

BOOKS RECEIVED

(Continued from page 288)

H. Shafer, Ed. Plenum, New York, 1977. xviii, 294 pp. \$25. A Publication of the Center for Information and Numerical Data Analysis and Synthesis (CINDAS).

Mathematical Modeling and Digital Simulation for Engineers and Scientists. Jon M. Smith. Wiley-Interscience, New York, 1977. xvi, 332 pp., illus. \$21.

Medical Hubris. A Reply to Ivan Illich. David F. Horrobin. Eden Press, Montreal, 1977. vi, 146 pp. \$9.

Non-Invasive Clinical Measurement. David Taylor and Joan Whamond, Eds. University Park Press, Baltimore, 1977. xvi, 206 pp., illus. \$39.50.

Obstetrics, Contraception and Gynaecology. David Brown. Pitman, Tunbridge Wells, Kent, England, 1976 (U.S. distributor, Uni-

versity Park Press, Baltimore). viii, 208 pp., illus. \$24.50.

Problemy metodologii projektowania. Papers from a conference, Warsaw, Dec. 1974. Wojciech Gasparski, Ed. Polish Academy of Science Committee of the Science of Science, Warsaw, 1977. 396 pp., illus. Zł 120.

Psychopharmacology in the Practice of Medicine. Murray E. Jarvik, Ed. Appleton-Century-Crofts, New York, 1977. xviii, 554 pp., illus. \$20.50.

Public Budgeting Systems. Robert D. Lee, Jr., and Ronald W. Johnson. University Park Press, Baltimore, ed. 2, 1977. xxii, 370 pp., illus. \$14.50.

Quality Health Care. The Role of Continuing Medical Education. Papers from a conference, Boston, June 1976. Richard H. Eg-dahl and Paul M. Gertman, Eds. Aspen Systems, Germantown, Md., 1977. xxiv, 248 pp. \$19.

The Sea in the Pre-Columbian World. Pa-

pers from a conference, Washington, D.C., Oct. 1974. Elizabeth P. Benson, Ed. Dumbarton Oaks Research Library and Collections, Washington, D.C., 1977. x, 188 pp., illus. \$15.

Sedimentation on the Modern Carbonate Tidal Flats of Northwest Andros Island, Bahamas. Lawrence A. Hardie, Ed. Johns Hopkins University Press, Baltimore, 1977. xvi, 202 pp., illus. \$22.50.

A Social History of Medicine. Frederick F. Cartwright. Longman, New York, 1977. viii, 210 pp. Cloth, \$12.95; paper, \$7.50. Themes in British Social History.

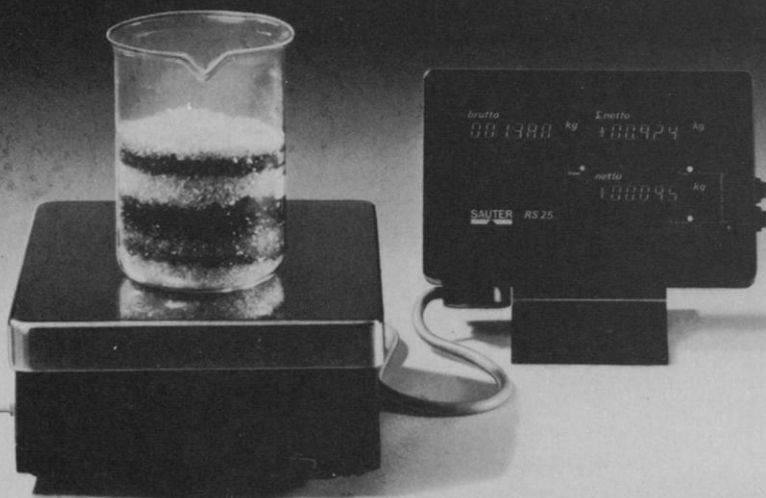
Soft Energy Paths. Toward a Durable Peace. Amory B. Lovins. Friends of the Earth International, San Francisco, and Ballinger (Lippincott), Cambridge, Mass., 1977. xx, 234 pp. Paper, \$6.95. Friends of the Earth Energy Papers.

Sociology in the Balance. A Critical Essay. Johan Goudsblom. Columbia University Press, New York, 1977. viii, 232 pp. \$12.50.

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Physiological Psychologist, Ph.D. 1976. Senior investigator in psychophysiology at leading medical school; looking for position in research/teaching. Publications, university teaching. Interests: alcoholism/psychopharmacology/electrophysiology and learning. Box 385, SCIENCE. X

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Ph.D. ANATOMIST to teach gross anatomy and neuroanatomy. Some experience desirable. Prefer research background in electron microscopy and histochemistry. Rank and salary dependent on qualifications. Contact: **Richard G. Hibbs, Ph.D., Professor and Head, Department of Anatomy, Louisiana State University Medical School, P.O. Box 33932, Shreveport, La. 71130.**

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Two **ASSISTANT PROFESSOR APPOINTMENTS** in chemical engineering are now available. Appointments can be delayed until the fall of 1978. Selection will be based on potential and performance in teaching and research. The Ph.D. is required. Primary emphasis is on biochemical engineering and mathematical modeling; capabilities in other areas will be considered. Initiation research grants are available. New teaching and research facilities are in the advanced planning stage. Please send résumé and supporting information to:

**Jerome S. Schultz, Chairman
Department of Chemical Engineering
The University of Michigan
Ann Arbor, Michigan 48109**

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Position available 1 September 1978 in field of mammalian biochemistry. Research and graduate teaching in comparative metabolism of toxicants relevant to mechanisms of toxicity. Ph.D. required in molecular biology, biochemistry, biochemical pharmacology, biochemical toxicology, or related field with at least 2 years of postdoctoral research experience in these areas. Preference given applicants with pulmonary biochemistry and inhalation toxicology background and published independent work. Opportunity to train graduate students and teach students in College of Medicine. Closing date for application is 1 April 1978. *Applications from all qualified candidates are welcome; minorities and women are encouraged to apply.* Submit complete curriculum vitae and names of at least three references to: **Dr. Ronald C. Shank, Community and Environmental Medicine, College of Medicine, University of California, Irvine, Calif. 92717.**

ASSISTANT PROFESSOR, BIOLOGICAL SCIENCES. Continuing search for scientists with promise of creative and dynamic research programs in: (i) cell biology (plant, microbial, or animal), (ii) behavior and/or neurobiology, and (iii) ecology (population or mathematical). Divisional teaching needs include courses in basic biology, cell biology (especially for NIH predoctoral trainees in cellular and molecular genetics), population ecology, neurobiology, mycology, microbiology, plant tissue culture, and ultrastructure; also specialty courses for advanced students. There is also an opening for a **POSTDOCTORAL FELLOW** in bacterial genetics. Send résumé to: **A. Eisenstark, Director, Division of Biological Sciences, Tucker Hall, University of Missouri, Columbia, Missouri 65201.** *An Equal Opportunity Institution.*

TENURE-TRACK ASSISTANT PROFESSORSHIP IN CHEMISTRY. Applicants must be qualified to participate in diversified analytical instruction and research programs, at both the graduate and undergraduate levels. They will be expected to develop a stature of scientific excellence, leadership, and creativity. Screening of applications will begin 1 November 1977. The closing date for receipt of applications is 31 December 1977. Candidates should submit curriculum vitae, list of publications, and three letters of reference to: **Professor Joseph Jordan, Chairman of Search Committee, Box A, 152 Davey Laboratory, The Pennsylvania State University, University Park, Pa. 16802.** *An Equal Opportunity/Affirmative Action Employer.*

