

Madness and the Brain. Solomon H. Snyder. McGraw-Hill, New York, 1974. x, 296 pp., illus. \$8.95.

Le Malpas Rockshelter. A Study of Late Paleolithic Technology in Its Environmental Setting. Anta Montet-White. Department of Anthropology, University of Kansas, Lawrence, 1973. viii, 136 pp., illus. Paper, \$3.40.

Nylon Plastics. Melvin I. Kohan, Ed. Wiley-Interscience, New York, 1973. xviii, 684 pp., illus. \$34.95. Society of Plastics Engineers Monographs.

Obedience to Authority. An Experimental View. Stanley Milgram. Harper and Row, New York, 1974. xx, 224 pp., illus. \$10.

Organic Chemistry of Life. Freeman, San Francisco, 1973. xii, 452 pp., illus. Cloth, \$12; paper, \$6.95. Reprinted from *Scientific American*.

Personal Relationships and Personal Constructs. A Study of Friendship Formation. Steven W. Duck. Wiley, New York, 1974. xii, 170 pp. \$12.

Physical Acoustics. Principles and Methods. Vol. 10. Warren P. Mason and R. N. Thurston, Eds. Academic Press, New York, 1973. xii, 404 pp., illus. \$39.50.

Recent Mathematical Developments in Control. Proceedings of a conference, Somerset, England, Sept. 1972. D. J. Bell, Ed. Academic Press, New York, 1973. xiv, 446 pp., illus. \$30.25.

The Reception of Copernicus' Heliocentric Theory. Proceedings of a symposium, Torun, Poland, 1973. Jerzy Dobrzycki, Ed. Reidel, Boston, 1973. 368 pp., illus. + plates. \$24.

Statistics. An Intuitive Approach. George H. Weinberg and John A. Schumaker. Brooks/Cole, Monterey, Calif., ed. 3, 1974. xviii, 392 pp., illus. \$9.95.

Statistics for Biologists. R. C. Campbell. Cambridge University Press, New York, ed. 2, 1974. xiv, 386 pp., illus. Cloth, \$15.50; paper, \$5.95.

Stress Concentration Factors. Charts and Relations Useful in Making Strength Calculations for Machine Parts and Structural Elements. R. E. Peterson. Wiley-Interscience, New York, 1974. xvi, 318 pp., illus. \$18.95.

Thermal Conditions in Freezing Lakes and Rivers. A. A. Pivovarov. Translated from the Russian edition (Moscow, 1972) by E. Vilim. Halsted (Wiley), New York, and Israel Program for Scientific Translations, Jerusalem, 1973. vi, 136 pp., illus. \$19.75.

Topics in Complex Function Theory. Vol. 3, Abelian Functions and Modular Functions of Several Variables. C. L. Siegel. Translated from the German (Göttingen, Germany) by E. Gottschling and M. Tretkoff. Wiley-Interscience, New York, 1973. x, 244 pp., illus. \$17.50.

Trade, Stability, and Macroeconomics. Essays in Honor of Lloyd A. Metzler. George Horwich and Paul A. Samuelson, Eds. Academic Press, New York, 1974. xviii, 558 pp., illus. \$19.50. Economic Theory and Mathematical Economics.

Woody Plants of the North Central Plains. H. A. Stephens. University Press of Kansas, Lawrence, 1973. xxx, 530 pp., illus. \$20.

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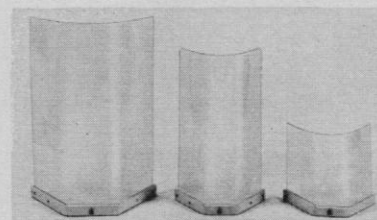


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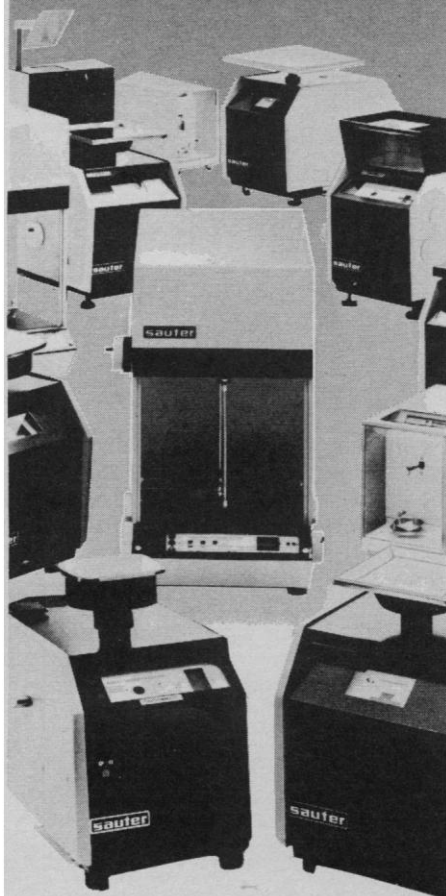


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Personnel Placement

It is requested that only those employers who will not discriminate on the basis of race, sex, religion, color, or national origin submit positions open advertising.

