

Ott and Jeremy Bigwood, Eds. Madrona, Seattle, 1978. x, 178 pp., illus. + plates. Cloth, \$14.50; paper, \$8.95.

Textbook of Nuclear Medicine. Basic Science. Antonio Fernando Gonçalves Rocha and John Charles Harbert. Lea and Febiger, Philadelphia, 1978. xx, 412 pp., illus. \$27.50.

Theory of Planetary Atmospheres. An Introduction to Their Physics and Chemistry. Joseph W. Chamberlin. Academic Press, New York, 1978. xiv, 330 pp., illus. \$29.50. International Geophysics Series, vol. 22.

Thermodynamic Formalism. The Mathematical Structures of Classical Equilibrium Statistical Mechanics. David Ruelle. Addison-Wesley Advanced Book Program, Reading, Mass., 1978. xx, 184 pp. \$21.50. Encyclopedia of Mathematics and Its Applications, vol. 5. To order circle 578 on Reader Service Card.

Topographic Positions of the Measurement Points in Electro-Acupuncture. Vol. 3. Reinhold Voll. Translated from the German edition (Uelzen, 1978) by Hartwig Schuldt, Medizinisch, Literarische Verlagsgesellschaft, Uelzen, Germany, 1978 (U.S. distributor, ISBS, Forest Grove, Ore.). 152 pp., illus. \$67.50. To order circle 579 on Reader Service Card.

Toward Paperless Information Systems. F. W. Lancaster. Academic Press, New York, 1978. xii, 180 pp., illus. \$13.50. Library and Information Science.

The Tree Key. A Guide to Identification in Garden, Field and Forest. Herbert Edlin. Illustrated by Ian Garrard. Scribner, New York, 1978. 280 pp. Cloth, \$14.95; paper, \$8.95.

Two Centuries of Federal Information. Burton W. Adkinson. Dowden, Hutchinson and Ross, Stroudsburg, Pa., 1978 (distributor, Academic Press, New York). xiv, 236 pp., illus. \$26. Publications in the Information Sciences.

United Nations Water Conference. Summary and Main Documents. Mar del Plata, Argentina, Mar. 1977. Asit K. Biswas, Ed. Published for the United Nations by Pergamon, New York, 1978. xviii, 218 pp. \$28. Water Development, Supply and Management, vol. 2. To order circle 580 on Reader Service Card.

Wetting, Spreading and Adhesion. Papers from a symposium, Loughborough, Leicestershire, England, Sept. 1976. J. F. Padday, Ed. Academic Press, New York, 1978. xiv, 498 pp., illus. \$48.90.

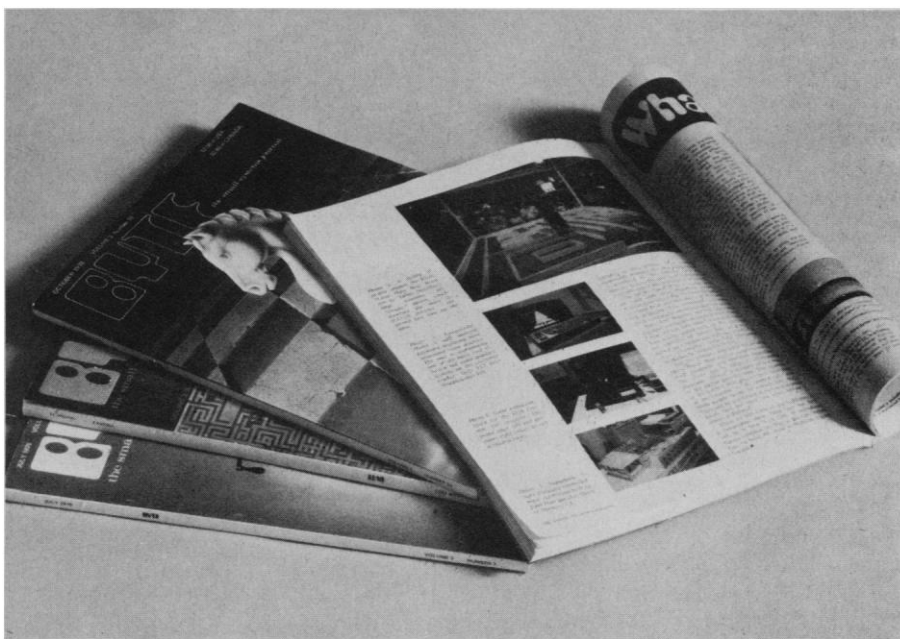
What Is Sociology? Norbert Elias. Translated from the German edition (Munich, 1970) by Stephen Mennell and Grace Morrissey. Columbia University Press, New York, 1978. 188 pp. \$13.50. European Perspectives Series.

Wind Forces in Engineering. Peter Sachs. Pergamon, New York, ed. 2, 1978. x, 400 pp., illus. \$40. To order circle 581 on Reader Service Card.

Women's Proper Place. A History of Changing Ideals and Practices. 1870 to the Present. Sheila M. Rothman. Basic, New York, 1978. xiv, 322 pp. + plates. \$12.50.

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Biochemist. Ph.D. enzyme, nucleic acid purification; restriction enzymes; translation; hybridization; cell culture. Seeks academic, government, industrial position in health related research. Box 124, SCIENCE. 4/13, 20

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Fishery Biologist. M.A. Experienced in ecology, taxonomy, migratory, reproductive, and scale characteristic studies. Publications. Computerization and data capture experience. Seeks research, consulting, or teaching position. Box 125, SCIENCE. X

Geneticist/Cytogeneticist. Ph.D. 1977. Postdoctoral research experience in genetics of recombination, ultrastructural studies of oogenesis in *Drosophila* and microsporogenesis in maize. Publications. Seeking research or research/teaching position. Box 126, SCIENCE. 4/13, 20

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POSITIONS OPEN

ACADEMIC OPENING—RESEARCH ASSISTANT

Immediate opening in a biochemical genetic research laboratory for individual with a master of science in chemistry or biochemistry. Candidate should have at least 2 years of experience in high-pressure liquid chromatography, and other protein and peptide analytical techniques. Additional experience in atomic absorption spectrophotometry, gas chromatography, and tissue culture is preferred. Send résumé to:

Owen M. Rennert, M.D.
Department of Pediatrics
P.O. Box 26901
Oklahoma City, Okla. 73190

The Department of Neurology, Wright State University School of Medicine, is recruiting Board-eligible certified academic **ADULT** and **CHILD NEUROLOGISTS** committed to, and with demonstrated excellence in, the teaching of clinical neurology. Research or subspecialty is desirable. Must have or be eligible for Ohio medical licensure. Contact: Samuel E. Pitner, M.D., Chairman, Department of Neurology, P.O. Box 927, Dayton, Ohio 45401. An Equal Opportunity/Affirmative Action Employer.

ANATOMIST

The Ohio College of Podiatric Medicine is seeking a qualified human anatomist, to fill an assistant professor position, commencing 1 August 1979. The position will involve participation in teaching gross anatomy to medical students. Necessary qualifications include the Ph.D. and/or D.P.M. degree, demonstrated teaching ability, and knowledge of other anatomical disciplines. Research is encouraged. Send résumé, along with names of three referees, by 1 May 1979 to: Dr. R. N. Iyer, Director, Division of Basic Sciences, Ohio College of Podiatric Medicine, 10515 Carnegie Avenue, Cleveland, Ohio 44106. Equal Opportunity Employer.

Trinity University, a liberal arts institution with 2500 undergraduates, 800 graduates, and about 200 faculty, invites applications for a 1-year term appointment as **ASSISTANT PROFESSOR** in the Department of Environmental Studies beginning 15 August 1979. The vacancy may arise because of the departure of one of the present faculty. The program leads to a B.A. degree in environmental studies and features topics in population, environmental degradation, resource depletion, and social stress. Most of the courses in the department are multidisciplinary in nature rather than modifications of courses from the classical disciplines. Requirements include a Ph.D. in either social or natural science, plus a willingness to develop both laboratory and recitation courses. Apply to: Dr. G. Goring, Chairman, Environmental Studies Department, Trinity University, 715 Stadium Drive, San Antonio, Texas 78284. An Equal Opportunity/Affirmative Action Employer.

ASSISTANT OR ASSOCIATE PROFESSORS Departments of Chemistry and Mathematics

Applications are invited for one **physical chemist** and one **mathematician** with a strong area of specialization in computer science beginning September 1979. There are tenure-track appointments with a 9-month salary initially in the \$12,000 to \$16,000 range. Duties will include teaching and research. The primary teaching responsibility will be in undergraduate chemistry and mathematics.

Completed curriculum vitae and three letters of recommendation should be sent to: Dr. Verna R. Lawson, Chairman, Division of Science and Mathematics, Bethune-Cookman College, Daytona Beach, Florida 32015. Applications should be sent promptly and be completed by 1 June 1979.

POSITIONS OPEN

ASSISTANT PROFESSOR

Indiana University Northwest announces tenure-track position for an **ECOLOGIST** at rank of assistant professor effective August 1979. Ph.D. required. Teaching experience preferred. Teaching load is 9 hours per semester at the undergraduate and graduate level in the areas of introductory zoology and general and applied ecology. Additional experience in aquatic biology/limnology and field or environmental biology desirable. Send curriculum vitae and three references by 30 April 1979 to: Dr. P. K. Bhattacharya, Chairman, Department of Biology, Indiana University Northwest, Gary, Indiana 46408.

