

BOOKS RECEIVED

(Continued from page 488)

ford, 1978 (U.S. distributor, Halsted [Wiley], New York). xii, 330 pp., illus. \$25.

Plant Mitochondria. Proceedings of a symposium, Marseille, France, July 1978. G. Ducet and C. Lance, Eds. Elsevier/North-Holland, New York, 1978. xxiv, 454 pp., illus. \$60. Developments in Plant Biology, vol. 1.

Poverty, Development, and Health Policy. Brian Abel-Smith with Alcira Leiserson. World Health Organization, Geneva, 1978 (U.S. distributor, WHO Publications Centre USA, Albany, N.Y.). 110 pp. Paper, \$5. Public Health Papers, No. 69.

The Power of Human Imagination. New Methods in Psychotherapy. Jerome L. Singer and Kenneth S. Pope, Eds. Plenum, New York, 1978. xx, 406 pp. \$25. Emotions, Personality, and Psychotherapy.

Practical Fungal Physiology. Peter M. Robinson. Wiley, New York, 1978. viii, 124 pp., illus. Paper, \$9.50.

Principles and Methods for Evaluating the Toxicity of Chemicals. Part I. World Health Organization, Geneva, 1978 (U.S. distributor, WHO Publications Centre USA, Albany, N.Y.). 272 pp., illus. Paper, \$16.65. Environmental Health Criteria 6.

Principles and Techniques of Electron Microscopy. Biological Applications. Vol. 9. M. A. Hayat. Van Nostrand Reinhold, New York, 1978. xviii, 302 pp., illus. \$27.50.

Principles of Industrial Chemistry. Chris A. Clausen III and Guy Mattson. Wiley-Interscience, New York, 1978. xvi, 412 pp., illus. \$18.95.

Principles of Organic Stereochemistry. Bernard Testa. Dekker, New York, 1979. xiv, 248 pp., illus. Paper, \$14.50. Studies in Organic Chemistry, vol. 6.

Proceedings of the 2nd International Symposium on Trichoptera. Reading, England, July 1977. M. Ian Crichton, Ed. Junk, The Hague, 1978 (U.S. distributor, Kluwer Boston, Hingham, Mass.). xiv, 360 pp., illus. \$56.

The Productivity Dilemma. Roadblock to Innovation in the Automobile Industry. William J. Abernathy. Johns Hopkins University Press, Baltimore, 1978. xii, 268 pp., illus. \$16.

The Selected Writings of A. R. Luria. Michael Cole, Ed. Sharpe, White Plains, N.Y., 1979. xxii, 252 pp., illus. \$22.50.

Self-Administration of Abused Substances. Methods for Study. Papers from a conference, Reston, Va., Feb. 1978. Norman A. Krasnegor, Ed. National Institute on Drug Abuse, Rockville, Md., 1978 (available from National Clearinghouse for Drug Abuse Information, Rockville, Md.). x, 246 pp. Paper. NIDA Research Monograph 20.

A Sense of the Future. Essays in Natural Philosophy. J. Bronowski. MIT Press, New York, 1978. xii, 286 pp. Paper, \$4.95. Reprint of the 1977 edition.

Sign Language and Language Acquisition in Man and Ape. New Dimensions in Comparative Pedolinguistics. Papers from AAAS symposium, Denver, Feb. 1977. Fred C. C. Peng, Ed. Published for the American Association for the Advancement of Science by Westview Press, Boulder, Colo., 1978. xxvi, 236 pp., illus. \$16.75. AAAS Selected Symposia Series, 16.

Structure and Collisions of Ions in Atoms. Vol. 1. A. Sellin, Ed. Springer-Verlag, New York, 1978. xii, 352 pp., illus. \$36. Topics in Current Physics, vol. 5.

Studies in Foundations and Combinatorics.

Gian-Carlo Rota, Ed. Academic Press, New York, 1978. xii, 266 pp. \$29. *Advances in Mathematics*, Supplementary Studies, vol. 1.

Studies in Neurophysiology. Presented to A. K. McIntyre. Cambridge University Press, New York, 1978. xiv, 440 pp., illus. \$75.

Studies in Probability and Ergodic Theory. Gian-Carlo Rota, Ed. Academic Press, New York, 1978. xiv, 294 pp. \$32. *Advances in Mathematics*, Supplementary Studies, vol. 2.

Study Guide and Review Manual of the Human Nervous System. Keith L. Moore, Ewart G. Bertram, and Murray L. Barr. Saunders, Philadelphia, 1979. x, 318 pp., illus. Paper, \$7.95.

The Study of Man. An Introduction to Human Biology. E. J. Clegg. Holmes and Meier, New York, ed. 2, 1978. vi, 330 pp., illus. Paper, \$9.50.

The Study of Time III. Proceedings of a conference, Alpbach, Austria, July 1976. J. T. Fraser, N. Lawrence, and D. Park, Eds. Springer-Verlag, New York, 1978. viii, 728 pp., illus. \$24.80.

Topics in Surface Chemistry. Proceedings of a symposium, Bad Neuenahr, Germany, Sept. 1977. Eric Kay and Paul S. Bagas, Eds. Plenum, New York, 1978. viii, 408 pp., illus. \$24.50. IBM Research Symposia Series.

Topological Uniform Structures. Warren Page. Wiley-Interscience, New York, 1978. xvi, 398 pp. \$34.95.

Trace Element Analysis of Geological Materials. R. D. Reeves and R. R. Brooks. Wiley-Interscience, New York, 1979. x, 422 pp., illus. \$27.50. Chemical Analysis, vol. 51.

Trace Elements and Iron in Human Metabolism. Ananda S. Prasad. Plenum, New York, 1978. xvi, 392 pp. \$29.50.

Trace Metals in the Environment. Vol. 5, Indium: An Appraisal of Environmental Exposure. Ivan C. Smith, Bonnie L. Carson, and Fritz Hoffmeister. Ann Arbor Science, Ann Arbor, Mich., 1978. xxii, 552 pp. \$24.

Transmission and Propagation of Electromagnetic Waves. K. F. Sander and G. A. L. Reed. Cambridge University Press, New York, 1978. x, 410 pp., illus. Cloth, \$54.50; paper, \$11.95. Electronics Texts for Engineers and Scientists.

UV-A. Biological Effects of Ultraviolet Radiation with Emphasis on Human Responses to Longwave Ultraviolet. John A. Parrish, R. Rox Anderson, Frederick Urbach, and Donald Pitts, Eds. Plenum, New York, 1978. x, 262 pp. illus. \$25.

Visual Psychophysics and Physiology. A Volume Dedicated to Lorrin Riggs. John C. Armitage, John Krasukopf, and B. R. Wooten, Eds. Academic Press, New York, 1978. xviii, 488 pp., illus. \$29.50.

Water and Society. Conflicts in Development. Part 1, The Social and Ecological Effects of Water Development in Developing Countries. Carl Widstrand, Ed. Pergamon, New York, 1978. viii + pp. 279-406, illus. \$20. Water Development, Supply and Management, vol. 7. Reprinted from *Water Supply and Management*, vol. 2, No. 4.

Why Not Say It Clearly. A Guide to Scientific Writing. Lester S. King. Little, Brown, Boston, 1978. xii, 186 pp. Paper, \$5.95.

The Wild Boy of Burundi. A Study of an Outcast Child. Harlan Lane and Richard Pillard. Random, New York, 1979. xvi, 190 pp. + plates. \$10.

World Food Resources. Actual and Potential. Michael Allaby. Applied Science Publishers, London, 1978 (U.S. distributor, International Ideas, Philadelphia). viii, 418 pp., illus. \$35.70.

Personnel Placement

SCIENCE publishes each Friday, except the last Friday of the year. Advertising closing for a particular Friday issue is Wednesday, 3 1/2 weeks before. Advertising is accepted only in writing; no abbreviations. Also, personnel advertising is accepted only with the understanding that the advertiser does not discriminate among applicants on the basis of race, sex, religion, age, color, national origin, or handicap.

