

BOOKS RECEIVED

(Continued from page 1334)

The Personal Experience of Time. Papers from a conference, New York, May 1975. Bernard S. Gorman and Alden E. Wessman, Eds. Plenum, New York, 1978. xiv, 296 pp. \$22.50. Emotions, Personality, and Psychotherapy.

Perspectives in Coeliac Disease. Proceedings of a symposium, Galway, Ireland, Sept. 1977. B. McNicholl, C. F. McCarthy, and P. F. Fottrell, Eds. University Park Press, Baltimore, 1978. xx, 504 pp., illus. \$39.50.

The Pesticide Conspiracy. Robert van den Bosch. Doubleday, Garden City, N.Y., 1978. x, 228 pp. \$8.95.

Petroglyphs and Pictographs of Utah. Vol. 1, The East and Northeast. Kenneth B. Castleton. Utah Museum of Natural History, Salt Lake City, 1978. xxiv, 216 pp., illus. Paper, \$15.

Petrology and Geochemistry of Continental Rifts. Volume one of the proceedings of the NATO Advanced Study Institute, Oslo, Norway, July 1977. E.-R. Neumann and I. B. Ramberg, Eds. Reidel, Boston, 1978. xxviii, 296 pp., illus. \$36. NATO Advanced Study Institutes Series C, vol. 36.

Phosphorus in the Environment. Its Chemistry and Biochemistry. Papers from a symposium, London, Sept. 1977. Elsevier/Excerpta Medica/North-Holland, New York, 1978. x, 320 pp., illus. \$31.75. Ciba Foundation Symposium 57 (new series).

Physical Change and Aging. A Guide for the Helping Professions. Sue V. Saxon and Mary Jean Etten. Tiresias Press, New York, 1978. 192 pp., illus. Cloth, \$9; paper, \$5.95.

Physics for Applied Biologists. N. C. Hilyard and H. C. Biggin. University Park Press, 1977. viii, 224 pp., illus. Paper, \$13.75.

The Physiology of Growth. Richard J. Goss. Academic Press, New York, 1978. xii, 442 pp., illus. \$29.50.

Piaget's Theory of Intelligence. Charles J. Brainerd. Prentice-Hall, Englewood Cliffs, N.J., 1978. viii, 326 pp. \$11.95.

The Pineal and Reproduction. Russel J. Reiter, Ed. Karger, Basel, 1978. vi, 224 pp., illus. \$64.75. Progress in Reproductive Biology, vol. 4.

Plant Disease. An Advanced Treatise. Vol. 2, How Disease Develops in Populations. James G. Horsfall and Ellis B. Cowling, Eds. Academic Press, New York, 1978. xx, 436 pp., illus. \$37.

Plant Pathology. George N. Agrios. Academic Press, New York, ed. 2, 1978. xii, 704 pp., illus. \$22.95.

Policy Implications of the Computed Tomography (CT) Scanner. Office of Technology Assessment, Washington, D.C., 1978 (available from the Superintendent of Documents, Washington, D.C.). x, 196 pp., illus. Paper, \$4.

The Politics of Cancer. Samuel S. Epstein. Sierra Club Books, San Francisco, 1978. viii, 584 pp. \$12.50.

The Politics of Pain. Helen Neal. McGraw-Hill, New York, 1978. xviii, 222 pp. \$9.95.

The Powdery Mildews. D. M. Spencer, Ed. Academic Press, New York, 1978. xx, 566 pp., illus. \$54.75.

The Presidential Election Game. Steven J. Brams. Yale University Press, New Haven, Conn., 1978. xx, 242 pp., illus. Cloth, \$15; paper, \$3.95.

Principles of Mammalian Aging. Robert R.

Kohn. Prentice-Hall, Englewood Cliffs, N.J., ed. 2, 1978. xvi, 240 pp., illus. \$18.95. Prentice-Hall Foundations of Developmental Biology Series.

Proceedings of the Fourth Annual Conference on Restoration of Coastal Vegetation in Florida. Tampa, Fla., May 1977. Roy R. Lewis, Ill, and Dorothea P. Cole, Eds. Hillsborough Community College, Tampa, Fla. 1977. iv, 166 pp., illus., + appendix. Paper.

Proceedings of the James C. Kimbrough Urological Seminar. Vol. 11. Denver, Nov. 1977. Norwich-Eaton Pharmaceuticals, Norwich, N.Y., 1978. xxxii, 344 pp. Paper, \$10.

The Process of Question Answering. A Computer Simulation of Cognition. Wendy G. Lehnert. Erlbaum, Hillsdale, N.J., 1978 (distributor, Halsted [Wiley], New York). x, 278 pp. \$15.

Professional Engineer's License Guide. What You Need to Know and Do to Obtain PE (and EIT) Registration. Joseph D. Eckard, Jr. Herman Publishing, Boston, ed. 3, 1978. xx, 108 pp. Cloth, \$11.95; paper, \$6.95. Herman's Career Management Guides.

Progress in Assessing Technological Innovation. Vol. 2. H. R. Clauser, Ed. Technomic, Westport, Conn., 1978. vi, 164 pp. \$20.

Progress in Behavior Modification. Vol. 6. Michel Hersen, Richard M. Eisler, and Peter M. Miller, Eds. Academic Press, New York, 1978. xvi, 252 pp., illus. \$18.50.

Progress in Human Nutrition. Vol. 2. Sheldon Margen and Richard A. Ogar, Eds. AVI Publishing Company, Westport, Conn., 1978. xiv, 314 pp. \$22.

Progress in Inorganic Chemistry. Vol. 24. Stephen J. Lippard, Ed. Interscience (Wiley) New York, 1978. viii, 494 pp., illus. \$35.95.

Progress in Theoretical Biology. Vol. 5. Robert Rosen and Fred M. Snell, Eds. Academic Press, New York, 1978. xiv, 378 pp., illus. \$39.50.

The Runaway Universe. Paul Davies. Harper and Row, New York, 1978. 206 pp. + plates. \$10.

Science and Technology of Rubber. Frederick R. Eirich, Ed. Academic Press, New York, 1978. xiv, 672 pp., illus. \$42.

The Syntax and Semantics of Complex Nominals. Judith N. Levi. Academic Press, New York, 1978. xxiv, 302 pp., illus. \$22.

Tachyons, Monopoles, and Related Topics. Proceedings of a meeting, Erice, Italy, Sept. 1976. Erasmo Recami, Ed. North-Holland, Amsterdam, 1978 (U.S. distributor, Elsevier, New York). xii, 286 pp., illus. \$37.75.

The Varieties of the Meditative Experience. Daniel Goleman. Irvington, New York, and Halsted (Wiley), New York, 1978. xxviii, 130 pp. \$12.50. Irvington Social Relations Series.

The Visionary Eye. Essays in the Arts, Literature, and Science. J. Bronowski. MIT Press, Cambridge, Mass., 1978. xii, 186 pp., illus. \$10.

Vitamin D. D. E. M. Lawson. Academic Press, New York, 1978. x, 434 pp., illus. \$42.40.

Ways of Worldmaking. Nelson Goodman. Hackett, Indianapolis, 1978. xii, 142 pp., illus. \$9.95.

Wind in the Rock. Ann Zwinger. Harper and Row, New York, 1978. x, 258 pp., illus. \$15.

The Wired Society. James Martin. Prentice-Hall, Englewood Cliffs, N.J., 1978. xii, 300 pp. \$12.95.

Your Brain and Nerves. J. Lawrence Pool. Scribner, New York, ed. 2, 1978. xii, 212 pp. Paper, \$3.95.



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POSITIONS WANTED

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

Environmental/Marine Chemist, Ph.D. 1971. Broad background in multidisciplinary studies of nutrients, heavy metals, and so forth, in marine environments, and engineering. Administration, governmental, and foreign experience, publications. Seeks challenging position in South or on West Coast. Résumé on request. Box 98, SCIENCE. X

D.V.M., Ph.D. Experimental Reproductive Physiology. Animal models to determine different influences. Academic or industrial position. Box 108, SCIENCE. X

Medical Devices Safety Scientist—Head of Regulatory Compliance with solid background in all phases of product safety evaluation, GLP implementation, up-to-date in GMP, IDE, Restricted Devices and Clinical Investigations regulations: seeking responsible position at corporate level with medical device manufacturing company. Degree in medical sciences; 20 years of experience; well established liaison with several government agencies as well as HIMA, ASTM, and AAMI. Box 96, SCIENCE. X

Microbiologist/Microbial Physiologist. Ph.D. 1966. Seeks position in industrial research or quality control. Fifteen years of experience includes environmental microbiology, soils, water pollution, anaerobes, and vaccine production. Publications. Box 109, SCIENCE. X

Toxicologist/Neurophysiologist/Behavior M.S. Two years of experience in primate operant techniques, project management, stereotaxic surgery, and recording and electrode implantation. Additional experience in physiology, abdominal and thoracic surgery, respiratory physiology, and cardiovascular physiology. Thesis topic: Electrographic Evaluation of the Neurotoxicity of Mirex. Seeks industrial, academic, or government position. R. E. Stevens III, 506 Thistle, Garland, Texas 75043. X

POSITIONS WANTED

Scientist, educator/administrator: counselor/psychologist (meteorologist). Personnel analyst (tests-measures, career GS/12). Instructor research/statistics: personnel selection and training. Published in career planning. Box 654, Chambersburg, Pennsylvania 17201. X

POSITIONS OPEN

ASSISTANT, ASSOCIATE, OR FULL PROFESSOR—The Department of Earth Resources is seeking a Ph.D. in forest hydrology, watershed sciences, or related field for a teaching/research position in snow hydrology. The position is full-time academic faculty. Duties include undergraduate/graduate teaching, advising, and research. Rank and salary commensurate with training and experience. Send complete résumé, three letters of reference, and other supporting materials by 1 June 1979 to: **Dr. Stanley L. Ponce, Department of Earth Resources, Colorado State University, Fort Collins, Colorado 80523.** Anticipated appointment date: 20 August 1979.

Colorado State University is an Equal Opportunity Employer and complies with Title IX requirements.

ASSISTANT PROFESSOR, DEPARTMENT OF BIOCHEMISTRY, COLLEGE OF MEDICINE. Applicants must have Ph.D. degree and postdoctoral training in molecular or cellular immunology, or biochemical genetics. Preference will be given to individuals whose research deals with immunologically important systems at the molecular level, especially structure, function, or control of lymphocyte genes, lymphocyte nonhistone chromosomal proteins, lymphocyte cell surface receptors or antigens, or structure-function properties of lymphocyte membranes. Applicants must be well trained in biochemistry and be able to teach medical and graduate students. Send curriculum vitae, summary of present and future research, and names, addresses, and telephone numbers of three people who may be contacted for reference to: **F. P. Inman, Chairman, East Tennessee State University, P.O. Box 19930A, Johnson City, Tenn. 37601.** *East Tennessee State University is an Affirmative Action Equal Opportunity Employer, M/F.*

ASSISTANT PROFESSOR—BIOCHEMISTRY

Applications are invited for a tenure-track position beginning in fall 1979. Teaching responsibilities will include courses in biochemistry and cell physiology. Candidates will be expected to develop an active research program. Closing date for application is 27 April 1979. Please forward curriculum vitae, reprints, and three letters of reference to:

Gerald W. Esch, Chairman
Department of Biology
Wake Forest University
Winston-Salem, N.C. 27109

An Equal Opportunity/Affirmative Action Employer; minorities, women, and the handicapped are encouraged to apply.