Affirmative Action/Equal Opportunity Employer

ASSISTANT PROFESSOR, DEPARTMENT OF BIOCHEMISTRY. Applicants must have Ph.D. degree and postdoctoral training in molecular or cellular immunology. Position (initially nontenured) involves participation in collaborative research programs in genetic control of the immune response and developing own research programs. Limited responsibilities in graduate immunobiology program. Send complete curriculum vitae, summary of present and future research, and three letters of reference to: Dr. Paul H. Maurer, Department of Biochemistry, Jefferson Medical College, Thomas Jefferson University, 1020 Locust Street, Philadelphia, Pa. 19107. Equal Opportunity/Affirmative Action Employer.

ASSISTANT PROFESSOR OF BIOCHEMISTRY AT VANDERBILT UNIVERSITY

The Department of Biochemistry invites applications from highly qualified individuals for a faculty position at the rank of assistant professor. The primary requirement is promise of excellence in teaching and research, but preference will be given to applicants with demonstrated competence, including relevant postdoctoral experience and publications in the biochemistry of cell surface receptors and enzymes in relation to growth regulation in eukaryotic cells. The position will be available 1 September 1979, but some flexibility in starting date is possible.

Applicants should submit curriculum vitae including a list of publications, a brief description of their proposed research, and the names of three references to: Chairman, Department of Biochemistry, Vanderbilt University Medical Center, Nashville, Tennessee 37232. Vanderbilt University is an Equal Opportunity/Affirmative Action Employer.

ASSISTANT PROFESSOR OF BIOLOGY

Full-time (renewable annual appointment) in liberal arts college available September 1979, for an individual with interests and training requisite to teach advanced undergraduate courses in plant physiology and organic evolution, as well as shared teaching duties in the general biology sequence for majors. Applicants should possess a Ph.D. degree and a commitment to quality instruction at the undergraduate level. Applicants are invited to submit curriculum vitae and three letters of reference to: Frederick A. Giere, Chairman, Department of Biology, Lake Forest College, Lake Forest, Illinois 60045.

Equal Opportunity/Title IX Employer

ASSISTANT PROFESSORS OF CHEMISTRY. Tenure-track starting 16 August 1979. Physical chemist with interest in kinetics or quantum chemistry. Analytical chemist with interest in solution chemistry and instrumentation. Ph.D. required. Will teach general chemistry and undergraduate courses in areas of specialization. Research opportunities. Civil Service position. Send résumé, statement of interests, and names of three references to: Dr. Samuel P. Massie, Chairman, Chemistry Department, U.S. Naval Academy, Annapolis, Md. 21402. Equal Opportunity/Affirmative Action Employer.

BEHAVIORAL NEUROCHEMIST. The University of California, Irvine, College of Medicine, Department of Pharmacology, invites applications for the position of **associate adjunct professor**. Ph.D. in neuroscience or biophysics and 5 to 10 years of demonstrated excellence in research required. Duties: establish computerized laboratory for research in behavioral pharmacology, and teaching and supervision of medical and graduate student research. Professional expertise in behavioral methods, biomedical electronics and computer programming, CNS pharmacology and neurochemistry essential. All qualified candidates welcome; minorities and women encouraged to apply. Send curriculum vitae and three references to: Thomas L. Nelson, M.D., University of California, College of Medicine, Irvine, Calif. 92717. Closing date: 21 May 1979.

POSITIONS OPEN

ASSOCIATE DEAN FOR GRADUATE STUDIES AND RESEARCH THE UNIVERSITY OF HOUSTON COLLEGE OF OPTOMETRY

We are seeking applications from individuals with proven research and administrative ability. Responsibilities will include directing an existing program leading to a Ph.D. in physiological optics, encouraging the continued development of clinical and basic science research within the college, as well as organizing and carrying out a sustained personal program of vision research.

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Interested persons should direct their résumés and/or inquiries to:

James W. Walters, O.D., Ph.D.
University of Houston
College of Optometry
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Telephone: 713-749-4102

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ASSOCIATE DEAN FOR ACADEMIC AFFAIRS—University of Illinois College of Medicine at Urbana-Champaign. M.D. or M.D./Ph.D. Unique administrative opportunity in community-based medical school on campus of major university which emphasizes M.D./Ph.D. training. The successful candidate must have commitment to undergraduate medical education and must subscribe to the importance of research in both the basic sciences and health care delivery. The position is full-time with salary and starting date negotiable. In order to receive full consideration, applications should be submitted by 1 May 1979. Send curriculum vitae and names of five references to: **Daniel K. Bloomfield, M.D., Dean, Schools of Basic Medical Sciences and Clinical Medicine, University of Illinois, 190 Medical Sciences Building, Urbana, Illinois 61801; telephone: 217-333-9284.** *The University of Illinois is an Affirmative Action/Equal Opportunity Employer.*

ASSOCIATE OR FULL PROFESSOR position available for biostatistician experienced in clinical trials and epidemiology to join active research group. Excellent benefits. *Equal Opportunity Employer.* Contact: **Dr. Pike at 213-226-2434.**

ASSOCIATE PROFESSOR

Duties: research and teaching in human genetics. Training: doctorate in biochemistry or genetics and extensive research experience in human cytogenetics and DNA/DNA and DNA/RNA hybridization methods, including cytological hybridization in situ. Must have significant publication record and ability to mobilize research support.

Application deadline: 4 May 1979.

Candidates should send curriculum vitae, publication reprints, and three letters of reference to: **Dr. Robert S. Krooth, Chairman, Department of Human Genetics and Development, College of Physicians and Surgeons, 701 West 168 Street, New York, N.Y. 10032.** *Equal Opportunity/Affirmative Action Employer.*

BIOLOGICAL NMR SPECTROSCOPIST. The Purdue Magnetic Resonance Laboratory (a Research Resource supported by the Division of Research Resources, NIH) has an opening for an **operations director** beginning April 1979. Qualifications: extensive experience in NMR spectroscopy of biological or organic systems using high-field superconducting solenoid spectrometers, NMR electronics, and computer programming. A Ph.D. degree is desirable but not necessary. The appointment will be in a professional service position (nontenure) with the starting salary from \$15,000 to \$20,000, depending on qualifications. Duties include routine scheduling and maintenance of two spectrometers, assisting internal and external users in designing and carrying out experiments, and instrumental development. Collaborative research will be encouraged. Write, enclosing curriculum vitae, a summary of research interests, and the names of three references, to: **Professor John L. Markley, Purdue University Biochemical Magnetic Resonance Laboratory, Department of Chemistry, Purdue University, West Lafayette, Indiana 47907.** *Purdue University is an Equal Opportunity/Affirmative Action Employer.*

POSITIONS OPEN

ASSOCIATE OR FULL PROFESSOR position available to head new Occupational Medicine Division in University of Southern California Medical School. Background in epidemiology and established record of research necessary. Excellent benefits. *Equal Opportunity Employer.* Contact: **Dr. Henderson at 213-226-2311.**

ASSOCIATE VICE PRESIDENT FOR GRADUATE STUDIES AND RESEARCH

The Georgia Institute of Technology is seeking qualified candidates for the newly created position of associate vice president for graduate studies and research. Primary responsibility of the position is to exert leadership required to continue development of graduate programs and research at the institute.

Candidates should have experience with graduate programs of high quality, and with the development and management of research programs. Applications or nominations should include a résumé and the names of references, and should be sent to: **Dean William Fash, Chairman, Search Committee, College of Architecture, Georgia Institute of Technology, Atlanta, Georgia 30332, preferably by 1 May 1979.**

An Equal Education and Equal Opportunity Institution

BIOLOGICAL OCEANOGRAPHER with background in plankton and trace elements needed for tenure-track position at assistant or associate professor level beginning fall 1979. Ph.D. required. Responsibilities include teaching basic and advanced plankton courses and performing research on trace element interrelationships between seawater and plankton. Salary range is from \$14,256 to \$21,624 per year. Résumé, representative reprints, and the names of three referees should be sent by 15 May to: **Dr. John H. Martin, Moss Landing Marine Laboratories, P.O. Box 223, Moss Landing, Calif. 95039.** *The California State University and Colleges is an Equal Opportunity/Affirmative Action Employer.*

BIOLOGY POSITION

Faculty position anticipated fall 1979. Rank: assistant professor. Ph.D. or Ph.D. candidate preferred, master's acceptable. Candidates should have a broadbased biology background. Applications should be received before 23 April. Write: **Chairman, Department of Biology, State University of New York College of Arts and Science, Geneseo, N.Y. 14454.** *An Equal Opportunity/Affirmative Action Employer.*

BIOLOGY—ASSISTANT PROFESSOR. Kingsport Center, to teach general biology lectures and laboratories (three-quarter sequence) or combination of general biology, botany, and specialty. Teaching load variable with research credit. Research and supervision of graduate students expected. Ph.D. in botany, with specialty in quantitative environmental aspects. Effective 1 September 1979. Send résumé by 15 May 1979 to: **Personnel Office, East Tennessee State University, Box 24070A, Johnson City, Tennessee 37601.** *East Tennessee State University is an Affirmative Action/Equal Opportunity Employer.*

BIOLOGY. CHAIRMAN, Department of Biological Sciences. Ph.D. with instructional competency in embryology, parasitology, and histology. Administrative and teaching experience to meet criteria for full professor required. Twelve-month appointment effective 1 July 1979. Send curriculum vitae and credentials to: **Dr. Johnny D. Ouzts, Associate Dean, School of Arts and Sciences, Delta State University, Cleveland, Mississippi 38733.**