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Applications are invited for research/teaching positions at Nova University's Ocean Sciences Center. A demonstrated capacity for outstanding experimental research in physical oceanography, marine biology, sea-air interaction, or remote sensing applications to oceanography is required. Proposed research is expected to take advantage of the Center's location relative to the Florida Current, the Gulf Stream, and the Caribbean. Send a résumé, bibliography, and references to: **Dennis W. Moore, Chief Scientist, Nova University Ocean Sciences Center, 8000 North Ocean Drive, Dania, Florida 33004.** *Equal Opportunity/Affirmative Action Employer*

FULL PROFESSOR OCEAN SCIENCES

Applications are invited for research/teaching positions at Nova University's Ocean Sciences Center. A demonstrated capacity for outstanding experimental research in physical oceanography is required. Proposed research is expected to take advantage of the Center's location relative to the Florida Current, the Gulf Stream, and the Caribbean. Send a résumé, bibliography, and references to: **Dennis W. Moore, Chief Scientist, Nova University Ocean Sciences Center, 8000 North Ocean Drive, Dania, Florida 33004.** *Equal Opportunity/Affirmative Action Employer*



THE WORLD HEALTH ORGANIZATION

invites applications for the post of Senior Immunologist with several years' experience of research and of teaching postgraduate students, clinical experience an advantage, to conduct research on immunology and immunopathology of African trypanosomiasis as part of the Special Programme on Research and Training in Tropical Diseases. Previous experience in immunology of parasitic disease is not essential. Appointment for two years in first instance (first year probationary) in Nairobi.

Interested candidates with the required qualifications should write as soon as possible, enclosing a detailed curriculum vitae and quoting reference VNP77/63, to:

**The World Health Organization
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Only candidates under serious consideration will be contacted.

LABORATORY HEAD, MOLECULAR PATHOLOGY BIOCHEMICAL PATHOLOGIST VETERINARY PATHOLOGIST/ PATHOLOGIST

The Developmental Therapeutics Program, National Cancer Institute, invites applications for these three positions in the Laboratory of Toxicology. This Laboratory conducts basic research and supervises toxicologic studies of anti-neoplastic agents in animals prior to their introduction into man. Applicants should have interests and experience in studying mechanisms of drug-induced toxicity, particularly from the point of view of following morphologic leads to the molecular level. Applicants should have a Ph.D. and/or M.D./D.V.M. [or equivalent and special training in molecular (biochemical) pathology]. Positions will be filled through career Civil Service appointments, salary range \$20,442-\$35,431, dependent upon qualifications or through U.S.P.H.S. Commissioned Corps. Letters of application with curriculum vitae, bibliography and SF 171, Personal Qualifications Statement, should be sent by November 18, 1977, to:

Mrs. Janie R. Lacy
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9000 Rockville Pike, Bldg 31, Room 3A27
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Candidates for this position should have a PhD-level degree in Biophysics, Physics, Bioengineering, Computer Science, Pathology or a related discipline, together with several years of relevant experience. Demonstrated scientific initiative and creativity, quality publications, leadership potential and detailed knowledge of the state-of-the-art will be important considerations in the selection of the successful candidate.

The Biomedical Research Division of the Lawrence Livermore Laboratory conducts broad-based interdisciplinary studies on the health effects of energy-related effluents. The emphasis is on damage to chromosomes and the single cell, and on the relationship of such damage to cancer and genetic disease.

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- 1) **plant physiology**, especially of the whole plant or organs,
- 2) **plant biochemistry**, with emphasis on cellular or subcellular plant processes,
- 3) **cytology**, utilizing modern approaches but with knowledge and appreciation of classical cytology and cytogenetics, and
- 4) **population and quantitative ecology**, involving qualitative and quantitative study of population ecology emphasizing demography, competition, and spatial patterning in populations.

Application deadline: 15 November 1977. Send curriculum vitae and names of at least three persons from whom letters of recommendation may be solicited to:

**Professor Richard C. Starr
Chairman, Search Committee
Department of Botany
University of Texas
Austin, Texas 78712**

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POSITIONS OPEN

ASSISTANT PROFESSOR OF FOOD SCIENCE-BIOCHEMISTRY/ENZYMOLGY. Rutgers, The State University of New Jersey, seeks an assistant professor of food science for teaching and research in the areas of food biochemistry and food enzymology. Applicants should have a Ph.D. degree or its equivalent with a strong background in food science and technology. An interest in fruits and vegetables is desirable. Applications with biography, transcripts, research interests, reprints of publications, and names of references should be sent to: **Dr. Myron Solberg, Food Science Department, Cook College, Rutgers, The State University, New Brunswick, N.J. 08903.** *Equal Opportunity/Affirmative Action Employer.*

DEPARTMENT OF ENTOMOLOGY UNIVERSITY OF WISCONSIN-MADISON

ASSISTANT PROFESSOR: natural products chemist. A faculty position will be available 1 January 1978. Organic chemist/biochemist interested in establishing a research and teaching program in the area of the chemistry of insect development and behavior, and in the isolation and identification of naturally occurring biologically active substances. Interested persons holding a recent Ph.D. degree should send by 15 December 1977, a curriculum vitae, transcripts of undergraduate and graduate work, research papers, and have four letters of recommendation sent directly to: **Dr. G. M. Boush, Chairman, Department of Entomology, University of Wisconsin, Madison, Wisconsin 53706.**

DEPARTMENT OF ENTOMOLOGY UNIVERSITY OF WISCONSIN-MADISON

ASSISTANT PROFESSOR: toxicology. A faculty position will be available 1 January 1978. Biochemist or pharmacologist with entomological interests to develop a research and teaching program in the area of mode of action and metabolism of biologically active molecules. Interested persons holding a recent Ph.D. degree should send by 15 December 1977, a curriculum vitae, transcripts of undergraduate and graduate work, research papers, and have four letters of recommendation sent directly to: **Dr. G. M. Boush, Chairman, Department of Entomology, University of Wisconsin, Madison, Wisconsin 53706.**

ASSISTANT PROFESSOR OF PHARMACOLOGY

The Department of Pharmacology, College of Physicians and Surgeons, Columbia University, seeks applications from individuals with at least 3 years of postdoctoral experience. Candidates must provide evidence of ability to conduct independent research in areas of neurobiology and neuropharmacology related to the regulation of axonal transport. They should be familiar with biochemical pharmacology, electrophysiology and ultrastructural methodology and able to contribute to ongoing research programs in neuropharmacology and neurophysiology. Ability to obtain independent support of research is important. Teaching duties will include active participation in graduate student training and in the pharmacology courses offered to graduate, medical, and dental students. Interested applicants should send a current curriculum vitae and the names of three references to: **Dr. Brian F. Hoffman, Department of Pharmacology, 630 West 168th Street, New York, N.Y. 10032.** *Columbia University is an Affirmative Action/Equal Opportunity Employer.*

UNIVERSITY OF MICHIGAN PEDIATRICS AND COMMUNICABLE DISEASE Associate or Assistant Professor

Position available in the Department of Pediatrics and Communicable Disease, University of Michigan Medical School. Sub-specialty boarded or eligible M.D. in neonatal-perinatal medicine for a faculty position in neonatology. Candidates should have a research interest in some aspect of perinatal medicine. Please send résumé to **Box 379, SCIENCE.** A *non-discriminatory, Affirmative Action Employer.* Code #1500F0.