ASSISTANT PROFESSOR OF BIOCHEMISTRY. A 12-month, tenure-track position is anticipated to be available 1 July, depending on funding, for someone in the general area of plant biochemistry. Responsibilities include participation in the undergraduate and graduate teaching program. The individual is expected to develop a vigorous, independent research program in plant biochemistry which would be compatible with a joint appointment in the College of Agriculture and Experiment Station. A Ph.D. in biochemistry with postdoctoral experience is required. Please send résumé, graduate transcripts, summary of research interests, and names of three references to: **R. P. Wilson, Head, Department of Biochemistry, P.O. Box BB, Mississippi State University, Mississippi State, Miss. 39762.** *An Affirmative Action Employer.*

ASSISTANT PROFESSOR OF BIOLOGY—Position beginning fall 1979. Candidates must have Ph.D. and demonstrated teaching effectiveness. First year duties include teaching introductory biology and/or human biology for nursing and allied health students and the development of an advanced undergraduate course in one of the following fields: embryology, microbiology, immunology, or endocrinology. Salary open. Send résumé with names of three references to: **Dr. Richard H. Moore, Science Division, Coastal Carolina College, Conway, S.C. 29526.** *Equal Opportunity/Affirmative Action Employer.*

POSITIONS OPEN

THE UNIVERSITY OF CALGARY Faculty of Medicine Division of Pharmacology and Therapeutics

Applications are invited for a position as an assistant professor commencing September 1979. Duties will include teaching in both the undergraduate and graduate educational programme. Successful applicant must be an active researcher. Salary and rank according to qualifications and experience. Nominations and/or applications will be received by:

Dr. S. H. Roth, Acting Head
Division of Pharmacology and Therapeutics
Faculty of Medicine
The University of Calgary
Calgary, Alberta, Canada T2N 1N4

Applications are invited for an **ASSISTANT PROFESSORSHIP** in the Department of Neurology at the Johns Hopkins School of Medicine and Hospital. Candidates must be able to conduct independent research and participate in on-going research programs in neuromuscular physiology and diseases, to perform and teach clinical electromyography. Send details of research experience and three letters of reference to: **C. Barlow, Department of Neurology, Johns Hopkins School of Medicine, 1721 East Madison Street, 317 Traylor Building, Baltimore, Maryland 21205.**

SUPPLY ASSISTANT PROFESSOR OF BIOCHEMISTRY

The availability of a nontenure-track position is anticipated in summer 1979. Initial appointment for 2 years, with a maximum of five possible. Responsibilities include research with some teaching. Preference given individuals with experience and research interest in nucleotide regulated phenomenon. Laboratory space and assistance in the synthesis and utilization of proven nucleotide photoaffinity probes will be provided. Send résumé to: **Ivan I. Kaiser, Chairman, Department of Biochemistry, Box 3944, University Station, University of Wyoming, Laramie, Wyoming 82071.** *University of Wyoming is an Equal Opportunity/Affirmative Action Employer.*

ASSISTANT PROFESSOR OF CELL BIOLOGY

The Department of Cell Biology has two faculty positions available at the assistant professorial level. Formal duties associated with each position include teaching in the cell biology/histology course for medical students. Preference will be given to candidates with 2 years of postdoctoral training, relevant teaching experience, and research accomplishments in cell or reproductive biology. Submit curriculum vitae, list of publications, research plan, and three letters of recommendation by 15 April to:

William B. Neaves, Ph.D.
Faculty Search Committee
Department of Cell Biology
The University of Texas Health
Science Center at Dallas
Southwestern Medical School
5323 Harry Hines Boulevard
Dallas, Texas 75235

The University of Texas Health Science Center is an Equal Opportunity/Affirmative Action Employer.

The Department of Animal Science, **University of California, Davis**, is seeking an **ASSISTANT PROFESSOR** in nutrition of simple stomach animals. The position will include teaching 60 percent and research 40 percent (in the Agricultural Experiment Station).

Qualifications: a Ph.D. in nutrition, or equivalent qualification, with emphasis in biochemistry and physiology.

The appointee would be expected to teach courses in both the undergraduate (upper division) and graduate programs in nutrition and develop a nutritional research program in one or more nonruminant species of mammals, particularly, but not restricted to, swine and/or horses.

Applications: applicants should submit curriculum vitae, transcripts, bibliography, and the names and addresses of at least three persons familiar with your work to: **J. G. Morris, Chairman, Search Committee, Department of Animal Science, University of California, Davis, Calif. 95616.**

Applications should be submitted by 1 May 1979. The position is available 1 July 1979.

The University of California is an Equal Opportunity/Affirmative Action Employer and invites applications from all qualified individuals.

POSITIONS OPEN

ASSISTANT PROFESSOR MICROBIOLOGY AND IMMUNOLOGY

Applications are invited for an appointment as an assistant professor in the Department/Program of Microbiology and Immunology, the College of Science and Engineering, and The School of Medicine, Wright State University. Applicants must have a Ph.D. with a minimum of 2 years of postdoctoral experience in the combined areas of microbial genetics and pathogenesis of bacterial toxins. Applicants should send curriculum vitae, statements of research and teaching interest, and three letters of recommendation by 15 May 1979 to: **Search Committee, Department of Microbiology and Immunology, 409 Oelman Hall, Wright State University, Dayton, Ohio 45435.**

Equal Opportunity/Affirmative Action Employer

ASSISTANT OR ASSOCIATE PROFESSOR IN RENAL PHYSIOLOGY beginning 1 July 1979. A Ph.D. or M.D. is required with evidence of postdoctoral training in broad areas of renal function. Preference will be given to candidates with teaching experience. Responsibilities: (i) assume the major teaching organizational activities in renal physiology for medical students, including the development of integrated educational activities, (ii) conduct independent research in area of major interest, and (iii) participate in graduate education in the basic medical sciences. Adequate time for research is provided. An office and partially equipped laboratory are available in the new Medical Educational Building. Send applications to: **Margaret C. Conrad, Ph.D., Professor and Chairman, Department of Physiology, Eastern Virginia Medical School, P.O. Box 1980, Norfolk, Va. 23501.** An Affirmative Action/Equal Opportunity Employer.

Applications are invited for an **ASSISTANT RESEARCH BIOLOGIST** to study diphtheria toxin uptake in tissue culture cells. Applicant must have experience in tissue culture, toxin resistant mutant selection, and toxin biochemistry. Also, person should have demonstrated independent research ability and is expected to carry out an active research program. The beginning salary is \$17,500 per year. Please send résumé and three letters of recommendation by 1 April to:

Dr. Melvin I. Simon
Department of Biology, B-022
University of California, San Diego
La Jolla, Calif. 92093

The University of California, San Diego, is an Equal Opportunity/Affirmative Action Employer.

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.

Faculty rank, tenure, and salary will be awarded commensurate with experience.

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

James W. Walters, O.D., Ph.D.
University of Houston
College of Optometry
Houston, Texas 77004
Telephone: 713-749-4102

The University of Houston is an Equal Opportunity Employer.

UNIVERSITY OF MICHIGAN MEDICAL SCHOOL

ASSOCIATE PROFESSOR OR PROFESSOR, CHIEF OF RADIOLOGY at Veterans Hospital; position available 1 July 1979. Duties include administration of the radiology programs in teaching, research, and patient care at the Veterans Administration Hospital under a contract for professional services with the University of Michigan. Must have previous staff position in academic radiology department with experience in teaching, research, and patient care. Should have record of publications and experiences to qualify for senior professional rank at the University of Michigan Medical School. Reply to: **Box 105, SCIENCE, Code 100D0.** A nondiscriminatory, Affirmative Action Employer.

POSITIONS OPEN

ASSOCIATE RESEARCH NEUROLOGIST

A scientist is being sought to fill the above position. Applicants need to have a Ph.D. in biochemistry and to hold an academic position equivalent in rank to an assistant research neurologist or assistant professor. Applicants must have demonstrated ability in the discovery of potential biochemical defects in neurological disease, in studies on the pathophysiology of neurological disease, and expertise in each of the following: protein purification, gel electrophoresis and isoelectric focusing, lipid biochemistry, purification and assay of intermediary metabolites, subcellular fractionation, enzyme kinetics with both spectrophotometric and fluorometric techniques, tissue culture (including human tissues for studies of disease), electron microscopy, and intracellular electrical recording from muscles.

Please send curriculum vitae and bibliography to: **Dr. R. A. Pieter Kark, Reed Neurological Research Center, UCLA School of Medicine, Los Angeles, Calif. 90024.** UCLA is an Equal Opportunity Employer.

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 Employment Opportunity Institution

AVIAN SOCIOBIOLOGIST. Applications are solicited for a half-time assistant professorship in avian sociobiology. Position will be at the assistant professor level and will be available September 1979. Applicants must have Ph.D., postdoctoral research experience, and three or more publications in internationally circulated and refereed journals. Send curriculum vitae, names and addresses of five references, and one-page summary of current and anticipated research interests by 15 April 1979 to:

Dr. Michael Gilpin
Search Committee
Department of Biology C-016
University of California, San Diego
La Jolla, Calif. 92093

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

BIOCHEMICAL TOXICOLOGIST

An immediate opening exists for an individual with a Ph.D. in toxicology or pharmacology with background in organic or analytical chemistry. The position involves disposition, metabolism, and nucleic acid binding of toxic chemicals in vivo and in vitro in mammals. Experience in isolation and identification of metabolites of foreign chemicals is desirable.

The position provides an opportunity for the successful candidate to develop his/her own area of interest.

The Syracuse Research Corporation (SRC) is a multidisciplinary, not-for-profit organization located on the south campus of Syracuse University. SRC offers a competitive salary, excellent benefits, and a stimulating research environment.

For confidential consideration, please send résumé including salary history, and three references to:

Personnel Manager
Syracuse Research Corporation
Merrill Lane
Syracuse, New York 13210

An Equal Opportunity/Affirmative Action Employer

CHEMIST—Development of techniques and design of polymeric reagents for synthesis of proteins and polypeptides for biology and medicine. Minimum of 1 year of experience on enzyme research. Ph.D. in chemistry; 37 1/2-hour week; salary: \$13,000. Contact: **Dr. John Glass, Department of Physiology and Biophysics, THE MOUNT SINAI SCHOOL OF MEDICINE, One Gustave L. Levy Place, N.Y., N.Y. 10029.** An Equal Opportunity Employer.

AUSTRALIA MINISTRY FOR THE ARTS NATIONAL MUSEUM OF VICTORIA

The National Museum of Victoria, founded in 1854, is a state government funded museum covering the fields of zoology, mineralogy, palaeontology, and anthropology with a special research interest in Southeastern Australia. The museum is under the control of the National Museum of Victoria Council and staff are employed by the Public Service Board of Victoria. There are 11 curatorial departments with a total scientific staff of 26. Research is supported by one of the largest natural history reference libraries in Australia. The collections contain significant holdings in most animal groups.

Applications are invited from persons who possess appropriate qualifications for the following position:

CURATOR OF CRUSTACEA Class "SO-5," Second Division A\$18,251

The appointee will be responsible to the director to carry out appropriate taxonomic research, to maintain and curate the departmental collection, answer public and professional enquiries, and contribute, as required, to the educational and exhibition programmes of the museum.

The successful applicant will possess an approved higher degree in science with a major in zoology and proven evidence of wide research experience appropriate to the collections, together with ability to maintain collections and advise on museum exhibits.

The successful applicant will, subject to passing a prescribed medical examination, be appointed as permanent officer of the Victorian Public Service. Conditions of service include 4 weeks of annual leave with holiday pay loading, liberal sick leave, maternity and paternity leave, eligibility for long service leave after completion of 10 years of service, and a generous contributory superannuation scheme.

Applications in writing, quoting Position No. L08/25/0151/8, and stating qualifications, experience, and date of birth, must reach: **the Secretary, Public Service Board of Victoria, 1 Treasury Place, Melbourne, 3002, Victoria, Australia,** by not later than 9:30 a.m. on Wednesday, 16 May 1979.

VICTORIAN PUBLIC SERVICE

DIRECTOR UNIVERSITY OF MINNESOTA ST. PAUL CAMPUS LIBRARIES

Under the general direction of the director of University of Minnesota Libraries, the director of the St. Paul Campus Libraries is responsible for the administration of this department, which includes a Central Library, which is undergoing major expansion, and six physically separate subject libraries. The collections total over 200,000 cataloged volumes as well as substantial holdings in government publications and other materials, which support programs in agriculture, biological sciences, and veterinary medicine. There is an operating budget of \$770,000, including \$275,000 for acquisition and binding, and a staff of 41 FTE, including 12 professionals. As director of one of the seven major departments in the University Libraries, the individual participates fully in University Libraries-wide planning and program development.

Applicants must have demonstrated exceptional skills in leadership, administration, planning, and interpersonal relations. They must possess the M.L.S. or an appropriate equivalent, as well as significant applicable experience in a major university library. An educational background in the agricultural, biological sciences, or supporting science is desirable. Applicants should be able to meet the requirements of a university libraries faculty appointment with tenure at the rank of associate professor or professor.

The minimum starting salary is \$25,000; this includes an administrative stipend.

Closing date for receipt of applications: 15 May 1979.

The University of Minnesota is an Equal Opportunity Educator and Employer.

Send application, detailed résumé, and names of three references to: **Clarence Carter, Personnel Officer, 499 Wilson Library, University of Minnesota, Minneapolis, Minnesota 55455.**

POSITIONS OPEN

BIOLOGY, ASSISTANT PROFESSOR. The Department of Biology of Chatham College seeks a Ph.D. with a strong commitment to excellence in teaching. Primary responsibility is in the teaching of general biology with expertise to teach introductory and upper level courses in ecology or marine biology or nutrition. Other areas will be considered with the exception of botany, microbiology, genetics, and developmental biology. Position open for fall 1979. Interested candidates should send curriculum vitae and three letters of reference to: **Dr. Conrad M. Hess, Department of Biology, Chatham College, Pittsburgh, Pa. 15232. Equal Opportunity Employer.**

BOTANIST/PLANT ECOLOGIST—Applications invited for position of **MARKETING REPRESENTATIVE—MANAGEMENT TRAINEE** with a major North American grower of flower seeds. Individual, if selected, will work with both garden seed and wild-flower seed customers. Service of accounts and planting recommendations will be major duties. Position will allow involvement in pricing, advertising, market planning, and general management.