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POSITIONS WANTED

Bachelor Chemical Engineering with long experience in organic coatings' manufacture, development and formulation, desires to change career to either air pollution control, ecology, environmental engineering, oceanography, geography or meteorology. Willing to sacrifice salary for interesting position. Box 208, SCIENCE.
4/26; 5/3, 10

Biologist. B.S. 1974. Desires employment with institution or individual engaged with research of marine mammals. Robert D. Willis, 5708 West Norfolk Road, Portsmouth, Va. 23703. X

Economic Geologist. Ph.D. 1966. Publications. Desires academic research-teaching position in western United States. Strong theoretical background with interests in geophysics and geochemistry. Broad North American field exploration experience in shield and cordillera. Current research and publication on porphyry deposits. Box 149, SCIENCE.
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Electron Microscopist. Ph.D. with extensive experience in cell and molecular biology desires position where she can collaborate with non-microscopists. Also interested in teaching. Box 202, SCIENCE. X

Environmental Health. Ph.D. with broad training and experience in surveys, trace analysis, radiochemistry, metabolic studies, air/water/lead, desires academic or industrial position. Box 209, SCIENCE. X

Geneticist. Woman, Ph.D., seeks position. Teaching experience in genetics, zoology, and evolution. Research experience with publications. Box 185, SCIENCE.
4/26; 5/3

Innovative and Energetic Organic Chemist. Ph.D. 1970. Postdoctoral experience. Nineteen publications. Specialization in synthesis of pharmaceuticals, dyestuffs and fine chemicals. Seeks challenging research position. Box 210, SCIENCE.
4/26; 5/3

Neuroanatomist. Ph.D. Postdoctoral experience in neurophysiology. Seeking position in neurology and/or psychiatry department. Box 211, SCIENCE.
4/26; 5/3

Organic-Radioimmunoassay Chemist. Ph.D. 1972. Producing of antibodies. Modification or making functional groups in antigen. Radioimmunoassay. David Chien, 214 Adams St., Waltham, Mass. 02154. X

Physiological Psychologist/Learning. Ph.D. 1972. Postdoctoral teaching and research experience in primate learning and brain functioning. Publications. Seeking research or research/teaching opportunity. Box 212, SCIENCE. X

POSITIONS OPEN

AQUEOUS GEOCHEMIST

Appointment available in aqueous geochemistry and water resources problems at the assistant or associate professor level, starting September 1974. Ph.D. required and practical experience is preferred. Send résumé and three letters of recommendation to: **Dr. M. T. El-Ashry, Chairman, Department of Environmental Sciences, Wilkes College, Wilkes-Barre, Pa. 18703. An Equal Opportunity—Affirmative Action Employer.**

ASSISTANT DIRECTOR BIOLOGICAL OCEANOGRAPHY

Experienced doctoral level oceanographer with interest in administration and development of growing Division of Biological Oceanography required by leading mid-Atlantic coastal and estuarine research institute. Incumbent of new, permanent position will be expected to supervise and build upon biological oceanography unit consisting of several departments and sections. Research, teaching and advisory services. Faculty status involved. Salary scale ranges from \$19,600 to \$24,000 with opportunities for improvement. Starting salary dependent upon experience and qualifications. If interested, please reply with appropriate, complete and recent résumé to **Box 213, SCIENCE.** Names of three persons who may be contacted regarding your candidacy should be included.

ASSISTANT PROFESSOR

University of California, San Diego. Joint appointment effective 1 July 1974 in the Department of Applied Mechanics and Engineering Sciences and the Institute for Geophysics and Planetary Physics. Responsibilities involve undergraduate lecturing in the Earth Sciences Program, participating in AMES/IGPP research activities and graduate programs, and supervision of M.S. and Ph.D. student research. Primary areas of interest include continuum mechanics, numerical (finite element) methods, and wave propagation (strong ground motion/strong motion seismology). Detailed résumé from imminent or recent Ph.D.'s with expertise in geophysics and earthquake engineering should be sent to: **Professor P. A. Libby, Chairman, Department of Applied Mechanics and Engineering Sciences, University of California, San Diego, La Jolla, California 92037. Equal Opportunity/Affirmative Action Employer.**

UNIVERSITY OF WATERLOO DEPARTMENT OF BIOLOGY

Applications are invited for the post of: **ASSISTANT PROFESSOR IN BIOLOGY.** Primary teaching responsibilities in area of floral morphology, taxonomy, and evolution. Research interests in flowering plants or bryophytes—biosystematics, chemotaxonomy, phytogeography, or palynology.

Definite-term appointment, initially 2 years. Qualifications: Ph.D. Minimum salary \$13,100 per annum. Applications including curriculum vitae and names of three referees should be sent to **Dr. J. K. Morton, Chairman, Department of Biology, University of Waterloo, Waterloo, Ontario, Canada N2L 3G1.**

ASSISTANT PROFESSOR BOTANY

To teach mycology and/or botany or biology. Ph.D. required with ability to carry out original research in experimental mycology. Send curriculum vitae and three recommendation letters to **Box 24, Waterman Building, University of Vermont, Burlington, Vermont 05401. An Affirmative Action Employer.**

ASSISTANT PROFESSOR OF PATHOLOGY

Temple University School of Medicine. The position is concerned with academic pathology with the primary effort being in the division of pathology in Temple University Hospital. The applicant must be certified by the American Board of Pathology in Clinical Pathology, Autopsy Pathology, Exfoliative Cytology and Clinical Pathology. Must have an interest in residency training including the training of residents in clinical pathology. Must maintain an active program of study of human disease both at an applied and research level. The applicant must have an experience in Hospital Pathology and in academic institutions and must have publications reflecting his field of research and interest. Reply to **Ms. Olga Kusch, Department of Clinical Pathology, 3400 North Broad Street, Philadelphia, Pa. 19140.**