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BIOCHEMISTS. Several faculty openings available for biochemists at the assistant or associate professorship level in this medical center biochemistry department. Primary consideration will be given to applicants with the desire and ability to teach general biochemistry to students in health professional programs and to participate in medically relevant research programs. Excellent opportunities exist for immediate collaboration in active research programs in the biochemistry of reproductive processes, of the nervous system and vision, of growth regulatory processes, and of environmental pollutants. Applicants should have expertise in the biochemistry of membranes, the isolation and study of nucleic acids, or of mitochondrial function and a desire to bring this expertise to bear on one of the problem areas above. Long-term development of a strong, extramurally supported research program will be expected and encouraged. Deadline for receipt of applications with curriculum vitae, list of publications, and names of three references is 4 November 1977. Openings will be available at varying times during 1978, starting 1 January. Please send applications to: **Billy Baggett, Ph.D., Chairman, Department of Biochemistry, Medical University of South Carolina, 171 Ashley Avenue, Charleston, S.C. 29403.** *We are an Equal Opportunity/Affirmative Action Employer.*

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BIOCHEMIST. M.S. or Ph.D. with strong chemical background for research on relation of structure to function in proteins with small group in Biochemistry Department of large eastern medical school.

Box 381, SCIENCE

School of Medicine at Morehouse College

CHAIRPERSONS. Applications and nominations are invited for: Departments of Microbiology, Pharmacology, Physiology, and Family/Community Medicine. Closing date: 1 December 1977. Respond to:

**Dr. R. C. Holland, Chairman
Appointments Committee
School of Medicine at Morehouse College
Atlanta, Georgia 30314**

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DEAN OF NATURAL SCIENCE

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**The Natural Science Dean Search Committee
Box S
Hampshire College
Amherst, Massachusetts 01102**

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POSITIONS OPEN

BIOLOGY

University of Regina, Department of Biology: Applications are invited for the position of **assistant professor (animal ecology)**. Qualifications are Ph.D. preferably with some postdoctoral experience. Salary commensurate with experience in the assistant professor classification, starting \$15,885. Duties and research include: teach three, one-semester courses: one in animal ecology and any two of general ecology, introductory zoology, invertebrate zoology, or vertebrate zoology; also limited input into other existing courses; develop a research program in his/her own area of expertise. Applications with complete curriculum vitae, three references, and a statement of aspirations should be sent not later than 31 December 1977, to: **Dr. P. W. Reigert, Professor and Head, Department of Biology, University of Regina, Regina, Saskatchewan, Canada S4S 0A2.**

Marquette University School of Dentistry is seeking a **CHAIRPERSON** for its Department of Basic Sciences. The department includes all of the health-related sciences. Interested individuals must have interest and ability in administration. Research orientation and interest in teaching are desirable. Send curriculum vitae to: **Dr. Joseph Abramowitz, Associate Dean, Marquette University School of Dentistry, 604 North 16 Street, Milwaukee, Wisconsin 53233.** Applications will be accepted until 1 March 1978. *An Equal Opportunity Employer.*

POSITIONS OPEN

BIOCHEMISTRY-ASSISTANT OR ASSOCIATE PROFESSOR: The Department of Biochemistry, University of Missouri-Columbia, invites applications for two positions, either assistant or associate professor. Applicants must have the Ph.D. degree or equivalent, and postdoctoral experience is expected. Candidates with promise (assistant) or evidence (associate) of exceptional research and teaching abilities are being sought. A curriculum vitae, summary of research plans, and three letters of recommendation should be sent by 15 December 1977 to: **Dr. James L. Gaylor, Department of Biochemistry, 322-A Chemistry Building, University of Missouri-Columbia, Columbia, Missouri 65201.** *An Equal Opportunity/Affirmative Action Employer.*

CHAIRPERSON DEPARTMENT OF PHYSIOLOGY THE MEDICAL COLLEGE OF WISCONSIN

Applications are invited from individuals qualified by demonstrated excellence in research, teaching and administration to direct the Department of Physiology at the Medical College of Wisconsin. Interested candidates should submit their curriculum vitae to: **Dr. Michael P. McQuillen, Chairperson, Physiology Search Committee, Department of Neurology, The Medical College of Wisconsin, 8700 West Wisconsin Avenue, Milwaukee, Wisconsin 53226.**

An Equal Opportunity/Affirmative Action Employer

POSITIONS OPEN

Department of Chemistry at University of Southern Mississippi seeks **BIOCHEMIST** for tenure-track position beginning 1 January 1978. **Assistant** or **associate professor** rank, depending on qualifications. Ph.D. required, postdoctoral experience preferred. Excellence in graduate and undergraduate teaching required. Vigorous research program expected. Applications should include curriculum vitae, complete transcripts, description of research and teaching interests, and three letters of reference to be sent to: **Dr. John H. Bedenbaugh, Chairman, Chemistry Department, Box 43, University of Southern Mississippi, Hattiesburg, Mississippi 39401.** Deadline: 4 November 1977. *An Equal Opportunity/Affirmative Action Employer.*

COMMUNITY/POPULATION ECOLOGIST to teach basic and quantitative ecology, introductory biology; with research promise, publications in speciality; interest in graduate programs. Departmental resources include considerable field equipment and access to modern computer-statistics facilities.

Applicants send complete curriculum vitae with reprints, research interests, and names of three references by 7 November for position to begin in spring or fall 1978 to: **Ecology Search Committee, Department of Biology, Box 4-2451, University of Southwestern Louisiana, Lafayette, La. 70504.** *An Equal Opportunity/Affirmative Action Employer.*

DIRECTEUR

Centre de recherche en sciences de l'eau (INRS-Eau)

L'Institut national de la recherche scientifique, unité constituante de l'Université du Québec, sollicite des candidatures pour le poste de directeur du centre de recherche en sciences de l'eau: l'INRS-Eau.

Les travaux de recherche de l'INRS-Eau touchent particulièrement les thèmes suivants:

- Hydrologie déterministe et statistique
- Utilisation de la ressource en milieu urbain
- Effets de l'utilisation et de l'aménagement des ressources naturelles sur la qualité du milieu aquatique
- Étude en laboratoire de la dynamique des processus chimiques et biologiques du milieu aquatique
- Télédétection appliquée à l'étude des problèmes de l'eau

Tout candidat devra posséder un diplôme de niveau doctoral, un bon nombre d'années d'expérience pertinente et une compétence reconnue dans la direction scientifique et administrative.

Une bonne connaissance de la langue française est essentielle.

Toute candidature devra présenter un curriculum vitae complet et trois lettres de recommandation.

Le concours se termine le **15 décembre 1977.**

Faire parvenir toute correspondance à:

Dr Guy Reeves, secrétaire général
Institut national de la recherche scientifique
Case postale 7500, Sainte-Foy, Québec G1V 4C7
Téléphone: (418) 657-2508

Université du Québec

Institut national de la recherche scientifique



POSITIONS OPEN

FACULTY POSITION IN CYTOGENETICS

CYTOGENETICIST, assistant professor of genetics for appointment effective 1 July 1978. Training in genetics and molecular biology essential. Responsibilities include undergraduate and graduate instruction in cytogenetics and evolution. Research interests may center on chromosomes and/or chromatin structure, genome organization, gene expression or gene regulation in eucaryotes. A research program balanced between fundamental and applied problems in agriculture is desired. Send curriculum vitae, reprints, brief statement of research plans, and three letters of reference to:

The Search Committee
Department of Genetics
345 Mulford Hall
University of California
Berkeley, California 94720

Deadline for completed applications is 31 December 1977. *The University of California is an Equal Opportunity Employer. Women and minority applicants are welcome.*

DIRECTOR, MASS SPECTROMETER FACILITY. The director of this new facility will participate in selecting the mass spectrometer and will be responsible for all laboratory activities within the facility. His or her major role will be consultation and/or collaboration with other investigators at Mayo on research involving mass spectrometry. The director may also conduct a personal research program and will be responsible for graduate training within the facility.