Opportunities for North American travel (several 2- to 3-week trips per year). Must relocate to Los Angeles area. B.S. in botany or plant ecology required; M.S. desirable. Salary: \$12,000 per year and fringes. Contact: **Howard S. Bodger, President, Budget Seeds, Ltd., Box 5090, El Monte, Calif. 91734.**

A position is available in the Department of Microbiology at the assistant professor level for a **CELLULAR IMMUNOLOGIST (M.D.)**. Columbia University, College of Physicians and Surgeons, New York. Teaching duties are at graduate and medical student level. Send curriculum vitae and names of three references to: **Harold S. Ginsberg, M.D., Chairman, Department of Microbiology, Columbia University, College of Physicians and Surgeons, 701 West 168 Street, New York, N.Y. 10032. Columbia University is an Equal Opportunity/Affirmative Employer.**

CHAIRPERSON, ANATOMY, SCHOOL OF MEDICINE, KANSAS CITY, KANSAS. Applications invited from established scholars with a strong commitment to research and teaching. Must have demonstrated a strong ongoing research program as well as capability of leading and administering a department with a present full-time faculty of 13, 6 supporting staff, and 9 teaching assistantships. Send curriculum vitae, bibliography, and three references by 15 April to: **Dr. H. Clarke Anderson, Chairman, Anatomy Search Committee, Department of Pathology, University of Kansas School of Medicine, College of Health Sciences and Hospital, Kansas City, Kans. 66103. An Equal Opportunity/Affirmative Action Employer.**

CHEMICAL TOXICOLOGIST. Tenure-track assistant or associate professor. Available August 1979. Ph.D. required. Previous training and research experience in toxicology is essential. Applicant should have a strong background in chemistry and biochemistry. The successful applicant will be expected to develop a strong research program in toxicology which would attract continued outside funding in support of our M.S. chemistry and Ph.D. biomedical sciences degree programs. Responsibilities include undergraduate teaching in the individual's specialty as well as graduate courses in toxicology. Send résumé, research project proposals, and three letters of recommendation to: **Dr. Frank E. Scully, Jr., Chairman, Search Committee, Department of Chemical Sciences, Old Dominion University, Norfolk, Va. 23508.** Applications must be received no later than 30 April 1979. *Applications from all qualified individuals are invited. An Affirmative Action/Equal Opportunity Employer.*

BIRZEIT UNIVERSITY

An independent Arab University in the Israeli-occupied West Bank of Jordan has the following faculty openings for the academic year 1979-1980: **BIOLOGY-BIOCHEMISTRY, CHEMISTRY (PHYSICAL, INORGANIC, ORGANIC), MATHEMATICS (ALGEBRA, ANALYSIS, MATHEMATICAL STATISTICS), PHYSICS (EXPERIMENTAL AND THEORETICAL).** English is the basic language of instruction and candidates should have a Ph.D. preferably or a master's degree with experience. Starting annual salary for Ph.D. is 2700 Jordanian Dinars (current exchange 1 J.D. = U.S.\$3.35). Optional summer teaching extra. Fringe benefits include relocation allowance (15 percent of salary). Transportation also provided. All applications should be addressed to: **Dean of the Faculty of Science, Birzeit University, Birzeit, West Bank via-Israel.**

POSITIONS OPEN

DIRECTOR. The Fred Hutchinson Cancer Research Center, one of the 20 comprehensive cancer research centers in the United States, seeks a director to serve as its chief executive officer. The director's duties include responsibility for hiring scientific personnel, budget and grant preparation and review, and space allocation. The director should be a medical doctor with cancer research, clinical, administrative, and grant experience. Résumés should be submitted no later than 6 April 1979, to: **David C. Lyette, Co-Chairman, Search Committee, 3800 Rainier Bank Tower, Seattle, Washington 98101. An Equal Opportunity Employer.**

A search is announced for a **DIRECTOR, PROGRAM IN MEDICAL SCIENCES**, Florida State University. This innovative program integrates undergraduate curricula at Florida State University and Florida A&M University in Tallahassee, Florida, with the first year medical curriculum after which students transfer to the University of Florida College of Medicine in Gainesville for completion of their M.D. degree. Qualifications desired in the director include an M.D. or Ph.D. degree, experience in medical education, some administrative experience, strong leadership ability, and sufficient evidence of scholarship to qualify for an appointment in an appropriate academic department at Florida State University. Salary range up to \$40,000, commensurate with qualifications and experience.

Send letters of application or nomination, curriculum vitae, and letters of recommendation to: **Dr. Lloyd M. Beidler, Chairman, Search Committee for Director, Program in Medical Sciences, Room 239, Biology Unit I, Florida State University, Tallahassee, Florida 32306.** Application deadline: 30 April 1979. *An Affirmative Action/Equal Opportunity Employer.*

NEW POSITION DIRECTOR OF MARINE SCIENCES PROGRAM University of Houston, Central Campus Houston and Galveston, Texas

Search has commenced for a director of the developing Marine Science Program at the University of Houston. This appointment is a 12-month, full faculty appointment at the advanced level on the Central Campus, Houston. Seriously interested applicants should be of high academic stature, national professional reputation, and should possess evidence of consistent success in funded research. Area of expertise is open, rank and salary are negotiable, and research space will be provided either at the National Marine Fisheries Laboratory (Galveston) or on the Houston Central Campus. Previous administrative experience is most desirable. Applicants are to send curriculum vitae, significant reprints, names of five referees, and a statement of future research plans to:

**Search Committee, Director of
Marine Science Program
c/o Department of Biology
Science and Research Building II
University of Houston
Houston, Texas 77004
Equal Opportunity Employer**

ECOLOGIST, in undergraduate biology department. Tenure-track position beginning September 1979. Recent Ph.D. required, rank dependent on experience. To teach ecology, participate in team-taught general biology course and an advanced course in own specialty. Primary consideration given to teaching excellence; research encouraged. *Applications from women particularly welcome.* Send curriculum vitae and three letters of recommendation to: **Dr. Bruce B. Criley, Head, Biology Department, Illinois Wesleyan University, Bloomington, Ill. 61701. Equal Opportunity Employer.**

ENVIRONMENTAL PLANNING. Visiting professorship available in University of California, Los Angeles (UCLA), Urban Planning Program for academic year 1979-1980, with possibility of continuing appointment. Should have experience in environmental planning and policy formulation. Must be able to teach a course applying scientific (for example, ecological) principles to environmental issues. Background in environmental/life sciences preferred. Doctorate complete or expected shortly. Planning experience desirable. Send curriculum vitae, names of referees, and a brief statement of interests/objectives to: **Professor W. D. Conn, UCLA School of Architecture and Urban Planning, Los Angeles, Calif. 90024. An Equal Opportunity/Affirmative Action Employer.**

POSITIONS OPEN

ENZYMOLOGIST, experienced in preparation and evaluation of immobilized enzymes for therapeutic use. Position involves collaborative clinical studies and development of immobilized enzyme devices. Send résumé to:

**Dr. Joseph D. Shore
Biochemistry
Henry Ford Hospital
2799 West Grand Boulevard
Detroit, Michigan 48202**

EVOLUTIONARY BIOLOGIST. The Department of Biology, University of California, San Diego, invites applications for a faculty position at the level of assistant or associate professor. Applicants must have Ph.D., postdoctoral experience, and three or more publications in internationally circulated and refereed journals. Teaching duties include a course in evolution, general population biology, and graduate seminars. Applicants should send curriculum vitae, names and addresses of five references, and three recent reprints. The position will be available September 1979 and the level and salary are negotiable. Send applications by 15 April 1979 to:

**Dr. Jack Bradbury
Search Committee
Department of Biology C-016
University of California, San Diego
La Jolla, Calif. 92093**

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

THE DEPARTMENT OF OPHTHALMOLOGY, UNIVERSITY OF MINNESOTA, seeks a full-time faculty member with experience in cornea and external diseases and anterior segment surgery. Salary and rank will be commensurate with experience. Inquiries should be made to: **Dr. Donald J. Doughman, Department of Ophthalmology, University of Minnesota, Box 493, Health Sciences Unit C 9-245, 516 Delaware Street, SE, Minneapolis, Minn. 55455. The University of Minnesota is an Equal Opportunity Employer.**

FACULTY POSITIONS

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

**William N. Spellacy, M.D.
Professor and Head
Department of Obstetrics and Gynecology
Abraham Lincoln School of Medicine
University of Illinois Medical Center
840 South Wood Street
Chicago, Illinois 60612**

Affirmative Action/Equal Opportunity Employer

FACULTY POSITION, PEDIATRIC NUTRITION

Department of Pediatrics, University of Arizona College of Medicine, invites applications for faculty position at professor or associate professor level, to develop vigorous research program in pediatric nutrition. Established investigator sought, M.D. and/or Ph.D. with substantial record in nutrition research. Address inquiries to: **Dr. Gail Harrison, Department of Pediatrics, University of Arizona College of Medicine, Tucson, Ariz. 85724. The University of Arizona is an Equal Opportunity/Affirmative Action/Title IX/Section 504 Employer.**

FACULTY POSITION

Assistant professor needed in Forensic Science Program at the University of New Haven, starting in September 1979.

Primary responsibilities:

Graduate and undergraduate teaching,
Student advising,
Research, and
Possible teaching at extensions.

Qualifications:

Ph.D. in forensic science or related natural science area, and
Laboratory experience.

Salary: dependent on training and experience.

Applications must be received by 1 May 1979. Send curriculum vitae to:

**Dr. Henry C. Lee
Director of Forensic Science
University of New Haven
300 Orange Avenue
West Haven, Connecticut 06516
Telephone: 203-934-6321, extension 429**

An Equal Opportunity/Affirmative Action Employer

Biologist

DIVISION DIRECTOR ENVIRONMENTAL SCIENCE

ESE, a total environmental services consulting firm has a position available for an outstanding individual with a MS or PhD in the life sciences plus several years experience to manage the Environmental Science Division. Background should include development of new business and management of large multi-disciplinary projects preferably in utilities, phosphate or surface coal mining.

Will manage and further develop a major division which includes aquatic biology, terrestrial ecology and environmental planning activities. Excellent starting salary: \$30,000-\$35,000 and the potential for promotion to Vice President.

If you wish to be considered for this position, send your chronological resume with salary history in confidence to Hall A. Acuff.

ENVIRONMENTAL SCIENCE AND ENGINEERING, INC.

P.O. Box 13454
Gainesville, Florida 32604

An Equal Opportunity Employer M/F

GEOPHYSICIST Marine Science Institute The University of Texas at Austin

The University of Texas Marine Science Institute's Geophysics Laboratory is seeking a geophysicist to conduct forefront research into advanced signal processing techniques for marine multi-channel reflection/refraction profiling and ocean bottom seismometer methods. These techniques will include: deep-water deconvolution, source signature enhancement, large aperture array processors, seismic modeling and linear inversion, wave migration depth conversion, and other imaging techniques. The research focus will be primarily directed toward determining the crustal structure beneath continental margins and deep ocean basins.

Candidates must possess a strong theoretical background in wave propagation, array theory, and digital computer signal processing. A Ph.D. degree or equivalent is required. The successful applicant will be expected to play a major leadership role in developing seagoing as well as laboratory research programs and to participate in the graduate education program.

The Geophysics Laboratory's marine facilities include: two ocean-going research vessels equipped with towed, single and multichannel seismic streamer arrays, large air gun sound sources, several shipboard minicomputers, digital data acquisition systems (DFS IV/III) and other standard marine geophysical instrumentation; sonobuoy receiver systems; and the Texas Ocean Bottom Seismograph system. At the Galveston campus a TEMPUS multichannel seismic computer and general purpose IBM 370, PDP 15, and INTERDATA computers are available. A CDC 7600 computer is located on the Austin campus.

This position is immediately available. Salary and rank will be commensurate with experience. Interested applicants should submit their resume stating professional and personal qualifications, publication record, and references to: Director, The University of Texas Marine Science Institute, Geophysics Laboratory, 700 The Strand, Galveston, Texas 77550.

The University of Texas is an equal opportunity/affirmative action employer.

PhD Biopharmaceutics 3M Biosciences Research Laboratory

3M, a major R&D organization, has an immediate opening in its central research laboratories for a creative senior scientist experienced in research on drug delivery systems. Qualifications for this position include a PhD in Biopharmaceutics or a related field and at least 2 years additional post-doctoral or industrial experience. Located at 3M Center in St. Paul, Minnesota, we offer a competitive salary, excellent benefits and a challenging opportunity. Send your resume including salary history requirements in confidence to Dennis L. Nelson.

Staffing & Employee Resources
3M Center
St. Paul, Minnesota 55101

We Are An Equal Opportunity Employer M/F



free university amsterdam

The **Faculty of Medicine, laboratory for Physiology** invites applications for the position of a

(senior) research assistant

Applicants should have experience in experimental cardiovascular physiology.

Ph.D. degree in Physiology or H.D. degree is required.

Additional information can be obtained from prof.dr. A.A. Knoop, phone 020 - 548 27 19.

Candidates are expected to agree with the christian charter of the Free University. Candidates are requested to submit their applications, including a curriculum vitae and names and addresses of three referees, within one month after this announcement, to the Personnel Department, P.O. Box 7161, 1007 MC Amsterdam, the Netherlands, quoting reference no. 216-379. The Free University is situated at the De Boelelaan 1085, 1081 HV Amsterdam, the Netherlands.