DIRECTOR, Laboratory Animal Resources unit. The Florida State University is accepting applications for director of Laboratory Animal Resources. Qualifications: D.V.M., ACLAM-certified or -eligible preferred. Duties include directing operations of general animal facilities; providing veterinary services and consultations for a broad range of species including those housed in the Departments of Biology, Psychology, and Chemistry, the Institute of Molecular Biophysics, and the Research Animal Farm; conducting animal health surveillance programs; and assuring compliance with federal and local regulations. Salary is competitive. Starting date: immediately. Send curriculum vitae to: **Dr. Michael E. Rashotte, Chairman, Search Committee, Department of Psychology, Florida State University, Tallahassee, Florida 32306, by 1 June 1979.**

Affirmative Action/Equal Opportunity Employer

POSITIONS OPEN

BIOLOGY—CHAIRPERSON

Hood College invites applications for position of chairperson in Department of Biology, full-time, tenure-track appointment. The chairperson is responsible for overall administration of undergraduate programs in biological and environmental sciences including programs in medical and radiologic technology and graduate programs in environmental biology and biomedical sciences, as well as teaching and student advising. Administrative functions involve management of instructional staff, curriculum development, formulation and administration of budget, long-range planning, and coordination of academic and administrative matters with other departments, the provost, and the staff of the college. Candidates must have doctorate in the broad area of the biological sciences, experience in teaching and academic administration, and the ability to work productively with faculty, administrators, and students. Position available August 1979. Application deadline: 30 April 1979. Send résumé, transcripts, and three letters of reference to: **Provost, Hood College, Frederick, Maryland 21701.** *Hood College is an Equal Opportunity/Affirmative Action Employer.*

The Graduate Program in Environmental Sciences, The University of Texas at Dallas, seeks a **BOTANIST** at the rank of assistant professor to fill a tenure-track position commencing August 1979. Candidates must possess the Ph.D. in botany specializing in vascular plant taxonomy and field ecology. Teaching responsibilities will include undergraduate and graduate courses in terrestrial and aquatic botany. Preference will be given to applicants demonstrating a primary research interest in either the effect of pollution on plants, or biomass conversion by plants. An acquaintance with the flora of Texas is desirable. Indication of ethnicity and sex for Affirmative Action statistical purposes is requested but not required. Send statement of current teaching and research interests, current curriculum vitae, and at least three letters of reference by 1 May 1979 to: **Search #209, Box 688, Richardson, Texas 75080.** *The University of Texas at Dallas is an Affirmative Action/Equal Opportunity Employer.*

CHAIRPERSON, DEPARTMENT OF ANATOMY

The University of Kentucky invites applications for chairperson of the Department of Anatomy. The department has a broad-based teaching program with responsibilities in the Colleges of Medicine, Dentistry, Allied Health Sciences, and the Graduate School. Candidates must be at the associate or full professor level and have an outstanding record of accomplishment in anatomical teaching and research with demonstrable administrative ability. Interested applicants should send curriculum vitae and bibliography by 1 June to:

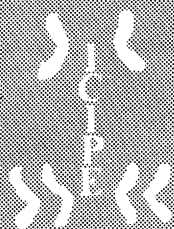
**Dr. William R. Martin, Chairman
Department of Anatomy Search Committee
Department of Pharmacology
Research Facility #2, MR-111
Lexington, Kentucky 40536**

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DEAN, ALLIED HEALTH SCIENCES UNIVERSITY OF HEALTH SCIENCES/ THE CHICAGO MEDICAL SCHOOL SEARCH REOPENED

DEAN sought for School of Related Health Sciences in small, private university devoted to educating health professionals. Master's programs in physical therapy, immunohematology, and health services administration; baccalaureate programs in physical therapy, medical technology, and radiological sciences. Qualifications: doctorate, experience in allied health administration, teaching, and curriculum development. Send résumé and three letters of reference by 15 May 1979 to: **Joseph M. White, M.D., President, University of Health Sciences/The Chicago Medical School, 2020 West Ogden Avenue, Chicago, Ill. 60612.** *An Affirmative Action/Equal Opportunity Employer.*

ENTOMOLOGIST, RESEARCH ON VEGETABLES. Assistant professor, tenure-track. An awareness of practical agriculture and the tools used to manage insect pests. Expertise is desirable in the effects of pests on vegetable yield and quality, interactive computing, and the biology of insect vectors of plant pathogens. Send curriculum vitae, transcripts, and the names of at least three references to: **C. J. Eckenrode, Department of Entomology, New York State Agricultural Experiment Station, Geneva, New York 14456.**



THE INTERNATIONAL CENTRE OF INSECT PHYSIOLOGY AND ECOLOGY

Nairobi, Kenya

Applications are invited from suitably qualified persons for the following positions.

1. RESEARCH SCIENTIST (TERMITE RESEARCH PROGRAMME) REF: SCI/78/27

Qualifications

Ph.D. with 5 or more years of postdoctoral experience in biological or physiological sciences and a demonstrable experience in research on the physiology of insect development. Training and experience in insect sensory physiology and behaviour, and evidence for excellence since doctorate training, will be a distinct advantage.

Responsibilities:

The successful candidate will carry out research on the physiology of caste differentiation among higher termites, with special reference to possible involvement of the endocrine and exocrine systems.

POSTDOCTORAL RESEARCH FELLOW IN PLANT PHYSIOLOGY OR BIOCHEMISTRY (BASES OF PLANT RESISTANCE TO INSECT ATTACK). REF: SCI/78/28.

Qualifications:

Young postdoctoral scientists, newly graduated, whose experience is in plant physiology, plant biochemistry or relevant sciences. High-quality research for Ph.D. and evidence for excellence since doctorate work, will be a distinct advantage.

Preference will be given to gifted young scientists from developing countries.

Responsibilities:

The successful candidate will carry out research in the field of plant physiology and biochemistry vital to plant/insect relationships. Willingness to collaborate with colleagues in other disciplines, especially in insect sciences, will be of paramount importance.

GENERAL INFORMATION FOR ALL POSITIONS:

Salary:

Negotiable and include attractive benefits.

Applications giving detailed information on general education, professional qualifications, experience, marital status, age, present terms of employment (including salary) names and addresses of four referees (including one personal), and photostat copies of relevant certificates and diplomas should be addressed to:

*Administrative Manager
I.C.I.P.E.
P.O. BOX 30772,
NAIROBI, KENYA.*

To reach him as soon as possible.

POSITIONS OPEN

CHAIRPERSON DEPARTMENT OF PHARMACOLOGY UNIVERSITY OF HOUSTON

Applications are invited for the position of chairperson, Department of Pharmacology, University of Houston College of Pharmacy. We seek a candidate with a distinguished record of research and teaching whose credentials would qualify that individual for appointment as associate or full professor of pharmacology. Preference will be given to an individual having demonstrated excellence in cardiovascular research and capabilities to provide the leadership to develop both research and training programs in cardiovascular and autonomic pharmacology. Curriculum vitae, selected reprints, and names of three references should be sent to:

Joseph P. Buckley, Ph.D.
Dean, College of Pharmacy
Director, Institute for Cardiovascular Studies
139 SR2 University of Houston
Houston, Texas 77004

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

U.S. Department of Agriculture (USDA), Food Safety and Quality Service, is seeking one GS-11/12 CHEMIST with expertise in mass spectrometry (gas-liquid chromatograph, liquid chromatograph, and thin-layer chromatograph mass spectrometry) and their related systems, to confirm and identify residues of a violative level in biological tissues. If filled at the 11 level, known promotion potential to the 12. (GS-11 step 1: \$19,263/GS-12 step 1: \$23,087 per annum.) The position is located in the National Residue Laboratory, Peoria, Illinois. All candidates must have a full 4-year course in an accredited college or university leading to a bachelor's (or higher) degree in a physical or life science, or engineering. This course must have included 30 semester hours in chemistry including quantitative analysis, organic, inorganic, and physical chemistry; at least 6 semester hours of physics; and mathematics through differential and integral calculus. Or, the above course work and additional appropriate education or experience which provides technical and professional experience equivalent to that provided by the 4-year course work. In addition, 3 years of professional experience in chemistry or work directly related to chemistry is required with 1 year equal to GS-9 (if filled at the 11 level), or GS-11 (if filled at the 12 level) in the Federal Service. To apply, submit a completed Standard Form 171 to: **USDA, Announcement FSQS-S-54, Room 3438-South, Washington, D.C. 20250.** Applications must be received by close of business on 17 May 1979. Questions concerning this position will be answered by John Allen or his assistant at: 202-447-6617.