ASSISTANT PROFESSOR OF PATHOLOGY

M.D., Anatomic Pathologist. Board eligible, Board certified, or equivalent, with training in the study of environmental or occupational diseases and experience as director of research programs in occupational or environmental pathology. Responsible for departmental teaching, research and clinical activities in this field. Send curriculum vitae and three letters of reference to **Dr. B. Lane, Department of Pathology, Health Sciences Center, State University of New York at Stony Brook, Stony Brook, N.Y. 11790. An equal opportunity employer.**

POSITIONS OPEN

ASSOCIATE TO FULL PROFESSOR, DEPARTMENT OF HUMAN DEVELOPMENT AND FAMILY STUDIES. Interdisciplinary department of psychologists and sociologists needs senior faculty member in area of deviant or abnormal development; 50 percent teaching, primarily graduate level, 50 percent research. Requirements: (i) strong record in basic or applied research focused on cognitive or social-emotional adjustment problems within typical settings; for example, families, schools, preschool programs, or community based facilities for diagnosis and remediation of developmental problems; (ii) teaching record indicative of ability to involve students in research on problems of atypical and deviant development. Send curriculum vitae and supporting materials to **John Doris, Department of Human Development and Family Studies, Cornell University, Ithaca, New York 14850.**

BIOMEDICAL MASS SPECTROMETRIST Available July 1974

Ph.D. in relevant area. Responsibilities include operation of GC-MS (quadrupole, EI-CI, computer), assisting users, independent research in neuroscience applications of GC-MS. Academic appointment at instructor-assistant professor level. Send résumé, transcripts, publications, and letters of recommendation to **Dr. Frederick Petty, Stout Neuroscience Laboratory, The University of Tennessee Medical Units, 800 Madison Avenue, Memphis, Tennessee 38163.**

BIOSTATISTICIAN

With programming experience. Ph.D. desirable. Will work in field of cancer epidemiology. Faculty appointment, Yale University, Department of Epidemiology and Public Health. Further information from **J. Wister Meigs, M.D., Room 407, 60 College St., New Haven, Conn. 06510.** An equal opportunity employer.

THE UNIVERSITY OF SYDNEY (AUSTRALIA) CHAIR OF GEOLOGY

Applications are invited for a Chair of Geology which became vacant on the retirement of Professor C. E. Marshall. The present head of the Department of Geology and Geophysics is Professor G. M. Philip whose main field of interest is paleontology and stratigraphy. Candidates suitably qualified and experienced in any other field of geology, including geophysics and engineering geology, will be considered.

Salary: \$19,102 (Australian) per annum [as of 14 March 1974 \$1 (U.S.) = \$0.67 Aust.], £1 (stg.) = \$1.57 (Aust.).

For information contact the Registrar, University of Sydney, N.S.W. 2006, Australia, with whom applications close on 31 May 1974.

MICHIGAN STATE UNIVERSITY, EAST LANSING, MICHIGAN

Chairman and Professor of the Department of Pathology. The department is the focal point in the university for research and teaching related to fundamental and applied pathology and is responsible to the colleges of Human Medicine, Osteopathic Medicine, and Veterinary Medicine. The successful candidate will require an exceptional record in research, teaching, and relevant administrative experience. The conditions of appointment are negotiable. **Michigan State University is an equal opportunity employer.** Contact: **Norbert B. Enzer, M.D., A222 East Fee Hall, Michigan State University, East Lansing, Michigan 48824.**

CHEMICAL ENGINEER TO DO TECHNOLOGY ASSESSMENT

The SCIENCE AND PUBLIC POLICY PROGRAM and the COLLEGE OF ENGINEERING of the UNIVERSITY OF OKLAHOMA are seeking a chemical engineer for a 15-month visiting position in an interdisciplinary technology assessment team. The position would be available from 1 June 1974 to 31 July 1975. The position is a joint teaching research appointment. Qualifications are a background in thermodynamics and the ability to work as part of a team composed of natural scientists, engineers, and social scientists. Rank and salary would be commensurate with qualifications.

The University is an equal opportunity employer; women and members of minority groups are encouraged to apply. Please send a copy of your curriculum vitae, letters from three professionals, and reprints or copies of any papers you deem appropriate to **Don E. Kash, Director, Science and Public Policy Program, University of Oklahoma, 601 Elm Avenue, Room 432, Norman, Oklahoma 73069.**

POSITIONS OPEN

ASSISTANT PROFESSOR OF PHYSIOLOGY/ ELECTRON MICROSCOPIST

Applications are invited for a new position in the Department of Physiology for work on the ultrastructure of ion transporting structures and of the nervous system. Knowledge both in conventional and specialized techniques in electron microscopy is essential; experience with epithelial structures (kidney tubule, skin, bladder) as well as muscle, peripheral, and central nervous systems is desirable. Opportunities are available for both collaborative and independent research and for graduate and medical student teaching.

Please send complete curriculum vitae including publications and the names and addresses of three references to:

**Chairman, Electron Microscopist Search Committee
Department of Physiology
Yale University School of Medicine
333 Cedar Street—SHM B-106
New Haven, Connecticut 06510**

Applications from women and members of minority groups are welcome.