RESEARCH ASSOCIATE EAST-WEST CENTER

The East-West Center is a national educational institution founded by the U.S. Congress in 1960 to promote better relations and understanding among nations through cooperative programs of study, research, and training. Applications and nominations for academic staff positions in the Environment and Policy Institute are being sought. The research associate positions are full-time and may be permanent (subject to successful probationary period) or fixed-term. Applications for research fellow appointments in these areas are also sought. All center programs are multinational and multidisciplinary. Academic staff, visiting scholars, professionals, and graduate degree students form teams which work on problems with significant mutual consequences for the United States and nations of Asia and the Pacific.

Positions are open to candidates with experience in the following areas:

- Policy and management analysis, focusing on transnational marine resource and management issues or on environmental dimensions of sectoral policies, particularly energy,
- Geography and resource management, with emphasis on relating marine resources and activities to jurisdictional patterns or on the management and utilization of terrestrial systems such as forests,
- Economic analysis, focusing on current and evolving approaches of resource and environmental economics related to assessment of development activities or of ocean management policy options,
- Water resources/quality analysis, focusing on quantification and assessment of water resources in economic development and regional planning in Asia, and
- Environmental health analysis, focusing on the direct and indirect effects of environmental factors on human health and welfare particularly in Asia.

Candidates must have a Ph.D. or its academic equivalent, plus at least 2 years of experience in areas relevant to the institute programs of natural resource and environmental assessment in development planning and assistance and of marine resource and environmental management issues in Asia and the Pacific.

Cover letter should give examples of demonstrated ability to: (i) discover knowledge about natural resource and environmental issues, especially at the international level; (ii) develop applications of this knowledge, for example, curricula, educational materials, policy aids; and (iii) design and implement research and education projects and activities in a team context, preferably multinational. Experience in Asia/Pacific region preferred. Working proficiency in the English language required. Experience in natural resource and environmental analysis and assessment processes desirable. Familiarity with computer modelling and simulation desirable.

Salary commensurate with extent of experience and qualifications. Additional current cost-of-living allowance of 15 percent (subject to change). All nominees will be contacted to determine interest. Applications with cover letter stating area of interest, complete curriculum vitae, and names and addresses of three professional references, must be postmarked no later than 1 June 1979. Starting date flexible. Send to: **Rebecca Lembeck, Associate Personnel Officer, Personnel, Department 19, East-West Center, 1777 East-West Road, Honolulu, Hawaii 96848.**

An Equal Opportunity Employer, M/F

engineers

ENVIRONMENTAL ENGINEERS

We have an immediate opening for three (3) professional staff members within our Environmental Program Department. The openings are:

Senior Environmental Engineer or Scientist

BS or MS in an applicable Engineering or Science discipline and six (6) years of environmental related experience. Responsibilities will include: Technical administration of consultant contracts, development and overview of environmentally related programs including cost and schedule, and maintenance of knowledge of regulations dealing with air and water quality and environmental requirements for power plants and associated facilities.

Environmental Scientist (Biologist)

Advanced degree in aquatic ecology or fisheries biology, and three (3) or more years of related experience. Responsibilities will include: Technical evaluation of ecological monitoring programs, preparation and coordination of environmental documents and other duties to support environmental monitoring and licensing efforts and ecosystem impact analysis for power plants and associated facilities.

Environmental Engineer

BS in an applicable Engineering or Science discipline and three (3) years of applicable experience. Responsibilities will include: Preparation and coordination of environmental documents, compliance monitoring, and other duties to support environmental licensing efforts for power plants and associated facilities.

We are a major Pacific Northwest utility agency with a construction budget over eight billion dollars. One (1) BWR and four (4) PWR's are presently in full construction. Salary is commensurate with experience. Applicants send a detailed resume with specific work experience and salary history to:



Jerry L. Richie
DEPT. RAC
**Washington Public Power
Supply System**
P.O. Box 968
Richland, WA 99352

an affirmative action employer

POSITIONS OPEN

FACULTY POSITION GEOCHEMISTRY/CHEMICAL OCEANOGRAPHY—Anticipated opening as assistant professor in geochemistry/chemical oceanography for September 1979. Candidate should hold a Ph.D. and will be expected to teach graduate-level courses and to develop his/her own research programs. Candidates should have experience in coastal marine waters. By 11 May 1979 send a complete résumé and have three letters of reference sent directly to: **Dr. D. W. Pritchard, Chairman, Search Committee, Marine Sciences Research Center, State University of New York at Stony Brook, Long Island, New York 11794. Equal Opportunity/Affirmative Action Employer.**

NORTHWESTERN UNIVERSITY MEDICAL CENTER

The Department of Physiology is interviewing candidates for a **faculty position** in the area of **CNS control of cardiovascular function**. Research environment includes group of investigators studying CNS control of body functions and behavior, using a variety of contemporary neurophysiological techniques, including microelectrode recording, online computers, and control theory concepts. Applicants should be skilled in these areas. Send curriculum vitae, statement of research goals and past experience, and names of references to: **Dr. James Houk, Chairman of Physiology, Northwestern University Medical School, 303 East Chicago Avenue, Chicago, Illinois 60611. An Affirmative Action Employer.**

NORTHEASTERN UNIVERSITY FACULTY POSITIONS

PROGRAM DIRECTOR for integrated, cooperative medical laboratory science program. Applicant must be certified medical technologist and should have doctorate (master's with outstanding credentials considered). Experience in clinical laboratory and academic teaching is essential; demonstrated research ability is desirable. Rank and salary commensurate with qualifications and experience. Position available 1 July 1979.

CLINICAL CHEMIST AND CLINICAL MICROBIOLOGIST for integrated, cooperative, medical laboratory science program. Applicants should have doctorate (master's with outstanding credentials considered) and must be certified or eligible for certification as medical technologist or clinical chemist/microbiologist. Experience in clinical laboratory and academic teaching is essential; demonstrated research ability is desirable. Rank and salary commensurate with qualifications and experience. Applicant may also be considered for position as program director. Position available summer 1979.

If interested, submit curriculum vitae by 15 April 1979 to: **Dr. John Klaas, Northeastern University, 206 Mugar Building, Boston, Mass. 02115.**

Northeastern University is an Equal Opportunity/Affirmative Action/Title IX Employer.

FACULTY POSITION IN PHYSICS

Applications are invited from qualified candidates for one faculty position in physics at Rust College. Rank and salary are open, and will depend on qualification and experience. Applicants must hold the Ph.D. degree in physics. Research specialization should have biomedical relevance. Ability to acquire funds from external funding agencies is highly desirable. Successful candidate will teach undergraduate physics courses, conduct and direct research in area of specialization, and assist in coordinating undergraduate pre-engineering training program. Send curriculum vitae (including bibliography), detailed statement of teaching/research experience and interests, and three letters of recommendation to: **Dr. Emmanuel C. Igboke, Acting Chairman, Division of Science and Mathematics, Rust College, Holly Springs, Mississippi 38635.** Applications and supporting materials must be received no later than 15 May 1979.

Rust College is an Equal Opportunity Employer

FACULTY POSITION in growing group in the **BIOLOGICAL SCIENCES** to teach biology and conduct research in related area. Ph.D. and evidence of research activity required. Send résumé and three letters of recommendation no later than 20 April 1979 to:

**Biology Search Committee
Department of Chemistry and Chemical Engineering
Stevens Institute of Technology
Hoboken, N.J. 07030**

An Equal Opportunity/Affirmative Action Employer

POSITIONS OPEN

FACULTY POSITION AVAILABLE IN RETINAL HEMODYNAMICS AND BLOOD FLOW STUDIES

University of Illinois Eye and Ear Infirmary and Abraham Lincoln School of Medicine, The University of Illinois at the Medical Center, Chicago.

Applications are invited for a faculty position at the assistant or associate professor level. The major responsibility will be supervision of research on vascular flow in the retina, utilizing a unique noninvasive computerized ophthalmoscopy system. Active interchange with engineers and clinical ophthalmologists will be fostered. An advanced degree (Ph.D. or M.D.) is a prerequisite.

Those interested should direct inquiries, together with curriculum vitae and bibliography, to: **Morton F. Goldberg, M.D., Professor and Head, Department of Ophthalmology, University of Illinois Eye and Ear Infirmary, 1855 West Taylor Street, Chicago, Illinois 60612; telephone: 312-996-6590.**

Equal Opportunity/Affirmative Action Employer

GENERAL ZOOLOGIST. The Department of Biology, University of California, San Diego, invites applications for a temporary position of lecturer. The starting 9-month salary is \$13,944 to be paid in 12 equal installments. This appointment is for 1 year beginning in September 1979 and possibly renewable at the end of the first year. Applicant must have Ph.D., and university teaching experience is desirable. Teaching duties include a lecture course to be taught fall quarter and repeated winter quarter and a laboratory course to be taught winter quarter and repeated spring quarter. Applicants should send curriculum vitae and the names and addresses of five references. Send applications by 15 April 1979 to:

**Dr. Darwin Berg
Search Committee
Department of Biology B-022
University of California, San Diego
La Jolla, Calif. 92093**

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

GENETICS, BIOCHEMISTRY, MICROBIOLOGY

Applications are being invited to fill a position at the assistant professor level effective 1 September 1979. Salary negotiable. The successful candidate will be expected to show competence in teaching genetics, biochemistry, and microbiology at the undergraduate level. Ph.D. required. Applicants should send curriculum vitae, transcripts, and names of three references by 1 April 1979 to: **Dr. Aubrey Thomas, Chairman, Biology Department, Merrimack College, North Andover, Mass. 01845.**

Equal Opportunity Employer

GENETIC COUNSELOR

The University of Kansas College of Health Sciences and Hospital is seeking a trained genetic counselor to coordinate genetics unit activities and to assist in the development of a satellite program. Qualifications include an M.S. degree and at least 500 hours in direct contact with patients in supervised medical genetics clinic and laboratories. Salary is negotiable. Send résumé to: **Neil Schimke, M.D., Department of Medicine, Kansas University Medical Center, 39th and Rainbow Boulevard, Kansas City, Kans. 66103.** Closing date for application is 15 April 1979. *An Affirmative Action/Equal Opportunity Employer.*

IMMUNOLOGIST (ASSISTANT PROFESSOR). Applications are solicited for a 9-month, tenure-track faculty position in immunology. The appointment will be at the assistant professor level and will be available autumn 1979. Applicants must have a Ph.D. degree and postdoctoral or equivalent experience. The applicants should provide evidence of their ability to develop and direct a quality research program in immunology. Responsibilities of the successful candidate will include developing a research program, advising graduate students, development of a graduate-level course in his or her specialty in immunology, and teaching immunology to undergraduate microbiology majors. Complete curriculum vitae and a list of three references should be sent to: **Immunology Search Committee, Department of Microbiology, The Ohio State University, 484 West 12 Avenue, Columbus, Ohio 43210.** Applications will be accepted until 15 May 1979. *The Ohio State University is an Equal Opportunity/Affirmative Action Employer. All qualified persons, including women, members of minority groups, and the handicapped, are encouraged to apply.*

POSITIONS OPEN

IMMUNOLOGIST OR VIROLOGIST. Available summer 1979. Requirements: Ph.D. in animal virology or immunology and demonstrated ability to conduct a high-quality research program. Preference will be given to candidates with postdoctoral experience. Duties include shared participation in instruction of medical students, instruction of graduate students, and conduct of independent research. Appointment will be at assistant or associate professor level. Salary will be commensurate with experience. Send curriculum vitae and names of three references to: **Dr. Mark Hall, Department of Microbiology, University of Nevada, Reno, Nevada 89557.** Application deadline is 1 May 1979 or whenever a suitable candidate is found. *The University of Nevada is an Equal Opportunity Employer and does not discriminate on the basis of sex, race, color, religion, handicaps, or national origin in the educational programs or activities it operates.*

POSITIONS OPEN

MOLECULAR BIOLOGY OF ONCOGENIC VIRUSES ASSISTANT OR ASSOCIATE MEMBER

The Division of Virology, St. Jude Children's Research Hospital, invites applications from individuals with promise (assistant) or evidence (associate) of outstanding research abilities. We favor candidates with interests in nuclear DNA viruses (papova-, adeno-, herpes-) and experience in recombinant DNA technology. However, exceptional candidates with other research interests will be considered. This is a full-time research position with no teaching or service responsibilities. *St. Jude Hospital is an Equal Opportunity Employer.* Please submit curriculum vitae, summary of research plans, and names of three referees to: **Dr. Allan Granoff, Chairman, Division of Virology, St. Jude Children's Research Hospital, Memphis, Tenn. 38101.**



Open to both
men and women

Public Service Commission
Canada
Fonction Publique
Canada

PLANT PATHOLOGIST — CEREAL CROPS (109-031-003)

Salary up to \$34,045 depending on experience

Ref. No: 78-RES-73 (S)

Agriculture Canada

Charlottetown Research Station — Charlottetown, P.E.I.