IMMUNOLOGY POSTDOCTORAL RESEARCH ASSOCIATE DARTMOUTH MEDICAL SCHOOL HANOVER, NEW HAMPSHIRE

Immunologists are invited to apply for a postdoctoral position to work with a group on a project concerned with the proliferation, maturation, and differentiation of T-lymphocytes. The emphasis is on the interaction of soluble regulatory factors with their target cells. Experience in cellular immunology, protein biochemistry, and/or radioimmunoassay is desirable. The position is for 2 to 3 years and is available after 1 July 1979. The salary is according to qualification and experience (\$12,000 to \$18,000 per year). Applications, including curriculum vitae, a description of research experience, relevant reprints, and the names and addresses of two referees, should be sent to: **Dr. Kendall A. Smith, Dartmouth Medical School, Hanover, N.H. 03755.**

MUSEUM CHEMIST—The Metropolitan Museum of Art, New York City, seeks a Ph.D. chemist with several years of postdoctoral experience to work in collaboration with the staff of the Paintings Conservation Department. The applicant should be conversant with the following techniques: X-ray diffraction; gas chromatography; mass spectrophotometry; electrophoresis; radioamino assay and wet chemical analysis. Responsibilities will include the identification and testing of materials, particularly organic, that have been used in the fabrication and treatment of paintings of all periods as well as long-term research projects. Some knowledge and interest in paintings as works of art is essential. The candidate must be flexible and practical and willing to work outside one area of expertise. Forward application to: **John M. Brealey, Conservator, Metropolitan Museum of Art, Fifth Avenue and 82nd Street, New York, New York 10028.**

POSITIONS OPEN

DEVELOPMENTAL BIOLOGIST

The Department of Biology of the University of Rochester invites applications for a tenure-track position at the level of assistant or (nontenured) associate professor. Appointment to begin September 1979 or September 1980. Candidates should have demonstrated excellence in research in some area of developmental biology. Persons working on plant systems or studying cell-cell interactions are especially encouraged to apply. A commitment to both undergraduate and graduate teaching in developmental biology is also a prerequisite for the position. Applicants should send curriculum vitae, a statement of research interests, and have three letters of recommendation sent to:

Chairman, Developmental Biology Search Committee
Department of Biology
University of Rochester
Rochester, New York 14627

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

DIRECTOR, Institute of Animal Resource Ecology, University of British Columbia; position vacant as of 1 July 1979. The institute is a postgraduate center for teaching and research with emphasis on innovative approaches and multidisciplinary constructs in ecological science and resource management. Because the institute has strong roots in biology, the applicant must have understanding of biological sciences but need not necessarily be a zoologist or ecologist. He/she should be prepared to serve the institute's main goal of innovative research that bridges gaps between traditional disciplines, methods, and institutions. Applications and curriculum vitae, including at least three references, should be sent to: **Dr. A. R. Thompson, Director, Westwater Research Centre, University of British Columbia, 1933 West Mall Annex, Vancouver, British Columbia, Canada V6T 1W5**, to arrive not later than 15 May 1979.

IDAHO STATE UNIVERSITY

The Department of Biology at Idaho State University (ISU) is accepting applications for anticipated vacancies in the areas of: (i) **ENTOMOLOGY/INVERTEBRATE ZOOLOGY** and (ii) **POPULATION ECOLOGY/HUMAN REPRODUCTION AND DEMOGRAPHY**. These positions represent sabbatical replacements, and will probably be funded at \$13,500 each by state funds for the 1979-1980 academic year only. Aspirants must hold a doctoral degree, and should forward letters of application, evidence of teaching competence, official transcripts, and names of three references to: **Dr. R. C. Anderson, Chairman, Department of Biology, ISU, Pocatello, Idaho 83207**, before the closing date of 11 May 1979. *Idaho State is an Affirmative Action/Equal Opportunity Employer. Women and minorities are especially encouraged to apply.*

HARVARD MEDICAL SCHOOL NEUROBIOLOGIST

The Department of Neurobiology is seeking a new faculty member at the assistant professor level to begin 1979 or 1980. *Applications from women and minority people are encouraged.* Please send curriculum vitae and a brief outline of research plans and have three letters of reference sent to:

Search Committee
Department of Neurobiology
Harvard Medical School
25 Shattuck Street
Boston, Mass. 02115

UNIVERSITY HOSPITAL PATHOLOGIST WANTED

Assistant or associate professor of pathology at the University of Washington School of Medicine and associate pathologist at University Hospital. The incumbent will share responsibilities in surgical pathology and autopsy services, and teaching.

The applicant is expected to carry on his/her own research. The most desirable areas of research deal with problems of human disease seen in the surgical and autopsy materials. Experience in the application of contemporary cell and molecular concepts and methods to study of disease is desired of applicants for this position.

Board-certification is required for this position. *The University of Washington is an Affirmative Action/Equal Opportunity Employer.* Address application material, including curriculum vitae, bibliography, and letters of recommendation (under separate cover), to: **H. Thomas Norris, M.D., Director of Hospital Pathology, RC-72, University Hospital, 1959 N.E. Pacific Street, Seattle, Washington 98195.**

POSITIONS OPEN

DEAN OF ENGINEERING

Dean of engineering—Carnegie Institute of Technology (CIT), the engineering school at Carnegie-Mellon University, is searching for a new dean. Candidates must have an outstanding record of research, teaching, and administration; a good grasp of the curricular needs of modern engineering education; the ability to offer leadership in building and shaping the college's research priorities and strong interpersonal skills in areas such as judging people, constructively resolving conflict, and representing the university to the outside world. CIT is an outstanding engineering college and as such is seeking a dean with an international reputation for excellence who can bring to us high ideals and conviction, solid administrative skills, insight, inspiration and leadership during the 1980's. Send résumé with list of publications to: **Professor James P. Romualdi, Chairman, Search Committee, Carnegie-Mellon University, Pittsburgh, Pennsylvania 15213.** *Carnegie-Mellon University is an Equal Opportunity/Affirmative Action Employer.*

FACULTY POSITION IN PHYSIOLOGY

Full-Time Tenure-Track Assistant Professorship Available

Teaching experience at medical and graduate level physiology required. Should demonstrate ability for independent research in mammalian system. Send curriculum vitae to: **Dr. Alan R. Freeman, Chairperson, Department of Physiology, TEMPLE UNIVERSITY SCHOOL OF MEDICINE, Philadelphia, Pa. 19140.** *An Equal Opportunity/Affirmative Action Employer.*

FACULTY POSITIONS IN PROTEIN CHEMISTRY AND MOLECULAR BIOLOGY

Applications are invited for two tenure-track positions at the assistant, associate, or full professor level at the Department of Biochemistry, State University of New York (SUNY), Upstate Medical Center, Syracuse, New York. One position is in the area of protein chemistry. Preference will be given to candidates with strong background and active research interest in the analysis of the primary structure of membrane proteins, particularly ion transport ATPases. The second position will be filled by a molecular biologist with experience and interest in the regulation of the biosynthesis of membrane proteins, for example, the Ca^{2+} transport ATPase of sarcoplasmic reticulum. Send curriculum vitae, bibliography, a brief description of research goals and teaching interests, and three references to: **Anthony Mar-tonosi, M.D., Department of Biochemistry, SUNY Upstate Medical Center, 766 Irving Avenue, Syracuse, New York 13210.** *An Equal Opportunity Employer.*

FACULTY POSITION IN BIOCHEMISTRY

The Department of Biochemistry at the University of Texas System Cancer Center M. D. Anderson Hospital and Tumor Institute invites applications for an assistant professorship from qualified individuals with an interest in utilizing recombinant DNA techniques to study problems in mammalian gene expression. Please send curriculum vitae, list of publications, names of at least three references to be used for letters of recommendation, and a summary of research interests to: **Dr. Grady F. Saunders, Department of Biochemistry, The University of Texas System Cancer Center M. D. Anderson Hospital and Tumor Institute, 6723 Bertner Avenue, Houston, Texas 77030.** *An Equal Opportunity/Affirmative Action Employer.*

GENETICIST—12-month tenure-track position for an assistant or associate professor of genetics available 1 September 1979. Appointee will be expected to participate in instruction at both undergraduate and graduate levels, conduct a productive research program, and supervise M.S. and Ph.D. students in genetics.

Minimum qualifications for an assistant professor would be a Ph.D. degree in genetics, postdoctoral experience, and a strong research orientation. Teaching experience is desired. Salary is open and will be commensurate with the qualifications and experience of the appointee.

Curriculum vitae including publications and statements of teaching and research interests, and three letters of recommendation should be sent before 1 May 1979 to: **Dr. J. D. Smith, Genetics Section, Department of Plant Sciences, Texas A & M University, College Station, Texas 77843.** *Texas A & M University is an Equal Opportunity/Affirmative Action Employer.*

**Institute for Electron Microscopy
Duke University Marine Laboratory
Beaufort, N. C., 28516**

American Medical Association Category I Credit for Continuing Medical Education available to enrolled physicians.

ELECTRON MICROSCOPY

TRANSMISSION
SCANNING
FREEZE-ETCH REPLICATION
EM AUTORADIOGRAPHY
X-RAY MICROANALYSIS

September 9-21, 1979

Program designed to serve post-doctoral investigators, but strongly recommended doctoral candidates and research assistants are welcome to apply. Basic knowledge of EM helpful but not necessary. Hands-on experience with variety of techniques and instruments under guidance of internationally recognized experts. Cryo-ultramicrotomy discussed. Seminar on aspects to consider in setting up an EM laboratory.

IMMUNOCYTOCHEMISTRY WORKSHOP

September 24-26, 1979

As above, geared to research investigators. A basic familiarity with transmission and/or scanning EM is assumed. An overview of immunocytochemistry, with extrapolation from LM to EM. A variety of methods, including ferritin, peroxidase, and techniques developed in the speakers' laboratories, will be included in the laboratory experience.

For descriptive brochure and application forms, write to:

Dr. Eve L. MacDonald
Program Coordinator
Electron Microscope Institute
Duke University Marine Laboratory

Mailing Address: Department of Toxicology &
Experimental Pathology
Wellcome Research Laboratories
3030 Cornwallis Road
Research Triangle Park
North Carolina 27709

PHARMACOLOGIST

SENIOR SCIENTISTS/ BIOMEDICAL OPERATIONS

Candidates must have a PhD in Pharmacology or related discipline with a minimum of 3 to 5 years post-doctoral experience and be able to communicate effectively both verbally and in writing.

