letters of recommendation to: **Dr. John M. Shackleford, Chairman, Department of Anatomy, College of Medicine, University of South Alabama, Mobile, Alabama 36688.** An Equal Opportunity Employer.

Applications are invited for an **ASSISTANT PROFESSORSHIP IN ANATOMY.** Applicants must have experience and expertise in teaching neuroanatomy. Preference is given to individuals having a vigorous, independent research program. Have curriculum vitae and three letters of reference sent to: **Chairman, Department of Anatomy, University of Colorado Medical Center, 4200 East Ninth Avenue, B111, Denver, Colorado 80262.** The University is an Affirmative Action and Equal Opportunity Employer.

### ASSISTANT PROFESSOR

The Department of Anatomical Sciences at State University of New York is seeking a person to fill a faculty position at the rank of assistant professor with teaching responsibilities in human gross anatomy/physical anthropology and a research program in primate functional morphology. Particularly desirable is experience in studies of primate locomotion and its relationship to anatomical structure, with emphasis on experimental approaches such as electromyography stress analysis, cineradiography, or kinematics. Starting date: 1 September 1977. Direct inquiries and curriculum vitae by 30 June 1977 to: **Dr. Jack Stern, Department of Anatomical Sciences, State University of New York at Stony Brook, Stony Brook, New York 11794.** Equal Opportunity/Affirmative Action Employer.

**ASSISTANT PROFESSOR OF BIOLOGY.** Ph.D. required; broad training in biology with emphasis on teaching; experience in college teaching and in cell biology desirable. Teach anatomy, physiology, and general biology. Full-time academic-year appointment: \$11,500 to \$12,500 to start. Send résumé and three letters of reference by 15 June 1977, to **Chairman, Biology Search Committee, Department of Science, Keene State College, Keene, N.H. 03431.** Equal Opportunity/Affirmative Action Employer.

**ASSISTANT PROFESSOR OF BIOLOGY-Meredith College,** a Baptist liberal arts college for women, seeks a person with a Ph.D. in biology who would teach general biology, botany, genetics, and ecology. Position begins 15 August 1977. Previous teaching and/or postdoctoral research helpful but not required. Write **Clara Bunn, Chairman, Department of Biology, Meredith College, Raleigh, North Carolina 27611.** An Equal Opportunity Employer.

### ASSISTANT PROFESSOR-MICROBIOLOGIST

Baruch College-City University of New York for fall 1977. Salary \$13,930 to \$16,180. Ph.D. required. Teach microbiology to premed students with a partial schedule in general biology. Apply by 24 June 1977 to: **Dr. Morris Winokur, Chairman, Department of Natural Sciences, Bernard M. Baruch College, Box 349, 17 Lexington Avenue, New York, N.Y. 10010.** Equal Opportunity/Affirmative Action Employer, M/F.

## POSITIONS OPEN

**ASSISTANT PROFESSOR OF MICROBIOLOGY:** area of immunology or molecular basis of microbial pathogenesis. Send résumé and letters of recommendation to Dr. S. G. Bradley, Department of Microbiology, Box 847—MCV Station, Richmond, Va. 23298. An Affirmative Action/Equal Opportunity Employer.

### DARTMOUTH ASSISTANT PROFESSOR NEUROSCIENCES

Applications are invited from neuroscientists, preferably with behavioral and cellular interests, for an anticipated position in a new program in neurosciences, to be developed and offered jointly by the Faculty of Arts and Sciences and the Medical School. Specific departmental affiliation is negotiable, depending on the interests of the successful applicant. Please send curriculum vitae, a brief description of research plans, and the names of three references to: Chairman, Neurosciences Search Committee, Dartmouth Medical School, Hanover, N.H. 03755. Dartmouth is an Equal Opportunity/Affirmative Action Employer.

**PHARMACOLOGY—ASSISTANT PROFESSOR,** beginning 1 July 1977 to teach pharmacology to first- and second-year medical students in integrated-organ-systems format. Ph.D. or equivalent in pharmacology. Preference given to individuals with teaching experience (especially in cardiovascular or neuropharmacology). Apply to: John W. Chambers, Ph.D., Acting Chairman, Department of Pharmacology, West Virginia School of Osteopathic Medicine, 400 North Lee Street, Lewisburg, West Virginia 24901. An Equal Opportunity/Affirmative Action Employer.

**ASSISTANT PROFESSOR OF PHYSIOLOGY** with cardiovascular, renal, or pulmonary interests. Applicants with academic experience preferred. Send curriculum vitae to: John J. Spitzer, M.D., Professor and Head, Department of Physiology, Louisiana State University Medical Center, New Orleans, La. 70112.

**VISITING ASSISTANT PROFESSOR, ZOOLOGY.** Ecologist to start 1 September 1977 for one academic year with the possibility of reappointment. Ph.D. degree required. Appointee will teach an intermediate laboratory course in environmental biology and an upper level population ecology course; will participate in the graduate program; and conduct original research in an ecological area, preferably in quantitative approaches to population dynamics of aquatic organisms. Submit curriculum vitae, description of research interests, and statement of approach for the courses to be taught. Request that three letters of recommendation and transcripts be sent to Dr. Milton Potash, Chairman, Department of Zoology, University of Vermont, Burlington, Vermont 05401. Equal Opportunity Employer.

**BIOLOGICAL OCEANOGRAPHER—A** position is open in the academic research series within the Marine Life Research Group of the Scripps Institution of Oceanography. Applicant should have a background in plankton field ecology and an interest in physical oceanography and in eastern boundary currents. The Ph.D. or equivalent and several years of experience are required. Salary and rank are open. Send curriculum vitae to J. L. Reid, Director, Marine Life Research Group, A-030, Scripps Institution of Oceanography, University of California at San Diego, La Jolla, California 92093. The University of California at San Diego is an Equal Opportunity/Affirmative Action Employer. Women and minorities are encouraged to apply.

**PHYSICAL OCEANOGRAPHER—A** position is open in the academic research series within the Marine Life Research Group of the Scripps Institution of Oceanography. Applicant should have a background in both theoretical and descriptive oceanography and an interest in eastern boundary currents and in work at sea. The Ph.D. or equivalent is required, and several years of experience are preferred. Rank and salary are open. Send curriculum vitae to J. L. Reid, Director, Marine Life Research Group, A-030, Scripps Institution of Oceanography, University of California at San Diego, La Jolla, California 92093. The University of California at San Diego is an Equal Opportunity/Affirmative Action Employer. Women and minorities are encouraged to apply.

## POSITIONS OPEN

The Science Activities for the Visually Impaired (SAVI) project has an opening for one **AUTHOR/DEVELOPER**. The project is designing a series of personalized activities to make concrete experiences in science available to visually impaired children and teachers in selected schools. A B.A. with a strong background in physical and earth sciences is required. Interest in working with visually impaired students is desirable. The position will be open in September 1977; salary is negotiable, depending upon qualifications and experience; appointment is for 1 year with potential for renewal. Résumés should be submitted to Dr. Herbert D. Thier, SAVI, Lawrence Hall of Science, University of California, Berkeley, Calif. 94720; telephone: 415-642-3679. The University of California is an Affirmative Action/Equal Opportunity Employer. Minority and women candidates are urged to apply.