Candidates should have an M.D. or Ph.D. degree or equivalent; 2 years of postdoctoral training is preferred. Experience in mass spectrometry and ancillary techniques is mandatory.

Send curriculum vitae and names of two references to: **Kai Rehder, M.D., Search Committee on Mass Spectrometry, Mayo Clinic, Rochester, Minnesota 55901.**

An Equal Opportunity/Affirmative Action Institution

The position of **DIRECTOR** of the newly established National Center for Submicron Technology at Cornell University under the sponsorship of the National Science Foundation is open. The position will carry a tenured faculty appointment in the School of Electrical Engineering.

The program is interdisciplinary covering the effort of approximately 18 Cornell faculty in engineering, physics, chemistry, and material science as well as supporting staff and outside users of the facility. Applicants should have extensive experience in submicron technology and publications establishing a position of leadership in the field. For consideration send résumés to: **Professor Charles A. Lee, School of Electrical Engineering, 315 Phillips Hall, Cornell University, Ithaca, N.Y., 14853. Cornell University is an Equal Opportunity Employer.**

ELECTRON MICROSCOPE TECHNICIAN, experienced in maintenance of EM, preparation of biological material, developing and printing. Salary range: \$8,500 to \$12,000. Starting date: 10 December 1977. Send résumé to: **Dr. O. P. Bahl, Chairman, Department of Biological Sciences, 109 Cooke Hall, State University of New York at Buffalo, Buffalo, New York 14260.**

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

FACULTY POSITIONS

The Department of Biochemistry, State University of New York at Buffalo, Schools of Medicine, Dentistry and Pharmacy, has assistant and associate professor positions available for qualified, full-time biochemistry faculty. Necessary qualifications for these positions include a positive, long-term commitment to teaching, a demonstrated proficiency in research, and interest in training Ph.D. candidates. Positions are available immediately and through summer 1978. Salary and rank are negotiable depending upon postdoctoral experience and other qualifications. Applicants should submit curriculum vitae, including a statement of long-term research objectives, reprints or preprints of publications, and names of three references, to:

**Dr. Alexander C. Brownie, Chairman
Department of Biochemistry
State University of New York at Buffalo
95 Farber Hall
Buffalo, New York 14214**

An Equal Opportunity/Affirmative Action Employer

POSITIONS OPEN

CHEMISTRY FACULTY POSITION AT ASSOCIATE OR FULL PROFESSOR RANK. Candidates must be qualified to participate in diversified analytical instruction and research programs, at both the graduate and undergraduate levels. They should have an established reputation of scientific excellence, leadership, and creativity. Preferred interests include surface analysis and clinical, biomedical, and electroanalytical areas. Screening of applications will begin 1 November 1977. The closing date for receipt of applications is 31 December 1977. Candidates should please contact: **Professor Joseph Jordan, Chairman of Search Committee, Box A, 152 Davey Laboratory, The Pennsylvania State University, University Park, Pa. 16802. An Equal Opportunity/Affirmative Action Employer.**

FACULTY POSITIONS IN PHYSIOLOGY

The Department of Physiology and Biophysics, University of Iowa College of Medicine, invites applications from highly qualified individuals for tenure-track positions, preferably at the assistant professor level. Candidates should be prepared to participate in the medical and graduate training activities of the department and to develop a strong research program in one of the following areas:

- 1) excitable membranes, simple nervous systems, nerve cell culture, cellular neuroendocrinology, or CNS development,
- 2) mechanisms of membrane transport in epithelial cells, red blood cells, or lipid bilayers, or
- 3) cardiac cell electrophysiology or metabolic physiology.

Please send curriculum vitae, including bibliography and brief description of research interests, teaching experience, and career objectives, with names of at least three references, to: **Dr. Robert E. Fellows, Department of Physiology and Biophysics, University of Iowa College of Medicine, Iowa City, Iowa 52242. The University of Iowa is an Equal Opportunity Employer.**

FACULTY POSITIONS

The Department of Biology, Texas Christian University (TCU), requests applications for expected openings for the fall semester 1978. These are tenure-track positions at the assistant professor level. Ph.D. required.

- 1) **MICROBIOLOGY** position which involves teaching bacteriology and one or more of the following: bacterial physiology, general biology, genetics, mycology, or virology.
- 2) **EMBRYOLOGY-HISTOLOGY** position which involves teaching embryology, histology, and general biology.

Applicants can develop other courses and must be capable of developing an active research program in their area of interest. Curriculum vitae, transcripts, and three letters of reference must be received by 16 December 1977. Send to:

Search Committee
Biology Department
Texas Christian University
Fort Worth, Texas 76129

TCU does not discriminate on the basis of sex, religion, handicap, race, or ethnic origin.

The Applied Earth Sciences Department at Stanford University is seeking a **GEOLOGIST** to design and lead a teaching and research program in the geological and geophysical aspects of exploration for petroleum and related fossil fuels. This faculty position requires experience in areas such as: (i) modern concepts of depositional systems, (ii) structural analysis of on- and off-shore basins, (iii) geological interpretation of seismic records, (iv) participation in recent exploration programs, and (v) economic appraisal of energy resources. Send curriculum vitae and references to: **Chairman, Search Committee, Department of Applied Earth Sciences, Stanford University, Stanford, California 94305.**

HEAD, DEPARTMENT OF FOOD SCIENCE AND NUTRITION

College of Food and Natural Resources
University of Massachusetts/Amherst

Advanced degree in food science, nutrition, or related area. Demonstrated ability for administration of higher education, which includes teaching, research, and public service. Nominations due 31 December 1977. Date of availability on or about 1 September 1978. Respond to: **Dr. Peter L. Pellett, Department of Food Science and Nutrition, University of Massachusetts, Amherst, Mass. 01003. The University of Massachusetts is an Affirmative Action/Equal Opportunity Employer.**

POSITIONS OPEN

ENDOCRINOLOGY: ASSISTANT OR ASSOCIATE PROFESSOR. The Department of Internal Medicine, St. Louis University School of Medicine, is seeking candidates for a full-time teaching and research position. Board certification or eligibility in endocrinology is required. Individuals who have demonstrated exceptional competence in research and who desire to develop their own research program are invited to send curriculum vitae, description of present and future research interests, and names of three references to: **Coy D. Fitch, M.D., Division of Endocrinology, 1402 South Grand Boulevard, St. Louis, Mo. 63104.**

The Department of Industrial Engineering has a **FACULTY POSITION** available for a person having training and experience in **industrial hygiene and safety engineering.** Candidates holding a doctorate which included major study in industrial hygiene and safety engineering with a B.S. in chemistry, physics, or engineering and 5 years experience are encouraged to apply. Faculty rank and salary are negotiable depending upon qualifications.

Responsibility will be assumed for the development and implementation of a Continuing Education Program of quality training in occupational health and safety in a five-state region.

Please send complete biographical sketch and professional résumé to: **Richard B. Konzen, Ph.D., Department of Industrial Engineering, Texas A & M University, College Station, Texas 77843. An Equal Opportunity/Affirmative Action Employer.** Applications should be received by 1 December 1977.