The two openings require:

- Compilation, interpretation, and presentation of pre-clinical and clinical data used to support the development of new drug products.
- Participation in the planning of clinical studies.
- Interaction with Regulatory Affairs Personnel in the planning, preparation, and submission of IND's and NDA's.

In return, we offer an excellent compensation and benefit package along with a most promising career opportunity. Please forward your resume in complete confidence to: B. Blank, Scientific Employment Administrator, SMITH KLINE & FRENCH LABORATORIES, A Division of SmithKline Corporation, 1540 Spring Garden Street, P.O. Box 7929, Philadelphia, Pennsylvania 19101.

Equal Opportunity Employer,
Male/Female/Handicapped/
Veteran.

SmithKline
Smith Kline & French Laboratories

Chemistry Opportunities

Miles Laboratories, Inc., a rapidly growing consumer, chemical and pharmaceutical company, has two openings for chemists in our Corporate Research Affairs Chemistry Department.

ANALYTICAL CHEMIST

The successful candidate will have a Ph.D. in Analytical Chemistry with at least two years of industrial or post-doctoral experience in gas chromatography/mass spectroscopy applications. This individual must also have good background in organic chemistry as well as aptitude for instrumental analysis and computer technology. Major responsibility will be the development of analytical methodology for new drug candidates and drug metabolites.

PROCESS DEVELOPMENT CHEMIST

The successful candidate will have an MS or the equivalent in experience in Chemistry with at least two years experience in synthetic organic chemistry. Responsibilities include the development of new synthetic procedures and large scale synthesis of medicinal chemicals and related products.

Located in Elkhart, Indiana, a community of 50,000 population we offer excellent recreational and educational facilities as well as convenient accessibility to the Chicago area. Excellent starting salary commensurate with experience plus a superior benefits program. Relocation expenses paid by the company.

If interested, please submit complete resume to include salary requirements in confidence to:

Linda A. Heiland, Supervisor, Office Personnel Adm. Dept. 833

MILES LABORATORIES, INC.



P.O. Box 40
Elkhart, IN 46515

An Equal Opportunity Employer

POSITIONS OPEN

The Department of Surgery, Southwestern Medical School, has three **FACULTY POSITIONS** available for the 1979-1980 academic year.

Assistant Professor—M.D., Board-eligible, interest and experience in GI surgery and trauma.

Assistant Professor—M.D., Board-eligible, interest and experience in intensive care, shock, pulmonary physiology, and membrane transport.

Instructor—M.D., Board-eligible, training and interest in peripheral vascular surgery.

For further information, contact: **William J. Fry, M.D., Hudson-Penn Professor and Chairman, Department of Surgery, University of Texas Health Science Center at Dallas, 5323 Harry Hines Boulevard, Dallas, Texas 75235**, including a copy of your curriculum vitae.

The University of Texas Health Science Center at Dallas is an Equal Opportunity Employer, M/F.

GEOCHEMIST. The Chesapeake Bay Institute of The Johns Hopkins University has an opening for a geochemist at the intermediate or senior research scientist level whose primary interests are in estuarine and coastal processes and who wishes to develop research programs in such areas as sediment transport, geochemistry of estuarine and coastal sediments, geochemical balances in estuaries or sediment-water exchange processes. The institute has active physical oceanography and estuarine biology research groups and interdisciplinary programs with these groups are encouraged. Send inquiries or résumé, including at least three references, to: **Dr. W. R. Taylor, Acting Director, Chesapeake Bay Institute, 106 Macaulay Hall, Johns Hopkins University, Charles and 34th Streets, Baltimore, Maryland 21218.** *The Johns Hopkins University is an Equal Opportunity/Affirmative Action Employer.*

MICROBIOLOGY—BIOCHEMISTRY. Postdoctoral research traineeships available immediately to prepare for careers as independent investigators in fields of cell biology, virology, bacteriology, and immunology with emphasis on molecular biology, membrane biochemistry, and genetics. Send résumé and references to: **Dr. Robert R. Wagner, Chairman, Department of Microbiology, University of Virginia School of Medicine, Charlottesville, Va. 22908.** *An Equal Opportunity Employer*

MOLECULAR VIROLOGIST. Research associate position requiring experience in enzymology of nucleic acids and protein synthesis, restriction of viral genomes to study gene expression in bacterial virus T3. Ph.D. in molecular biology or biochemistry and postdoctoral experience required. Write: **Dr. Umadas Maitra, Professor, Department of Developmental Biology and Cancer, ALBERT EINSTEIN COLLEGE OF MEDICINE, 1300 Morris Park Avenue, Bronx, N.Y. 10461.** *Equal Opportunity Employer.*

PHYSICAL OCEANOGRAPHER—Assistant professor, tenure-track position open for applicant with experience and interest in making and interpreting oceanographic observations. Must have Ph.D. in the physical sciences and demonstrated ability to conduct independent research in descriptive physical oceanography and will be expected to obtain research funding. An interest in eastern boundary regions is desirable. Duties include teaching and supervision of graduate students. Submit résumé and names of three references by 15 May 1979 to: **G. Ross Heath, Dean, School of Oceanography, Oregon State University, Corvallis, Ore. 97331.** *An Affirmative Action/Equal Opportunity Employer in compliance with Section 504, Rehabilitation Act of 1973.*

PHYSIOLOGIST/Process Oriented. The Institute of Marine Biomedical Research and the Department of Biology of the University of North Carolina at Wilmington are seeking applicants for a position at the level of assistant professor. Twelve-month appointment; 50 percent research at the institute and 50 percent teaching in the Biology Department. Applicants must possess a Ph.D., have postdoctoral research experience, and have demonstrated research ability. Preferred areas of interest include, but are not limited to, transport phenomena, temperature and pressure effects, adaptation to extreme environments. Position available from 1 August 1979. Nominations or applications for position, including a letter of intent, curriculum vitae, and the names of three individuals well acquainted with the candidate's work should be submitted before 15 May 1979, to: **Ralph W. Brauer, Director, Institute of Marine Biomedical Research, 7205 Wrightsville Avenue, Wilmington, N.C. 28403.** *An Affirmative Action/Equal Opportunity Employer.*

POSITIONS OPEN

PHARMACOLOGIST INDIANA UNIVERSITY SCHOOL OF MEDICINE

The Department of Pharmacology invites applications for a tenure-track position at the **ASSISTANT** or **ASSOCIATE PROFESSOR** level. Interest in immunologic, endocrine, autonomic, or cardiovascular pharmacology is desirable. Applicants should have a Ph.D. or equivalent degree, with postdoctoral research experience. Job requirements include direction of an independent research program and participation in departmental teaching activities. The on-campus location of nine NIH-sponsored or privately endowed research centers (SCOR-Hypertension, Diabetes Research, Krannert Cardiology Institute, and others) as well as off-campus location of Eli Lilly and Co. and Dow Chemical USA provide a stimulating environment for collaborative research activity. *Indiana University is an Equal Opportunity Employer.*

Applications—Please send (i) curriculum vitae, (ii) reprints of three papers, (iii) names of three references, and (iv) a short summary of research interests and goals to:

**L. R. Willis, Ph.D.
Department of Pharmacology
Indiana University Medical School
1100 West Michigan Street
Indianapolis, Ind. 46223**

Applications should be received by 1 June 1979.

PHARMACOLOGIST—MORPHOLOGIST

The Department of Pharmacology and Experimental Therapeutics, School of Medicine, University of Maryland, invites applications from qualified individuals for a position at the assistant or associate professor level, to start June 1979. Applicants must have a Ph.D. and/or M.D. degree. For the assistant professor rank, individuals must have at least 2 years of postdoctoral experience and exhibit potential to develop an independent research program. At the associate professor rank, five or more years of research and teaching in pharmacology beyond the doctoral degree and an independent research program are required.

Preference will be given to those individuals whose research exhibits proficiency in ultrastructural investigations of synaptic function. Applicants should send their curriculum vitae, a letter outlining future research plans, and the names of three references to: **Dr. Edson X. Albuquerque, Chairman, Department of Pharmacology and Experimental Therapeutics, University of Maryland School of Medicine, Baltimore, Md. 21201.** Application must be received by 30 April 1979. *The University of Maryland is an Equal Opportunity/Affirmative Action Employer. Applications from minorities and women are encouraged.*

PHYSIOLOGY

Assistant professor to teach medical and graduate students. Ph.D. with at least 2 years of postdoctoral experience. Research in human or animal physiology. Preference will be given to applicants with experience in muscle fatigue and cardiovascular, respiratory, and electromyographic studies. Send résumé to: **Dr. A. R. Lind, Professor and Chairman, Department of Physiology, St. Louis University Medical School, 1402 South Grand Boulevard, St. Louis, Mo. 63104.** *Affirmative Action/Equal Opportunity Employer.*

POSTDOCTORAL POSITION

Opportunities for research training in cardiovascular physiology, covering all aspects of human and animal studies available for Ph.D. or M.D. applicants. Send résumé with references to: **Dr. Alexander R. Lind, Professor and Chairman, Department of Physiology, Saint Louis University School of Medicine, 1402 South Grand Boulevard, Saint Louis, Missouri 63104.** *Affirmative Action/Equal Opportunity Employer.*