**BIOCHEMIST** to study hormonal regulation of liver metabolism by glucagon and glucocorticoids. Postdoctorate or research associate positions available immediately. Write to N. Friedmann, Ph.D., Department of Physiology, University of Texas Medical School, P.O. Box 20708, Houston, Texas 77025. An Equal Opportunity/Affirmative Action Employer.

**BIOINORGANIC POSTDOCTORAL POSITION:** research on the chemistry, biochemistry, and mechanism of action of metal complexes with antitumor activity. See *Mol. Pharmacol.* 13, 89 (1977) and *Inorg. Chem.* 16, 569 (1977). Position available immediately. Send curriculum vitae and two to three letters of reference to Dr. David H. Petering, Department of Chemistry, University of Wisconsin-Milwaukee, Milwaukee, Wisconsin 53201. University of Wisconsin-Milwaukee is an Equal Opportunity Employer, functioning under an Affirmative Action plan.

**BIOLOGY—Small, Quaker liberal arts college** seeks Ph.D. to teach courses in vertebrate zoology, animal physiology, developmental biology, cell biology, biochemistry, and basic biology to students with wide range of abilities. Rank of assistant professor, beginning 1 September 1977. Salary range: \$11,000 to \$12,000. Send résumé and supporting materials, including three letters of reference, by 30 June to: Rebecca E. McDowell, Biology Search Committee, Wilmington College, Wilmington, Ohio 45177. An Equal Opportunity Employer.

**BIOLOGIST:** University of South Carolina at Sumter (2-year regional campus) has opening at instructor/assistant professor level beginning fall 1977. Required to teach human anatomy, human physiology to pre-nursing students, plus vertebrate and invertebrate zoology. Teaching experience desirable; Ph.D. preferred. Salary competitive with 2-year institutions. Send résumé and later, upon request, three letters of recommendation, and transcripts to: Dr. R. C. Nerburn, Chairman, Division of Science and Mathematics, University of South Carolina at Sumter, Sumter, S.C. 29150. Application must be postmarked by 24 June 1977. An Affirmative Action/Equal Opportunity Employer.

**BIOLOGY FACULTY: MICROBIOLOGY, VIROLOGY.** Two full-time, 1-year, restricted openings, beginning 1 September 1977. (i) Virologist, to teach undergraduate course in virology and to participate in undergraduate course in cell biology; (ii) microbiologist, to teach undergraduate lectures and laboratories in sophomore level microbiology course for nurses. Ph.D. preferred. Send curriculum vitae by 30 June to Dr. Stephan R. Taub, Chairman, Department of Biology, George Mason University, Fairfax, Virginia 22030. An Affirmative Action/Equal Opportunity Employer.

### DIRECTOR, CHESAPEAKE RESEARCH CONSORTIUM, INC.

Science administrator to head four-institution consortium engaged in multidisciplinary research on Chesapeake Bay problems. Salary open. Curriculum vitae, availability, and references to David Challinor, Smithsonian Building, Washington, D.C. 20560. Equal Opportunity Employer.

The Biology Department of the University of New Mexico is seeking a senior staff member who has achieved eminence in **ECOLOGICAL OR EVOLUTIONARY BIOLOGY**, and whose presence will contribute substantially to a vigorous young group in this area. Applicant should present evidence of an outstanding research record and ability to obtain funding. Send correspondence to Clifford S. Crawford, Chairman, Department of Biology, University of New Mexico, Albuquerque, N.M. 87131. An Equal Opportunity/Affirmative Action Employer

## POSITIONS OPEN

### BIOPHYSICIST

Regular faculty position in the biophysics program at Western Kentucky University beginning 15 August 1977. Duties will include instruction and research at the undergraduate and master's level. Preference will be given to individuals who have demonstrated abilities in teaching and in securing outside research funds. Ph.D. required; rank and salary dependent upon experience. The terminal degree should be in biophysics or in a closely related discipline. Additional information will be supplied upon request. Call, collect: 502-745-4357. Western Kentucky University is an Equal Opportunity/Affirmative Action Employer. Send letter of application, including a statement of research interests, complete résumé (including course work in physics, biophysics, physiology, molecular biology, and mathematics), and the names and addresses of three professional references to:

Dr. Frank Six, Chairman  
Biophysics Search Committee  
Departments of Physics and Astronomy and Biology  
Western Kentucky University  
Bowling Green, Kentucky 42101

### THE UNIVERSITY OF AARHUS, DENMARK

The Danish Ministry of Education hereby invites applications for its newly established **CHAIR OF PHYSIOLOGY** presently placed at the Institute of Physiology, The Medical Faculty, University of Aarhus, Denmark.

The successful candidate will be required to integrate within the Institute's existing scheme for the teaching of physiology to medical students. Copies of the Institute's objectives and the study guide for the student course in physiology (in Danish only) may be obtained by application to the Institute of Physiology, University Park, Aarhus, DK-8000 C, Denmark.

In the evaluation of applications, consideration will be paid as to whether the candidate can either enter or supplement existing research projects within the Institute.

Information regarding the Institute's facilities and personnel may be obtained by application to the Dean, Dr. med. Palle Juul-Jensen, Neurofysiologisk afd., Århus Kommunehospital, 8000 Århus C, telephone: (06) 12 55 55, lokal 3109.

The position is classified as that of a civil servant (salary group 37) with additional fees, p.t. approximately 18,000 D.kr. per month.

The application is to contain details of scientific production (including five copies of relevant publications), teaching qualifications, and previous teaching experience.

The full report of the evaluation committee will be sent to all applicants.

The application itself is to be addressed to the Queen and forwarded to **Journalskontoret, The University of Aarhus, Ndr. Ringgade 1, DK-8000 Århus C, Denmark.**

The application is to arrive by 30 June 1977.

### University of North Carolina—Charlotte Department of Biology Chairperson

Department with 16 full-time faculty, 300 majors, and 30 graduate students seeks applications for the **chairmanship**. Duties to begin July 1978. The department is housed in a new building and offers the B.A., B.S., and research M.S. degrees. Candidates should have a terminal degree, a firm commitment to research activities, and to undergraduate/graduate education. Résumé should be sent to: Dr. R. H. Gibson, Biology Search Committee, Department of Chemistry, University of North Carolina, Charlotte, N.C. 28223. Closing date: 12 September 1977. An Equal Opportunity/Affirmative Action Employer.