BIOLOGIST

Sabbatical leave replacement for the 1974-75 academic year to teach courses in microbiology, human anatomy and physiology, and principles of biology. Ph.D. preferred and the appointment will be at the instructor or assistant professor level. Send curriculum vitae and arrange to have sent three letters of recommendation to: **Dr. J. W. Edwards, Professor and Chairman, Department of Biology, Salem College, Winston-Salem, N.C. 27108.**

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CHAIRPERSON BIOCHEMISTRY DEPARTMENT

Applications and nominations are sought for the position of Chairperson, Department of Biochemistry, The University of Texas Health Science Center at San Antonio. Qualifications include evidence of research, teaching and administrative experience. Letters of inquiry, applications and nominations should be directed to: **Dr. Arthur H. Briggs, Department of Pharmacology, The University of Texas Health Science Center at San Antonio, 7703 Floyd Curl Drive, San Antonio, Texas 78284.** Applications should be accompanied by a curriculum vitae and by the names of at least three persons from whom letters of reference can be obtained. *An Equal Opportunity, Affirmative Action Employer.*

DEAN, COLLEGE OF SCIENCE AND MATHEMATICS

Position available for Dean of Science and Mathematics. Successful candidate is expected to assume leadership of an active college in a land grant institution. The college is composed of the departments of biochemistry, botany, chemistry, geology, mathematics, physics, polymers and coatings, psychology, and zoology. Candidates must have a Ph.D., an established research reputation in his or her field, and some academic administrative experience. Position may be filled as early as September 1974. *We are an equal opportunity employer.* Contact **Chairman, Dean Search Committee, College of Science and Mathematics, North Dakota State University, Fargo, North Dakota 58102.**

DIRECTOR OF DATA PROCESSING

The University of Massachusetts Medical Center, consisting of a complete medical school and a teaching hospital to open in 1975, is searching for a Director of Data Processing. The Director should be qualified to make decisions on staff and hardware required to serve the data processing needs of the faculty, staff, and administration of the Medical Center, including complete medical records, business services, and collaborative and/or service relationships with faculty research efforts. *The Medical Center is an affirmative action employer.* Please send résumés or curriculum vitae to **Chairman, Data Processing Search Committee, Box 355, University of Massachusetts Medical School, 55 Lake Avenue, North, Worcester, Massachusetts 01605.**

DIRECTOR AND DEPUTY DIRECTOR OF ENERGY RESEARCH: Colorado School of Mines seeks qualified applicants to lead the new state Colorado Energy Research Institute. These senior positions require demonstrated broad technical and administrative backgrounds in direct management of R&D related to the energy field, preferably in natural resources areas. Ph.D. or equivalent in science or engineering is required. Send letter of interest and résumé to **Dr. J. H. Gary, Vice President for Academic Affairs, Colorado School of Mines, Golden, Colo. 80401** by 30 April 1974. *An Equal Opportunity—Affirmative Action Employer.*

POSITIONS OPEN

CLINICAL CHEMIST

M.S. or equivalent required for position of supervisor in a rapidly expanding endocrine assay laboratory. Experience in radioimmunoassay and knowledge of computer programming is necessary. Send résumé to

**Dr. D. McEvoy
The Endocrine Center
200 University Circle Research Center
11001 Cedar Avenue
Cleveland, Ohio 44106**

CSIRO DIVISION OF MECHANICAL ENGINEERING HIGHTT, VICTORIA APPOINTMENT OF CHIEF OF DIVISION

CSIRO has a broad charter for research into primary and secondary industry areas. The Organization has approximately 6500 employees, 2100 of whom are research and professional scientists, located in Divisions and Sections throughout Australia.

GENERAL: Applications are invited from scientists and engineers who have an established record of personal research achievement and leadership interested in the position of Chief, Division of Mechanical Engineering. The vacancy has been created following the appointment of Mr. R. N. Morse as director of the CSIRO Solar Energy Studies Unit. The Division, which is located at Hightt approximately 12 miles from the city of Melbourne, has a total staff of approximately 100, including 42 professional staff, mainly engineers.

DUTIES: The Chief of the Division is responsible to the Executive for the conduct and direction of the research activities, for the general administration and for the control of funds available to it. A Chief is expected to make recommendations to the Executive on the future orientation of the research programmes. An early task for the new Chief will be a review of the Division's present work and subsequent recommendations to the Executive concerning future programme orientation. The Executive expects the appointee to contribute to the development of a close relationship between the Divisions of Mechanical Engineering and Building Research, the interests of which are complementary. The Division of Building Research is situated on the same site.

The work of the Division at present falls broadly into a study of the processes involving mass and heat transfer and the application of the results of these studies to the improvement of the quality of life, either directly through environmental control or indirectly through the replacement of processes which are harmful to the environment. Current programmes relate to: (i) utilization of solar energy, particularly for low temperature application such as water heating; (ii) controlled environment engineering, with emphasis on research into economic methods of comfort cooling; (iii) stored agricultural products engineering, and particularly a study of the use of physical methods of insect control in grain involving cooling and/or drying; (iv) agricultural engineering, especially research on the application of agricultural chemicals to crops; and (v) industrial aerodynamics, principally in relation to noise reduction and mine ventilation.

SALARY AND TENURE: Salary for the position will not be less than \$22,875 per annum. The tenure of the position is subject to negotiation. The possibility of either a fixed term (of the order of 7 years) or indefinite appointment could be discussed with the successful applicant. In either event, superannuation privileges would be available.

FURTHER INFORMATION: A member of the CSIRO Executive, Mr. V. D. Burgmann, will be visiting North America and the United Kingdom in May 1974 and will be available for discussions concerning the appointment with applicants and other interested parties. Those interested in discussing the appointment should contact either the **Chief Scientific Liaison Officer, Australian Scientific Liaison Office, 64 Kingsway, London, WC2B 6BD,** or the **Counsellor (Scientific), Embassy of Australia, 1601 Massachusetts Avenue, NW, Washington, D.C. 20036.** It may be possible to arrange such discussions at a number of points in the United Kingdom and the United States. Scientists interested in discussing the appointment should ensure that the appropriate overseas office is contacted in ample time to enable suitable arrangements to be made.