The Public Service of Canada has an immediate requirement for a scientist to conduct a research program in plant pathology with an emphasis on the epidemiology and control of major foliar diseases of barley and wheat in the Atlantic provinces.

Qualifications

Applicants must possess a Ph.D. or have a lesser degree with research experience and productivity equivalent to a doctorate, in plant pathology. It is also essential, for applicants to receive further consideration, that they have experience in conducting research related to cereal pathology. Knowledge of English is essential.

How to Apply

Send your application form and/or résumé to:

D.E. Fraser

Public Service Commission of Canada

National Capital Region Staffing Office

Ottawa, Ontario K1A 0M7

Closing Date: April 30, 1979

Please quote the applicable reference number at all times.

POSITIONS OPEN

GROSS ANATOMIST

Anatomist needed to teach gross anatomy. Applicant should have 5 to 8 years of experience, hold M.D. or Ph.D. degree, and have demonstrated competence in both teaching and research. Prefer individual with secondary interest in microscopic anatomy. Position available at assistant/associate level; salary commensurate with qualifications.

Send complete curriculum vitae, including names of three professional references, to: Dr. J. W. Wagner, Head, Department of Anatomy, Texas A & M University, College of Medicine, Olin E. Teague Research Building, College Station, Texas 77843.

Texas A & M University is an Equal Opportunity/Affirmative Action Employer.

UNIVERSITY OF MICHIGAN MEDICAL SCHOOL

INSTRUCTOR, ASSISTANT PROFESSOR, ASSOCIATE PROFESSOR, OR PROFESSOR position available 1 July 1979. The physician will take part in the program of patient care, teaching, and research carried on in the Department of Radiology. He or she will supervise the activities of the resident staff and aid in the teaching of residents and medical students. Must be Board-eligible or Board-certified. Entering level commensurate with qualifications and experience. Reply to: **Box 106, SCIENCE**. Code 500H0. A nondiscriminatory, Affirmative Action Employer.

INSTRUCTOR/ASSISTANT PROFESSOR for non-tenure-track position teaching anatomy-physiology and human anatomy laboratories to prehealth science students. M.A./M.S. is the minimum requirement. Teaching experience desirable. Closing date for applications 6 April 1979. Send résumé and names of three references to: Dr. Peter Giebel, Department of Biology, Virginia Commonwealth University, Richmond, Virginia 23284. An Equal Opportunity/Affirmative Action Employer.

UNIVERSITY OF MICHIGAN MEDICAL SCHOOL

Four positions available 1 July 1979 for **INSTRUCTOR THRU PROFESSOR** at the University of Michigan, Department of Radiology. The physician will take part in the program of patient care, teaching, and research carried on in the Department of Radiology. He or she will supervise the activities of the resident staff and aid in the teaching of residents and medical students. Must be Board-eligible or Board-certified. Entering level commensurate with qualifications and experience. Reply to: **Box 107, SCIENCE**. Code 1500F0, 700F0, 900F0, 1200H0. A nondiscriminatory, Affirmative Action Employer.

LABORATORY CHIEF: CLINICAL PHARMACOLOGY. Individual needed to develop and supervise performance drug assays for research and special patient care projects. Individual will participate in originating, conducting, and reporting clinical pharmacology research studies. Ph.D. in a scientific discipline relevant to clinical pharmacology required; 3 to 5 years of experience in performing and/or supervising drug assay work, and analysis experience (fluorometry, gas chromatography, radioimmunoassay, and so forth) preferred. Salary is commensurate with experience. Excellent employee benefit program. Send detailed résumé with salary requirement to: Dr. Roger K. Ferguson, M.D., Director of Clinical Pharmacology, Thomas Jefferson University Hospital, Room 502, Main Building, 10th and Walnut Streets, Philadelphia, Pa. 19107. Affirmative Action/Equal Opportunity Employer.

MARINE CHEMIST

The Department of Oceanography, University of Hawaii, anticipates an opening for a marine chemist at the assistant researcher level, starting 1 September 1979 pending availability of tenure-track position and funds. The position will be equally split between the Department of Oceanography for graduate teaching and the Hawaii Institute of Geophysics, where research is emphasized. The appointee will be expected to explore his/her own field of specialization and to interact extensively with faculty and students in other fields. Applicants should solicit three letters of reference, and submit curriculum vitae and a brief description of their future research plans to: Dr. Keith E. Chave, Department of Oceanography, University of Hawaii, Honolulu, Hawaii 96822. All materials must be received by 1 May 1979.

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

POSITIONS OPEN

MEDICAL MICROBIOLOGY. Applications are invited from individuals interested in a position as assistant or associate professor at Ohio University in the College of Osteopathic Medicine and the Department of Zoology and Microbiology. This teaching-research position involves the instruction of osteopathic medical students in medical microbiology and graduate students at the M.S. and Ph.D. levels in the area of the candidate's specialty. The successful candidate will be expected to develop a strong independent research program. Research area is open, but preference will be given to candidates specializing in pathogenic microbiology. Minimum qualifications include a Ph.D. degree or equivalent; postdoctoral experience and prior medical or dental school teaching are highly desirable.

Interested individuals should submit curriculum vitae, names of three individuals to serve as references, and a summary of research plans by 15 May 1979 to:

**Biomedical Science Search Committee
Ohio University
College of Osteopathic Medicine
Grosvenor Hall
Athens, Ohio 45701**

Ohio University is an Affirmative Action/Equal Opportunity Employer.

NEUROPHYSIOLOGY. Applications are invited from individuals interested in a position as assistant or associate professor at Ohio University in the College of Osteopathic Medicine and the Department of Zoology and Microbiology. This teaching-research position involves the instruction of osteopathic medical students in neurophysiology, the coordination of a neuromuscular systems biology course for medical students, and the instruction of graduate students at the M.S. and Ph.D. levels in the area of the candidate's specialty. The successful candidate will be expected to develop a strong independent research program. Research area is open. Minimum qualifications include a Ph.D. degree or equivalent; prior postdoctoral experience and medical or dental school teaching is highly desirable.

Interested individuals should submit curriculum vitae, names of three individuals to serve as references, and a summary of research plans by 15 May 1979 to:

**Biomedical Science Search Committee
Ohio University
College of Osteopathic Medicine
Grosvenor Hall
Athens, Ohio 45701**

Ohio University is an Affirmative Action/Equal Opportunity Employer.

OCEANOGRAPHER—Position beginning fall 1979. Candidates must have a Ph.D. in chemical, physical, or geological oceanography and demonstrated teaching effectiveness. First-year duties include teaching beginning and advanced undergraduate courses in nonbiological marine sciences and developing an active research program. Rank and salary depend on qualifications. Send résumé with names of three references to: Dr. Richard H. Moore, Science Division, Coastal Carolina College, Conway, South Carolina 29526. Equal Opportunity/Affirmative Action Employer.

PLANT BIOCHEMIST. Staff position as assistant scientist is anticipated 1 September 1979. Full-time research on regulation of photorespiration including cooperative work on obtaining and analyzing mutants on plant tissue cultures to regulate photorespiration and obtain crop mutants with superior net photosynthesis. Ph.D. required with training and interests in research in plant physiology and genetics. Send curriculum vitae and names of three references to: I. Zelitch, Head, Department of Biochemistry, Connecticut Agricultural Experiment Station, P.O. Box 1106, New Haven, Conn. 06504. Equal Opportunity/Affirmative Action Employer.

Two **POSTDOCTORAL POSITIONS** available June 1979 to study various aspects of comparative muscle structure, physiology, or biochemistry. Individuals to work with group examining the phenomenon of thick filament shortening seen in several invertebrate muscles. Position requires Ph.D. preferably with experience in some aspect of muscle research. Salary: \$13,000 to \$16,000, depending on experience. Please send curriculum vitae and names of three references no later than 1 May 1979 to: Dr. B. Walcott or Dr. M. M. Dewey, Anatomical Sciences, Health Sciences Center, State University of New York at Stony Brook, Long Island, N.Y. 11794. An Equal Opportunity/Affirmative Action Employer.

POSITIONS OPEN

MOLECULAR BIOLOGIST. The Department of Biology, University of California, San Diego, invites applications for a ladder-rank faculty position in molecular biology at a level (up to professor) and salary appropriate to the experience of the applicant chosen. The appointee must have had postdoctoral training and is expected to conduct a vigorous research program and to participate in undergraduate and graduate teaching. Applicants should send curriculum vitae, including a list of publications, and the names and addresses of five references. The position will be available beginning September 1979. Send applications by 15 April 1979 to:

**Dr. Dan L. Lindsley
Search Committee
Department of Biology B-022
University of California, San Diego
La Jolla, Calif. 92093**

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

NEPHROLOGIST—The Division of Nephrology in the Department of Medicine at the University of Alabama in Birmingham has available two positions at the associate or assistant professor levels. These positions are open to qualified individuals at a senior level who fulfilled three criteria. First, the individual must have expertise in the care and management of patients with renal disease and in the operation and administration of a hemodialysis unit. Second, the individual must have a firm commitment to teaching programs oriented to medical students, graduate students, house officers, and fellows. Finally, the individual should have a research background and be able to carry out independent research. Apply to: J. Terry Holloway, 305 Zeigler, University Station, Birmingham, Alabama 35294. An Equal Opportunity/Affirmative Action Employer.

NEUROBIOLOGY POSTDOCTORAL POSITION. Tenable at once, to investigate the synaptic organization of the stomatogastric ganglion and the swimmeret system of crustaceans. This is an opportunity to study the significance of neuronal structure, ionic currents, and synaptic dynamics for the generation of behaviorally significant motor patterns. Salary is comparable to an NIH fellowship. Send curriculum vitae and the names of references to: Brian Muloney, Zoology Department, University of California, Davis, Calif. 95616; telephone: 916-752-1562.

NEUROLOGIST WANTED

Opening for neurologist with Ataxia and Neuromuscular Consultation Unit, Department of Neurology, University of California, Los Angeles (UCLA) School of Medicine. Collaborative research on biochemical aspects of relevant diseases and on clinical pharmacology of inherited ataxias. Junior faculty rank; salary and research details/space to be negotiated. Contact: Dr. R. A. Pieter Kark, Reed Neurological Research Center, UCLA School of Medicine, Los Angeles, Calif. 90024. UCLA is an Affirmative Action/Equal Opportunity Employer.

PATHOLOGY/IMMUNOBIOLOGY

Applications are invited for the position of assistant professor in the Immunobiology Unit of the Department of Pathology, University of Pennsylvania. Minimum qualifications are M.D. and/or Ph.D. degrees. Preferred candidates will have strong research background and current interest in immunological aspects of membrane biochemistry, molecular immunochimistry, and immunogenetics. Send curriculum vitae to:

**Dr. Darcy B. Wilson
Director, Research Immunology
252 Medical Laboratories/G3
University of Pennsylvania School of Medicine
Philadelphia, Pennsylvania 19104**

Equal Opportunity/Affirmative Action Employer

The Division of Neuropathology of the University of Pennsylvania invites applications for the position of **RESEARCH ASSISTANT PROFESSOR OR POSTDOCTORAL FELLOW**. Candidates must have background in neurochemistry and interests in neuronal plasma membranes. Interested persons should contact:

**Dr. Nicholas K. Gonatas
Director, Division of Neuropathology
447 Johnson Pavilion/G2
University of Pennsylvania School of Medicine
Philadelphia, Pennsylvania 19104**

Equal Opportunity/Affirmative Action Employer

RESEARCH SCIENTIST Endocrinology & Metabolism

An excellent opportunity exists for the individual with a PhD in Biochemistry, Endocrinology, or Nutrition plus 1 to 3 years post doctoral experience to join a team of researchers studying diabetes and obesity. The successful candidate should have demonstrated capability to perform independent research as well as the enthusiasm for and interest in developing a new research program. Preference will be given to candidates with experience in performing metabolic, endocrine or nutritional research related to problems of carbohydrate and lipid metabolism

We're a leading pharmaceutical manufacturer, a Johnson & Johnson Company, with an ultra modern headquarters facility conveniently located in a beautiful rural setting just outside Philadelphia, Pa. We provide an excellent starting salary, a very comprehensive package of benefits and the opportunity to move forward in a totally professional environment. Forward your resume, including salary requirements, to S. Hackman.

McNeil Laboratories, Inc.
Fort Washington, Pa. 19034.

McNEIL

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

DIRECTOR INSTITUTE FOR ENERGY ANALYSIS

Oak Ridge Associated Universities (ORAU) is seeking a director for the Institute for Energy Analysis. The institute was established in 1974 to address broad questions of energy policy such as energy supply and demand projections, nuclear siting, biological risks of various energy technologies, and the consequences of alternative energy systems. The multidisciplinary staff, about 30, has been recruited from universities and scientific institutions throughout the world. The position requires an individual of recognized scientific distinction. Although responsible for the operation and management of the institute, the director's key role is to provide scientific leadership, coordinate multidisciplinary research studies, and develop major staff projects. Candidates should possess a Ph.D. in a relevant field of science; have a broad understanding of, and commitment to, energy analyses; be experienced in directing multidisciplinary team projects and knowledgeable of federal funding procedures.