INSECT TOXICOLOGIST

A postdoctoral or research associate position is available in the Department of Entomology, Texas A & M University. A Ph.D. in entomology is required. The candidate will be responsible for the development of bioassays, evaluation of insecticides and insect growth regulators, and the development of formulations for control of the imported fire ant. Experience with bait formulations, insect growth regulators, insecticides and insect growth regulator metabolisms will be helpful.

The salary level will be commensurate with a postdoctoral position depending on experience and training. Closing date is 1 November 1977.

Send résumé and names of three references to: **Dr. S. B. Vinson, Department of Entomology, Texas A & M University, College Station, Texas 77843.**

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

UNIVERSITY OF MICHIGAN ANESTHESIOLOGY INSTRUCTORS

Medical school-anesthesiology (board certified/qualified anesthesiologists for clinical and didactic instruction of medical students. November 1977 appointment). Three positions available. Code: 500H0, 1000H0, 1200H0. Please send résumé to **Box 380, SCIENCE. A nondiscriminatory, Affirmative Action Employer.**

Microbiologists Geneticists B.M./M.S.

Research position for an M.S.-level (or equivalent training as a) microbiologist or geneticist experienced in modern techniques of microbial genetics.

Additional position is available in applied microbiology at the B.S./M.S. level to conduct antibiotic fermentations.

For further information and consideration, please direct a résumé of your qualifications to: Manager, Research Employment, Schering-Plough Corporation, 60 Orange Street, Bloomfield, New Jersey 07003.

SCHERING-PLOUGH
CORPORATION

WE ARE AN EQUAL OPPORTUNITY EMPLOYER M/F

NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION

The Outer Continental Shelf Environmental Assessment Program (OCSEAP) of the National Oceanic and Atmospheric Administration (NOAA), U.S. Department of Commerce, plans, funds, and manages studies in support of oil and gas development for Alaska. OCSEAP is recruiting candidates for **SHORT-TERM SCIENTIFIC ASSIGNMENTS** of up to 2 years. Only employees of local or state governments (including District of Columbia, Puerto Rico, and U.S. possessions), or institutions of higher learning, who can obtain a 2-year leave are eligible to apply. Persons will remain as employees of their respective organizations during the assignment period. Base salary range is \$20,442 to \$37,347 per annum. Salary determination based on candidate's current salary, qualifications, and nature of assignment. Reimbursement for salary, travel, benefits, cost of living adjustment for Alaska positions, moving expenses, and so forth negotiable with the parent organization.

BERING SEA STUDY COORDINATOR and GULF OF ALASKA COORDINATOR (two positions)

Reviews all ongoing and planned studies, writes an improved plan for OCSEAP studies which is tailored to deriving a conceptual model of the Bering Sea or Gulf of Alaska as a system, and interacts with other agencies and OCSEAP-funded investigators to obtain the data needed in an accurate and timely manner. Although not in a supervisory role, these two persons will have the support of scientific staff assigned to monitor the contract performance of investigators, data managers, procurement, logistics specialists, and an integration contractor. Candidates should have a Ph.D. in earth science or environmental biology, experience in aquatic field research, and a background in a related environmental science. Positions located in Juneau, Alaska.

INFORMATION SYNTHESIZER AND INTEGRATOR

The \$25-million annual Alaskan marine environmental studies effort of OCSEAP is producing a large data volume in the form of reports, maps, figures, and other derived data as well as digital data on magnetic tape. This position is to achieve a better definition, refinement, and specification of the 162 such products that have been defined on an interim basis. Will work with data management people, programmers, contractors, field researchers in all disciplines of marine studies, an interdisciplinary scientific staff, and with those who will eventually use the products. Will lead a review of the data going into the data base and planned data products coming out as to user needs, cost, formats, timing, and effectiveness. The objective of this task is derivation and implementation of a catalog and schedule of an optimum set of integrated data products. Candidates should have a master's degree or higher in earth science or environmental biology, and a background in a related environmental science so as to promise an integrative approach to production of information products from the program. Position is located in Boulder, Colorado.

If interested, obtain further information by contacting: C. S. Striight, NOAA Personnel, U.S. Department of Commerce, 3100 Marine, Boulder, Colorado 80302; telephone: 303-499-1000, ext. 6585.

NOAA is an Equal Opportunity Employer.

Cardiovascular Pharmacologist

Abbott Laboratories, a major, international health care corporation, has an outstanding career opportunity for a qualified professional with a major research interest in the field of hypertension. As a team member of our progressive cardiovascular laboratory, you will have a Ph.D. and expertise in Pharmacology, Physiology or Biochemistry of the cardiovascular system and 0-5 years cardiovascular research experience in a university or industrial position.

The scientist who accepts this challenging position will have an excellent salary, fringe benefits, and potential for career growth. Interested scientists should send a detailed curriculum vitae with a salary history in confidence to:

Walt Smith / Corporate Placement

ABBOTT
NORTH CHICAGO, ILL. 60064

*Abbott is an Affirmative
Action Employer*

UNIVERSITY OF BRITISH COLUMBIA DEPARTMENT OF CHEMISTRY

VACANT ASSISTANT PROFESSORSHIPS

Applications are invited from well-qualified candidates for at least two appointments to be made at the assistant professorship level for the 1978-1979 academic year. In the case of one appointment, candidates should have research and teaching interests in bio-organic chemistry, preferably some aspect of protein or enzyme chemistry. Though the appointment would normally date from 1 July 1978, in the case of an outstanding candidate an appointment could probably be made at a mutually agreeable, earlier date. For the other appointment, candidates should have research and teaching interests in bio-inorganic chemistry. This appointment can commence anytime after 1 July 1978. In addition to the above, several visiting appointments can be made if outstanding candidates apply, particularly in the fields of analytical chemistry or polymer chemistry. One or more of these visiting appointments may become regular tenure track appointments after 1 or 2 years. Applications, complete with curriculum vitae and the names and addresses of three referees, should be sent to the undersigned before 30 January 1978.

**Professor Charles A. McDowell, Head
Department of Chemistry
The University of British Columbia
2075 Wesbrook Place
Vancouver, B.C., Canada
V6T 1W5**

PHARMACEUTICAL RESEARCH

PHARMACOLOGY

We are the diversified (chemicals, pharmaceuticals, agricultural chemicals, petrochemicals, plastics) American subsidiary of Imperial Chemical Industries Ltd. (London). Support is evidenced by \$28 million expansion doubling laboratory capacity by late 1978, to augment parent company's worldwide program that has introduced major drugs—antihypertensives, antiarrhythmics, hypolipodemics, psychotropics, antibacterials, antifungals, corticosteroids and anesthetics. Expanded laboratories and program will be ICI's largest research effort outside the United Kingdom. We invite confidential inquiries to the following three positions in our expanding Gastrointestinal program:

RESEARCH PHARMACOLOGIST

Ph.D. in Pharmacology or related life science, followed by relevant experience (1-5 years) in industrial and/or academic laboratory, autonomic background preferred. Work will entail secretion/motility investigations.

PHARMACOLOGIST

B.S./M.S. to participate in GI programs. We seek experience and/or education in cardiovascular and autonomic studies.

POST-DOCTORAL FELLOWSHIP

Ph.D. in Pharmacology or Biochemistry to participate in independent research toward the study of receptor mechanisms. Successful 2 year appointment will lead to permanent senior level position on investigating staff.