Position open for a **CLINICAL MICROBIOLOGIST**. Northwestern Memorial Hospital and Northwestern University School of Medicine, Chicago, Illinois. M.D. with experience in directing laboratory of clinical microbiology with a strong academic orientation. Active research program obligatory. Strong background in anaerobic microbiology highly desirable. **BOX 235, SCIENCE.**

Position open for **DIRECTOR OF CHEMICAL PATHOLOGY**. Northwestern Memorial Hospital and Northwestern University School of Medicine, Chicago, Illinois. M.D. with experience in directing academically oriented laboratory of chemical pathology. Ph.D. in biochemistry or equivalent experience and a research interest in lipoprotein metabolism highly desirable. Send curriculum vitae to **Box 236, SCIENCE.**

## POSITIONS OPEN

### COMPUTER SERVICES MANAGER

A position is available at the Harbor Branch Foundation, Inc., to supervise a computer service group. The incumbent will be responsible for scheduling the routing flow of data from a variety of research programs, maintaining a master data system, supplying programming expertise, developing software for interfacing analytical equipment to a minicomputer, and providing mathematical advice relating to data manipulation. Practical experience with BASIC and FORTRAN languages is essential. COBOL experience is desirable. Familiarity with minicomputers, particularly the D.E.C.-PDP 11/34 system with RT-11 and RSX-11M operating systems is preferred. Management background within a marine research facility, dealing with estuarine and oceanic biology, chemistry, fisheries, and engineering, helpful. Candidates with a working knowledge of basic and multivariate statistical procedures given strong consideration. Salary and rank competitive and commensurate with experience. Send a résumé and the names of at least three references by 1 July 1977 to:

**Dr. Marsh J. Youngbluth, Search Committee**  
Harbor Branch Foundation, Inc.  
RFD 1, Box 196  
Fort Pierce, Florida 33450  
*Equal Opportunity Employer*

The University of Arkansas, Fayetteville, is seeking a **DIRECTOR, OFFICE OF RESEARCH AND SPONSORED PROGRAMS**, who will be directly responsible to the provost and will represent the university to external funding agencies. The office serves the faculty by providing information regarding funding sources, by assisting in the preparation of proposals, and by administrative support for the University's Research Council. Applicants must have an earned doctorate and a record of sponsored research or a doctorate and experience in an analogous office. Starting date for the position is 15 August. Send application, résumé, and references by 1 July to **Dr. Jane Treat, Secretary of Search Committee, Office of Research Coordination, Room 325, Administration Building, University of Arkansas, Fayetteville, Arkansas 72701. An Equal Opportunity/Affirmative Action Employee.**

**EM TECHNICAL DIRECTOR**—1 to 2 years of work experience required in both TEM and SEM relating primarily to biological problems. Aid in graduate student instruction and assume management of four-microscope laboratory. M.S. degree preferred. Send résumé, transcripts, and three letters of reference by 20 June to: **R. E. Crang, Department of Biological Sciences, Bowling Green State University, Bowling Green, Ohio 43403. An Equal Opportunity/Affirmative Action Employer.**

**ENERGY PROFESSOR**—The University of Arkansas, Fayetteville, invites applications for a recently created research professorship in energy. Applicants should possess strong evidence of leadership in development and supervision of research programs concerned with energy systems. Challenging opportunities for research and graduate program development. Applications in writing, with résumé and at least three references, should be submitted to the **Office of the Provost, Administration #325, University of Arkansas, Fayetteville, Arkansas 72701.** Applications close 1 July 1977.  
*An Equal Opportunity/Affirmative Action Employer.*

### EPIDEMIOLOGIST CANCER CENTER UNIVERSITY OF HAWAII

Applications are invited for the position of epidemiologist in the epidemiology and demography unit of the Cancer Center of Hawaii. Candidates should have a doctoral degree (M.D., Ph.D., or equivalent) and/or research experience in cancer epidemiology. Primary responsibilities include the planning and direction of research programs within the unit, as well as collaborative activities with other programs of the Cancer Center. Opportunities are also available for teaching in the epidemiology program of the School of Public Health, University of Hawaii. Research interests related to the multiethnic setting of Hawaii are highly desirable. Closing date is 31 July 1977. Salary is negotiable. *An Equal Opportunity Employer.*

Send curriculum vitae and the names of three references to:

**Dr. Laurence N. Kolonel**  
Associate Director for Epidemiology & Demography  
Cancer Center of Hawaii  
University of Hawaii  
Biomedical Sciences D-102  
Honolulu, Hawaii 96822

## POSITIONS OPEN

### ENVIRONMENTAL PSYCHOLOGIST FOR SEPTEMBER 1977

Assistant to full professor (depending on qualifications) to set up environmental psychology masters of science program at a technological university; needs to be able to write research and training grants for the program. Light teaching load in beginning to leave time for writing proposals. Opportunity to work with engineers and other scientists on environmental problems. Send curriculum vitae and have three recommendations sent to **Box 422, Polytechnic Institute of New York, 333 Jay Street, Brooklyn, New York 11201. An Affirmative Action/Equal Opportunity Employer.**

**EPIDEMIOLOGIST-STATISTICIAN** needed by State University of New York—State College of Optometry, New York City, in fall 1977 to teach professional and graduate students in biostatistics, epidemiology, and quantitative methods. Preference will be given to persons with an interest in establishing a program in epidemiological research on visual problems. Knowledge of computers and public health is desirable. Salary will be based on qualification and experience. Send résumé and salary requirement to **Gary Jodha, Personnel Office, 100 East 24 Street, New York, New York 10010. An Equal Opportunity/Affirmative Action Employer.**

**THE FREE UNIVERSITY OF IRAN.** The Free University of Iran is accepting applications from Iranian nationals and others who can demonstrate an ability to write in Persian for positions within the Faculty of Science and Technology. The Free University's unique teaching system has been designed so that students are able to have access to the learning resources near their places of residence or work. One of the university's immediate objectives is to prepare secondary teachers of science and mathematics. Applicants should have at least an M.A. degree in one of the following fields: science education, natural science, physical sciences, or mathematics. Primary responsibilities of the Faculty of Science and Technology include preparing course materials (for example, correspondence texts, audiotapes, television programs), updating the competency-based program plan, and training and monitoring of local tutorial staff. Additional information may be obtained by writing to: **Free University of Iran, TERC, 44 Brattle Street, Cambridge, Mass. 02138.**

**FACULTY POSITION FOR FALL 1977 IN BIOCHEMISTRY.** Rank open. Ph.D. in biochemistry; 1-year replacement position. Demonstrated teaching and research capability preferred. Duties involve teaching undergraduate courses with emphasis on biochemistry and nursing chemistry. The area of research specialty should be suitable for undergraduate research participation. Please send curriculum vitae, list of publications, experience, and any supporting material including specific research interests to **Affirmative Action Committee, Office of the Academic Vice President, Drawer S, Chemistry, William Paterson College, 300 Pompton Road, Wayne, N.J. 07470. As an Affirmative Action/Equal Opportunity Employer, we invite applications from minority groups and female applicants.**