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POSITIONS WANTED

Ph.D. (1969) **Biochemist.** Experience in cancer chemotherapy, purine, pyrimidine and folate analogs-mechanism of action and resistance, purine biosynthesis and salvage pathway enzymes, medical school teaching; 11 publications. Seeks immediate position in academy or industry. Write: Box 228, SCIENCE. X

CNS Pharmacologist. Ph.D. Highly motivated and productive and interested in movement disorders; narcotics, hallucinogens, neuroleptics, and central stimulants; wants a senior research position. Will test own hypothesis on the involvement of a new neurotoxic substance in the etiology of behavioral and clinical toxicology. Ph.D. degree or equivalent other fields of interest. Box 215, SCIENCE. 8/3, 17, 31

Energy R & D. Ph.D. 1973. Six years of experience with major West Coast contract R & D firm in energy, fuel conversion, and environmental research. Project engineer/manager with excellent managerial, technical, and verbal/written communicative skills (proposals, reports, and presentations). Innovative, ambitious, and a leader in energy process R & D. Seeks research director or senior project engineer position with organization heavily committed to renewable resource utilization/energy conversion research. No agencies please. Box 225, SCIENCE. X

Physicist/Biophysicist/Molecular Biologist. Ph.D. Three years of postdoctoral experience. Research experience in nuclear processes, DNA-protein interactions, action of free and immobilized enzymes. Fifteen publications. Seeking academic, research, or industrial position. Box 226, SCIENCE. X

Research Technician. Graduate student seeks employment in the field of immunology and/or cancer research. Four years of clinical laboratory experience plus 1 year of immunological-related research, experience in tissue culture as well as many immunological techniques. Enthusiastic, cheerful, hard worker. For details, write: Box 227, SCIENCE. 8/3, 10

POSITIONS OPEN

DEPARTMENT OF ANATOMY WEST VIRGINIA UNIVERSITY SCHOOL OF MEDICINE

Applications are invited from **ANATOMISTS** experienced in teaching functional gross anatomy. Applicants must have postdoctoral research experience and an established research program of high quality in the area of in vitro and in vivo measurements of bone strain and remodeling. Appointment will be made in conjunction with the Department of Orthopedic Surgery. Academic rank will be commensurate with qualifications. Closing date for applications is 15 September 1979. Submit curriculum vitae with complete bibliography and names of three references to: **Dr. Robert S. McCuskey, Chairman, Department of Anatomy, West Virginia University Medical Center, Morgantown, West Virginia 26505.** *West Virginia University is an Equal Opportunity/Affirmative Action Employer.*

ASSISTANT PROFESSOR. Applications are invited for a position in the Radiobiology Section of the Johns Hopkins Oncology Center; available autumn 1979. Applicants should have a doctorate, and postdoctoral or equivalent experience. Preference will be given to applicants having research interests and experience quantifying the radiation response in vivo of experimental tumor systems and/or normal tissues. Previous research with in vitro assays of in vivo damage, or with combination (radiation/drug/immune) therapy would be helpful. The successful applicant will be expected to develop an independent research program complementary to ongoing studies in molecular and cellular radiobiology, as well as contributing to the teaching of undergraduate and graduate students and medical residents. Applications, including complete curriculum vitae and names of at least three references, should be forwarded to: **Dr. Ralph E. Durand, Johns Hopkins Oncology Center, 601 North Broadway, Baltimore, Maryland 21205,** before 1 September 1979. *Johns Hopkins University is an Equal Opportunity/Affirmative Action Employer.*

ASSISTANT PROFESSOR to teach junior and senior level courses in human anatomy and physiology beginning in September. Ph.D. and teaching experience required. Applicants should send curriculum vitae, three letters of reference, and documentation of teaching effectiveness to: **HAP Search Committee, School of Allied Health Sciences, P.O. Box 146, The University of Texas Medical Branch, Galveston, Texas 77550.**

The University of Texas is an Equal Opportunity/Affirmative Action Employer, M/F/H.

ASSISTANT PROFESSOR OF PHARMACOLOGY. Applications are invited from qualified candidates with a Ph.D. or M.D. degree. Opportunity exists for a joint appointment in clinical pharmacology. Applicants must have a minimum of 2 years of postdoctorate experience. Position offers opportunities to develop a research program and to participate in the teaching of graduate and medical pharmacology courses. Submit a résumé of research interests, curriculum vitae, and three letters of recommendation to: **Dr. Michael J. Peach, Department of Pharmacology, Box 448, University of Virginia School of Medicine, Charlottesville, Virginia 22908.**

An Affirmative Action/Equal Opportunity Employer

ASSISTANT PROFESSOR OF PHARMACOLOGY. A tenure-track position for an individual with a Ph.D. in organic chemistry with postdoctoral experience in pharmacology. The successful candidate will teach graduate courses in analytical chemical methods in toxicology and pharmacology. He/she will also be expected to maintain an active research program in pharmacology. Interested candidates should forward their curriculum vitae, three letters of reference, and a summary of their research interests to: **Search Committee II, Department of Pharmacology, UCLA Center for the Health Sciences, Los Angeles, Calif. 90024.** *An Equal Opportunity/Affirmative Action Employer.*

BIOORGANIC CHEMIST. Position involves full-time research on the metabolism of drugs affecting the central nervous system. The research involves GC, GC/MS, HPLC, and general biochemical procedures. Prior experience in these techniques is desirable but not required. Applicants should submit curriculum vitae, abstract of dissertation, and three references to: **Appointment Committee I, Department of Pharmacology, UCLA Center for the Health Sciences, Los Angeles, Calif. 90024.** *An Equal Opportunity/Affirmative Action Employer.*

POSITIONS OPEN

ASSISTANT PROFESSOR OF BIOLOGY

September opening for 1-year replacement position to teach undergraduate courses in anatomy and physiology, general biology and graduate courses in aging and physiology. Ph.D., teaching experience, and postdoctoral research required. Salary: \$13,500. Send résumé by 10 August to: **Director of Administration, Long Island University/The Brooklyn Center, University Plaza, Brooklyn, N.Y. 11201.** *An Equal Opportunity/Affirmative Action Employer.*

Applications are invited for the position of **ASSISTANT PROFESSOR** in the Department of Pharmacology and Therapeutics, Section of Toxicology. The individual is expected to develop an independent research program in environmental or industrial toxicology to complement existing programs in forensic and clinical toxicology. Ph.D. degree or equivalent and postdoctoral experience are required. Teaching responsibilities include medical and graduate courses. Interested candidates should send curriculum vitae and description of research and teaching interests to: **Joseph E. Manno, Ph.D., Chief, Section of Toxicology, Department of Pharmacology and Therapeutics, Louisiana State University Medical Center, P.O. Box 33932, Shreveport, Louisiana 71130.**

We are an Equal Opportunity Employer.

ASSISTANT PROFESSOR: PLANT MOLECULAR BIOLOGIST. The University of Minnesota has a faculty position for a person to apply molecular biological techniques to the study of higher plants. Experience in recombinant DNA technology is desirable. This person will be expected to cooperate with a group of other investigators within the Colleges of Biological Sciences and Agriculture who are interested in plant improvement. Applicants should have postdoctoral experience and demonstrated ability to conduct independent research. Screening of applicants will begin 1 September 1979 but applications will be accepted until the position is filled. Send curriculum vitae, undergraduate and graduate transcripts, a brief description of research interests, reprints, and names of four references to: **Dr. Irwin Rubenstein, Head of the Search Committee, 250 Bio-Science Center, University of Minnesota, 1445 Gortner Avenue, St. Paul, Minn. 55108.**

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

ASSOCIATE/PROGRAM DIRECTOR (\$32,422 to \$47,500)

The National Science Foundation, Division of Environmental Biology, is seeking candidates for a permanent or 2-year rotational appointment as program or associate program director for Biological Research Resources Program. This program supports research resources that facilitate and enhance research in environmental biology. Resources include major systematic research collections, living collections of various kinds, controlled environment facilities, and field research facilities. Salary is negotiable based on qualifications and experience within salary range shown above. Health, life insurance, and leave benefits are available. Applicants must have a Ph.D. or its equivalent in a relevant field of biology and have 4 or 5 years of administrative experience in science with concentration in resources for environmental biology. Send résumés to: **National Science Foundation, DPM, EMPB 79-17, 1800 G Street, NW, Washington, D.C. 20550,** by 15 September 1979. For further information, telephone: **Catherine Hobek at 202-632-4124.**

An Equal Opportunity Employer

BIOCHEMICAL VIROLOGY

A junior or senior postdoctoral position is available to study biochemical aspects of influenza virus replication and antigenic variation in influenza viruses. Successful candidates must have strong backgrounds in biochemistry. Send curriculum vitae and a statement of career goals to: **Dr. R. G. Webster, Division of Virology, St. Jude Children's Research Hospital, P.O. Box 318, Memphis, Tenn. 38101.** *An Equal Opportunity/Affirmative Action Employer.*

BIOLOGICAL REGULATORY MECHANISMS. Three positions at the research associate level available for Ph.D.'s interested in studying regulation of DNA and RNA synthesis in prokaryotes and eukaryotes. Write to: **Professor Geoffrey Zubay, Department of Biological Sciences, Columbia University, New York, N.Y. 10027.**

POSITIONS OPEN

BILINGUAL ENVIRONMENTAL HEALTH SCIENTIST

The Pan American Health Organization is seeking a graduate environmental scientist, chemist, M.D., or engineer whose specialty area is environmental health, particularly in the field of:

- 1) Preparation of long- and short-term national environmental health plans that are suitable to cope with the most important human environment relationship problems;
- 2) Cooperation in the establishment of environmental health control strategies and standards;
- 3) Assisting in the establishment of monitoring systems to detect air, water, and soil pollutants of significance to the human health; and
- 4) Assisting in assessing from existing information, health problems resulting from environmental changes.