Further information on the Division's activities can be obtained by writing to **The Secretary (Administration), CSIRO, P.O. Box 225, Dickson, A.C.T. 2602, Australia.**

APPLICATIONS: Applications stating full personal and professional details, the names of at least two referees, and quoting reference number 430/329 should reach the undersigned by 14 June 1974.

**The Secretary (Administration)
CSIRO
P.O. Box 225
Dickson, A.C.T. 2602
AUSTRALIA**

POSITIONS OPEN

ENVIRONMENTAL SCIENCES

Postdoctoral appointments and also staff positions at the Ph.D. and B.S. levels are available in ongoing research programs related to the measurement and assessment of the environmental impact of the utilization of nuclear and fossil fuels in the Great Lakes Region. Areas of interest include limnology of the Great Lakes, stream ecology, terrestrial ecology and soil science, and meteorology. Send résumé to: **Ronald A. Johns, Professional Placement Department, Argonne National Laboratory, 9700 South Cass Ave., Argonne, Ill. 60439.**

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UNIVERSITY OF ILLINOIS

Applications are invited for faculty positions in the following areas for fall 1974:

- 1) **Clay Science**
- 2) **Engineering Geology or Engineering Geophysics**
- 3) **Marine Geology**

A senior person with a prominent research record and industrial experience will be given preference for the position in engineering geology. Rank open, but established researchers generally preferred for all positions. Salary dependent upon qualifications. Send résumé to **F. A. Donath, Head, Department of Geology, University of Illinois, Urbana, Ill. 61801.**

The University of Illinois is an affirmative action-equal opportunity employer and encourages applications from members of minority groups and women.

FACULTY POSITIONS

Community Health Planner; Assistant Professor of Geology; Assistant Professor of Sociology-Sociologist; Assistant Professor of Sociology-Social Work Specialist; Instructor or Assistant Professor of Psychology. Write for details:

**Dean John Linnell
College of Arts and Sciences
Grand Valley State Colleges
Allendale, Michigan 49401**

An equal opportunity employer.

FACULTY POSITIONS

Applications are invited from persons holding Ph.D. and/or M.D. degrees to fill four teaching positions with opportunity for research.

Medical Laboratory Science:

- 1) **Hematology**
- 2) **Clinical or Pathogenic Microbiology**

Applications should be ASCP registered or eligible. Administrative experience is desirable.

Physiology:

- 3) **Respiratory Physiologist**

Applicants must have or be willing to obtain ARIT certification.

- 4) **General Physiologist**

Send curriculum vitae, any available reprints, and three letters of reference to: **James J. Gozzo, Ph.D., Chairman, Search Committee, College of Pharmacy and Allied Health Professions, Robinson Hall Room 201, Northeastern University, 360 Huntington Avenue, Boston, Massachusetts 02115.**

Northeastern University is an equal opportunity/affirmative action employer.

KUTZTOWN STATE COLLEGE KUTZTOWN, PENNSYLVANIA

Geologist, full-time, permanent position for a Ph.D. with at least 4 or 5 years of teaching experience and the capability of teaching courses in paleontology, stratigraphy, sedimentation and oceanography. Maximum teaching load 12 credit hours, or the equivalent of three laboratory courses per semester. Rank and salary open. *An equal opportunity employer.* Apply to **Dr. R. F. Kaiser, Chairman, Department of Geography and Geology, Kutztown State College, Kutztown, Pennsylvania 19530.**

NEUROANATOMY AND PATHOLOGY

University of California School of Medicine seeks a candidate at a level equivalent to an Assistant Professor to study the morphology and function of the innervation of vascular tissue in health and disease. Skills should include fluorescence histochemistry, autoradiography, in vitro physiological and pharmacological procedures, the use of radioisotopes and operative animal surgery. Training and knowledge in the neural sciences including neuropathology is necessary. Send curriculum vitae to **Chairman, Screening Committee, Department of Pharmacology, University of California School of Medicine, Los Angeles, California 90024.**

Candidates meeting above qualifications are urged to apply irrespective of race, sex or ethnic origin.

POSITIONS OPEN

GEOPHYSICAL FLUID DYNAMICIST

Research Scientist (Ph.D.) in geophysics, applied math, or fluid dynamics to join an on-going research program in the dynamics of ocean-tides. Research experience in this area of research preferred. Please send résumé to:

**Dr. John T. F. Kuo
Lamont-Doherty Geological Observatory
Palisades, New York 10964**

An Equal Opportunity Employer

INSTRUCTOR or ASSISTANT PROFESSOR

Position available in the Department of Psychiatry, University of Michigan Medical School. Candidate is to work on ward devoted to special studies and clinical research. Must be capable of providing administrative and clinical supervision of all treatment modalities. Must have demonstrated teaching and research skills. Should be Board eligible. Send résumé to **Box 214, SCIENCE. A Nondiscriminatory Affirmative Action Employer.**

INSTRUCTOR or ASSISTANT PROFESSOR

Position available in the Department of Psychiatry, University of Michigan Medical School. Candidate is to participate in psychosomatic and consultation program of the Department. Must have demonstrated teaching and research skills. Must be Board eligible or Boarded in Psychiatry. Additional training in other medical specialties desirable but not essential. Send résumé to **Box 215, SCIENCE. A Nondiscriminatory Affirmative Action Employer.**