### FACULTY POSITION IN BIOCHEMISTRY

Applications are invited for a junior faculty position on the tenure-track for the 1977-78 academic year. Preference will be given to qualified persons working in the areas of translational or transcriptional controls with potential applications to eucaryotic cells. Applicants should have at least 2 years of postdoctoral experience and the demonstrated ability to initiate and develop an effective, independent research program. Effectiveness in teaching students at the medical, graduate, and postdoctoral levels is also vital. Send curriculum vitae, list of publications with reprints, names of at least three references to be used for letters supporting the above-mentioned abilities, and a summary of future research interests to **Dr. John W. Corcoran, Chairman, Department of Biochemistry, Northwestern University Medical School, 303 East Chicago Avenue, Chicago, Illinois 60611, by 8 July 1977.**

*An Equal Opportunity/Affirmative Action Employer*

**INSTRUCTOR IN PATHOLOGY.** M.D. required. Minimum of 4-year pathology residency plus 2 years of training in immunology or immunopathology; 1 January 1978 opening. Submit résumé and three letters of recommendation to:

**J. W. Grisham, M.D.**  
Chairman, Department of Pathology  
University of North Carolina  
Chapel Hill, N.C. 27514

## POSITIONS OPEN

### FACULTY POSITIONS

The Department of Anatomy, Texas College of Osteopathic Medicine, invites applications from well-qualified individuals in the areas of gross anatomy and neuroanatomy. Applicants must hold the Ph.D. degree, and preference will be given to those with postdoctoral experience and previous teaching experience in a medical environment. Candidates will be expected to engage in productive research and teach in medical and graduate programs. Positions are available immediately and in fall 1977. Salary and rank are negotiable depending upon experience and qualifications. Send curriculum vitae and three references to:

**Chairman, Department of Anatomy**  
Texas College of Osteopathic Medicine  
P.O. Box 13046  
Denton, Texas 76203

*Texas College of Osteopathic Medicine is a state-supported institution under the President and Regents of North Texas State University and is an Equal Opportunity Employer.*

### HEAD, DEPARTMENT OF BIOCHEMISTRY SCHOOL OF BASIC MEDICAL SCIENCES, CHICAGO UNIVERSITY OF ILLINOIS

A new search has been initiated for an established investigator interested in research and teaching of graduate and health science students to serve as head, Department of Biochemistry. The present department consists of faculty with funded, independent research programs. Applications and nominations of individuals committed to excellence in research and education should be addressed to: **Dr. H. Feinberg, Chairperson, Search Committee, Department of Pharmacology, 835 South Wolcott Avenue, P.O. Box 6998, Chicago, Illinois 60680.**

*The University of Illinois is an Affirmative Action Employer.*

A position is available for a Ph.D. to **HEAD** a new **tissue characterization program** in bioengineering at the University of Washington. Individual will be responsible for all aspects of the program and must have a demonstrated record of achievements in grant-supported research. Address all inquiries to **Donald W. Baker, Division of Ultrasound, FT-15, University of Washington, Seattle, Wash. 98195. An Equal Opportunity/Affirmative Action Employer.**

### LECTURER

Applications are invited for a temporary position at the level of lecturer for the 1977-78 academic year.

**MICROBIOLOGIST**—duties will include responsibility for teaching introductory microbiology and/or cytology.

**BOTANIST**—duties will include responsibility for upper division courses in morphology of vascular plants and/or general cytology.

Interested candidates should send curriculum vitae and names of three references to: **Chairman, Department of Biology, University of California, Riverside, Calif. 92521. The University of California is an Equal Opportunity Employer. Minority and women candidates as well as other qualified persons are encouraged to apply.**

**MASS SPECTROMETRY ASSISTANT SUPERVISOR** of AEI MS-902 and Finnegan GC-MS instruments. Background in electronics necessary; in vacuum technology, computer operations, and chemistry desirable. Will be required to maintain and update instruments, supervise instrument operator(s), and operate all instruments. A willingness to learn in a challenging position is important. Salary commensurate with qualifications. Available immediately. Send résumé and references to **Dr. R. J. Angelici, Department of Chemistry, Iowa State University, Ames, Iowa 50011. An Equal Opportunity/Affirmative Action Employer.**

**MICROBIOLOGIST/IMMUNOLOGIST: VERTEBRATE ZOOLOGIST.** Two faculty positions available (fall 1977) for 1 year at assistant professor level with possibility of permanent appointment. Postdoctoral research and/or teaching experience desired. Teaching responsibilities include medical microbiology, immunology, herpetology, and ichthyology. Development of strong research program encouraged. Send curriculum vitae and names of three referees to: **Search Committee, Box 335 Biology Department, Southeastern Louisiana University, Hammond, Louisiana 70402. Affirmative Action/Equal Opportunity Employer.**

## PHARMACOLOGIST

An excellent opportunity is now available for a PhD. in pharmacology with an interest and a number of years of experience in the fields of inflammation and allergy. The individual will be responsible for directing a program aimed at the discovery and development of drugs for the prevention and treatment of immunoinflammatory disorders.

Wyeth is located in suburban Radnor and offers a comprehensive benefits package. Interested individuals should send curriculum vitae to:

**Mrs. Nancy L. St. Laurent**  
Personnel Manager



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

Equal Opportunity Employer,  
M/F

## PHARMACEUTICALS REGIONAL MEDICAL ASSOCIATE PHARMACEUTICAL MARKETING

Unique opportunity for an individual to combine scientific expertise and personal skills. Responsibilities are to establish effective relationships within key medical institutions, providing scientific liaison and in-depth information essential to appropriate use of SK&F's products, will also have training responsibilities at the Representative, Medical Staff and Pharmacy level. St. Louis based, extensive travel involved. Qualifications include graduate training in a biological or pharmaceutical discipline; doctorate preferred. Must possess above average personal skills including initiative and ability to communicate effectively.

Please send resume and current earnings to:

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P. O. Box 7929  
Philadelphia, Pa. 19101

Equal Opportunity Employer M/F

THE TRUSTEES OF  
ARGONNE UNIVERSITIES ASSOCIATION  
invite nominations and applications for the position of

### PRESIDENT

Argonne Universities Association (AUA) is a corporation consisting of 30 Member universities and is incorporated under the General Not-For-Profit Corporation Act of the State of Illinois for the purpose of fostering scientific research by formulating, approving, and reviewing policies and programs of the Argonne National Laboratory and by conducting or participating in the direction, operation, and development of other scientific research laboratories and similar facilities, within or without the State of Illinois, upon approval of a majority of the Member universities.

AUA currently participates in a tripartite contract among The University of Chicago and the U.A. Energy Research and Development Administration (ERDA) to carry out AUA's obligations in the governance of the Argonne National Laboratory. Under the management responsibility of The University of Chicago, the direction of the Argonne National Laboratory is the responsibility of the Laboratory Director.