The post is in Brasilia, Brazil, and calls for close work with the evolving environmental health program of the government of Brazil. An excellent knowledge of Portuguese or Spanish with a working knowledge of English is required. M.P.H. and 5 years of experience required. Salary range with dependents: U.S.\$21,756 to U.S.\$27,750, and single, from U.S.\$20,209 to U.S.\$25,596 net of taxes per annum, with excellent fringe benefits. Please send résumé to: **Personnel Office, Pan American Health Organization, Regional Office of the World Health Organization, 525 23rd Street, NW, Washington, D.C. 20037.**

BIOLOGICAL SCIENCE—GENETICS AND CELL BIOLOGY. Assistant professor, fall 1980. Teach undergraduate genetics courses; graduate instruction; maintain active research. Ph.D. in genetics/developmental biology. Postdoctoral, previous teaching experience and eukaryotic gene organization preferred. Salary: \$14,000 to \$20,000. Reply by 21 September 1979 to: **S. Heywood, University of Connecticut, U-125, Storrs, Connecticut 06268.**

An Equal Opportunity Employer

CELL BIOLOGISTS. Several research positions at junior and intermediate levels are open now for work on the genetics and physiology of cells grown in culture. Mutants altered in their response to growth factors, hormones, ultraviolet light, mutagens, carcinogens, and teratogens are being isolated to study the action of these agents and to develop in vitro cell culture screening systems. Novel methods will be developed to exploit a unique semiautomated facility developed here for quantitative measurements on very large numbers of individual clones. Cell culture experience essential; somatic cell genetics and physiology experience valuable; familiarity with computers helpful. Send résumé, description of your research interests, and names of three referees by 1 September 1979 to: **Professor Donald A. Glaser, Molecular Biology Department, University of California, Berkeley, Calif. 94720.** *The University of California is an Affirmative Action Employer.*

Los Angeles—UCLA School of Medicine seeks appropriate candidates for the **JUDSON BRAUN CHAIR IN BIOLOGICAL PSYCHIATRY**, newly endowed professorship for psychiatrist (eligible for California licensure) with record of distinguished research in biological aspects of mental illnesses. *Equal Opportunity/Affirmative Action Employer.* Send curriculum vitae, letter discussing career goals, and five references to:

Fritz C. Redlich, M.D.
Chairman, Judson Braun Chair Search Committee
Attention: Bernadette T. Smith
UCLA Neuropsychiatric Institute
760 Westwood Plaza
Los Angeles, California 90024

CHAIRPERSON, DEPARTMENT OF ZOOLOGY University of North Carolina, Chapel Hill

The Department of Zoology, University of North Carolina at Chapel Hill, invites applications for the position of professor and chairperson. The department's 25 faculty members have broad interests and actively participate in four interdepartmental programs. Candidates must have distinguished professional records and must be able to provide dynamic, unifying leadership. Appointment is to the rank of tenured professor; salary is fully negotiable. Nominations and applications, including curriculum vitae and the names of at least three references, should be sent prior to 1 November 1979 to: **Professor R. F. Christman, 106 Rosenau Hall, 201H, University of North Carolina, Chapel Hill, N.C. 27514.** *The University of North Carolina is an Affirmative Action/Equal Opportunity Employer.*

Two positions are available under the Inter-governmental Personnel Act of 1970 for persons now employed in state/local government or in colleges and universities. These positions are within the Environmental Observation Division of the Office of Space and Terrestrial Applications, National Aeronautics and Space Administration (NASA) Headquarters. Both positions are for 1 year with the possibility for renewal for an additional year. Pay will be at a level commensurate with experience, and will be established after a review of qualifications.

Candidates must have been employed by the university in a permanent position for at least 90 days or be a career employee of a state or local government. Candidates must also meet the federal qualification standards for the position. These are as follows: a degree in an appropriate field of science, plus 3 years of progressively responsible experience in duties related to the position.

OCEANOGRAPHER (one position)

This individual will provide scientific guidance to NASA management in the development and implementation of a scientific research program in remote satellite sensing of oceanic processes in coastal regions. A background in coastal oceanography or ocean optics is preferred, with experience in physical, biological, and/or geological oceanography. A Ph.D. or equivalent training and experience is mandatory. Experience in remote sensing is desirable, especially as related to ocean color.

METEOROLOGIST/CLIMATOLOGIST (one position)

This individual will provide technical and scientific expertise to NASA management in the applications program in remote satellite sensing of atmospheric processes. A background in meteorology, climatology, or atmospheric physics is required. A background in remote sensing is desirable. A Ph.D. or the equivalent training and experience is mandatory.

Interested parties should send a current résumé to: NASA Headquarters, Attention: Sarah Keegan, Code EPM-3, Washington, D.C. 20546.

AQUATIC TOXICOLOGIST

MS in a biological science, zoology or marine science (preferred). Bioassay of toxic substances. Handling and culture of live aquatic and marine organisms. Marine Benthic work desirable with emphasis annelids, mollusks and crustaceans, zooplankton. Responsible for field bioassay studies, laboratory studies involving pure compounds. Report writing. Starting salary: \$13,400 - \$16,200.

Regular merit reviews, excellent employee benefits. If you wish to be considered for this position send your resume with salary history to Lenie Breeze:

P.O. Box 13454
Gainesville, FL. 32604
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**ENVIRONMENTAL
SCIENCE &
ENGINEERING, INC.**

ASSOCIATE DEAN FOR RESEARCH DEVELOPMENT

University of Illinois at Chicago Circle

The primary responsibility of the associate dean will be to stimulate applied and basic research on interdisciplinary problems characteristically addressed by research centers and institutes. However, he or she must also be able to coordinate the development and administration of sponsored research on a diversified campus. This includes work with young faculty as well as established researchers, development and maintenance of strong contacts with granting agencies and foundations, and preparation or assistance in the preparation of large-scale proposals.

The associate dean will report to the dean of the Graduate College and will work with a small staff. Responsibilities will interface with but be separate from those of the Office of Grants and Contracts, which is responsible for fiscal administration. Frequent travel is expected.

Candidates should have a personal record of successful sponsored research and/or a record of successful research development particularly focused on interdisciplinary problems in the natural and social sciences and engineering; some experience in grants administration at a major university, an agency of government, or a comparable research institution is desirable; a Ph.D. in natural or social science or engineering is expected. Salary is negotiable.

The University of Illinois at Chicago Circle was established in 1965. Current graduate and undergraduate enrollment is about 21,000. There are 1100 faculty members. Federal obligations exceed \$10 million.

Closing date: 1 October 1979. Please send letter of application and résumé, with references to: Dr. Richard Buchanan, Graduate College, University of Illinois at Chicago Circle, Box 4348, Chicago, Illinois 60680.

The University of Illinois at Chicago Circle is an Equal Opportunity/Affirmative Action Employer.



**DIRECTOR
AGRICULTURAL EXTENSION SERVICE
UNIVERSITY OF MINNESOTA
ST. PAUL, MINNESOTA**

The University of Minnesota invites nominations, applications, or expressions of interest for the position of director of the Agricultural Extension Service.

The Minnesota Agricultural Extension Service is part of the University of Minnesota's Institute of Agriculture, Forestry and Home Economics. The director of the Extension Service reports directly to the deputy vice president-dean of the Institute of Agriculture, Forestry and Home Economics.

The director of the Extension Service is responsible for administrative, fiscal, and personnel management of all phases of the Agricultural Extension Service in Minnesota. The Agricultural Extension Service in Minnesota presently has a staff of approximately 870 persons. Fiscal year 1978-1979 budget for the Minnesota Agricultural Extension Service totaled approximately \$16 million.

Qualifications include demonstrated program leadership, administrative ability, personnel-financial management, and communication skills.

Preference will be given to persons with a Ph.D. or equivalent degree; however, persons with outstanding records and a minimum of a master's degree will be considered.