INSTRUCTOR or ASSISTANT PROFESSOR

Position available in the Department of Psychiatry, University of Michigan Medical School. Candidate is to take leadership role in developing and coordinating Department's quality control, peer review and program evaluation. Demonstrated teaching and research skills essential. Should be Board eligible or Boarded in Psychiatry. Send résumé to **Box 216, SCIENCE. A Nondiscriminatory Affirmative Action Employer.**

IONOSPHERIC, MAGNETOSPHERIC TEACHING RESEARCH faculty post, September 1974. Ph.D. required and should have postdoctoral experience. Level of appointment open, depending upon qualifications. Send résumé and professional references to

**H. Carlin, Director
School of Electrical Engineering
Cornell University
Ithaca, N.Y. 14850**

An Equal Opportunity/Affirmative Action Employer

MARINE FISHERIES ADMINISTRATOR

Marine Scientist with specialty in fisheries aspect of marine science needed. Leading coastal and estuarine research institution seeks experienced Ph.D. with competence in administration to fill permanent position as Head of an Ichthyology (Finfisheries) Department. Will be responsible for research and academic programming within major department of an environmentally oriented, public-supported, nonprofit research institute with advisory and educational responsibilities. Position supported by in-house funds. Personal research encouraged. Faculty appointment involved. Salary dependent upon experience and qualifications in range from \$17,900 to \$22,400. Salary scale increases pending. If interested, please reply with appropriate, complete and recent résumé to **Box 217, SCIENCE.** Names of three persons who may be contacted regarding your candidacy should be included.

HEAD, DIVISION OF PLASTIC SURGERY IN THE DEPARTMENT OF SURGERY

University of California, San Diego

Qualifications include: (i) substantial experience and a high level of skill in clinical plastic surgery and patient care; (ii) substantial experience and a high level of skill in teaching medical students, interns and residents; (iii) experience and a high level of accomplishment in scientific research; (iv) experience and ability in administration within an academic setting.

Send curriculum vitae, bibliography, and three letters of reference along with first inquiry to:

**Marshall J. Orloff, M.D.
Chairman, Department of Surgery
University Hospital
225 W. Dickinson Street
San Diego, California 92103**

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POSITIONS OPEN

GEOLOGICAL OCEANOGRAPHER

The University of Michigan announces a faculty opening for a geological oceanographer, preferably at the Assistant Professor level. A Ph.D. in oceanography, geophysics, or marine geology is required. Responsibilities include teaching a research program in area of specialty; and initiating an interdepartmental program in geological oceanography/marine geology.

Interested persons should submit a curriculum vitae and the names of three references to **Dr. Edward Callender, Chairman, Oceanography Search Committee, Department of Atmospheric and Oceanic Science, The University of Michigan, 5052 East Engineering Building, Ann Arbor, Michigan 48104.**

TERATOLOGIST PHARMACOLOGIST BEHAVIORAL TOXICOLOGIST

Midwest Research Institute, a not-for-profit organization, offers excellent career opportunities in the rapidly expanding fields of pharmacology and toxicology.

Teratologist—

Experience in teratology of rodents; experience with other animals beneficial.

Pharmacologist—

Experience in drug absorption and metabolism; knowledge in analytical technique desirable.

Behavioral Toxicologist—

Opportunity to develop methodology and research program in behavioral toxicology of environmental chemicals.

Candidates with doctoral degrees preferred. Careful consideration will be given to Masters with experience. Salaries are competitive and will be based on experience and training. Please send, in complete confidence, résumé with education, work experience and salary requirements to:

**Martin N. Schuler
Manager of Staff Development**



MIDWEST RESEARCH INSTITUTE
425 Volker Boulevard
Kansas City, Missouri 64110

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POSITIONS OPEN

MARINE SCIENTISTS WANTED. Leading mid-Atlantic estuarine and coastal research and educational Institute seeks doctoral-level, marine scientists with interests and capabilities in **MARINE MICROBIOLOGY** (Bacteriology-Virology) and **WETLANDS or MARSH ECOLOGY**. Positions either at Assistant or Associate level depending upon experience. Salary scale dependent upon experience. If interested, please reply with appropriate, complete and recent résumé to **Box 218, SCIENCE**. Names of three persons who may be contacted regarding your candidacy should be included.

NATIONAL INSTITUTES OF HEALTH NATIONAL INSTITUTE OF NEUROLOGICAL DISEASES AND STROKE—OFFICE OF BIOMETRY

Immediate opening for a GS-13 (\$20,677 to \$26,878) Mathematical Statistician.

A Ph.D. (or its equivalent) in Mathematical Statistics or 3 years of professional level experience is required. The training or experience should have included work in both applied statistics and statistical theory. Position is located in Bethesda, Maryland.

To apply, forward résumé or federal government application form (SF-171) to: **Mr. Michael Lockard, Building 31, Room 8A-25, NINDS, Bethesda, Maryland 20014**. Applications must be received by 20 May 1974.

NEUROSCIENTIST-ANATOMIST-CELL BIOLOGIST

The Department of Cell Biology of the University of Texas Health Science Center at Dallas, Southwestern Medical School seeks a senior neuroscientist to teach neuroanatomy to medical students and establish a research program. Applications are also sought for assistant professorships in the areas of Cell Biology and Human Gross Anatomy. Postdoctoral research experience and teaching experience are desirable. Positions available July 1974.

Send curriculum vitae, bibliography, and names of three references to **Dr. R. E. Billingham, Department of Cell Biology, University of Texas Health Science Center, Southwestern Medical School, Dallas, Texas 75235**.