The President of AUA is the chief executive officer of AUA and is directly responsible to its Board of Trustees. The President is responsible for carrying out the contractual obligations of AUA with regard to the Argonne National Laboratory; for working with Member universities in fulfillment of AUA's purposes; and for following and, where appropriate, assisting in the emergence of national policies and programs in ERDA.

The President of AUA must have a talent for leadership and must have demonstrated administrative skills through appropriate experience in governmental or university work or both. He or she must be a college graduate with at least one or more advanced degrees in a discipline related to the activities of the Argonne National Laboratory. Full-time appointment is preferred, but parttime is not precluded. The position will be available as early as late summer, 1977.

Nominations and applications may be submitted at any time. Screening will begin immediately on receipt of application.

Professor Paul W. Gilles, Chairman  
Advisory Committee on the Selection  
of the AUA President  
Argonne Universities Association  
P. O. Box 307  
Argonne, Illinois 60439

Nominations and applications from members of minority groups and women are especially solicited.

## KINGDOM OF SAUDI ARABIA UNIVERSITY OF RIYADH COLLEGE OF SCIENCE

Academic vacancies exist in the Departments of Mathematics, Physics, Zoology, Botany, Chemistry, and Geology to commence September 1977.

Applications are invited from suitably qualified persons with specializations in analysis, algebraic topology, differential topology, algebra, probability theory, operations research, vertebrates, ornithology, embryology, molecular biology, radioastronomy, astrophysics, high energy statistical physics, cosmology, electronics, solar energy, solar cells, enzymology, analytical chemistry, physical chemistry, biochemistry, and mineralogy hydrogeology.

Qualifications: Ph.D. and related experience in teaching, at university level, and research.

Applications should be sent to the respective departments at:

**Faculty of Science  
University of Riyadh  
Saudi Arabia**

The deadline for receiving applications is 30 June 1977.



## POSITIONS OPEN

### INVESTIGATORS IN HEART RESEARCH

The Faculty of Medicine, University of Manitoba, is seeking applicants in the fields of electrophysiology, membrane proteins and phospholipids, membrane receptors and enzymes, cardiovascular pharmacology, and heart development and cell culture for faculty positions. The applicants should have a Ph.D. or M.D. with at least 2 years of research experience. The salary and rank will depend upon qualifications. Curriculum vitae and names of three references may be sent to: **Task Force for the Development of Heart Research Program, Department of Physiology, Faculty of Medicine, University of Manitoba, Winnipeg, Canada R3E 0W3.**

### MEMBRANE BIOCHEMISTRY

Postdoctoral position available immediately for a recent Ph.D. to participate in research on the structure and function of eukaryote plasma membranes. Reply with curriculum vitae and names of three references to **Dr. Gene A. Scarborough, Department of Pharmacology, School of Medicine, The University of North Carolina at Chapel Hill, Chapel Hill, N.C. 27514.**

**MIGRATORY FISH BIOLOGIST**—The Migratory Fish Research Institute, University of Maine at Orono, seeks an assistant professor of zoology. Starting academic year salary \$12,000; summer salary available. Non-tenurable position; maximum 3 years; beginning 1 September 1977. Ph.D. required. Develop and maintain active program of research on biology of migratory fishes (some research funds available). Responsibility for teaching half of two-semester vertebrate biology course; opportunity to offer advanced course and supervise graduate students. Send résumé, reprints, and three letters of reference to: **Dr. J. D. McCleave, Migratory Fish Research Institute, Murray Hall, University of Maine, Orono, Maine 04473**, by 11 July 1977.

*An Affirmative Action/Equal Opportunity Employer*

### NEUROANATOMIST

The Anatomy Department of the University of Wisconsin, Madison, Medical School, is recruiting a qualified individual, with M.D. or Ph.D. degree, to fill a faculty position in neuroanatomy at the assistant or associate professor level. The successful applicant should have an ongoing, vigorous research program aimed at improved understanding of the structure and function of the mammalian brain. In addition to research and teaching in the medical school, it is expected that the applicant will maintain a strong affiliation with the campus wide neuroscience program. Interested persons should send a curriculum vitae, a list of references, and any other supporting documents to: **Dr. David B. Slautterback, Chairman, Anatomy Department, 1255 Linden Drive, University of Wisconsin, Madison, Wis. 53706.** Women and minorities are encouraged to apply. *An Equal Opportunity Employer, M/F.*

### NEUROPHYSIOLOGIST

Research fellow/research associate position available in Department of Neurology, Harvard Medical School, for Ph.D. electrophysiologist with background in mammalian neurophysiology, to join ongoing research on physiology and morphology of normal and pathological axons. Experience with mammalian extracellular and/or intracellular recording is essential. Send curriculum vitae, reprints of publications, and three letters of recommendation to: **Stephen G. Waxman, M.D., Ph.D., Harvard Neurological Unit, Beth Israel Hospital, 330 Brookline Avenue, Boston, Mass. 02215.** *An Equal Opportunity/Affirmative Action Employer.*

Wanted: A **PHYSICIAN** with a minimum of 3 years of experience in internal medicine and a minimum of 4 years of experience in medical oncology. The person must be familiar with bone marrow transplantation and have previous laboratory immunological research experience. **Fred Hutchinson Cancer Research Center, 1124 Columbia Street, Seattle, Washington 98104.**

**POSTDOCTORAL FELLOW—RESEARCH ASSOCIATE:** position now available for person with minimum of 1 to 2 years postdoctoral experience and strong background in tissue culture, somatic cell genetics and molecular biology for studies on cellular aging. Two to 3 years, with excellent possibility of renewal or permanent position. Salary \$13,000 to \$15,000 depending on experience. Send curriculum vitae and names of three references to **Dr. Samuel Goldstein, Department of Medicine, McMaster University, Hamilton, Ontario, Canada L8S 4J9.**

## POSITIONS OPEN

Texas A & M University has an **OPENING** beginning September 1977 for a Ph.D. with training and experience in the application of biological principles and technology to environmental problems. This person will assist in training graduate students for the industrial and business communities where environmental needs and regulations of governmental agencies are important considerations in their operations.