Salary competitive. Federal retirement.

Applications should include a résumé, letter of application, and names of three to five references.

Nominations due by 1 August 1979.

Applications due by 1 September 1979.

Send nominations and applications to:

Harold A. Miller, Chair
Search Committee for Director of Agricultural Extension Service
University of Minnesota
150 Westbrook Hall
77 Pleasant Street, SE
Minneapolis, Minnesota 55455

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

ECOLOGIST

Position for a person with education at the M.S. or Ph.D. level with training in fisheries biology, preferably marine. Must have ability to analyze data quantitatively. Should have 3 to 5 years of experience in study design, data analysis, impact assessment, and consultation.

Please submit résumés, including salary history in confidence, to:

Edward Hagan



STONE & WEBSTER
ENGINEERING CORPORATION

P.O. Box 2325 Boston, Mass. 02107

An Equal Opportunity Employer M/F

POSITIONS OPEN

BIOPHYSICAL GENETICIST

RESEARCH ASSOCIATE. Position available fall 1979 in the laboratory of Dr. John Vournakis to study the secondary-structure of eukaryotic messenger RNA, and its role in the control of protein synthesis, using the globin and histone mRNA's as model systems. Applicants are required to have a Ph.D. or M.D. with research experience in RNA biochemistry and sequence analysis, research experience in computer-modeling of biological systems with knowledge of programming in Fortran and APL, and a strong background in biophysical aspects of nucleic acid structure and conformation. Candidates must demonstrate clear evidence of productivity and dedication to scientific research. Send curriculum vitae and names of three references to: **Dr. John N. Vournakis, Department of Biology, Syracuse University, 130 College Place, Syracuse, N.Y. 13210**, by 31 August 1979. *Syracuse University is an Equal Opportunity/Affirmative Action Employer.*

FACULTY POSITION IN ECOLOGY AND EVOLUTIONARY BIOLOGY

The Department of Biology of Indiana University-Bloomington expects to fill a tenure-track position for fall 1980 (pending funding from the College of Arts and Sciences) for an individual with an active research program in ecology and/or evolutionary biology. This person must have the capability to teach undergraduate courses in ecology and/or evolutionary biology as well as a graduate course in a specialty area. Current related research strengths in the department are in community ecology, population or evolutionary ecology, population genetics, paleoecology and paleobotany, systematics, behavior, physiological ecology, and limnology. The interests of the person selected may be in one of these areas or in a complementary field.

Applications will be accepted until 1 October 1979. Send curriculum vitae, bibliography, description of research interests, and arrange to have three letters of recommendation sent to: **Dr. Gary Sojka, Department of Biology, Indiana University, Bloomington, Ind. 47405**. *Indiana University is an Equal Opportunity/Affirmative Action Employer.*

POSITIONS OPEN

GC/MASS SPECTROMETRIST

A position is now open for an analytical or medicinal chemist with at least an M.S. degree and 2 years of experience in GC/MS/DS (preferably Finnigan). Exceptional B.S. chemists will also be considered. Extensive experience in gas chromatography is essential, and some background in high pressure liquid chromatography is desirable. The position involves the development and improvement of chemical assays for drugs and metabolites in biological samples by instrumental methods. Other responsibilities include the operation, maintenance, and occasional updating of present instrumentation. Salary and position will be commensurate with qualifications and experience. Please send a complete résumé with salary requirements and the names of three references to:

**M. L. Knill, Recruitment
Position No. 1301
FREDERICK CANCER RESEARCH CENTER
Litton Bionetics, Inc.
P.O. Box B
Frederick, Md. 21701**
An Equal Opportunity Employer, M/F

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

A search has been initiated for an established investigator interested in research and teaching of graduate and health science students to serve as head, Department of Biochemistry. The present department consists of faculty with funded, independent research programs. Responsibilities include recruitment of additional faculty. Applications and nominations of individuals committed to excellence in research and education should be addressed to: **Dr. H. Feinberg, Chairman, Search Committee, Department of Pharmacology, 835 South Wolcott Avenue, P.O. Box 6998, Chicago, Illinois 60680; telephone: 312-996-3541**. In order to receive full consideration, applications should be submitted by 15 September 1979. *The University of Illinois is an Affirmative Action Employer.*

POSITIONS OPEN

DIRECTOR, OFFICE OF ECOLOGY AND CONSERVATION

The National Oceanic and Atmospheric Administration (NOAA) announces a Senior Executive Service position vacancy for director, Office of Ecology and Conservation in the Office of Policy and Planning. Incumbent is responsible for reviewing NOAA policies relating to ecological and conservation matters, communicating with public interest groups and federal agencies concerned with such matters, and coordinating implementation of the National Environmental Policy Act of 1969 within NOAA. Candidates must demonstrate: knowledge of existing national and international environmental laws, regulations, treaties and policies, and the domestic and international agencies and organizations administering them; experience in formulating environmental policy in intra-agency, interagency, legislative, and international contexts; and knowledge of public interest environmental organizations. Inquire for detailed information by writing: **NOAA Personnel AD411, 6001 Executive Boulevard, Rockville, Maryland 20852, attention: Larry Salas, or telephone: 301-443-8373** no later than 20 August 1979.

The Department of Commerce is an Equal Opportunity Employer.

SIMON FRASER UNIVERSITY BURNABY, BRITISH COLUMBIA, CANADA DEPARTMENT OF BIOLOGICAL SCIENCES ENTOMOLOGIST

Applications are invited for a tenure-track position as an assistant professor in entomology. The successful applicant will be expected to develop a strong research program and to participate in the teaching program at both the undergraduate and graduate level including the Master of Pest Management Program. Candidates must have a Ph.D. degree in entomology or a related subject. The position is available immediately, subject to budgetary approval. The initial appointment will be for a period of 2 years, renewable. The salary scale is under revision; the current salary base for the assistant professor rank is \$18,604 per annum.

Applications should include up-to-date curriculum vitae, a brief statement of research interests and goals, and reprints of published research. Applicants should request a confidential assessment of their research and teaching ability from three referees, to be forwarded directly to: **Dr. M. Mackauer, Chairman, Department of Biological Sciences, Simon Fraser University, Burnaby, British Columbia, Canada V5A 1S6**.

Deadline for receipt of applications is 15 September 1979 or when position is filled.

THE AUSTRALIAN NATIONAL UNIVERSITY wishes to make a tenured appointment at the level of **FELLOW** or **SENIOR FELLOW** to extend and enhance research in the Department of Solid State Physics, Research School of Physical Sciences. The department is well equipped for studies in all aspects of solid state spectroscopy (EPR, Mössbauer, ultraviolet, visible, and infrared) and in cryogenics and thermal properties of condensed matter. There are excellent facilities for materials preparation and supporting mechanical and electrical workshops. The senior solid state experimentalist appointed will have broad interest in an area of research central to modern solid state physics, and will be expected to make appropriate use of existing facilities with, if necessary, some modest provision for additional specialized equipment. An ability to foster links with researchers elsewhere in the university, and with other Australian solid state physicists will be important.

Appointment will be for 5 years with possibility of reappointment to age 65. Salary range: fellow, A\$18,401 to A\$24,652; senior fellow, A\$24,686 to A\$28,773. Present exchange rate is A\$1:U.S.\$1.11. Reasonable appointment expenses are met. Superannuation available. Prospective applicants should write to: **Registrar, The Australian National University, P.O. Box 4, Canberra, ACT 2600, Australia** for further particulars before submitting applications, which close on 31 August 1979.

MANAGER OF MASS SPECTROMETER LABORATORY. A staff position available beginning September 1979. Will be responsible for maintenance, upgrading, and development in the area of mass spectrometric instrumentation. Applicant should be familiar with analog electronics. Experience with computer systems is desirable. Send inquiries to: **Dr. Richard A. Day, Department of Chemistry, University of Cincinnati, Cincinnati, Ohio 45221**. *An Affirmative Action/Equal Opportunity Employer.*

MEDICAL OFFICER/ HEALTH SCIENTIST ADMINISTRATOR

Division of Blood Diseases and Resources

The National Heart, Lung, and Blood Institute is seeking applicants for the position of Branch Chief of the Blood Diseases Branch of the Institute's Division of Blood Diseases and Resources with an annual salary ranging from \$38,160 to \$47,500 (GS-15 salary range) dependent upon qualifications. The Blood Diseases Branch is responsible for the planning and direction of basic and applied clinical and nonclinical research in the areas of thromboembolic and hemorrhagic diseases as well as Cooley's anemia and red blood cell enzyme and membrane disorders. The position requires participation with the Director and other members of his staff in the establishment of medical priorities and in the implementation and conduct of specific grant and contract programs.