Campus setting in suburban Wilmington, 25 miles south of Philadelphia. Compensation and benefits compare favorably with major American pharmaceutical houses. Reply in confidence by submitting resume and salary expectation to:

Charles T. Brodigan
Employee Relations



Americas Inc.

Wilmington, Delaware 19897
An Equal Opportunity Employer M/F

POSITIONS OPEN

MICROBIOLOGISTS ORGANIC CHEMISTS

CETUS CORPORATION, a microbiological development company and a pioneer in the industrial application of genetic engineering, is seeking qualified Ph.D. level scientists, especially geneticists, molecular biologists, microbial physiologists and biochemists to work on projects of significant commercial value. Vacancies also exist for scientists with experience and expertise in immobilized enzyme technology and organic chemistry to support and commercialize the output of biological developments. Special consideration will be given to applicants with proven project leadership skills. Successful candidates will have the opportunity to work in a stimulating environment with an outstanding team of staff scientists and consultants. Please send resume and salary expectations to:

cetus

600 Bancroft Way
Berkeley, California 94710

An Equal Opportunity Employer

JUNIOR FACULTY POSITION with academic appointment in the Department of Microbiology and Molecular Genetics of the Harvard Medical School immediately available for D.V.M., M.D., or Ph.D. with a minimum of 3 years of training in virology. Responsibilities are directed toward research on primate viruses and the pathogenesis of viral diseases in non-human primates with a main emphasis on herpesviruses. Expertise in biochemistry and electron microscopy of nucleic acids or immunology desirable. Send curriculum vitae and names of references to: **Dr. Bernhard Fleckenstein, Division of Microbiology, New England Regional Primate Research Center, Harvard Medical School, 1 Pine Hill Drive, Southborough, Mass. 01772.**

Harvard University is an Equal Opportunity/Affirmative Action Employer.

MICROBIOLOGIST-ASSISTANT PROFESSOR. Tenure-track, 12-month teaching and research position to be filled between 1 January and 1 July 1978. Ph.D. required. Preference given to applicants qualified to teach immunology and public health. Successful applicant will be required to develop a research program and direct M.S. students. Submit curriculum vitae, three letters of recommendation, and statement of research interests to: **K. J. McMahon, Department of Bacteriology, Agricultural Experiment Station, North Dakota State University, Fargo, N.D. 58102.** *Equal Opportunity/Affirmative Action Employer.*

MOLECULAR BIOLOGIST OR BIOCHEMIST. Level negotiable. Available immediately. Seeking biochemist with interest in cyclic nucleotides, cell receptors, and regulation. Excellent research opportunities. Send curriculum vitae and names of three references to: **Dr. David S. Newcombe, Department of Environmental Health Sciences, School of Hygiene and Public Health, Johns Hopkins University, 615 North Wolfe Street, Baltimore, Md. 21205.** *All interested persons are encouraged to apply.*

MOLECULAR GENETICS—The State University of New York, Downstate Medical Center, invites applications for a senior faculty appointment in the Department of Biochemistry. The applicant should be an established investigator working in the area of nucleic acid biochemistry and related areas in molecular biology. The candidate should submit a curriculum vitae, several recent reprints, and a description of future research plans to: **Dr. Alfred Stracher, Chairman, Department of Biochemistry, State University of New York-Downstate Medical Center, 450 Clarkson Avenue, Brooklyn, New York 11203.** *Equal Opportunity/Affirmative Action Employer.*

Medical center in New York City has **OPENING** in microbiology and/or immunology. Ph.D. or M.S. experienced to work in tumor immunology research, both human and animal projects. Strong background in CMI and tissue culture desirable. Salary commensurate with experience. Send résumé and names of three references to: **Box 369, SCIENCE.**

POSITIONS OPEN

NEUROBIOLOGIST, M.D., Ph.D., or equivalent. Salary and rank to the associate professor; level depends on qualifications and experience. Preference will be given individuals with independent research in multidisciplinary neuroscience. The candidate should be able to teach in medical and graduate programs in an integrated neurosciences curriculum. Areas within the program include neuroanatomy, neurophysiology, neurochemistry, and neuropharmacology. The department also teaches gross and developmental anatomy. Send applications and curriculum vitae plus three references to: **Search Committee, Department of Neurobiology and Anatomy, The University of Texas Medical School at Houston, P.O. Box 20708, Houston, Texas 77030.** Applications will be accepted until 3 October 1977. *An Equal Opportunity/Affirmative Action Employer.*

PHARMACOLOGIST—2 TO 4 YEARS

Experience in steroid biochemistry and/or endocrinology; some training in biochemical pharmacology and pharmacokinetics desirable.

MASON RESEARCH INSTITUTE

57 Union Street
Worcester, Mass. 01608

Equal Opportunity Employer with Affirmative Action Program.

PHYSICIAN EXECUTIVE DIRECTOR

We are seeking a physician to assume the position of executive director of a multi-hospital and long-term care not-for-profit corporation. Main hospital consists of 308 beds with large ambulatory and emergency room services. It is the primary teaching affiliate of the University of Missouri-Kansas City School of Medicine. Secondary hospital consists of a 70-bed acute unit, 250 long-term beds plus ambulatory, and alcoholic rehabilitation services. Good salary plus appropriate fringe benefits. Appropriate academic appointment. Apply to: **Truman Medical Center, 2301 Holmes, Kansas City, Missouri 64108.** Attention: Executive Director's Office.

PHYSIOLOGIST/ZOOLOGIST. Biology Department has opening for Ph.D. physiologist/zooologist. Demonstrated commitment to excellence in teaching also required. Human or organ physiology backgrounds preferred. Duties include general physiology and related undergraduate courses. Send curriculum vitae and three supporting letters to: **Dr. D. M. Huffman, Chairman, Department of Biology, Central College, Pella, Iowa 50219.** *An Equal Opportunity/Affirmative Action Employer.*

POPULATION GENETICIST/BIOSTATISTICIAN sought. Please send résumé by 15 November 1977 to: **Michael M. Kaback, M.D., Professor of Pediatrics and Medicine, Division of Medical Genetics, UCLA/Harbor General Hospital, 1000 West Carson Street, Torrance, Calif. 90509.** *An Equal Opportunity Employer.*

POSTDOCTORAL FELLOW (RESEARCH ASSOCIATE)—Synthetic organic chemist to prepare and label medicinal compounds with radioisotopes. Will work with biomedical research team analyzing effects of new compounds on in artio and in vivo test systems. Position available immediately. Salary: minimum \$10,000. Qualifications: education experience, Ph.D. in chemistry. Send résumé and phone numbers of references to: **Dr. Carl L. Johnson, Department of Pharmacology, University of Cincinnati, 231 Bethesda Avenue, Cincinnati, Ohio 45267.**

POSTDOCTORAL POSITION. Available immediately. Involves the use of the ion microscope and ion microprobe to study the chemical composition of tissues. Experience with tissue sectioning techniques is essential. Send curriculum vitae with names of three references to:

**Dr. G. H. Morrison
Department of Chemistry
Cornell University
Ithaca, N.Y. 14853.**

POSTDOCTORAL POSITION: available immediately to study membrane transport of small peptides in microbial cells and in animal cell culture; involvement in project on interaction of peptide hormones and animal cells also probable. Salary excellent. Send curriculum vitae and three letters of recommendation to: **Dr. Jeffrey Becker, Microbiology Department, University of Tennessee, Knoxville, Tenn. 37916.** *The University of Tennessee is an Equal Opportunity/Affirmative Action Employer.*