Salary and rank are negotiable for the 12-month appointment. Submit curriculum vitae, three letters of recommendation, publications list, and a statement of research plans by 30 June to: **Dr. James G. Teer, Professor and Head, Department of Wildlife and Fisheries Sciences, Texas A & M University, College Station, Texas 77843.** *Texas A & M University is an Equal Opportunity/Affirmative Action Employer.*

**DEPARTMENT OF PHARMACOLOGY.** Recent Ph.D. in cellular biology or biochemistry. Research in cellular differentiation, leukemia, and immune diseases with emphasis on regulation of purine metabolism. Send résumé to or contact: **M. Kerans, Personnel Department, New York University Medical Center, 587 First Avenue, New York 10016; telephone: 212-679-3200, extension 2647.** *An Equal Opportunity/Affirmative Action Employer, M/F.*

### PHYSIOLOGIST

The Department of Biology seeks to fill temporary 9-month teaching position at assistant professor level, beginning 15 August 1977. Responsibilities include an undergraduate physiology course at cellular and organ/system level, an advanced physiology course in area of expertise, and participation in team-taught introductory biology course. Send curriculum vitae, transcripts, reprints, and three letters of evaluation by 15 July to **Dr. Omer Larson, Department of Biology, University of North Dakota, Grand Forks, N.D. 58202.** *An Affirmative Action/Equal Opportunity Employer.*

### POSTDOCTORAL POSITION

Position available 1 July 1977 for training in clinical laboratory immunology at North Carolina Memorial Hospital. Applicant should have Ph.D. or M.D. degree with strong background in immunology and an interest in clinical immunology. The purpose of the program is to train individuals to develop and run clinical immunology laboratories. Program is designed to provide training in serology, immunochromatography, cellular immunology, immunohematology and radioimmunoassay with time also available for research in any of the above areas. Interested applicants should send curriculum vitae and two letters of reference to: **Co-ordinator, Clinical Laboratory Immunology Program, Clinical Microbiology Laboratories, North Carolina Memorial Hospital, University of North Carolina, Chapel Hill, N.C. 27514.** *An Equal Opportunity Employer.*

**POSTDOCTORAL POSITIONS (2).** To work in environmental biology program. Available immediately. Background in plant biochemistry and/or plant physiology preferred. Projects: metabolism of SO<sub>2</sub> in plants; effects of combinations of air pollutants on plants. Send curriculum vitae and two references to:

**Dr. Leonard H. Weinstein  
Boyce Thompson Institute  
1086 North Broadway  
Yonkers, N.Y. 10701**

*An Equal Opportunity/Affirmative Action Employer*

**POSTDOCTORAL POSITION** available immediately for studies in metal kinetics and toxicology. Applicants should be interested in applying techniques of biochemistry, pharmacokinetics, and isolated perfused organ preparations to the investigation of metal kinetics in mammalian systems. Interested persons should send curriculum vitae, transcripts, and two letters of reference to: **Dr. John M. Frazier, Department of Environmental Health Sciences, Johns Hopkins University, 615 North Wolfe Street, Baltimore, Md. 21205.** *An Equal Opportunity/Affirmative Action Employer.*

**POSTDOCTORAL POSITION IN RENEWABLE RESOURCES** available 1 July 1977 to study the fungal metabolism of lignin and the delignification of wood. Strong background in biochemistry necessary; experience in genetics desirable. Salary range \$10,000 to \$12,000 per year depending upon experience. Submit curriculum vitae including names of references to **Dr. M. H. Gold, Department of Chemistry and Biochemical Sciences, Oregon Graduate Center, 19600 NW Walker Road, Beaverton, Oregon 97005.** *An Equal Opportunity Employer.*

## POSITIONS OPEN

**POSTDOCTORAL POSITIONS:** A Cooperative Institute for Marine and Atmospheric Studies (CIMAS) is being established jointly by NOAA and by the University of Miami on the Virginia Key Campus of the university. The program of CIMAS will be focused initially upon the study of oceanic variability and its effect on the annual and inter-annual evolution of the atmospheric circulation and the climate. Several postdoctoral positions are expected to be available in the near future for qualified scientists with interest in the relevant modeling and data studies. Please address inquiries with curriculum vitae to: **Dr. E. B. Kraus, CIMAS, 4600 Rickenbacker Causeway, Miami, Florida 33149.** *An Equal Opportunity/Affirmative Action Employer*

### POSTDOCTORAL POSITION

Opportunity available for postdoctoral training in cardiovascular and pulmonary physiology effective 1 July 1977. One area of interest concerns possible alterations in electrical and mechanical properties of cardiac muscle during hypertrophy. A second area of research concerns the membrane properties of alveolar macrophages. Contact:

**Dr. Rodney L. Parsons  
Department of Physiology and Biophysics  
University of Vermont College of Medicine  
Given Medical Building  
Burlington, Vermont 05401**

*An Equal Opportunity/Affirmative Action Employer*

**POSTDOCTORAL POSITION** available immediately for a recent Ph.D. in biochemistry or molecular biology. Project: molecular basis of hormonal regulation of mammalian enzyme development. Salary commensurate with background. Basic research laboratories of university affiliated hospital. Send résumé and names of two or more references to: **Muriel Feigelson, Ph.D., Departments of Biochemistry and of Obstetrics-Gynecology, Columbia University-Roosevelt Hospital, 428 West 59th Street, New York, N.Y. 10019.** *An Equal Opportunity Employer.*

### POSTDOCTORAL POSITION

Available 1 September 1977. Recent Ph.D. or equivalent in biochemistry or microbiology, for study of mechanism of bacterial energy conservation. Research experience in enzymology or structure or function of membrane required. One-year appointment, renewable. Stipend: \$11,000 for first year. Send curriculum vitae and three letters of reference to **Dr. Daniel DerVartanian, Department of Biochemistry, Boyd Graduate Studies Research Center, University of Georgia, Athens, Georgia 30602.** *The University of Georgia is an Equal Opportunity/Affirmative Action Employer.*

### THE OHIO STATE UNIVERSITY

Applications are invited for an immediate postdoctorate assignment involving work specializing in the induction of DNA damage and its repair by energy-related by-products with special emphasis on polycyclic aromatic hydrocarbons. Applicants should preferably have a strong background in nucleic acid research, cell culture, enzymology, and mammalian cell mutagenesis. All appointments are for a minimum of 2 years, but may be prolonged for up to 3 years. Salary range is negotiable. *We are an Equal Opportunity Employer.* Applications should be sent as soon as possible to:

**The Chemical and Biomedical  
Environmental Research Group  
The Ohio State University  
Room N-212, 410 West 10th Avenue  
Columbus, Ohio 43210**

**POSTDOCTORAL TEACHING-RESEARCH POSITION IN BIOCHEMISTRY**—The Department of Biochemistry has an opening for a 2-year temporary position which may lead to a permanent appointment. The individual filling this position will assist in teaching a general biochemistry course and will teach an advanced course in amino acid metabolism and protein biosynthesis. Preference will be given to applicants with interests in nutritional biochemistry or physiological chemistry. The individual will be expected to participate in an ongoing research program in fish biochemistry or nutrition. Salary will be competitive and for 12 months. Send curriculum vitae, graduate transcripts, reprints, and three letters of recommendation to: **Dr. R. P. Wilson, Department of Biochemistry, Mississippi State University, P.O. Drawer BB, Mississippi State, Miss. 39762.**

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

## POSITIONS OPEN

**POSTDOCTORAL RESEARCH FELLOW.** Research and training on the control of protein hormone biosynthesis in differentiated eukaryotic cells in culture. Experience in methods of protein synthesis and gel analysis of RNA and proteins is desirable. May start from 1 September 1977. Applications should include curriculum vitae, list of publications, and names of three references. Send to: **Secretary, Laboratory of Pharmacology, Harvard School of Dental Medicine, 188 Longwood Avenue, Boston, Mass. 02115.**

**POSTDOCTORAL RESEARCH SERVICE AWARD:** available immediately. Ph.D., M.D., or D.D.S. with an interest in connective tissue metabolism. The award is sponsored by the National Institute of Dental Research. Person should be a United States citizen or resident and have some familiarity with the techniques employed in the areas of mineral metabolism and/or protein isolation. Send curriculum vitae and references to: **Dr. R. B. Rucker, University of California, Department of Nutrition, Davis, Calif. 95616.** The University of California is an Equal Opportunity and Affirmative Action Employer.