An applicant must be either an MD or a Ph.D. (or the qualitative equivalent) with significant experience in the field of hematology. The applicant's background should include detailed knowledge of hematologic disorders and mechanisms and he/she must be familiar with research approaches relevant to these areas. The position to be filled is in the career Civil Service. Those currently serving in the Public Health Service Commissioned Corps are also encouraged to apply. Those interested in being considered for this position should submit a completed form SF-171 (Personal Qualifications Statement), along with a Curriculum Vitae and Bibliography by August 28, 1979, to Mr. Philip Lowengart, NHLBI Personnel Office, NATIONAL INSTITUTES OF HEALTH, Public Health Service, 9000 Rockville Pike, Building 31, Room 5A-32, Bethesda, MD 20205. For additional information, please call (301) 496-6477. An Equal Opportunity Employer.

NATIONAL INSTITUTES OF HEALTH

Research Chemist

Cutter Laboratories, Inc., a major supplier of hospital/medical products, is seeking a Biochemist with training and experience equivalent to PhD level, plus one to three years of post-doctoral experience. Familiarity with blood formed element physiology important, but not essential.

Must have good oral and written communication and have facility in isotope, immunological, and chromatographic laboratory techniques.

Please send resume with salary history/requirements to **D. Wilkins, Corporate Personnel, Cutter Laboratories, Inc., Fourth and Parker Streets, Berkeley, California 94710.** We are an equal opportunity employer m/f/h.



CUTTER
Laboratories, Inc.

PSYCHOLOGIST PHYSIOLOGIST

The Laboratory of Behavioral Sciences, Gerontology Research Center, National Institute on Aging, National Institutes of Health, Public Health Service is offering a service fellowship in a program on behavioral and physiological factors in the experimental prolongation of the life span of rodents. Candidates must possess a Ph.D. or equivalent in Psychology or Physiology and have interest in research on nutrition, exercise, physiology, dietary self-selection, or rodent pathology. Principal investigator on this project is Dr. Charles L. Goodrick. Appointments of individuals with fewer than three years of post-doctoral experience are made to the NIH Staff Fellowship Program with a starting salary of \$15,120 per anum. Appointments of individuals with three to seven years of postdoctoral experience are made to the NIH Senior Staff Fellowship Program with a starting salary of \$19,740 per anum. Fellowships are normally made for an initial two year period, with possible additional one year extensions. In addition, a full range of fringe benefits are available.

Interested candidates should send a curriculum vitae, bibliography, three letters of reference and their dissertation abstract by September 21, 1979 to the address below. In addition, any candidate whose doctoral degree is pending must be certified by a university as meeting all of the requirements leading to a doctorate.

Ms. Delores Davenport
Personnel Management Specialist
GERONTOLOGY RESEARCH CENTER
Baltimore, Md. 21224

An Equal Opportunity Employer

THE MIDDLESEX HOSPITAL MEDICAL SCHOOL

Department of Oncology Postdoctoral Research Assistant

A postdoctoral research assistant is required, for a period of 3 years, to work on an MRC funded project. This will study the late effects of X-irradiation on the response of normal tissues to chemotherapeutic drugs. Applicants should have experience either in mammalian radiobiology, or in the study of cell kinetics in vivo.

Starting salary, according to age and experience, up to £5,034, inclusive of London Allowance. Applications, together with a curriculum vitae and the names of 2 referees should be addressed to Dr. E. Hamilton, Department of Oncology, The Middlesex Hospital Medical School, London W1P 7PN.

CHIEF, LABORATORY OF ORGAN FUNCTION AND TOXICOLOGY

The National Institute of Environmental Health Sciences, National Institutes of Health, Public Health Service, invites applications for the head of the newly formed Laboratory of Organ Function and Toxicology. The incumbent will plan, direct and evaluate an intramural research program (supplemented by research contract if necessary) in the areas of: 1) investigation of the effects of environmental agents on renal, gastrointestinal, and hepatic function; 2) mechanisms by which environmental agents alter normal functions of these organ systems including the role of metabolism, endocrine factors, and toxicant-receptor interactions; 3) identify sensitive indicators of organ specific toxicity useful in the early detection and prediction of toxicity in experimental animals and humans; 4) interactions among the various organ and endocrine systems which produce toxic responses in liver, gastrointestinal tract and kidney; and 5) collaborates with epidemiologists in developing methods for extrapolation of data from experimental animal models to estimation of human risks from exposure to environmental agents.

The laboratory is grouped into 3 workgroups and currently is staffed with 11 permanent staff. The incumbent must have a Ph.D. or equivalent training and experience in an area of biomedical science. In addition, candidates must have served one year at the GS-14 (or the equivalent) level (for GS-15) or one year at the GS-13 (or equivalent) level (for GS-14). Salary range: \$32,442 to \$47,500 depending on qualifications.

Interested persons should submit curriculum vitae, bibliography, and names and addresses of three references by August 31, 1979 to:

Office of the Scientific Director
**NATIONAL INSTITUTE OF
ENVIRONMENTAL HEALTH SCIENCES**
P.O. Box 12233
Research Triangle Park, NC 27709

Equal Opportunity Employer

POSITIONS OPEN

BIOPHYSICIST—ELECTRON MICROSCOPY

The high resolution STEM laboratory in the Biophysics Department at The Johns Hopkins University is looking for a biophysicist to conduct research on the electron microscopy of macromolecular structures at near LHe temperature. This STEM is one of the very few capable of imaging single heavy element atoms and is used to study the structure of biological macromolecules which have been specifically labeled with heavy elements. A low temperature stage is being assembled and tested now. This person will work with a research staff of about seven others and will be responsible for installing and operating the cold stage, conducting research on the microscopy of membranes preserved by rapid freezing, conducting research on the reduction of radiation damage at low temperatures, and collaborating with other researchers on their related problems. This person will be in a stimulating environment with a great opportunity to interact with many areas of biophysical research. Applicant must have a Ph.D. in biophysics or a related discipline, a talent for dealing with sophisticated instruments, and some relevant experience.

Appointment will be as a postdoctoral associate. Send résumé and names of references to: **Wendell Wiggins, Department of Biophysics, Johns Hopkins University, Baltimore, Md. 21218.**

HEART METABOLISM

POSTDOCTORAL POSITION available in the areas of cardiac metabolism, creatine kinase, and mitochondrial bioenergetics. Position open to Ph.D. in biochemistry or M.D. with strong research background. Salary: \$12,000. Send résumé and three letters of recommendation to: **Dr. William E. Jacobus, 509 Blalock Building, The Johns Hopkins University School of Medicine, 600 North Wolfe Street, Baltimore, Md. 21205. An Equal Opportunity/Affirmative Action Employer.**

LIPOPROTEIN BIOCHEMIST—UTAH—One-year postdoctoral on lipoproteins at solid-liquid interfaces. Some background with complement and immunoglobulins desirable. Contact: **J. D. Andrade, Department of Bioengineering, University of Utah, Salt Lake City, Utah 84112. Telephone: 801-581-8509. Position available 1 September 1979. An Equal Opportunity/Affirmative Action Employer.**

THE DEPARTMENT OF MACROMOLECULAR SCIENCE at Case Western Reserve University invites applications for two tenure-track positions, which will be available September 1979. One position requires an expertise in the area of polymer physics with a special interest in electron microscopy. The second position is in the area of applied rheology or polymer processing. Rank is negotiable. Interested applicants should submit a letter of application with a résumé, including the names of three references and a statement of research and teaching goals. Send the above to: **Professor Jerome B. Lando, Chairman, Department of Macromolecular Science, Case Western Reserve University, Cleveland, Ohio 44106. An Equal Opportunity Employer.**

MICROANALYTICAL PHARMACOLOGIST—To work in behavioral and neuropharmacology. Ph.D. and postdoctoral training required. Ability to apply pyrolysis gas chromatography-chemical ionization mass spectrometry, high performance liquid chromatography, small computers and to maintain instruments. Salary: \$22,000. Please send résumé to: **Box J, Department of Pharmacology, THE MOUNT SINAI SCHOOL OF MEDICINE, One Gustave L. Levy Place, New York, N.Y. 10029. An Equal Opportunity Employer.**

POSTDOCTORAL POSITION available 1 September or earlier, to examine the synthesis and insertion of membrane antigens in flagellated cells. Ph.D. required. Salary: \$13,000 per year. Please send curriculum vitae and names of three references to: **G. Benjamin Bouck, Department of Biological Sciences, University of Illinois, Chicago, Illinois 60680. Closing date: 15 August. The University of Illinois is an Affirmative Action/Equal Opportunity Employer.**

POSTDOCTORAL POSITION available immediately for studies in insect plant interactions. Research deals with effects of insect damage to soybean plants on plant protein synthesis and effects of soybean proteins on insect growth and development. Send curriculum vitae and three letters of reference to: **Dr. L. L. Murdock, Department of Entomology, Purdue University, West Lafayette, Ind. 47907. An Equal Opportunity/Affirmative Action Employer.**

POSITIONS OPEN

MICROBIOLOGIST— Ph.D.