POSITIONS OPEN

POSTDOCTORAL POSITION available for research on eukaryote DNA polymerases. Background in enzymology, molecular biology, or nucleic acid metabolism preferred. Salary \$12,000 to \$14,000. **A. G. So, Department of Medicine, University of Miami, Box 520875, Biscayne Annex, Miami, Florida 33152.**

POSTDOCTORAL RESEARCH ASSOCIATE position available July 1978. Biochemist or physiologist to study transport properties of plasma membrane vesicles isolated from renal cortex. Salary to \$13,000. Send curriculum vitae and three letters of reference to:

**Dr. Peter S. Aronson
Departments of Medicine and Physiology
Yale School of Medicine
New Haven, Connecticut 06510**

POSTDOCTORAL RESEARCH ASSOCIATE

Biochemical endocrinologist with training and experience in steroid hormone mechanisms to aid in investigation of cholecalciferol (vitamin D)-induction of a specific intestinal calcium-binding protein. Particularly interested in an individual with experience in mRNA isolation and translation assays. Knowledge of tissue culture and immunoassay techniques helpful. Salary \$11,500. Starting date: April 1978. Send résumé and names of three references to: **Dr. R. A. Corradino, Department of Physical Biology, 720 Veterinary Research Tower, New York State College of Veterinary Medicine, Cornell University, Ithaca, New York 14853.** *An Affirmative Action/Equal Opportunity Employer.*

POSTDOCTORAL RESEARCH POSITION available for Ph.D. with strong background in isolation, purification, and characterization of proteins to study contractile proteins in nonmuscle cells. Send curriculum vitae, brief résumé of research experience, and three letters of recommendation to: **Dr. Sarah Hitchcock, Department of Biological Sciences, Carnegie-Mellon University, 4400 Fifth Avenue, Pittsburgh, Pennsylvania 15213.** *An Affirmative Action/Equal Opportunity Employer.*

POSTDOCTORAL TRAINING FELLOW-THROMBOSIS/HEMOSTASIS—Postdoctoral training positions are available at the **Specialized Center for Thrombosis Research, Temple University, Philadelphia, Pa. 19140.** Training will be offered in several disciplines related to thrombosis/hemostasis research, that is, biochemistry, pharmacology, physiology, clinical research, and so forth. Applicants must have fulfilled M.D. or Ph.D. training, be citizens or permanent residents of U.S. It is expected that trainee continues in academic research or teaching after the training program. Positions are ordinarily for 2 years. Salary, \$10,000 to \$13,000 per year, depending on previous experience. Send application and curriculum vitae to **Dr. Holm Holmson** at the above address.

PROFESSOR OF PATHOLOGY HARVARD MEDICAL SCHOOL

Applications are invited for the joint position of professor of pathology at the Harvard Medical School and chief of pathology at the Beth Israel Hospital. Requirements: (i) high competence in anatomic pathology, (ii) a record of active experimental research, (iii) capacity to carry on medical student and resident teaching, and (iv) ability to administer the anatomical and clinical laboratories, the teaching and training programs, as well as active departmental research programs.

Both institutions are Equal Opportunity/Affirmative Action Employers; minority group members and women are encouraged to apply. Address replies with full curriculum and names of referees before 15 January 1978 to: **Norman Geschwind, M.D., Neurological Unit, Beth Israel Hospital, 330 Brookline Avenue, Boston, Massachusetts 02215.**

RESEARCH ASSOCIATE PORTLAND, OREGON

Infectious Diseases Research Laboratory seeking Ph.D. for research position. Biochemistry, microbiology, or molecular biology training. Knowledge of subcellular separation, RIA, immunochemistry, general microbiology, and biostatistics required. Ongoing projects: aminoglycoside nephrotoxicity and *S. aureus* teichoic acid antibody studies. Salary: approximately \$1,400. Fringe benefits available. Send inquiries to: **David N. Gilbert, M.D., Providence Medical Center, 700 Northeast 47th Avenue, Portland, Oregon 97213.**

DIRECTOR NATIONAL RADIO ASTRONOMY OBSERVATORY

Associated Universities, Inc. (AUI) invites nominations and applications for the position of director of the National Radio Astronomy Observatory (NRAO). AUI, a nonprofit corporation with headquarters in Washington, D.C., manages the NRAO for the National Science Foundation (NSF) and manages the Brookhaven National Laboratory for the Department of Energy.

NRAO, headquartered in Charlottesville, Va., has observing facilities at Green Bank, W. Va., Tucson, Ariz., and Socorro, N.M. The director is the chief operating officer of the observatory with primary responsibility for its program, both content and quality, and its representation to NSF. He reports through the AUI president to the Board of Trustees.

Candidate should be a scientist of stature, with an awareness and concern for national needs in astronomy, and should have demonstrated ability in leadership and management. Applications or nominations are requested by 15 December 1977, but later inquiries may be considered.

Inquiries, nominations, or applications with résumés should be directed to the chairman of the search committee:

Gerald F. Tape, President
Associated Universities, Inc.
Suite 603
1717 Massachusetts Avenue, NW
Washington, D.C. 20036

AUI is an Equal Opportunity/Affirmative Action Employer

The National Aeronautics and Space Administration, Langley Research Center, located in Hampton, Virginia, is seeking an **SENIOR MANAGEMENT-WATER QUALITY SPECIALIST** (salary range: \$30,750 to \$47,025 per annum) to manage a multidisciplinary research effort directed at applying aerospace technology to problems of the marine environment. This activity emphasizes the utilization of remote sensing techniques to observe environmental parameters, but also includes the operation of chemistry, microbiology, and spectroscopy laboratories. The program involves cooperative activities with other federal and state agencies and includes development of analytical techniques for interpreting remotely sensed data, development and evaluation of remote and in situ instrumentation, study of spectral signatures of water pollutants, development of an understanding of the optical physical processes involved in water color sensing, investigation of the impact of ocean dumping on the marine ecosystem, and construction of analytical models of the ocean state.

To develop and manage this research activity, the incumbent must have a broad background and experience in the physical sciences with an understanding of biology along with the capability to manage a multidisciplinary approach to solving problems. A Ph.D., with emphasis in marine sciences, is desired but not required.

Résumé of Standard Form 171 should be sent to:

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THE UNIVERSITY OF BRITISH COLUMBIA DEPARTMENT OF CHEMISTRY POSTDOCTORAL RESEARCH POSITIONS

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Muonium chemistry at Triumf, and
Radiation chemistry and solvated electron studies.

Stipend for the first year will be \$11,100 with the possibility of a supplementary teaching appointment.

Send curriculum vitae, transcripts, and letters from three referees to the undersigned, from whom further particulars may be obtained.

Professor C. A. McDowell, Head, Department of Chemistry, University of British Columbia, Vancouver, B.C., Canada V6T 1W5.

DEAN, SCHOOL OF SOCIAL SCIENCES THE UNIVERSITY OF TEXAS AT DALLAS

The University is seeking a **dean** to head the School of Social Sciences, University of Texas, Dallas, a component of The University of Texas System, offers upper division and graduate education in six schools: Arts and Humanities, General Studies, Human Development, Management and Administration, Natural Sciences, and Social Sciences. The School of Social Sciences began operations in fall 1975. It has a non-departmental faculty of 33 and offers undergraduate degrees in anthropology, economics, geography, political science, and sociology and the M.A. and Ph.D. in political economy (an interdisciplinary program in the analysis of public policy). The school emphasizes approaches that transcend traditional disciplinary boundaries and bring social science inquiry to bear on societal needs.