Send curriculum vitae and bibliography to: **Dr. Philip L. Johnson, Executive Director, Oak Ridge Associated Universities, P.O. Box 117, Oak Ridge, Tenn. 37830.**

ORAU is a private, not-for-profit association of 45 colleges and universities, conducting programs of research, education, and training for government and private organizations. It has particular interest in the fields of energy, health, and the environment. ORAU is noted for its cooperative programs and for its contributions to the development of science and human resources in the South.

An Equal Opportunity Employer

Pioneering New Technologies

STAFF SCIENTIST San Francisco Peninsula

Rare opportunity for a creative technical professional to conduct and direct research on dielectric/electrical properties of special materials. You will evaluate new materials and product concepts. MS or PhD in EE, Applied Physics, Material Science or related field and 2-5 yrs. experience in the area of electrical/electronic component design or the physics of materials is required, as well as practical electronic design ability. Polymer experience useful. (Job #037)

Raychem is an extremely successful rapidly growing Multinational Corporation . . . the World Leader in radiation chemistry of polymers! Our 25% annual compounded growth rate since our inception in 1957 is indicative of our commitment to maintain and improve our leadership in the industry. We offer excellent benefits, above average salaries and a healthy, stimulating environment. Please send your resume, including salary history, to Peter Ligeti, Human Resources Department, Raychem, 300 Constitution Drive, Menlo Park, CA 94025. (415) 329-3128. An equal opportunity employer.

Raychem

People are the key to Raychem's business.

POSTDOCTORAL TRAINING PROGRAM

Applications are invited for the Institute's program of post-doctoral traineeships in basic sciences relevant to cancer research. These appointments are open to U.S. citizens, U.S. nationals, or persons who have been lawfully admitted to the United States for permanent residence and have in their possession a permanent visa at the time of appointment. Before appointment, an applicant must hold a Ph.D. or its equivalent in a field of training like physics, chemistry, biochemistry, immunology, microbiology, virology, pathology, genetics, molecular biology, development biology or cellular biology and must also have had no more than three years of postdoctoral experience. Appointments will be for one year, renewable for a second year. Stipends are from \$10,000 per year plus fringe benefits and certain travel and relocation allowances. The appointments are funded by the NIH and are subject to the National Research Service Act (Public Law 93-348).

The traineeship program is organized around research in one or more of the laboratories of the participating staff members, and will include participation by trainees in special seminars and colloquia focusing on fundamental problems of cancer research. Application forms can be obtained from:

Dr. Thomas F. Anderson, Coordinator
Postdoctoral Training Program
The Institute for Cancer Research
7701 Burholme Avenue
Philadelphia, PA. 19111

A completed application will also include undergraduate and graduate transcripts, list of publications, abstract of doctoral thesis (ca. 500 words), and letter of recommendation from three persons acquainted with your scientific work.

*The Institute for Cancer Research
is an equal opportunity/affirmative action employer*

POSITIONS OPEN

DEPARTMENT OF PHARMACOLOGY SCHOOL OF MEDICINE ST. LOUIS UNIVERSITY MEDICAL CENTER

Applications are invited for faculty positions at the assistant and associate professor level in the Department of Pharmacology, St. Louis University School of Medicine. Candidates should be dedicated to independent research and are expected to participate in graduate and medical school teaching programs in the department. Nominations or curriculum vitae, selected reprints, statement of teaching and research goals, and the names of three references should be sent to:

Dr. Thomas C. Westfall
Department of Pharmacology
University of Virginia
School of Medicine
Charlottesville, Va. 22908

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

PHARMACOLOGIST—Department of Medicine—Position for research on the biochemical and molecular basis of autonomic and cardiovascular drug action. Position offers opportunities to supervise laboratory with active pre- and postdoctoral training program and collaboration with senior investigators. Applicant should be accomplished in research in basic pharmacology, for example, molecular, biochemical, or cardiovascular pharmacology; minimum of 2 years in appropriate postdoctoral research required. Salary related to rank and step of appointment within the established salary schedule of the University of California, San Diego, School of Medicine. Address inquiries to: **Dr. Steven Mayer, Division of Pharmacology, M-013, University of California—San Diego, La Jolla, California 92093.** *The University of California, San Diego, is an Equal Opportunity/Affirmative Action Employer.*

Pharmacologist—Toxicologist—Assistant Professor: doctoral level with at least 2 years of postdoctoral experience; qualified for membership in the Society of Toxicology; strong interest in analytical techniques used in drug metabolism. Salary commensurate with credentials. Send application and curriculum vitae to: **Chairman, Department of Pharmacology, Wright State University School of Medicine, P.O. Box 927, Dayton, Ohio 45401.** *An Equal Opportunity/Affirmative Action Employer.*

State University of New York (SUNY) at Purchase. **PHYSIOLOGICAL PSYCHOLOGIST.** Assistant professor with postdoctoral teaching and/or research experience, or associate professor for position to begin September 1979. Competence in basic animal physiological techniques and desire to supervise independent tutorials and senior thesis research are necessary. Excellent animal laboratory facilities available. The successful candidate will be expected to teach courses in introductory, physiological, and experimental psychology, in addition to more advanced courses in his/her area of specialization and to be proficient in the operation of digital logic programming equipment.

By 15 April send detailed letter describing interests and qualifications as well as curriculum vitae and list of three references to: **Dr. Richard J. Davidson, Chairperson, Psychology Search Committee, SUNY College at Purchase, Purchase, New York 10577.**

POSTDOCTORAL POSITION in behavioral electrophysiology. Position which provides stipend of \$10,000 now available for 3-year period to study unit electrophysiology of taste in acute and awake behaving preparations. Research will focus on taste processing in amygdala and related ventral forebrain structures to analyze how such input is elaborated into appetitive and hedonic modes of reaction. Background in electrophysiology is desirable but not essential. Send inquiries to: **Dr. J. S. Schwartzbaum, Department of Psychology, University of Rochester, Rochester, New York 14627.**

Equal Opportunity Employer, M/F

Two **POSTDOCTORAL POSITIONS** available on or after 1 July. One position is to study the metabolism of glycolipids in membranes of cells grown in tissue culture (see J.B.C. 252, 5815, 1977 and Exptl. Cell Res. 110, 355, 1977); the other is to study glycosylation of proteins in mammals with emphasis on sugar nucleotides (see Fed. Proc. 37, 1141, 1978). Send curriculum vitae and names of three references to: **Dr. C. B. Hirschberg, E. A. Doisy Department of Biochemistry, St. Louis University School of Medicine, 1402 South Grand Boulevard, St. Louis, Mo. 63104.**

POSITIONS OPEN

PHYSIOLOGISTS with appropriate training in airway epithelial transport are invited to apply for the position of assistant research physiologist (salary range: \$18,550 to \$19,292) in the Cardiovascular Research Institute beginning 1 July 1979. Applicants should be investigating active ion transport and water movement in epithelium. Special consideration will be given to transport physiologists with experience working in lungs and airways. The applicant chosen will be expected to collaborate full-time in interdisciplinary research on regulation of water and ion movement in airways. Send curriculum vitae to: **Dr. J. A. Nadel, Cardiovascular Research Institute, University of California, San Francisco, San Francisco, Calif. 94143.** *The University of California, San Francisco, is an Equal Opportunity/Affirmative Action Employer. Women and minorities are encouraged to apply.*

POSTDOCTORAL POSITION. Available spring 1979 for work on the molecular basis of cellular control mechanisms. Experience in microbial genetics (*E. coli*) and/or protein biochemistry preferred. An initial appointment of 1 year is anticipated with the possibility of renewal. Send curriculum vitae and two letters of recommendation to: **Dr. E. R. Kantrowitz, Department of Chemistry, Boston College, Chestnut Hill, Mass. 02167.**

POSTDOCTORAL POSITION for studies in lipoprotein structure and metabolism. Background in protein, chemistry, immunochemistry, or physical biochemistry. Send curriculum vitae to: **John Albers, Department of Medicine, Harborview Medical Center, Seattle, Wash. 98104.** *The University of Washington is an Affirmative Action/Equal Opportunity Employer.*

PRINCETON UNIVERSITY, Department of Geological and Geophysical Sciences, has an opening for a **POSTDOCTORAL POSITION** as a research associate beginning 1 July or 1 September 1979.

Research will be directed towards experimental and theoretical study of the nature, distribution, and origin of magnetite, $\gamma\text{Fe}_2\text{O}_3$, and will bear on weathering processes on Mars, the origin of magnetic particles detected in the Viking Mission, and rock and paleomagnetic problems on earth.

Send résumés to: **R. B. Hargraves, Department of Geological and Geophysical Sciences, Princeton University, Princeton, N.J. 08544.** *Princeton University is an Equal Opportunity/Affirmative Action Employer.*

POSTDOCTORAL POSITIONS available in respiratory physiology and pathophysiology, with special emphasis on gas exchange in lung and tissues. Appointments are normally made for 2 years. Address inquiries and applications to:

Dr. Leon E. Farhi
Department of Physiology, Farber Hall
State University of New York at Buffalo
Buffalo, N.Y. 14214
Telephone: 716-831-2739

POSTDOCTORAL POSITION available July 1979 for research on the molecular biology of herpes simplex virus gene expression. Research focuses on the biogenesis, structure, and genome mapping of viral mRNA. Strong background in biochemistry, especially proteins and nucleic acids, preferred. Send curriculum vitae with names of three references to: **Dr. Robert Millette, Department of Immunology and Microbiology, Wayne State University School of Medicine, 540 East Canfield, Detroit, Mich. 48201.** *An Equal Opportunity Employer.*

PUBLISHER'S REPRESENTATIVE MEDICAL BOOKS

Year Book Medical Publishers, Inc., is seeking educational representative to travel to extensive territories. Position requires calling on professors and instructors in schools of medicine, dentistry, pharmacy, and allied health. Prefer science background, but not essential. The ability to meet and communicate with persons in medical education and allied areas is of prime importance. Excellent starting salary for qualified person plus full travel expenses and fringe benefits. All replies held in strict confidence. Send résumé and salary requirements to:

Stan Clark
Vice President, Marketing
Year Book Medical Publishers, Inc.
35 East Wacker Drive
Chicago, Illinois 60601
An Equal Opportunity Employer

POSITIONS OPEN

THE MAX-PLANCK-INSTITUTE OF BIOCHEMISTRY 8033 MARTINSRIED/MÜNICH

Offers a **POSTDOCTORAL POSITION** for a biochemist preferably with cell biological experience in the field of membrane proteins. Payment as research assistant (approximately DM-3000 monthly).

Applications to: **Professor E. Neumann, Max-Planck-Institut für Biochemie, D-8033 Martinsried bei München, Germany.**

Two **POSTDOCTORAL POSITIONS** available immediately. (i) Investigate effects of insulin and glucagon on phosphoprotein phosphatases and phosphatase inhibitors in isolated hepatocytes and (ii) investigate mechanisms of action of new hypoglycemic agents and regulation of metabolism with isolated hepatocytes and perfused heart. Salary range: \$12,000 to \$14,000 per year. Two years of support available. Submit curriculum vitae and references to: **Robert A. Harris, Ph.D., Department of Biochemistry, Indiana University School of Medicine, Indianapolis, Indiana 46223.** *An Equal Opportunity/Affirmative Action Employer, M/F.*

POSTDOCTORAL POSITION

Pharmacologist with broad classical training to characterize the biological activities of novel compounds. Cardiovascular experience desired but not essential. \$13,500 per year with renewal possibilities. Send résumé and three letters of recommendation to: **Professor Allan M. Burkman, Division of Pharmacology, College of Pharmacy, The Ohio State University, Columbus, Ohio 43210.**

POSTDOCTORAL POSITION available for Ph.D. in analytical or pharmaceutical chemistry, pharmaceuticals, or related fields, to participate in drug bioavailability and pharmacokinetic studies in humans. Applicants will be invited to participate in areas of assay development, study design, and pharmacokinetic and statistical analysis of data. Please send résumé and names of three referees to: **Dr. P. G. Welling, School of Pharmacy, University of Wisconsin, Madison, Wisconsin 53706.** *An Equal Opportunity Employer.*

POSTDOCTORAL SENIOR RESEARCH ASSOCIATE

An immediate opening is available for a Ph.D. immunochemist or biochemist with experience in radioisotope labeling of immunoglobulins, in addition to protein fractionation. Responsible for the development of radiolabeled antibodies for use in clinical and experimental studies of radioimmunoassay of human tumors. Salary negotiable in the range of \$14,000 to \$18,000 per annum. Send résumé, list of publications, and names of three references to:

Dr. David M. Goldenberg, Director
Division of Experimental Pathology
MS 409

University of Kentucky Medical Center
Lexington, Kentucky 40536

Equal Opportunity/Affirmative Action Employer

PROJECT ASSOCIATE (LIMNOLOGY/OCEANOGRAPHY)

This position is for the front line coordinator of a multidisciplinary research program on water quality and sewage effluent disposal in Milwaukee Harbor and adjacent Lake Michigan. Duties include participation, direction, and supervision of both the field and laboratory research. A doctoral degree or research experience in physical, chemical, or biological aspects of limnology or oceanography is required. Salary commensurate with qualifications. Send résumé to: **Dr. K. K. Lee, Center for Great Lakes Studies, University of Wisconsin—Milwaukee, Box 413, Milwaukee, Wisconsin 53201.** Deadline: 15 April 1979. *An Equal Opportunity/Affirmative Action Employer.*

RESEARCH ASSISTANT PROFESSOR. Position available for vestibular neurophysiologist with postdoctoral experience to pursue basic research interests in peripheral and/or central vestibular electrophysiology. Present research facilities include rotating stimulators, PDP-II computers and data analysis libraries, and collaborative interaction with anatomical and clinical vestibular research laboratories. Knowledge of computers, electrophysiology, and engineering signal processing is desirable. Send curriculum vitae and names of three references to: **Dr. Dennis P. O'Leary, Department of Otolaryngology, University of Pittsburgh, Eye and Ear Hospital, Pittsburgh, Pa. 15213.** *An Equal Opportunity/Affirmative Action Employer.*

KUWAIT UNIVERSITY

Faculty of Medicine

MEDICAL SCIENCE AND CLINICAL APPOINTMENTS

Applications are invited for the following appointments in the Faculty of Medicine.