Philadelphia-area company, which is a leader in the areas of biological research and manufacturing, is presently offering a career opportunity for a microbiologist with a Ph.D. (or the equivalent) to join our Manufacturing Technical Service Staff.

This position involves providing technical assistance to biological production departments and assisting in the efficient transfer of new products from laboratory to production scale. Experience in developing bacterial and viral vaccines or biological production is required for this position.

An excellent salary and benefits program as well as a working environment of scientific challenge and career enrichment accompany this position.

If interested, please send résumé and salary requirements to:

**L-32, P.O. Box 2066
Philadelphia, Pa. 19103
An Equal Opportunity Employer**

NEUROSCIENCE—LOCAL CIRCUIT ANALYSIS.

Postdoctoral position available for research in electrophysiology and computer modeling of neuronal dendrites and synaptic interactions. Experience with computer programming desirable. Reply to: **Dr. Gordon Shepherd, Section of Neuroanatomy, Yale University School of Medicine, New Haven, Conn. 06510.**

An Equal Opportunity/Affirmative Action Employer

ORGANIC CHEMIST

Immediate opening for Ph.D. in organic chemistry with experience in synthesizing labeled chemicals for use in cancer research. Postdoctoral experience helpful with chemical carcinogens and radioactive chemicals.

Send curriculum vitae with three names of reference and complete publication list to:

**Personnel
Position No. 1279
FREDERICK CANCER RESEARCH CENTER
Lifton Bionetics, Inc.
P.O. Box B
Frederick, Md. 21701**

An Equal Opportunity Employer, M/F

POSTDOCTORAL POSITIONS NEUROBIOLOGY

The Neurobiology Group of the Worcester Foundation for Experimental Biology announces the availability of postdoctoral fellowships. These are 2-year appointments with possible renewal; the initial salary is \$11,000. Applicants should submit curriculum vitae, a synopsis of their Ph.D. thesis research, and the names and addresses of at least three references.

Application material should be sent to: **Neurobiology Group, Postdoctoral Fellowship Program, c/o Personnel Office, Worcester Foundation for Experimental Biology, 222 Maple Avenue, Shrewsbury, Mass. 01545.**

An Equal Opportunity/Affirmative Action Employer

POSTDOCTORAL POSITIONS IN DEVELOPMENTAL NEUROBIOLOGY

Three positions are available. One involves research on the clonal analysis of CNS development; another concerns the differentiation of nerve cells and synapses in culture; the third involves development of central auditory pathways. Send curriculum vitae, names of referees, and proposed starting date to: **Dr. Marcus Jacobson, Chairman, Department of Anatomy, University of Utah College of Medicine, Salt Lake City, Utah 84132, before 15 August 1979. The University of Utah is an Equal Opportunity Employer.**

POSTDOCTORAL RESEARCH ASSOCIATE to join suburban university group investigating immunoglobulin binding and receptors on oocytes and yolk sac tissue. Experience in cell biology or biochemistry required, \$11,000 to \$14,000. **Dr. Thomas Roth, Department of Biological Sciences, University of Maryland Baltimore County, Catonsville, Maryland 21228. An Equal Opportunity/Affirmative Action Employer.**

POSITIONS OPEN

POSTDOCTORAL POSITIONS IN ENZYMOLOGY

available 1 September 1979.

- 1) **Enzymologist**; require research experience in the use of kinetics (transient and steady-state) and isotope exchange techniques for a study of enzyme mechanism.
- 2) **Protein chemist**; require research experience in A.A. analysis, sequencing, peptide mapping, and gel electrophoresis techniques. Experience in chemical modification desirable.

Send curriculum vitae, a description of research experience, reprints, and two recommendation letters to:

**Dr. Robert Y. Hsu
Biochemistry Department
State University of New York
Upstate Medical Center
Syracuse, N.Y. 13210**

POSTDOCTORAL POSITIONS IN BIOLOGICAL

CHEMISTRY. For research on the targeting of phospholipid vesicles to specific cell types and therapeutic applications of vesicle-encapsulated agents. One position available immediately, and one on 1 October 1979. Experience in synthetic chemistry and modern instrumental methods desirable. Send résumé and three letters of recommendation to: **Dr. John D. Baldeschwieler, Division of Chemistry and Chemical Engineering, California Institute of Technology, Pasadena, California 91125. Affirmative Action/Equal Opportunity Employer.**

Two **POSTDOCTORAL POSITIONS** available immediately to study structural organization and expression of genes responsible for nitrogen fixation in bacteria. Ph.D. in biochemistry or molecular genetics required. Candidates with experience in phage, viral, or plasmid systems preferred. Send curriculum vitae and two references to:

**Dr. A. A. Szalay
Cornell University
Boyce Thompson Institute
Tower Road
Ithaca, N.Y. 14853**

Equal Opportunity Employer, M/F

POSTDOCTORAL POSITION available to Ph.D. or M.D. on 1 September 1979 for research in prostaglandin biosynthesis and platelet biochemistry. Background in biochemistry is desirable. Salary: \$13,200. Send résumé to: **G. J. Roth, M.D., Department of Medicine, University of Connecticut Health Center, Farmington, Conn. 06032.**

POSTDOCTORAL POSITION available immediately to study polypeptide hormones/receptors in cultured animal cells. Applicant must have a strong biochemical background. Experience with photo-reactive cross-linking reagents, protein fractionation techniques, immunology and/or tissue culture desirable. Salary: \$10,000 to \$11,000 per year. The initial appointment is for 1 year, but may extend for up to 3 years. Send curriculum vitae and names of two references to: **Dr. Manjuri Das, Department of Biochemistry and Biophysics, University of Pennsylvania, School of Medicine, Philadelphia, Pa. 19104.**

POSTDOCTORAL POSITION SCRIPPS CLINIC—BIOCHEMISTRY

Immediate position to study respiratory properties of neutrophils and macrophages. Requirements are a Ph.D. degree in biochemistry, molecular biology, or genetics. Experience in cell culture is desirable. Salary starts at \$12,500. Send résumé which includes names of three references to: **Dr. David Edwards, Department of Biochemistry, Scripps Clinic and Research Foundation, 10666 North Torrey Pines Road, La Jolla, Calif. 92037.**

Scripps Clinic and Research Foundation is an Equal Opportunity Employer, M/F.

POSTDOCTORAL POSITIONS. Available after 1 September 1979 at the **Department of Chemistry, Rensselaer Polytechnic Institute (RPI), Troy, N.Y. 12181.** Mechanistic studies of enzyme-catalyzed group transfer reactions (methyl, aminopropyl, phosphoryl, and so forth) using one or more of the following approaches: (i) NMR probes of enzyme-substrate/product complexes; (ii) kinetic studies of model reactions; and (iii) synthesis of transition-state analogs. Send résumé and three letters of recommendation to: **Dr. James K. Coward, Department of Pharmacology, Yale University School of Medicine, New Haven, Conn. 06510. RPI is an Equal Opportunity/Affirmative Action Employer.**

MEDICAL OFFICER

The National Heart, Lung, and Blood Institute is seeking applicants for the position of Medical Officer in the Devices and Technology Branch of the Institute's Division of Heart and Vascular Diseases with an annual salary ranging from \$40,009—\$47,500. The Branch, part of the Division's Cardiology Program, has responsibility for planning, developing and administering research and development programs dealing with diagnostic and therapeutic cardiovascular devices and instruments. It currently supports biomedical, clinical and technical research with a budget of about \$20 million, equally divided between grants and contracts. Targeted, contract-supported activities are directed towards the research, development, and evaluation of circulatory assist devices, biomaterials, and noninvasive methods of detecting, characterizing, and quantifying atherosclerotic lesions. Grant-supported activities are ongoing in these program areas as well as other types of cardiovascular devices and instruments. The Branch requires a physician to participate with the Branch Chief and other members of his staff in the establishment of medical priorities and implementation and conduct of specific grant and contract programs.