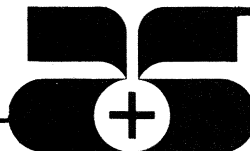
Deanship candidates should be able to conduct administrative responsibilities efficiently and develop the school's potential in undergraduate and graduate education. This will require long-range planning and implementation through faculty development and recruitment, development of new graduate programs, and interaction with academic and nonacademic communities at the national and regional levels.

Qualifications required are: an earned Ph.D. or its equivalent in a social science-related discipline; evidence of substantial scholarly achievement; successful experience or demonstrated potential in academic or research-related administration; full-time university teaching experience; appreciation and understanding of both basic and applied scholarship; ability to interact with faculty and administrators; and a demonstrated capacity for leadership.

Starting date is not later than 1 September 1978, and preferably mid-summer 1978. Applicants should submit a letter of interest, a résumé, and the names of referees by 15 December 1977 to:

Dr. Alexander L. Clark
Vice President of Academic Affairs
The University of Texas at Dallas
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The Annenberg School of Communications at the University of Southern California seeks to appoint a professor of communications, effective September 1978 or sooner.

Significant scholarly and research contributions in the field of endeavor, as well as national and/or international prominence, will be expected of all candidates.

Earned doctorate with distinguished quantitative research and teaching excellence is desired in communications policy, theory, or research. Areas of interest to the committee include: information systems and sciences, human information processing, social psychology of communications, international communications, mass communications, and communication economics.

Candidates should be prepared to teach graduate courses and advise doctoral and masters candidates, as well as supervise dissertations. Procurement and management of research grants and continuation of scholarly writing and research is expected. Previous government, business, or industry experience is desirable. *The University of Southern California is an Affirmative Action Employer.* Please send curriculum vitae to: **Professor Gerhard J. Hanneman, Chairperson, Faculty Search Committee, Annenberg School of Communications, University of Southern California, Los Angeles, California 90007; telephone: 213-741-2253.**

RESEARCH ASSOCIATE. Atomic Physics Group at Kansas State University has an immediate opening for a recent Ph.D. Experience in experimental ion-atom collision problems is required. Apply with curriculum vitae and names of three references to: **James R. Macdonald, Physics Department, Kansas State University, Manhattan, Kansas 66506. Kansas State University is an Equal Opportunity/Affirmative Action Employer.**

STAFF SCIENTIST, Environmental Defense Fund, Berkeley, California office. National, nonprofit organization of scientists, economists, and lawyers. Requires Ph.D., physical and systems science orientation. Primary focus on alternative energy and water technologies. Diverse duties, including extensive public speaking, testimony, and individual case R & D. Salary commensurate with experience. Send relevant information to:

**Dr. Z. Willey
Environmental Defense Fund
2728 Durant Avenue
Berkeley, Calif. 94704**

The Department of Physiology and Biophysics at Colorado State University, is seeking applicants to **TEACH PHYSIOLOGY AND PHARMACOLOGY** in the veterinary curriculum. Applicants must have a D.V.M.-Ph.D., or a Ph.D. degree. We are seeking a person with strong interests in the cardiovascular-renal area. While this position consists primarily of teaching duties, the successful applicant will be encouraged to conduct research by working cooperatively with other investigators or by developing his/her own program. The salary and starting date are negotiable. Individuals interested in this position should send résumés and the names of three references to: **Search Committee, Department of Physiology and Biophysics, College of Veterinary Medicine and Biomedical Sciences, Colorado State University, Fort Collins, Colorado 80523.** Deadline for applications: 31 December 1977. *Colorado State University is an Equal Opportunity Employer and complies with Title IX requirements. Complaints should be filed with the Office of Equal Opportunity, Student Services Building.*

VERTEBRATE PHYSIOLOGIST

Tenure-track position for Ph.D. (must have degree in hand) available 10 January 1978 at assistant professor level to teach undergraduate human anatomy and physiology primarily to allied health students. Candidate is expected to also teach at least two undergraduate courses from the following: organismal physiology or comparative physiology, experimental embryology, vertebrate zoology, endocrinology, and evolution. (The ordering of the list indicates our preferences.) Applicants must be capable of involving undergraduates in research programs. Salary \$13,500 to \$14,500 for 10 months. Send before 31 October 1977, résumé, transcripts, and three letters of recommendation to: **Dr. Earl J. Savage, Chairperson, Department of Biological Sciences, Indiana University at South Bend, 1825 Northside Boulevard, South Bend, Indiana 46615. An Equal Opportunity/Affirmative Action Employer.**

POSITIONS OPEN

Position open for a **SURGICAL PATHOLOGIST** at the level of assistant professor, Northwestern Memorial Hospital and Northwestern University School of Medicine, Chicago, Illinois. Competence in general surgical pathology with special interest in neoplasia. Active research program in chemical carcinogenesis obligatory. Send résumé to: **Box 368, SCIENCE. Equal Opportunity/Affirmative Action Employer.**

VETERINARY PATHOLOGIST

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Please forward curriculum vitae to:

**Ronald L. Schueler, D.V.M., Ph.D.
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Contact: **Dr. William Sawyer, Electron Microscopy Laboratory, Department of Physics, Elmhurst College, Elmhurst, Ill. 60126. Telephone: 312-279-4100, ext. 476.**

PROGRAMS

PREDOCTORAL TRAINING in pharmacology. Applications are now being accepted for September 1978 entrance into the predoctoral training program of the Department of Pharmacology. Trainees will receive \$3900 stipends plus tuition assistance. (February 1978 entrance will be considered for qualified candidates.) For application forms, contact: **Biomedical Sciences Doctoral Program, Mt. Sinai School of Medicine, One Gustave L. Levy Place, New York, N.Y. 10029. An Equal Opportunity Employer.**

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FELLOWSHIP

POSTDOCTORAL RESEARCH FELLOWSHIP in a NIMH-University of Pennsylvania program in psychopharmacology and the psychobiology of psychiatric illness. Applicants should be M.D.'s with at least 2 years of psychiatric training or Ph.D.'s in pharmacology, neurobiology, psychology, or a related discipline. Please send curriculum vitae and full details of interest to: **J. Mendels, M.D., Veterans Administration Hospital (151E), Philadelphia, Pennsylvania 19104.**

FELLOWSHIPS

POSTDOCTORAL FELLOWSHIPS

The Cardiovascular Institute at Boston University School of Medicine is seeking qualified candidates to pursue postdoctoral research related to basic science of cardiovascular disease, including studies in hypertension, atherosclerosis, and coronary artery disease. Stipend range \$10,000 to \$14,000. For further information write: **William B. Hood, Jr., M.D., Program Director, Boston University School of Medicine, 80 East Concord Street, Boston, Mass. 02118.**

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THEORETICAL BIOLOGY AND IMMUNOLOGY

The University of California's Los Alamos Scientific Laboratory, a multi-faceted national R & D facility, is seeking outstanding applicants for 1- and 2-year postdoctoral fellowships in its theoretical biology and biophysics group. Fellowships have an annual salary of at least \$15,600, and relocation costs are paid by the Laboratory, which is located in the beautiful mountains of northern New Mexico.

Interested candidates should have obtained a Ph.D. within the last 3 years and have a strong background in mathematics; experience in mathematical modeling and simulation of biological systems; and knowledge in specific areas of biophysics, cellular biology, molecular biology, and/or immunology.

Send a curriculum vitae and the names of three references to:

**Patricia D. Beck
Recruiting Representative
Division: 77-BA
Los Alamos Scientific Laboratory
P.O. Box 1663
Los Alamos, New Mexico
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