Plant physiologist, plant anatomist, plant taxonomist, and plant biochemist. Faculty positions available 1979 for Ph.D.'s with research backgrounds in plant physiology, plant anatomy, plant taxonomy, and plant biochemistry. Graduate teaching responsibilities. Professional rank and salary determined by experience. Some command of Spanish necessary. Send inquiries and curriculum vitae to: **Dr. José Francisco Pereira, Coordinator, Programa de Postgrado en Agricultura Tropical, Universidad de Oriente Josepin, Monagas, Venezuela.**

POSITIONS OPEN

The University of Arkansas, College of Pharmacy, invites applications from qualified individuals for an **assistant professorship in PHARMACOLOGY**. Applicant should have Ph.D.; postdoctoral experience desirable. The individual must be committed to excellence in undergraduate and graduate teaching and be prepared to develop a strong research program. Candidates with experiences in toxicology, cardiovascular or neuropharmacology will be given preference. Send curriculum vitae with three references familiar with applicant's academic accomplishments to: **Dr. R. Stull, University of Arkansas for Medical Sciences, Little Rock, Ark. 72201.** *The University of Arkansas is an Affirmative Action/Equal Opportunity Employer.*

POSTDOCTORAL FELLOW

Positions available for Ph.D. or M.D. in cancer related research in: (i) cell kinetic effects of irradiation, drugs, and radiation-drug combinations on normal and malignant cell populations, (ii) human tumor biology, (iii) virus leukemias, and (iv) cancer immunobiology. Positions (up to 3 years) available immediately. Cancer Research Unit is closely associated with Divisions of Radiation Oncology and Medical Oncology. Send curriculum vitae, summary of past research, and names of references to: **Dr. Samuel W. Leshner, Cancer Research Unit, Allegheny-Singer Research Corporation, 320 East North Avenue, Pittsburgh, Pa. 15212.**

POSTDOCTORAL POSITION IN COMPARATIVE BIOCHEMISTRY available 1 June 1979. Background preparation in enzymology and cell fractionation techniques. Interest in invertebrate and vertebrate biochemistry. Send résumé and names of three references to: **Dr. James W. Campbell, Department of Biology, Rice University, Houston, Texas 77001.** *Equal Opportunity/Affirmative Action Employer.*

POSTDOCTORAL POSITION available immediately; starting stipend: \$12,000; 2-year appointment. Position involves study of tropical grain legume/Rhizobium interactions. Serology experience desirable. Send curriculum vitae and three references to: **Allan Eaglesham, Ph.D., Boyce Thompson Institute for Plant Research, Tower Road, Ithaca, N.Y. 14853.** *Boyce Thompson Institute is an Equal Opportunity/Affirmative Action Employer.*

POSTDOCTORAL POSITION available immediately to conduct metabolic and transport studies on red cells. Send résumé and names of three references to: **Dr. H. D. Kim, Department of Physiology, College of Medicine, University of Arizona, Tucson, Arizona 85724.** *An Equal Opportunity/Affirmative Action/Title IX/Section 504 Employer.*

POSTDOCTORAL POSITION

Available 1 September 1979. Recent Ph.D. in microbiology and biochemistry with strong background in microbiological techniques, to continue study on new respiratory mutants of *Azotobacter vinelandii* in relation to energy conservation. One-year appointment, renewable. Stipend: \$12,000 for first year. Send curriculum vitae and three references to: **Dr. Daniel V. DerVartanian, Boyd Graduate Studies Research Center, University of Georgia, Athens, Georgia 30602.**

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

POSTDOCTORAL POSITION: available 1 July 1979 for individual with Ph.D. in immunology and interest in application of immunologic methods to human bone marrow disease. Research involves study of the mechanism by which IgG-globulins injure marrow erythroid cells. Send curriculum vitae and letters of recommendation to: **Sanford B. Krantz, M.D., Chief, Hematology, Vanderbilt University School of Medicine, Nashville, Tenn. 37232.** *Equal Opportunity Employer.*

POSTDOCTORAL POSITION, TUMOR CELL BIOLOGY—Recent Ph.D. desired to study normal and neoplastic human epithelial cell types in culture. Applicants should have experience in vertebrate cell culture, cell hybridization, immunochemical techniques, cytogenetics, or electron microscopy. Starting date June to August, for 1-year term with possible renewal. Salary: \$10,000 plus, depending upon experience. Send curriculum vitae, summary of research experience and interests, and the names of three references to: **Dr. James G. Rheinwald, Laboratory of Tumor Biology, Sidney Farber Cancer Institute, 44 Binney Street, Boston, Mass. 02115.** *An Equal Opportunity/Affirmative Action Employer.*

POSITIONS OPEN

POSTDOCTORAL POSITIONS in microbiology, biochemistry, or molecular biology to conduct research on isolation and characterization of plasmids, transposability of genes specifying biodegradation and virulence. Should be familiar with electron microscopy of DNA, preferably heteroduplex analysis and hybridization techniques. Also, enzymologists to study regulation and genetic mapping of aromatic degradative pathways in enteric bacteria. Must have experience in enzyme purification and immunological characterization. Address inquiries, including curriculum vitae with list of publications and three letters of recommendation, to: **Dr. Anada Chakrabarty, Department of Microbiology and Immunology, College of Medicine, University of Illinois at the Medical Center, 835 South Wolcott Street, P.O. Box 6998, Chicago, Illinois 60680.**

POSTDOCTORAL POSITIONS in: (i) synthetic carbohydrate chemistry, and (ii) complex carbohydrate and/or polyisoprenol biochemistry. Immediately, for synthetic and biosynthetic studies of lipid intermediates in glycoprotein biosynthesis. Requirement: Ph.D. in (i) organic chemistry, (ii) biochemistry. Salary: \$12,000 to \$13,000. Send curriculum vitae and names of three references to: **Dr. R. W. Jeanloz, Harvard Medical School, Massachusetts General Hospital, Boston, Mass. 02114.**

POSTDOCTORAL POSITION IN INSECT REGENERATION available 1 September 1979. Emphasis on synaptic specificity of regenerating neurons in insect CNS. Expertise in electrophysiological and/or ultrastructural techniques. Applicants send résumé and two letters by 15 May 1979 to: **Dr. C. R. Fournier, Biological Sciences, State University of New York at Buffalo, Buffalo, New York 14260.**

POSTDOCTORAL POSITION. Biochemical reactions of leukocytes, with emphasis on identifying microbial toxins and their mechanisms of action [see for example, *BBRC*, 81, 878 (1978)]. Salary: \$12,000 to \$14,000 per annum; experience in biochemistry and/or bioorganic/bioinorganic chemistry desirable. Interested persons should send inquiries with résumés to: **James K. Hurst, Oregon Graduate Center, 19600 N.W. Walker Road, Beaverton, Oregon 97005.** *Equal Opportunity/Affirmative Action Employer.*

POSTDOCTORAL POSITION in freshman biology program. Duties will include full administrative responsibility for investigative laboratories, training of graduate teaching assistants for laboratory instruction, and participation in research on freshman biology course designed to develop critical and analytical thinking with biological concepts. Ph.D. in biology or life science field. Available 14 July 1979; \$10,000 per year. Send résumé and three letters of recommendation to: **Dr. Robert D. Allen, Biology Department, West Virginia University, Morgantown, W. Va. 26506.** Closing date: 14 May 1979. *An Affirmative Action/Equal Opportunity Employer.*

POSTDOCTORAL POSITION AVAILABLE

Aggressive, quantitative molecular biologist needed to study fundamental aspects of regulation of gene expression, especially gene splicing. Methods include restriction analysis, nucleic acid sequencing, cloning, and protein-nucleic acid interactions. Study systems: murine retrovirus genome, retrovirus genome-related cellular sequences, and the attenuator region of the arginine regulon in *E. coli*. Reply with curriculum vitae and three references to:

**Dr. Eric James
Department of Biochemistry
University of Kentucky Medical Center
Lexington, Kentucky 40536**
The University of Kentucky is an Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL RESEARCH IN EPITHELIAL TRANSPORT

Institutional National Research Service Award has two or three openings for postdoctoral training in epithelial transport. Current emphasis on cellular mechanisms of ion transport in isolated epithelia and single epithelial cells, with opportunities for training in the study of isolated urinary and gastrointestinal epithelia. One of these positions must be filled prior to 30 June 1979. Send curriculum vitae and names of three references to: **Dr. David C. Dawson, Department of Physiology and Biophysics, University of Iowa College of Medicine, Iowa City, Iowa 52242.** *An Equal Opportunity/Affirmative Action Employer.*

POSITIONS OPEN

POSTDOCTORAL POSITIONS. Renewable and available immediately. Organic chemists or biochemists needed for studies on the design and mechanisms of new enzyme inhibitors as enzyme probes and antineoplastic agents. Research on the biochemistry of modified nucleosides and suicide inhibitors. Send curriculum vitae and the names of three references to: **Dr. John W. Kozarich, Department of Pharmacology, Yale University School of Medicine, 333 Cedar Street, New Haven, Conn. 06510.**

POSTDOCTORAL POSITION available beginning 1 July 1979. Electrophysiology of isolated cardiac muscle preparations with emphasis on intracellular measurements with ion-selective microelectrodes. Send curriculum vitae and names of three references to: **Dr. John L. Walker, Department of Physiology, University of Utah College of Medicine, 410 Chipeta Way, Research Park, Salt Lake City, Utah 84108.** *An Equal Opportunity/Affirmative Action Employer.*

POSTDOCTORAL POSITION available immediately for individual with background in medical microbiology. Studies involve interactions of host factors and inhaled environmental agents on pulmonary defenses against microbial infection. Stipend: \$10,000 to \$12,000, depending on experience. Send curriculum vitae, statement of research interests, and three letters of recommendation to: **Dr. George J. Jakab, Department of Environmental Health Sciences, Johns Hopkins School of Hygiene, 615 North Wolfe Street, Baltimore, Maryland 21205.** *Equal Opportunity Employer, M/F.*

PREDOCTORAL AND POSTDOCTORAL TRAINING OPPORTUNITIES for qualified applicants in the areas of animal virology, biochemistry, cell and membrane biology, genetics, immunology, infectious diseases, oral biology, biology of aging, and molecular biology.