Applicants should have an M.D. and Ph.D., or M.D. degree with demonstrated independence in basic or clinical research supported by grants and/or contracts. Medical training related to heart and vascular diseases is an important consideration; in addition, competence in either the chemical, physical or engineering sciences is desirable. The position to be filled is in the career Civil Service. Those interested in being considered for this position should submit an SF-171 (Personal Qualifications Statement) along with a Curriculum Vitae and Bibliography by Aug 17, 1979 to: Mr. Philip Lowengart, NHLBI Personnel Office, NATIONAL INSTITUTES OF HEALTH, Public Health Service, 9000 Rockville Pike, Building 31, Room 5A-32, Bethesda, MD 20205 or call (301) 496-6477. An Equal Opportunity Employer.

**NATIONAL INSTITUTES
OF HEALTH**

Plant Geneticist

The Standard Oil Company (Ohio) is seeking an innovative scientist to join the research staff investigating ways of using molecular biology techniques and plant genetics to increase plant productivity.

This position requires a PhD in molecular biology of plant genetics. Industrial experience or post doctoral research is desirable but not required.

We offer a competitive salary and comprehensive benefits package. For consideration, please send your resume in confidence to: Mr. J.L. Miller, The Standard Oil Company (Ohio), 20089 Midland Building, Cleveland, Ohio 44115. We are an equal opportunity employer, m/f/h.



**THE STANDARD OIL COMPANY
(OHIO)**

Senior Toxicologist

Our growing Corporate Toxicology Department has an immediate new opening for a Senior Toxicologist reporting to the Manager of Corporate Toxicology. Primary responsibilities will include supervision of all phases of preclinical toxicological evaluations, most of which are conducted at our own facility.

Minimum qualifications are:

- ☐ Ph.D. in Toxicology, Pharmacology or related areas
- ☐ one to three years' experience in conducting toxicity studies: dermal, ocular, and systemic

Alcon offers:

- ☐ opportunity for professional and personal career growth with an outstanding, quality-oriented company
- ☐ a competitive starting salary
- ☐ comprehensive life-health-dental insurance coverage
- ☐ an excellent Profit Sharing Trust Program
- ☐ a Southwest life-style in the dynamic Dallas-Fort Worth Metroplex area which offers a wide variety of cultural and recreational diversions in a lower cost-of-living area.

If you are qualified professionally and ready to grow with a growth organization, please send your detailed resume, in strictest confidence to:

Ken G. Stevens, Corporate Placement Manager



ALCON LABORATORIES, INCORPORATED
P.O. Box 1959, Fort Worth, Texas 76101
an equal opportunity employer m/f

uci

DIRECTOR OF AMBULATORY CARE

The University of California, Irvine is seeking a Director of Ambulatory Care. The Director is accountable for maintaining effective ambulatory care services, for the organization and implementation of ambulatory care teaching programs for housestaff, nurses, and paramedical personnel, and for the development of academic research and educational programs in ambulatory care.

Responsibilities include management of out patient clinics in Orange, California, and community clinics in Anaheim and Santa Ana. These functions are an organized department of the UCI Clinical Services. The Director administers an annual budget of about \$10 million.

The Director of Ambulatory Care is responsible to the Director of Clinical Services and the Dean of the College of Medicine.

Candidates must have experience in medical school teaching programs and demonstrated ability in clinical research. Board qualification in a recognized medical specialty required, with a minimum of 2 years ambulatory care experience. Must be eligible for medical school faculty appointment and licensure in the State of California.

Required skills and knowledge include:

- Demonstrated ability to successfully direct ambulatory care services and programs in a large teaching medical facility
- Demonstrated knowledge of the principles, practices and trends of ambulatory medicine
- Sensitivity to patient care needs
- Program planning ability
- Skill in enhancing working relationships between academic programs and clinical operations
- Communication skills necessary to establish and maintain effective relationships with local and state agencies, and community groups

Applications must be received by October 1, 1979. Submit resume and salary requirements to:

Dean Stanely van den Noort
Chair, Search Committee
College of Medicine
University of California, Irvine, CA 92717

All qualified applications are welcome
Affirmative Action Employer/

Women, Minorities, Handicapped and Veterans Encouraged to Apply

POSITIONS OPEN

POSTDOCTORAL RESEARCH in chemical carcinogenesis studies are being conducted into the mechanisms underlying the carcinogenic effects of chronic alcohol consumption. The research involves determining in animal models the effects of ethanol consumption on carcinogen metabolism, DNA repair in target tissues, and tumor promotion. Stipends range from \$10,000 upward, depending on experience. Applicants must be U.S. citizens or permanent residents. Send curriculum vitae and names of references to: **Dr. A. Garro, Department of Microbiology, THE MOUNT SINAI SCHOOL OF MEDICINE, One Gustave L. Levy Place, New York, N.Y. 10029. An Equal Opportunity Employer.**

POSTDOCTORAL RESEARCH ASSOCIATE DEVELOPMENTAL NEUROBIOLOGY

The major emphasis of the research will be on mechanisms of development of the CNS of insects. Candidates should have a Ph.D. in a related area and expertise in electrophysiology, anatomy, or a strong interest in moving into these areas. Candidates should send a letter describing their major research interests and curriculum vitae to: **Dr. R. K. Murphy, Neurobiology Research Center, Department of Biological Sciences, State University of New York, 1400 Washington Avenue, Albany, N.Y. 12222.**

The State University of New York at Albany is an Equal Opportunity/Affirmative Action Employer. Applications from women, minorities, and handicapped are especially welcome.

POSTDOCTORAL/RESEARCH ASSOCIATE positions in immunocytochemistry, electrophysiology, or computer science/programming for studies on identity and localization of neuroactive peptides, synaptic transmitters of identified neurons, and computer-aided reconstruction and analysis of neural structure in vertebrate retinas. Available 15 September 1979 for 1 year with possibility of extension. Salary: \$10,000 to \$15,000. Research to be conducted at Jules Stein Eye Institute, UCLA School of Medicine, Los Angeles. Send résumé and two letters of reference by 20 August 1979 to: **Dr. W. K. Stell, Friday Harbor Laboratories, Friday Harbor, Wash. 98250. The University of California is an Equal Opportunity/Affirmative Action Employer.**

PROFESSOR AND HEAD CENTER FOR GENETICS

An opportunity for an outstanding research scientist and teacher to join the faculty of the School of Basic Medical Sciences of the University of Illinois at the Medical Center in Chicago. Candidates for this position are expected to mount a major research program in the forefront of some aspect of genetics or a related field. Candidates must be able to direct the training of six to ten pre- and/or postdoctoral students and secure the operating research resources for their work. The candidate selected will have an opportunity to recruit new faculty to the center. The position requires a person with ability to cooperate with basic science or clinical departments of the university in developing collaborative research and educational programs. Recently renovated space is available in a productive research environment. The position offers a challenge in professional and graduate education in a stimulating urban setting.

Please send letters of interest with curriculum vitae, or nominations to the chairman of the Search Committee, by 15 October 1979. **Dr. Sheldon Dray, Professor and Head, Department of Microbiology and Immunology, University of Illinois at the Medical Center, P.O. Box 6998, Chicago, Ill. 60680, telephone: 312-996-7470.**

QUANTITATIVE BIOLOGIST

Texas Instruments Incorporated in Buchanan, New York, is currently seeking a quantitative biologist to participate in a study being conducted on the effects of power plant operation on the fish and other biota of the Hudson River estuary. Applicants should have a Ph.D. and several years of experience in theoretical biology/population ecology/biomathematics. A strong statistical background is required. The incumbent's responsibilities will include: analysis and interpretation of data and the writing of research reports for submission to client. Salary is competitive and commensurate with experience and training. Applicants should direct letters and résumés to:

**Ruth Johnson, Personnel Officer
Texas Instruments Incorporated
P.O. Box 237
Buchanan, New York 10511**

An Equal Opportunity Employer, M/F

POSITIONS OPEN

POSTDOCTORAL/RESEARCH ASSOCIATE
Physiological ecology—aquaculture. Position to begin 1 September 1979, possible yearly renewal. Measuring tolerances, growth, and survival to various oxygen tension, salinity and temperature levels in available genetic groups of the cultured prawn *M. rosenbergii*. Qualifications: Ph.D. and publications in physiological ecology, especially crustacean respirometry and physiology. Send résumé to: **Dr. Spencer Malecha, Anuenue Fisheries Research Center, Area 4, Sand Island, Honolulu, Hawaii 96819. Telephone: 808-845-9561. Closing date: 24 August 1979.**