POSITIONS OPEN

NUTRITIONIST with strong community nutrition interest to join 40-member Food Science and Nutrition faculty at University of Minnesota. Appropriate faculty rank. Primary responsibility teaching courses in community nutrition and integrating them with community experience. Also research opportunity. Ph.D., A.D.A. member preferred. For further information write, before 15 May to **Dr. Elwood F. Caldwell, Head, Department of Food Science and Nutrition, University of Minnesota, St. Paul, Minnesota 55101**. *An affirmative action and equal opportunity employer.*

OCEANOLOGIST

Research Scientist (Ph.D.) in oceanography-paleo-oceanography, paleoclimatology, to become member of on-going research in CLIMAP Project. Required background in statistical analysis (transfer function, time series), marine geology, micropaleontology, physical oceanography. Position open 1 May. Please send résumé to:

Dr. Andrew McIntyre

304 Oceanography

Lamont-Doherty Geological Observatory

Palisades, New York 10964

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PRIMATE REPRODUCTIVE BIOLOGIST (SENIOR INVESTIGATOR). Core Staff member of the Regional Primate Research Center at the University of Washington. To be in charge of reproductive studies at the primate breeding colony of the Field Station located at Medical Lake, Washington. Essential characteristics: (i) Ph.D., (ii) extensive experience with nonhuman primate reproduction, (iii) research experience in ovulation and production of timed pregnancies, and (iv) good history of successful grant applications.

Apply to **Dr. Orville A. Smith, Director, Regional Primate Research Center, University of Washington, Seattle, Washington 98195**. *An Equal Opportunity/Affirmative Action employer.*

POSITIONS OPEN

Ph.D. IMMUNOLOGIST

A position will be available on or about 1 June 1974 for a Ph.D. Immunologist to assist in the conduct of a major research program in tumor immunology at the UCLA School of Medicine, Harbor General Hospital, Torrance, California. Candidates should have training and experience in cellular immunology and/or tumor immunology and familiarity with in-vitro techniques for assaying antitumor immune responses. At least 2 years of postdoctoral training is desirable. Candidates should be eligible for academic appointment at the UCLA School of Medicine and will be encouraged to participate in all activities of the Hospital and Medical School. Level of appointment and salary will depend on qualifications and are negotiable. Send curriculum vitae, three letters of reference, and any other pertinent information to: **Dr. Yosef H. Pilch, Chief, Surgical Oncology, Harbor General Hospital, 1000 West Carson Street, Torrance, California 90509**. *An equal opportunity/affirmative action employer. Applications from women and minority group candidates encouraged.*

PHYSIOLOGIST

Assistant-Associate Professor to teach basic course and participate in graduate programs in Physiology. Appointee is expected to maintain an active research program. Equivalent of 2 years of postdoctoral experience required. Salary open. Applications to:

Dr. Dewey Bunting

Chairman Search Committee

Department of Zoology

University of Tennessee, Knoxville 37916

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PROFESSOR

Position available in the Department of Otorhinolaryngology, University of Michigan Medical School. Candidate must have M.D. degree and Diplomate of the American Board of Otolaryngology. Responsibilities include administration, committee work in the Medical School, teaching, supervision of patient activities (both outpatient and inpatient), correlation of clinical and surgical patient care in affiliated services. Facilities are available for research in denth. Code #400H. Send résumé to **Box 219, SCIENCE**. *A Non-discriminatory Affirmative Action Employer.*

ANALYTICAL BIOCHEMIST

The Physical and Analytical Chemistry Unit of our Pharmaceutical Research Division has an immediate opening for a scientist to conduct a research program in development of analytical methods for determination of prostaglandins, their precursors, and their metabolites and biological systems, as well as the application of these methods in support of pre-clinical and clinical studies.

Candidates must have a Ph.D. in analytical chemistry or biochemistry. Familiarity with modern tools of separation and physical-chemical analysis is essential; knowledge of radio-chemical and radio-immunological assay techniques, and previous experience in pharmaceutical or biochemical analysis desirable.

Location: Kalamazoo, Michigan, a medium sized community near lakes and recreational areas. Excellent living and working conditions.

Send complete résumé, including salary requirements to: **M. F. Murray, Technical Employment Representative**

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POSITIONS OPEN

PLANT PHYSIOLOGIST

To replace staff member on leave 1974-75 academic year in undergraduate physiology courses and graduate course in plant growth and development. For further information write:

Dr. F. G. Smith
Department of Botany and Plant Pathology
Iowa State University
Ames, Iowa 50010

PREDOCTORAL ASSISTANTSHIPS AND TRAINEESHIPS

In Oncology, Immunology, Microbiology, Virology, and Molecular and Cellular Biology. Prerequisites: B.S. degree in biology, chemistry, or related fields with B average or better and high G.R.E. score. U.S. citizenship required. Traineeships and assistantships available. Inquiries should be submitted to: **Dr. Sheldon Dray, Head, Department of Microbiology, University of Illinois Medical Center, P.O. Box 6998, Chicago, Illinois 60680.**

RADIOLOGIC TECHNOLOGY

INSTRUCTOR for Associate Degree Program in Radiologic Technology, based in health science building fully equipped for laboratory experiences in radiography. Program affiliated with four local hospitals for student's clinical placement. Applicants should be registered (ARRT) and have baccalaureate degree. At least 2 years of teaching in Radiologic Technology and/or 3 years clinical experience preferred. Salary negotiable. Contact **Personnel Office, Moraine Valley Community College, 10900 S. 88th Ave., Palos Hills, Ill. 60465.**