Send curriculum vitae and inquiries to:

**Dr. Kenneth J. Roozen, Vice-Chairman
Department of Microbiology
University of Alabama Medical Center
Birmingham, Alabama 35294**

An Affirmative Action/Equal Opportunity Employer

The Department of Medicine of the University of South Carolina School of Medicine invites applications for a **RESEARCH ASSISTANT PROFESSOR** position. Applicants must hold the Ph.D. Primary responsibility will be research in the area of molecular pharmacology of agents used in cancer chemotherapy. Position will begin 1 July 1979, and approximate annual salary will be \$18,000. Letters of application must include curriculum vitae and should be addressed to: **William E. Lynch, Department of Medicine, University of South Carolina School of Medicine, Veterans Administration Hospital, Columbia, S.C. 29201.** *An Affirmative Action/Equal Opportunity Employer.*

RESEARCH ASSOCIATE—Immediate opening for Ph.D. with strong background in virology and cell culture for research on inflammatory bowel disease. Salary up to \$25,000 (negotiable), depending on experience. Send curriculum vitae and names of three references to: **Dr. E. D. Kilbourne, Chairman, Department of Microbiology, THE MOUNT SINAI SCHOOL OF MEDICINE, One Gustave L. Levy Place, New York, N.Y. 10029.** *An Equal Opportunity Employer.*

RESEARCH ASSOCIATE

To carry out structure-function studies on Na, K-ATPase, with emphasis on protein sequencing. Full-time research position guaranteed for 1 year, with good possibility of renewal. Experience in protein chemistry essential. Salary negotiable. Contact: **Dr. John H. Collins, Department of Pharmacology and Cell Biophysics, University of Cincinnati College of Medicine, 231 Bethesda Avenue, Cincinnati, Ohio 45267.**

An Equal Opportunity Employer, M/F/H

POSITIONS OPEN

The Department of Biochemistry, Rice University, announces the availability of **RESEARCH POSITIONS** for programs of research in the areas of cholesterol biosynthesis, sphingolipid chemistry and metabolism, and stereochemistry of enzymatic reactions. Interested candidates should send résumé, transcripts, and names of three references to:

**Dr. G. J. Schroepfer, Jr.
Department of Biochemistry
Rice University
Houston, Texas 77001**

Rice University is an Equal Opportunity/Affirmative Action Employer.

Third, fourth, or fifth year **RESEARCH RESIDENCY** or **FELLOWSHIP** position in clinical psychopharmacology. Clinical and laboratory research in psychopharmacology. Approved residency program. Candidates should have M.D. from U.S. or Canadian medical school, have completed at least 2 years of psychiatric residency in medical school affiliated residency program, and be eligible for medical license in Texas. Stipend: \$17,000 to \$22,000, depending on level and training. Send curriculum vitae and letter describing experience and interests to: **Robert C. Smith, M.D., Ph.D., Chief, Behavioral Neurochemistry, Texas Research Institute of Mental Sciences, 1300 Moursund Avenue, Houston, Texas 77030.**

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The Queen's Medical Center in Honolulu's major teaching hospital and a principal affiliate of the University of Hawaii School of Medicine, seeks a basic or clinical researcher to advise on, develop, and implement research programs. Very generous full-time salary and laboratory space.

National reputation and expertise in one of the following areas preferred: cardiovascular, pulmonary, gastroenterology, geriatrics, endocrinology (including diabetes), neurosciences, and trauma.

Send curriculum vitae to: **Chairman, Search Committee, Harkness Pavilion, Fourth Floor, Queen's Medical Center, 1301 Punchbowl Street, Honolulu, Hawaii 96813.** *An Equal Opportunity Employer.*

UNIVERSITY OF SOUTHERN CALIFORNIA (USC) CATALINA MARINE SCIENCE CENTER SUMMER NEUROBIOLOGY COURSE

30 July to 31 August 1979

An intensive "hands-on" electrobiology course. The major emphasis will be on membrane properties of neurons and neuronal interactions which produce behavior patterns and behavioral plasticity. Topics covered will include excitability mechanisms, synaptic transmission, modulatory neurotransmitters, neuronal development. Techniques will include intracellular and extracellular recording, voltage clamping, ionic replacement studies, intracellular staining, microiontophoresis, statistical analysis of synaptic potentials, and microelectrode recording from intact animals. Experimental animals will be primarily invertebrates, including *Aplysia*, leech, lobster, and locust.

Course director: **A. Siger (USC)**
Instructor: **M. O'Shea (USC)**
Participants: **R. McCaman (City of Hope)**
R. Calabrese (Harvard)
C. Goodman (Stanford and University of California, San Diego)
S. Thompson (Stanford)
R. Bezanilla, S. Hagiwara, and J. Vergara (University of California, Los Angeles)
W. Kristan, J. Raper, A. Selveston (University of California, San Diego)
L. Bishop, L. Byerly, W. McClure, and C. Platt (USC)

Financial aid is available on a competitive basis through the generosity of the University of Southern California Oceanographic Associates. For information about application and financial aid, contact: **Dr. Alvin Siger, Course Director, Department of Biological Sciences, University of Southern California, University Park, Los Angeles, California 90007.**

POSITIONS OPEN

POSTDOCTORAL POSITIONS (four) for research on either membrane lipid biochemistry in bacilli or cytochrome P-450 oxidases in bacteria. One position available immediately, two 1 July 1979, and one 1 September 1979. Salary, depending on experience, starts at \$12,000. Recent Ph.D. in biochemistry or closely related field required. Experience in enzymology and lipid biochemistry and/or synthetic and analytical organic chemistry desirable. Send curriculum vitae and names of three references to: **Dr. Armand Fulco, University of California, Laboratory of Nuclear Medicine and Radiation Biology, 900 Veteran Avenue, Los Angeles, Calif. 90024. An Equal Opportunity/Affirmative Action Employer.**

RESEARCH ASSOCIATES. Ph.D. biochemistry or cell biology are immediately available for a minimum of 3 years. The research will involve studies of multi-enzyme systems in respiratory and tumor tissues which regulate the composition, synthesis, and secretion of cell surface antigens and mucin glycoproteins in these tissues. A second position is available to study the role of phosphorylation of soluble enzymes and membrane proteins in the mechanism of hormone action in kidney. Salaries for these positions range from \$12,500 to \$15,000, commensurate with experience. Send résumé and names of references to:

**Dr. Joseph Mendicino
Department of Biochemistry
University of Georgia
Athens, Georgia 30602**

VETERINARY PATHOLOGIST

The New York Zoological Society has a position available for a veterinary pathologist starting 1 July 1979. Individuals with Board-certification will be given preference.

Duties will include management of a clinical pathology laboratory, and the gross or microscopic diagnosis of case material originating from the Bronx Zoo and New York Aquarium. The New York Zoological Society has affiliations with the Animal Medical Center which presents opportunities for collaboration with other pathologists.

Applicants must have a D.V.M. or equivalent degree and be U.S. citizens.

All applicants should send a résumé with prior educational or employment experience and three references.

Applications should be sent to:

**James B. White
Personnel Supervisor
New York Zoological Society
185th Street and Southern Boulevard
Bronx, New York 10460
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ZOOLOGIST. Temporary position available for one year starting 27 August 1979 at the instructor level. Teaching responsibilities include general zoology, coordination of zoology laboratories, and vertebrate biology. Ph.D. preferred. Send curriculum vitae and three letters of reference by 1 June 1979 to: **Search Committee, Biology Department, State University College, Fredonia, N.Y. 14063. An Equal Opportunity/Affirmative Action Employer.**

GRADUATE STUDY

GRADUATE STUDIES IN MICROBIOLOGY AND IMMUNOLOGY. Applications are invited from qualified individuals interested in obtaining a Ph.D. degree. Research areas include immunochemistry and properties of microbial antigens and toxins, immunobiology, cell biology, tumor immunology, lymphocyte physiology, pathogenesis of schistosomiasis, and virus host cell interactions. A limited number of teaching assistantships and NIH predoctoral traineeships in immunology are available. Address requests for application forms to: **Dean, School of Graduate Studies, State University of New York, Downstate Medical Center, 450 Clarkson Avenue, Box #41, Brooklyn, New York 11203. An Equal Opportunity/Affirmative Action Employer.**

FELLOWSHIPS AND RESEARCH ASSISTANTSHIPS for interdisciplinary study in biophysical science leading to the Ph.D. degree. Training in experimental and theoretical physical biochemistry, membranes, transport processes, biomechanics, mathematical biology, clinical applications, and other areas. Excellent facilities. GRE required. Contact: **Dr. H. C. Cheung, Box 104 DSB, University of Alabama Medical Center, Birmingham, Ala. 35294. An Affirmative Action/Equal Opportunity Employer.**

TRAINING PROGRAMS

CLINICAL INTERNSHIP PROGRAM

The New York Zoological Society has a clinical internship program in zoological medicine starting 1 July 1979. The salary is \$13,000 to \$15,000 per annum.