ANATOMY—*Associate Professor*. Candidates should have areas of specialisation in electron microscopy. The successful applicant's responsibilities will include directorship of the E.M. Unit, which is equipped with scanning and transmission microscopes.

Assistant or Associate Professor. Preference will be given to candidates who have experience of teaching the anatomical disciplines to allied health students. The successful candidate will be responsible for coordinating allied health teaching in the Department of Anatomy.

COMMUNITY MEDICINE—*Professor or Associate Professor in Epidemiology*.

Professor or Associate Professor in Public Health.

MEDICINE—*Associate Professor*. Candidates should be general physicians with a special interest in renal medicine and experience in haemodialysis, peritoneal dialysis and renal transplantation. Experience of renal morphology by light microscope would be an advantage.

MICROBIOLOGY—*Professor or Associate Professor in Medical Bacteriology*.

Professor or Associate Professor in Clinical Bacteriology.

PATHOLOGY—*Associate and Assistant Professors*. Candidates should have experience in academic pathology, particularly in anatomic and histopathology. The successful candidates will have responsibilities in diagnostic pathology at the teaching hospital.

PHYSIOLOGY—*Professor or Associate Professor in Neurophysiology*.

Professor or Associate Professor in Endocrinology.

Professor or Associate Professor with specialisation in one of the following areas: Haematology, Gastrointestinal, Muscle or Cardiovascular.

SURGERY—*Professor or Associate Professor in Urological Surgery*.

Associate Professor in Traumatology and Burns.

Assistant Professor in Orthopaedics.

Applicants should possess a Ph.D. or equivalent higher medical qualification, and have conducted and published research in their field. Professors should have 14 years' experience, 4 as an associate professor or its equivalent, i.e. senior lecturer or reader. Associate professors should have 9 years' experience, 4 as an assistant professor or its equivalent i.e. lecturer.

CONDITIONS OF APPOINTMENT

Salaries: Total monthly salaries will be within the following scales according to qualifications and experience. (1KD = £1.80; US\$ 3.6 approx.)

Professors with clinical appointments: KD 755-860 (6 increments)

Professors medically or non-medically qualified with medical science appointments: KD 701-797 (6 increments)

Associate Professors with clinical appointments: KD 650-755 (6 increments)

Associate Professors medically qualified with medical science appointments: KD 605-701 (6 increments)

Associate Professors non-medically qualified: KD 575-665 (6 increments)

Assistant Professors with clinical appointments: KD 520-625 (6 increments)

Assistant Professors medically qualified with medical science appointments: KD 484-580 (6 increments)

Assistant Professors non-medically qualified: KD 460-550 (6 increments)

Clinical supplements: In addition to the above university salaries there will be a monthly clinical supplement paid by the Ministry of Public Health for medical school staff with clinical service commitments. These will be within the following scales:

Professor and Chairman KD 200-250 (5 increments)

Professor

KD 150-200 (5 increments)

Associate Professor

KD 100-150 (5 increments)

Assistant Professor

KD 75.

Gratuity: There is a gratuity of one month's basic salary for each year employed which is payable on termination of contract.

Housing: Suitably furnished, air-conditioned accommodation, electricity and water are provided free of charge.

Medical Care: Free, comprehensive treatment is available in Kuwait under the State Health Service.

Travel: Airline tickets are provided from the country of recruitment for the appointee, spouse and up to 3 dependent children under 20 years. Thereafter return tickets are issued annually to the country of origin. On termination of contract, tickets are provided to the country of recruitment. A baggage and freight allowance is also provided. In addition, travel expenses for attending one scientific meeting a year are paid by the University.

Vacation: Sixty days paid annual leave as well as various official holidays.

Education: This is provided free in state schools where the instruction is in Arabic. Staff who have to send their children to non-Arabic schools in Kuwait will have the cost of up to a maximum of three met by the University.

Taxation: There is no income tax in Kuwait. Currency is freely transferable without restrictions.

Further details about these appointments and the method of application can be obtained from:

The Dean, Faculty of Medicine, University of Kuwait, P.O. Box 5969, Kuwait.

POSITIONS OPEN

POSTDOCTORAL/BIOCHEMISTRY. Available summer 1979. Research in isolation and characterization of nucleic acid helix-destabilizing (unwinding) proteins; chemical modification, physical, genetic, and immunological studies on these proteins; cationic metal and dye interactions with nucleic acids and polysaccharides. Metropolitan Baltimore-Washington, D.C., location. Send résumé and three letters of recommendation to: **Dr. Richard L. Karpel, Department of Chemistry, University of Maryland Baltimore County, Catonsville, Md. 21228. Equal Opportunity/Affirmative Action Employer.**

POSTDOCTORAL RESEARCH ASSOCIATE

Position available immediately for recent Ph.D. to conduct research on the behavioral pharmacology and discriminative stimulus properties of abused drugs. Send résumé with names of two references to: **Dr. Stephen G. Holtzman, Department of Pharmacology, Emory University School of Medicine, Atlanta, Georgia 30322. 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**

MIT RESEARCH ASSOCIATE to conduct research in wound healing. Available immediately. Duties include monitoring of animal experiments leading to development and clinical evaluation of membranes for connective-tissue replacement. Previous experience in connective-tissue biochemistry or histopathology is required. Experience in bacteriology and in electron microscopic study of tissue morphology is desired. Ph.D. in biochemistry, biological chemistry, biomaterials science, bioengineering, or equivalent is required. Good interpersonal and writing skills also required. Starting salary: \$16,000 or higher, depending on qualifications. Those interested should send their résumés to: **Professor Ioannis V. Yannas, Fibers and Polymers Laboratory, Massachusetts Institute of Technology, Room 3-334, Cambridge, Mass. 02139**, and should have three letters on their behalf sent to the above address.

SENIOR/ASSOCIATE SCIENTISTS in experimental cell morphology and cytogenetics

The W. Alton Jones Cell Science Center is interested in expanding its research program by the recruitment of two new staff members at the level of **SENIOR or ASSOCIATE SCIENTIST (FULL OR ASSOCIATE PROFESSOR EQUIVALENT)**. The center is an operational unit of the Tissue Culture Association and has an active program of research on a variety of topics. It is concerned, as well, with advanced training and education involving cell tissue and organ cultures. The laboratories are modern, spacious, and well equipped. The center has affiliations with the University of Vermont, State University of New York at Plattsburgh, and the University of Rhode Island.

Suitable candidates will have a Ph.D. or M.D. and have made significant contributions to their chosen field. They should currently hold positions of not less than assistant professor or equivalent. It is expected that the candidates' research will involve the use of cell tissue or organ culture. It is expected as well that the candidates will have an established track record in obtaining research support from the funding agencies.

For further information on the center and its programs, contact the office of the director, W. Alton Jones Cell Science Center. Résumés and names of four references should be sent to: **Chairperson, Search Committee, W. Alton Jones Cell Science Center, Old Barn Road, Lake Placid, New York 12946.**

The W. Alton Jones Cell Science Center is an Affirmative Action/Equal Opportunity Employer. Applications from women and minority groups are encouraged.

POSITIONS OPEN

Laboratory Immunologist

Are you ready for a career with Bio-Science Laboratories? You may be if you meet the requirements for certification by the American Board of Medical Laboratory Immunology, have or can acquire managerial and leadership skills, and would be comfortable in a pay-for-performance/people oriented environment. Send your CV, career goals, and salary history in confidence to:

**I. Olitzky, Ph.D.
Manager of Training
BIO-SCIENCE ENTERPRISES
7600 Tyrone Avenue
Van Nuys, CA 91405**

We are an Equal Opportunity Employer

RESEARCH ASSOCIATE for project of immunology of human tumors. Previous experience in humoral immunity desirable. Position presently open. Send curriculum vitae to: **Harry L. Joachim, M.D., Department of Pathology, Lenox Hill Hospital, New York, N.Y. 10021.**

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 POSITION AVAILABLE

Postdoctoral research training position available for M.D. or Ph.D. with immunologic background to participate in ongoing research involving the immunological characterization of cell surface antigens and receptors on somatic cell hybrids and the characterization of monoclonal antibodies to human enzymes produced by the hybridoma technique. Send curriculum vitae and two letters of reference to: **Dr. R. J. Desnick, Division of Medical Genetics, Mount Sinai School of Medicine, Fifth Avenue and 100th Street, New York, N.Y. 10029.**

SENIOR SCIENTIST PLANT SCIENCES

The Solar Energy Research Institute, located in Golden, Colorado, has an immediate requirement for a senior scientist with a Ph.D. or equivalent in plant sciences, to conduct national resources assessment of biomass available for conversion to energy.

Candidate should have three or more years of experience related to energy resource evaluation of biomass, especially evaluation of forest biomass and forest sciences. A working knowledge of national programs, objectives, and participants is desired. Responsibilities to include monitoring subcontracts and budgets, interface with users of biomass resource data, interface with Department of Energy to establish programs and schedules, establishing and improving data bases.

Qualified applicants are invited to submit a detailed résumé including salary history and professional references (no phone calls) to: **Personnel Services, Department R-1S ERAB, Solar Energy Research Institute, Division of Midwest Research Institute, 1536 Cole Boulevard, Golden, Colo. 80401. Equal Opportunity Employer, M/F/H/V. A Department of Energy contractor.**

POSITIONS OPEN

ARECIBO OBSERVATORY: Scientific staff positions at the level of research associate or senior research associate are available at the National Astronomy and Ionosphere Center's Arecibo Observatory for work in atmospheric science. Candidates are particularly sought with experience relevant to the following areas of research: radar study of dynamical processes in the stratosphere and mesosphere, airglow studies of dynamical and chemical processes in the mesosphere and thermosphere, active experimentation in the ionospheric plasma utilizing radio waves, and study by means of incoherent scatter radar of the dynamics of the thermosphere and ionosphere. Curriculum vitae, publication lists, and the names and addresses of three references should be sent to: **Dr. H. D. Craft, Jr., Director, Arecibo Observatory, P.O. Box 995, Arecibo, Puerto Rico 00612. Cornell University is an Equal Opportunity/Affirmative Action Employer.**

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

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

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

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

RESEARCH ASSOCIATE. Ph.D. in biochemistry or pharmacology with experience, capabilities, and/or interest in cancer chemotherapy, enzymology, and nucleotide metabolism to work on pyrimidine nucleotides. Position available immediately. Send résumé with reprints and/or preprints of publications and two letters of recommendation within a month to: **Sungman Cha, M.D., Ph.D., Professor and Chairman, Section of Biochemical Pharmacology, Box G, Brown University, Providence, P.I. 02912. Telephone: 401-863-3114. An Equal Opportunity/Affirmative Action Employer.**

WILDLIFE ECOLOGIST, Michigan State University, assistant professor, 12-month, tenure-track. Major responsibilities include undergraduate advising, teaching two senior-level courses in wildlife habitat analysis and wildlife biology and management each year, and alternating between years with an introductory service course and a graduate specialty course. The applicant will be expected to conduct research and publish results and to participate in work with graduate students.

Candidate must possess a Ph.D. in a biological science with major training in wildlife ecology/management. Experience with a management agency or private consulting firm desirable. The applicant must have a commitment to teaching, research, and public service.