RESEARCH on the effects of ethanol on mammalian membrane structure and function, hepatic protein metabolism, or pharmacokinetics of alcohol. The position is available September 1979 for 2 to 3 years. Please submit curriculum vitae, statement of research interest, and three letters of recommendation to: **Charles S. Lieber, M.D., Alcoholism Research and Treatment Center, BRONX VA HOSPITAL, 130 West Kingsbridge Road, Bronx, N.Y. 10468. An Equal Opportunity Employer.**

RESEARCH ASSOCIATE position available in active nutrition/metabolism group for Ph.D. in pharmacology or nutrition to study mechanisms of anorexia-cachexia in tumor-bearing animals. Send résumé to: **Howard James, Department of Surgery, University of Cincinnati Medical Center, 231 Bethesda Avenue, Cincinnati, Ohio 45467.**

RESEARCH ASSOCIATE

Postdoctoral position available immediately in experimental and clinical toxicology of heavy metals. Candidate should have Ph.D. in pharmacology or toxicology with expertise in metal toxicology. Position involves opportunity for independent experimental work and participation in clinical research. Successful candidate will have an appointment as research associate at the John F. Kennedy Institute and in Department of Environmental Health Sciences, Johns Hopkins School of Hygiene and Public Health. Send career goals, curriculum vitae, and three references to: **The John F. Kennedy Institute, Personnel Office, 707 North Broadway, Baltimore, Maryland 21205. An Equal Opportunity Employer.**

RESEARCH ASSOCIATE for work on hormonal influences on developing intestine in organ culture. Ph.D. in cell biology and/or biochemistry required. Experience in enzyme and membrane techniques useful. Available now; \$11,000 to \$13,000 per annum. Send curriculum vitae and names of references to: **Dr. F. Moog, Biology Department, Washington University, St. Louis, Mo. 63130. Equal Opportunity/Affirmative Action Employer.**

SENIOR IMMUNOCHEMIST

International diagnostics firm. Excellent benefits package. Ph.D. with several years of experience in cellular immunology. Must be experienced in cell culture techniques, especially somatic cell hybridization. Please send résumé with salary requirements to:

Box 229, SCIENCE.

Equal Opportunity Employer, M/F

STUDY DIRECTOR

Immediate opportunity with the National Research Council to provide staff support for a panel of individuals from various senior industrial and university positions who will be reviewing and reporting on federal agency planning to modernize management, computer, and communications aspects of a nationwide service delivery system. The study director is also responsible for management of an office which supports both telecommunications and computer applications, technical and policy studies. Applicant should have a Ph.D. or equivalent in engineering, science, economics, business administration, social sciences, or law and up to 10 years of experience in planning and/or management of a large information/communications system or recent responsibilities for telecommunications policy. Demonstrated management and report writing skills essential. Starting salary: \$37,000 to \$42,000. Please submit résumé to: **R. V. Mrozinski, Board on Telecommunications—Computer Applications, National Research Council, 2101 Constitution Avenue, NW, Washington, D.C. 20418.**

An Equal Opportunity Employer

COURSES

SCANNING ELECTRON MICROSCOPY INSTRUCTIONAL SEMINAR 20 TO 24 AUGUST

This course is designed to provide an introduction to **SCANNING ELECTRON MICROSCOPY**. Topics to be covered include: coating techniques, critical-point drying, x-ray fluorescence, vacuum techniques, photography, and maintenance. Contact: **B. L. Gabriel, Electron Microscopy Laboratory, Department of Physics, Elmhurst College, 190 Prospect, Elmhurst, Ill. 60126 or telephone: 312-279-4100, extension 413.**

FELLOWSHIPS

Two **POSTDOCTORAL FELLOWSHIPS** are available immediately to study the immune response of hamsters to syphilitic infection. Experience in immunology, host-parasite relationships or biochemistry is desired. Fellows will have the unique opportunity to participate in a research group composed of a cellular immunologist (David A. Lawrence), toxicologist (Leland D. Loose), host-parasite person (Ronald F. Schell), and a specialist in infectious diseases (Jack L. LeFrock). In addition, opportunity to develop or collaborate in research in clinical and diagnostic microbiology is available. Salary is negotiable. Send curriculum vitae and supporting material to: **Dr. Ronald F. Schell, Director of Clinical Microbiology Laboratory, Albany Medical Center Hospital, Albany, N.Y. 12208.**

POSTDOCTORAL RESEARCH FELLOWSHIPS IN BIOPOLITICS. The Center for Biopolitical Research invites applications for two 1-year postdoctoral research fellowships in biopolitics and/or human social biology. Stipend of \$16,000 for 12-month period beginning 1 January 1980. Fellows will assist center in developing new research initiatives which will blend human life science perspectives into the study of political behavior. Applicants with specialties in biopolitics, human ethology, psychophysiology, behavioral biology, sociobiology, biomedicine, behavioral human ethology, bioethics, and public health are especially welcome. Send curriculum vitae, names of three references, and a statement of research interests by 15 September to: **Thomas C. Wiegand, Director, Center for Biopolitical Research, Northern Illinois University, DeKalb, Ill. 60115. Telephone 815-753-0431.**

POSTDOCTORAL FELLOWSHIPS available immediately in an NIA Training Program to study age-dependent nucleocytoplasmic interaction in several developmental systems with training from several clinical and basic science departments. These positions are open to cell biologists and molecular biologists holding a Ph.D., M.D., or D.V.M. degree and who are U.S. citizens or hold a permanent resident visa. Applicants should send their curriculum vitae to: **Professor Ru Chih C. Huang, Director of the Training Program, Department of Biology, The Johns Hopkins University, Baltimore, Md. 21218. An Equal Opportunity/Affirmative Action Employer.**

POSTDOCTORAL FELLOWSHIP. Available immediately. Two-year position for research training in neuroendocrinology related to visual system for U.S. citizens or permanent residents with Ph.D. or M.D. in scientific discipline related to endocrinology with research experience in radioimmunoassay techniques. Excellent collaboration with Endocrinology Division. Supported by NIH training grant. Send curriculum vitae to: **Bernard Schwartz, M.D., Ph.D., Chairman and Professor, Department of Ophthalmology, Tufts-New England Medical Center, 171 Harrison Avenue, Boston, Mass. 02111. An Affirmative Action/Equal Opportunity Employer.**

MARKET PLACE

In an effort to combat the rising costs of textbooks, **THE POPULATION OF BIOLOGY OF DISEASE**, 1977, by J. H. Whitlock, has been reprinted in a less expensive format and is for sale by: **The Department of Preventive Medicine, New York State College of Veterinary Medicine, Cornell University, Ithaca, N.Y. 14850. The price is \$5.50 each.**

ENERGY POLICY AND OUR OBLIGATIONS TO FUTURE GENERATIONS

The Center for Philosophy and Public Policy is sponsoring a competition for papers relating to matters of energy policy and our obligations to future generations.

Broadly speaking, the most important issues in this area include: the appropriate rate of use of nonrenewable resources; the nature, extent, and proper distribution of long-term risks; the appropriate methods for evaluating energy policy options and choosing among them; and predicting and evaluating this impact that today's energy policy choices might have on social development in the future. More specifically than this, the topic of the papers is open.

Up to five winners will be invited to join an already existing working group, composed of distinguished philosophers, economists, scientists, and policymakers. Those selected will have their expenses paid to attend three working group meetings and will receive a \$1000 honorarium for their participation.

Papers will be judged on the basis of quality, originality, and relevance to the philosophical and policy issues. The deadline for papers is September 17, 1979. Applicants will be notified by October 5, 1979. All papers should be sent to:

EP/OFG
Center for Philosophy and
Public Policy
University of Maryland
College Park, Maryland 20742

Those interested in applying are encouraged to write the above address for further information about this competition, an initial survey of the issues, and further details about the project and the working group. Inquiries may also be made by calling 301/454-4103.

The Center for Philosophy and Public Policy is a joint program of the Divisions of Arts and Humanities and of Behavioral and Social Sciences at the University of Maryland. This project is sponsored by a grant from the EVIST Division of the National Science Foundation.



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ENERGY: Use, Conservation and Supply (Volumes I & II) contain authoritative articles by the leading energy experts. Both books deal with the principal energy-related issues that face science and society today. **ENERGY-I** gives the reader a historical and general overview of our energy problems and examines ways to conserve energy and use it more efficiently. **ENERGY-II** focuses on our remaining supply of fossil fuels and the transition to fission, fusion and solar energy. It also provides an extensive analysis of present domestic and international energy-use patterns. **ENERGY-I** and **ENERGY-II** can serve as valuable reference sources for scientists and researchers, as well as supplementary reading in courses devoted to energy-related topics.

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