### RESEARCH ASSOCIATE OR FELLOW IN DERMATOLOGY AT HARVARD MEDICAL SCHOOL

Expanding interest in molecular, biochemical, and photobiological research in mammalian skin requires a postdoctoral associate to study the fundamental aspects of photosensitization, protein-nucleic acid interaction, photo cross-linking, DNA damage and repair, and photochemical alterations in epidermal proteins and enzymes. Knowledge in spectroscopy, chromatography, fluorimetry, radioisotopes, and tlc techniques is desirable. Biochemists or organic chemists with a background in enzymes of DNA metabolism or drug metabolism are eligible. Salary commensurate with experience. Eligible individuals should send a letter naming three references, a statement of interest, and a résumé to: **Dr. Madhu A. Pathak, Department of Dermatology, Massachusetts General Hospital, Boston, Mass. 02114.** An Affirmative Action/Equal Opportunity Employer.

## POSITIONS OPEN

**PROFESSOR OF CELLULAR AND DEVELOPMENTAL GENETICS**—State University of New York at Stony Brook is establishing a new research and teaching center within the division of biological sciences and invites applications for the position of **DIRECTOR**. The academic program of the center will contribute to the curriculum of the undergraduate majors in biology and biochemistry in the areas of cell biology, developmental biology, and genetics, and will encompass a graduate program in cell and developmental biology, and possibly a graduate program in genetics. Deadline for applications: 1 August 1977. Respond to: **Professor Monica Riley, Chairman, Search Committee, Biochemistry Department, State University of New York, Stony Brook, N.Y. 11794.** Equal Opportunity/Affirmative Action Employer.

### RADIATION MEDICINE FACULTY POSITION

Assistant/associate professor, full-time position for American Board-qualified or -certified radiation oncologist. Applicant must have M.D. Radiation Therapy Oncology Center with broad research, service and educational programs. Salary commensurate with training, previous experience, and research background. Application should include curriculum vitae, bibliography, and names of three professional references. Reply to:

**Chairman, Department of Radiation Medicine  
A. B. Chandler Medical Center  
University of Kentucky Medical Center  
Lexington, Kentucky 40506**  
An Equal Opportunity Employer

University **RESEARCH ASSOCIATE.** Postdoctoral position to work on Great Lakes atmospheric aerosol physical, chemical, and meteorological characterization. Ph.D. (or equivalent research experience) in atmospheric sciences or related field with interest in atmospheric aerosol optical analysis and meso- and micro-meteorology. Available September. Send letter, résumé, and names of three references to: **Dr. H. Sievering, College of Environmental Science, Governors State University, Park Forest South, Ill. 60466.** An Equal Opportunity Employer.

## POSITIONS OPEN

### PULMONARY PHYSIOLOGY RESEARCH

Research position available in field of mammalian pulmonary physiology at the Toxic Hazards Research Unit, Wright-Patterson Air Force Base, Dayton, Ohio. This position will have an adjunct professorship of appropriate rank in the University of California, Irvine. Collaborative research conducting physiologic studies in animals exposed to airborne materials of environmental/occupational interest. Requires Ph.D. in physiology or related field and 2 years of postdoctoral research, experienced in pulmonary measurements in intact laboratory animals. Preference given applicants experienced in inhalation toxicology and published independent work. Opportunities to participate in training of graduate students of University of California, Irvine, may be available. Closing date for applications is 11 July. Applications from all qualified candidates are welcome; minorities and women are encouraged to apply. Submit complete curriculum vitae and names of at least three references to: **Dr. J. D. MacEwen, University of California, Toxic Hazards Research Unit, Overlook Branch, P.O. Box 3067, Dayton, Ohio 45431.**

**RESEARCH ASSOCIATE:** Immediate opening for a well-trained Ph.D. in steroid biochemistry, cholesterol metabolism, and enzymology related to experimental atherosclerosis; salary negotiable. Please send résumé to: **Dr. Mushtaq A. Khan, Room 10-023 HHA, University of Maryland School of Medicine, Baltimore, Maryland 21201.** An Affirmative Action/Equal Opportunity Employer.

**VISITING SCHOLAR, WOMEN'S PHYSIOLOGIST.** St. Olaf College seeks a distinguished visiting scholar in physiology for a 1-month residency, January 1978. Position is part of a St. Olaf program designed to increase awareness and understanding of women's roles and careers. Visiting scholar will teach course in women's physiology, give convocation address, and lead discussions with college community. Must be good undergraduate teacher. Ph.D. or M.D. required. Salary and expenses. Send résumé by 15 June to **Arnold Petersen, Chair, Department of Biology, St. Olaf College, Northfield, Minn. 55057.**

# Materials Scientist

**GS-15, \$33,789-\$43,923**  
(depending on qualifications)

Plans, initiates, organizes, budgets, supervises and coordinates contract research programs involving the use of metals, alloys and ceramics for naval requirements. Directs a staff of metallurgists and a ceramicist. PhD or equivalent in metallurgy, ceramics, chemistry (inorganic) or physics with knowledge of the properties of metals, ceramics and special materials; recognized scientific stature; familiarity with industrial and technological processes and wide personal acquaintance with industrial and university research scientists.

Send resume or SF-171 by 15 July 1977 to:

Office of Naval Research (7212)  
800 N. Quincy Street  
Arlington, Va. 22217  
ATTN: E. Roadman # 77-19

Equal Opportunity Employer



**Rijksuniversiteit Utrecht**

**STATE UNIVERSITY OF UTRECHT,  
NETHERLANDS**

The Department of Geology & Geophysics of the state University of Utrecht, The Netherlands invites applications for the position of

### PROFESSOR IN METEOROLOGY

Applicants will be responsible for teaching of meteorology, with special attention to students whose principal subject is meteorology. The candidate will also be expected to encourage research in this field.

Preference will be given to meteorologists or physicists interested in meteorology, with a broad experience with research in meteorology.

The successful candidate will be a member of the Department of Meteorology and Physical Oceanography with an academic staff of 8 of which 3 are professors/readers.