Submit curriculum vitae, undergraduate and graduate transcripts, publications, three letters of recommendation, and statement of research and teaching interests by 30 April 1979 to: **Dr. Harold H. Prince, Search Committee Chairman, Department of Fisheries and Wildlife, Michigan State University, East Lansing, Michigan 48824. Equal Opportunity/Affirmative Action Employer.**

An **X-RAY CRYSTALLOGRAPHER** or **ELECTRON MICROSCOPIST** is sought to take part in a structural study of crystals of SV-40 virus. This postdoctoral position begins 1 May 1979. For a crystallographer, experience with proteins is desirable, but not essential. For an electron microscopist, interest in three-dimensional reconstruction or in two-dimensional arrays is preferred. Send a résumé and two letters of recommendation to: **Eaton Lattman, Department of Biophysics, Johns Hopkins School of Medicine, Baltimore, Md. 21205; telephone: 301-955-8715. Johns Hopkins is an Equal Opportunity/Affirmative Action Employer.**

NEUROPHARMACOLOGIST

SmithKline Corporation, a diversified multinational pharmaceutical firm located in Philadelphia, Pennsylvania, offers a career opportunity for a Pharmacologist to participate in a drug discovery program directed at finding novel agents for the treatment of mental, emotional and neurological disorders.

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SmithKline offers an excellent compensation program and opportunity for professional growth. Please send resume with salary history to: Mr. William Groves, SMITHKLINE CORPORATION, 1534 Spring Garden Street, P.O. Box 7929, Philadelphia, Pennsylvania 19101. We are an Equal Opportunity Employer, Male/Female/Handicapped/Veteran.

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Biozentrum University of Basle Department of Cell Biology

Applications are invited for a

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Duties include teaching in general Cell Biology (eight hours per week) and research in Cell Biology with emphasis on membrane phenomena.

Applications stating publications, teaching experience, curriculum vitae etc. should be submitted before May 31, 1979 to the Dean of the Faculty of Science.

Address: Dekanat der
Philosophisch-Naturwissenschaft-
lichen Fakultät
der Universität Basel
Klingelbergstrasse 70
CH-4056 Basel
(Switzerland)

PHARMACOLOGIST PhD

Major pharmaceutical company has excellent opportunity for PhD with at least 3 years post doctoral experience in expanding development/scientific support operations to compile, interpret and present pre-clinical and clinical data and development of new drug products. Individual will also participate in planning clinical studies and in preparation, submission and overall strategy of both IND and NDA. Excellent interpersonal and communication skills required.

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Robert W. Moberg, Director Placement & Development

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CNS Pharmacologist

Pharmaceutical Research

The Research and Development Division of G.D. Searle & Co. has an immediate opportunity in CNS Research.

This position requires a PhD with a strong background in neurochemistry and/or neuropharmacology, and 2-5 years experience in drug development. The successful candidate will have an interest in development of new CNS methodology, including receptor mechanisms. Research emphasis will be directed toward biochemical procedures useful for detection of drug action or definition of mechanisms of action.

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WORKSHOPS

STATE-OF-THE-ART METHODOLOGY WORKSHOPS

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University of Uppsala, Sweden, 28 June to 1 July

Tuition is \$425 for one workshop, \$750 for both, and includes recently published texts by the staff. For information, contact: Claudia Kelly, Workshop Coordinator, or Jay Magidson, Director, IAS Workshop Series, Abt Associates Inc., 55 Wheeler Street, Cambridge, Mass. 02138; telephone: 617-492-7100.

COURSE

ELECTRON MICROSCOPY. For those desiring to use TEM in biological research, the course will provide practical training in preparation of biological specimens, use and maintenance of Zeiss 9S-2 EM, darkroom procedures, and micrograph interpretation. Certificate or graduate credit awarded. Tuition: \$475; 11 to 29 June. For information and brochure contact: Dr. Dan Scheirer, Department of Biology, Northeastern University, Boston, Mass. 02115; telephone: 617-437-2260.

PROGRAM

PHARMACOLOGY Ph.D. at University of Health Sciences/Chicago Medical School (UHS/CMS). A Ph.D. program, emphasizing neuropharmacology and supported by more than a dozen faculty with wide-ranging interests in neuroscience, is offered. Stipends and tuition remission are available on a competitive basis. Telephone 312-942-2876 or write: Seymour Ehrenpreis, Ph.D., Department of Pharmacology, UHS/CMS, 2020 West Ogden Avenue, Chicago, Ill. 60612. An Equal Opportunity Employer.

ASSISTANTSHIPS

ARECIBO OBSERVATORY. A visiting GRADUATE RESEARCH ASSISTANTSHIP is available for a student at the National Astronomy and Ionosphere Center's Arecibo Observatory who is interested in carrying out research utilizing radar techniques for the study of dynamical processes in the stratosphere and mesosphere. The student will work with Dr. R. F. Woodman of the observatory's staff, while, if it is appropriate, maintaining close contact with the relevant faculty member at his or home institution.

The appointment will be for up to 1 year and will carry a stipend of \$5000 for the academic year with additional support for the summer. One round-trip air fare and moving expenses will be provided for the student and immediate family.

A letter of application describing experience and interests, a transcript of grades, and letters of support from at least the chairman of the student's graduate committee or equivalent should be sent by 10 April 1979 to: Dr. H. D. Craft, Jr., Director, Arecibo Observatory, P.O. Box 995, Arecibo, Puerto Rico 00612. Cornell University is an Equal Opportunity/Affirmative Action Employer.

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.

GRADUATE STUDY

We are now accepting applicants for GRADUATE STUDY leading to the M.S. and Ph.D. degrees. The masters' degree in chemistry related to the health sciences encompasses physical, inorganic, and organic chemistry in addition to biochemistry. The Ph.D. degree in biochemistry is a joint program between University of Maryland Baltimore County (UMBC) and the Department of Biochemistry (School of Dentistry) and Department of Biological Chemistry (School of Medicine). Areas of research for the Ph.D. degree include membrane transport processes, nucleic acid structure and function, physical chemistry of proteins, biorganic chemistry, bioinorganic chemistry, and enzymology.

For further information as well as applications please write:

V. P. Vitullo
Department of Chemistry
University of Maryland Baltimore County
Baltimore, Maryland 21228

In addition, please indicate your expected area of interest. UMBC is an Equal Opportunity Employer.

Teaching assistantships are available for graduate students in the Department of Chemistry at the University of Maryland Baltimore County.

TRAINEESHIPS

COMPUTERS IN MEDICINE—One-year National Library of Medicine traineeship for academically oriented physicians and postdoctoral scientists. Starts 1 July 1979. Fundamentals of computer science taught with emphasis on clinical practice and medical research. No formal mathematical training required. No pay-back clause. For brochure, write: Aran Safir, M.D., Director, Institute of Computer Science, Mount Sinai School of Medicine, 1 Gustave Levy Plaza, New York, N.Y. 10029.

POSTDOCTORAL TRAINEESHIP. Cardiovascular Science Postdoctoral Research Training Program sponsored by NIH. Designed to provide postgraduate research training to individuals with M.D., Ph.D. degrees. Emphasizes neural control of circulation, acute myocardial inflammation, and the regulation of cardiac performance in normal and diseased states. Write to: Robert O'Rourke, M.D., Department of Medicine Director, Cardiology Division, The University of Texas Health Science Center, San Antonio, Texas 78284. An Equal Opportunity Employer.

FELLOWSHIPS

CARDIOVASCULAR PATHOLOGY FELLOWSHIP

Position available July 1979 for an individual who has completed 2 years of anatomic pathology residency and who is interested in 1 or 2 years of cardiovascular pathology training, research, and teaching experience. Pathological material from the University of Washington Affiliated Hospitals as well as material from the VA Cooperative Study on Heart Valve Replacement will be utilized. Research will emphasize morphometric evaluation of human coronary and myocardial lesions. Write to: Dr. Dennis D. Reichenbach, Department of Pathology, SM-30, University of Washington, Seattle, Wash. 98195. The University of Washington is an Affirmative Action/Equal Opportunity Employer.

FELLOWSHIPS

POSTDOCTORAL FELLOWSHIPS beginning 1 July 1979, at the University of Southern California, are available for qualified applicants interested in a unique research program in the developmental biology of oral-facial-cranial processes and the etiology, genetics, pathogenesis, and treatment of craniofacial malformations. Applicants with D.D.S., M.D., or a Ph.D. in biological sciences are invited. Send complete curriculum vitae to: Professor Harold C. Slavkin, Director, Graduate Program in Craniofacial Biology, University of Southern California—GER 317, Los Angeles, California 90007.

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Openings for biochemists, neurologists, neuropathologists, and pharmacologists in NIH-sponsored multidisciplinary postdoctoral training program in **BIOCHEMICAL NEUROPATHOLOGY**. Trainees will participate in graduate courses and seminars and will pursue individual research projects in one of the following areas: brain tumor metabolism, biochemistry of spinal cord injury, disorders of lipid metabolism and experimental demyelinating conditions, peripheral nerve disorders, muscle histochemistry, and experimental neurology of the nervous system. Send inquiries to: Dr. J. Norman Allen, Division of Neurology, Ohio State University, 466 West 10 Avenue, Columbus, Ohio 43210.

HARVARD SCHOOL OF PUBLIC HEALTH POSTDOCTORAL FELLOWSHIPS



Interdisciplinary Programs in Health (IPH) invites applications from promising graduates of advanced degree programs in the natural or social sciences interested in turning to research and training in environmental health problems, particularly chemicals in the environment. The program focuses on both scientific and public policy questions.

Fellows will be appointed for terms of 1 or 2 years, possibly renewable. Stipends will be \$16,000 the first year.

Expression of interest is particularly invited from qualified women and minority candidates.

For information, write to:

Professor Donald Hornig
Director, IPH
Harvard School of Public Health
665 Huntington Avenue
Boston, Massachusetts 02115

POSTDOCTORAL FELLOWSHIP IN BIOCHEMISTRY is available for a recent graduate at a salary of \$12,200 (first year), \$13,350 (second year), to do research on the biological control of glycogen metabolism and/or structure-function relationships in phosphorylase. Write: Dr. N. B. Madsen, Department of Biochemistry, University of Alberta, Edmonton, Canada T6G 2H7.

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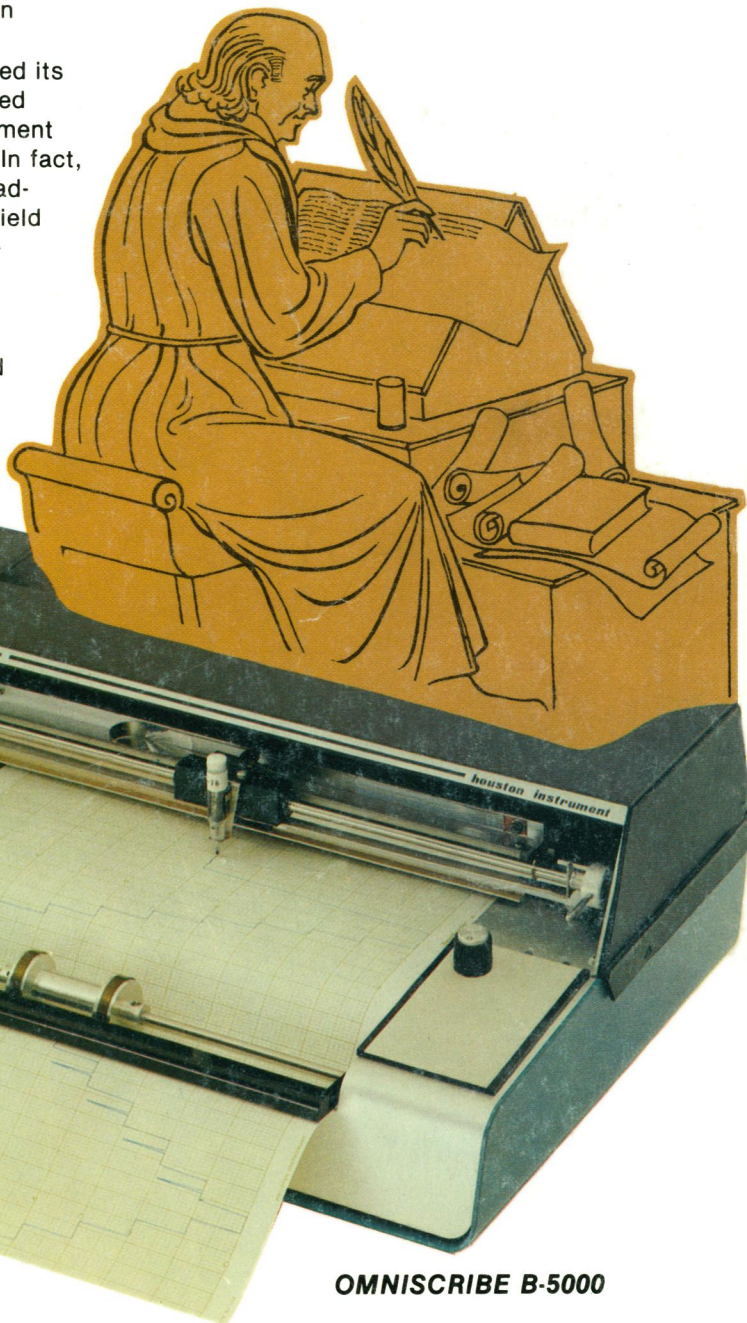
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