Training will emphasize animal management and medicine using case material from the Bronx Zoo and New York Aquarium.

The New York Zoological Society has affiliations with the Animal Medical Center which can provide opportunities for postgraduate education programs.

Applicants must have a D.V.M. or equivalent degree and be U.S. citizens.

A résumé with previous clinical experience and three references should accompany a letter of application.

Applications should be sent to:

**James B. White
Personnel Supervisor
New York Zoological Society
185th Street and Southern Boulevard
Bronx, New York 10460
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POSTDOCTORAL TRAINEESHIPS AVAILABLE

National Research Service Awards in the area of lipoprotein structure and metabolism and its relationship to cardiovascular disease are available at the Donner Laboratory, University of California, Berkeley. One traineeship immediately available, and two traineeships available in fall 1979. Traineeships carry an annual stipend of \$10,000 to \$13,200, depending on experience. We are interested in applicants with a strong background in any of the following areas: biochemistry, protein and/or lipid chemistry, membrane chemistry, enzymology, high-resolution electron microscopy, and ultracentrifugal techniques.

U.S. citizens and permanent residents are eligible to apply. Please send résumé, transcripts, and names and phone numbers of two references to:

**Dr. Trudy Forte
Donner Laboratory
Lawrence Berkeley Laboratory
University of California
Berkeley, Calif. 94720
Telephone: 415-486-5567**

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FELLOWSHIPS

CLINICAL RESEARCH FELLOWSHIP AND ASSOCIATE POSITION to join multidisciplinary group studying CNS metabolism, attention and behavior in autism, and childhood neuropsychiatric disorders. M.A., Ph.D., or M.D. degree. Send curriculum vitae to: **Dr. Donald Cohen, Yale Child Study Center, 333 Cedar Street, New Haven, Conn. 06510.**

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POSTDOCTORAL FELLOWSHIPS in environmental toxicology are available immediately. The 2-year positions are funded by an institutional NIEHS award to the University of Arizona. Applications are invited from individuals with the Ph.D. in toxicology, pharmacology, chemistry, biology, and related fields. Send curriculum vitae and three reference letters to: **Dr. J. Wesley Clayton, Director, Toxicology Program, Room 303, BioSciences West, University of Arizona, Tucson, Ariz. 85721. An Equal Opportunity/Affirmative Action/Title IX/Section 504 Employer.**

POSTDOCTORAL RESEARCH FELLOWSHIP in experimental hematology. Position available under National Research Service Award to study problems of (i) hemostasis, (ii) tumor immunology, or (iii) control of hemoglobin synthesis. Send curriculum vitae to: **R. F. Rieder, M.D., Division of Hematology and Oncology, State University of New York—Downstate Medical Center, 450 Clarkson Avenue, Brooklyn, N.Y. 11203. An Affirmative Action/Equal Opportunity Employer.**

POSTDOCTORAL TRAINING FELLOWSHIPS in hemostasis-thrombosis. Open to M.D.'s or Ph.D.'s. Training or interest in fibrinogen, immunology, or platelets desirable. Period: 1 to 3 years, starting 1 July 1979. Send curriculum vitae and two letters of recommendation to: **Dr. S. Shapiro, Cardeza Foundation, Thomas Jefferson University, 1015 Walnut Street, Philadelphia, Pa. 19107.**

FELLOWSHIPS

POSTDOCTORAL RESEARCH TRAINING FELLOWSHIPS

Fellowships available to candidates with doctorate and less than 1 year of postdoctoral laboratory experience for beginning training in basic biomedical research. Award includes stipend, research allowance, travel to fellowship location, and annual meeting. Tenable for 3 years. Applications by 15 August; awards commence following July. Applicants must be in North America for required personal interview. Write for information and forms: **The Helen Hay Whitney Foundation, 1230 York Avenue, New York, New York 10021.**

ASSISTANTSHIPS

GRADUATE TEACHING ASSISTANTSHIPS IN BIOLOGY

Predocutorial teaching assistantships available for graduate study leading to the Ph.D. degree in biology. The Biology Department at Wayne State University consists of three divisions: (i) Environmental, Evolutionary, and Systematic Biology; (ii) Molecular and Developmental Biology; and (iii) Regulatory Biology and Biophysics. Stipends are \$3650 per 9 months, plus tuition waiver and a possible housing allowance of \$140 per month. Summer support is also available. The teaching assistantships are awarded on a competitive basis. For applications write: **Dr. V. Hari, Graduate Committee, Department of Biology, Wayne State University, Detroit, Michigan 48202. Telephone: 313-577-2754. Wayne State University is an Equal Opportunity/Affirmative Action Employer.**

TEACHING ASSISTANTSHIPS available in M.S. program in biological sciences and microbiology. Emphases in animal and plant ecology, biochemistry and physiology, and microbiology. Send inquiries to: **Graduate Program, Department of Biological Sciences, East Tennessee State University, Johnson City, Tenn. 37601.**

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TEACHING ASSISTANTSHIPS for September 1979. Graduate study in Biology Department leading to M.S. or Ph.D. with concentration in botany, zoology, microbiology, physiology, ecology, cell biology, marine biology. Anticipated stipends: \$3600 or more for 9 months, and tuition waiver. For information write to: **Dr. Ernest Ruber, Department of Biology, NORTHEASTERN UNIVERSITY, Boston, Mass. 02115. An Affirmative Action/Equal Opportunity Employer.**

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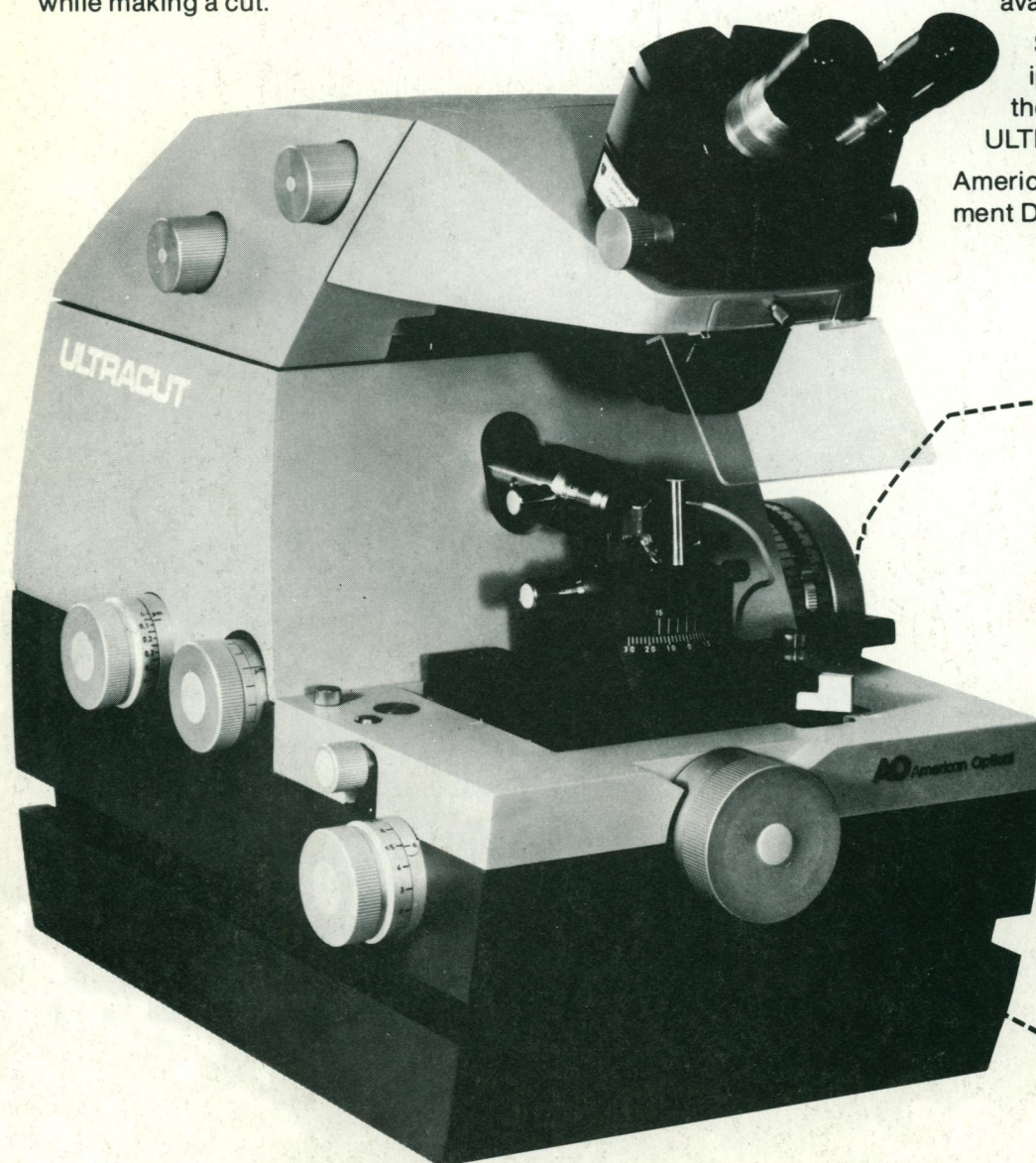
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