He will be expected to cooperate with the Royal Meteorological Institute K.M.N.I., with respect to the facilities which this institute can offer to both education and research, and to contribute to the organizational studies of the department.

Salary is in the range of Dfl. 5.931,— and Dfl. 9.313,—monthly, depending on age and experience.

Applications, including a curriculum vitae and a list of publications, should be directed before October 1st, 1977 to the application board, Instituut voor Meteorologie en Oceanografie, Princetonplein 5, Utrecht/de Uithof.

Further information can be provided there.

## POSITIONS OPEN

**RESEARCH ASSOCIATE**, Energy Systems Laboratory, to gather and analyze technical data related to a variety of energy systems, assist in preparation of technical reports, and provide support to senior staff. Requires B.S. in mathematics, engineering, or science with 1 to 3 years of experience in energy related field, experience in computer programming Fortran and/or Basic. Familiarity with solar and other energy conversion systems helpful. Starting salary \$12,000. Application deadline: 8 July 1977. Send résumé and three letters of reference to J. O. Bradley, Personnel Office, Desert Research Institute, University of Nevada System, P.O. Box 60220, Reno, Nevada 89506. An Affirmative Action/Equal Opportunity Employer.

**RESEARCH ASSOCIATE**: Postdoctoral position to study the physical chemistry and functional aspects of normal and mutant hemoglobins, their subunits, and large fragments obtained from them by specific peptide cleavages.

The laboratory is equipped with all the basic instrumentation necessary for carrying out the projects. Instruments either available in the laboratory or readily accessible for use include: amino acid analyzer, model E ultracentrifuge with monochromator, Cary 14 recording spectrophotometer, Jasco J-20 spectropolarimeter (ORD and CD), graphic computer terminals, stopped flow and temperature jump apparatuses, nanosecond fluorimeter, EPR equipment, pH meters equipped with recorder and motorized burets.

The position is available immediately.

Initial salary is \$12,000 per year.

Physicochemical background is required.

Send curriculum vitae including names of references and representative publications to Dr. Enrico Bucu, Department of Biochemistry, University of Maryland, 660 West Redwood Street, Baltimore, Maryland 21201.

**SABBATICAL REPLACEMENT, BIOCHEMISTRY**: at a postdoctoral or faculty level for a period of less than, but not more than, 1 year, from 1 July 1977 to 30 June 1978. The position involves instruction at the graduate level and active participation in research. Salary commensurate with experience. Send résumé and name of three references to Dr. K. Ebner, Chairman, Department of Biochemistry, University of Kansas Medical Center, Kansas City, Kansas 66103. An Equal Opportunity/Affirmative Action Employer.

## UNIVERSITY OF QUEENSLAND SENIOR TUTOR IN BIOCHEMISTRY

Applicants should have as minimum qualifications an honours science degree, but preferably a higher degree. Applicants should indicate their research interests. They will be required to do some lecturing and direct some laboratory classes. Preference will be given to applicants with interests in molecular biology. Quote Reference No. 21977, 4.7.77.

Salary: A\$12,148 to A\$13,964 per annum.

Other benefits: superannuation, housing assistance, traveling, and removal expenses.

Additional information and application forms are obtainable from the Staff Officer, University of Queensland, St. Lucia, 4067, Queensland, Australia.

## WRITER

The News and Comment section of *Science* has an immediate opening for a beginning reporter interested in covering science and public affairs. Some knowledge of science or technology is desirable but not mandatory. Applicants must have the equivalent of at least 1 year's reporting or writing experience either at the professional level or on college publications. Interested persons should send résumés, no more than three writing samples, and the names, addresses, and telephone numbers of three references to:

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Personnel Associate  
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## REQUEST FOR COMMENTS

The Cosmetic Ingredient Review (CIR) was established by the cosmetic industry to evaluate the safety of ingredients used in cosmetic products. The review is to be performed by an expert panel of scientists. The CIR procedures require development of a priority list of ingredients to be reviewed by the expert panel and solicitation of comments on such list. A list of 189 cosmetic ingredients and an explanation of the method used to develop the list are available for comment upon request to Administrator, Cosmetic Ingredient Review, Suite 1275, 1133 15th Street NW, Washington, D.C. 20005. The procedures for the program are also available at the same address.

## FELLOWSHIPS

### POSTDOCTORAL FELLOWSHIP Hemophilia Research

Position available for M.D. or Ph.D. for electron microscope and tissue culture studies of hemophilia. Fellow will be associated with the research and clinical groups concerned with joint problems in hemophilias. For further information, send curriculum vitae to: Shelby L. Dietrich, M.D., Director of Research, Orthopaedic Hospital, 2400 South Flower Street, Los Angeles, California 90007.

### POSTDOCTORAL FELLOWSHIP

To work in experimental pathology on effects of calcium on trauma. Position available immediately. Contact: J. M. Powers, M.D., Professor of Pathology, Medical University of South Carolina, 171 Ashley Avenue, Charleston, S.C. 29403.

## FELLOWSHIPS

Two-year **POSTDOCTORAL RESEARCH FELLOWSHIP** available immediately in lens biochemistry or biophysics at the Jules Stein Eye Institute, University of California at Los Angeles. Eligibility limited to United States citizens and permanent residents. The position should attract someone wishing to work on problems dealing with the biochemistry or molecular biology of the lens. General problems include (i) changes in molecular weight of lens crystallin during development and aging; (ii) properties of the fiber membranes of the lens; and (iii) subcellular localization of lens proteins and enzymes. Send curriculum vitae and statement of research interest to Dr. Joseph Horwitz, Jules Stein Eye Institute, UCLA Center for Health Sciences, Los Angeles, Calif. 90024. An Equal Opportunity/Affirmative Action Employer.

### POSTDOCTORAL FELLOWSHIP

Position available immediately for Ph.D. in biochemistry/pharmacology who is interested in studying the effects of alcohol and drug abuse on the CNS cyclic nucleotide system. Salary comparable with MRC (Canada) standards. Interested candidates should send résumé and three letters of reference to:

Dr. R. K. Mishra  
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## TRAINING PROGRAM

### TRAINING PROGRAM IN SENSORY PHYSIOLOGY AND BIOPHYSICS WASHINGTON UNIVERSITY, ST. LOUIS

Predocutorial and postdoctoral training opportunities are available in the physiology and biophysics of sensory systems, ranging from peripheral receptors to central nervous system mechanisms. Quantitative, computer-based approaches are emphasized. The program is multidisciplinary: morphology, biochemistry, physiology, biophysics, psychology, and bioengineering as applied to the study of sensory systems. Tuition and stipends for predoctoral trainees and stipends for postdoctoral trainees available from a National Research Service Award Institutional Grant. For a list of the research interests of the 11 faculty members associated with the program and for direction for applying, write to: Dr. C. C. Hunt, Department of Physiology, Box 8101, Washington University School of Medicine, 660 South Euclid Avenue, St. Louis, Missouri 63110.

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