RESEARCH ASSISTANT PROFESSOR OF PATHOLOGY, Temple University School of Medicine. The position requires Board Certification in Pathologic Anatomy and Clinical Pathology. The applicant must have experience in research with publications in the field. The research must include experience in electron microscopy and immunopathology. The research will be concerned with the biology and immunology of human malignant melanoma and certain analogous systems in the guinea pig. Reply to **Ms. Olga Kuschch, Department of Clinical Pathology, 3400 North Broad Street, Philadelphia, Pa. 19140.**

RESPIRATORY PHYSIOLOGIST

Applicants are invited for one faculty position at the Assistant Professor level. It will be expected that individuals selected will develop a research program as well as participate in teaching of medical students and graduate students. Send résumé to **Chairman, Department of Physiology, University of New Mexico School of Medicine, Albuquerque, New Mexico 87131.**

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DEPARTMENT OF VETERINARY MICROBIOLOGY WESTERN COLLEGE OF VETERINARY MEDICINE UNIVERSITY OF SASKATCHEWAN SASKATOON, SASKATCHEWAN CANADA S7N 0W0

Position: **Veterinary Parasitologist**
Rank: Assistant Professor, Associate Professor
Salary Range: \$13,000 to \$19,500 per annum.
Qualifications: D.V.M., postgraduate training in parasitology, teaching and research experience, and strong interest in clinical aspects of parasitism.

Duties: Undergraduate and graduate teaching, research and diagnostic parasitology.

Starting Date: 1 July 1974.

Application: Letter with curriculum vitae and names of three referees to:

Dr. J. R. Saunders, Professor & Head
Department of Veterinary Microbiology
Western College of Veterinary Medicine
University of Saskatchewan
Saskatoon, Saskatchewan
Canada S7N 0W0

COURSES

MARINE SCIENCE

SOUTHAMPTON COLLEGE, SUMMER 1974

Undergraduate, graduate. Session I: 24 June to 26 July. Introduction to Marine Science, Chemical Oceanography, Biology Marine Invertebrates, Marine Ecology. Session II: 29 July to 30 August. Marine Operations, Comparative Physiology Marine Animals. For information and application: **Elizabeth Greiner, Southampton College (easternmost center Long Island University), Southampton, L.I., N.Y. 11968. (516) 283-4000.**

COURSES

SANTA CATALINA MARINE BIOLOGICAL LABORATORY—Summer Program

Ecology of Marine Fishes (19 June to 23 July). Robert Lavenberg, Los Angeles County Museum of Natural History, with guest participants William Eschmeyer, Edmund Hobson, Basil Nafkittis, and others.

Ecology of Marine Microorganisms (25 July to 28 August). Carl Oppenheimer, Institute of Marine Sciences, University of Texas with guest participants Thomas Fenchel, University of Aarhus, Denmark, Cornelius Sullivan, and William Wiebe.

Program in Neuroscience (25 July to 28 August). See special announcement below.

During the academic year, graduate and undergraduate courses are available during the fall and spring, respectively. Research opportunities and conference facilities are available throughout the year.

For additional information, write **Russell Zimmer, Box 398, Santa Catalina Marine Biological Laboratory, Avalon, California 90704 or phone (213) 746-6792.**

University of Southern California Santa Catalina Marine Biological Laboratory

SUMMER PROGRAM IN NEUROSCIENCE 25 July to 28 August 1974

Five-week electrophysiology course and opportunity to participate in research during and after the course. Consisting of lectures, demonstrations, and directed laboratory work, the course covers the neuronal membrane, neuronal intercommunication, and neuronal correlates of behavior. Participants: H. Wachtel (instructor), D. Junge, A. O. D. Willows, G. Moore, A. Siger, and L. Bishop. This offering was made possible through the generosity of the Grass Foundation of Quincy, Massachusetts.

For details contact **Russell L. Zimmer, Santa Catalina Marine Biological Laboratory, Box 398, Avalon, Calif. 90704 or phone (213) 746-6792.**

CONFERENCE

CONFERENCE

The First Annual National Conference on Biomedical Research Problems in a Changing World, has been held at the Sheraton Park in Washington, D.C., on 5, 6, and 7 February 1974 sponsored by the University of Maryland and Medicine, Inc. The latest developments and breakthroughs in such strategic activity areas of biomedicine as Heart, Vascular and Kidney Studies; Cancer Studies, Prosthesis Developments, Instrumentation; Health Care Delivery and Biomedical Ethics has been presented by the leading scientists of the country. For a copy of the *Proceedings*, Send \$10 to **Conference, Medicine, Inc. P.O. Box 637, Laurel, Maryland 20810.**

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FELLOWSHIPS

POSTDOCTORAL FELLOW

Opening available 1 July 1974, for a Fellow (M.D. or Ph.D.) in gastrointestinal physiological research for 12 months with option for renewal. Stipend depends on experience. Send curriculum vitae and three references to **G. Robert Mason, M.D., Ph.D., Professor and Chairman, Department of Surgery, University of Maryland Medical School Hospital, 22 S. Greene Street, Baltimore, Md. 21201.**

POSTDOCTORAL FELLOWSHIP

Available for 1 or 2 years in the Departments of Physiology and Surgery, working on acute renal failure under the direction of **Dr. Arlo S. Hermreck, Ph.D. or M.D. required.** Salary commensurate with experience and qualifications up to a maximum of \$12,000 per annum. Early date of commencement is desired. Applications to **Dr. Arlo S. Hermreck, Department of Surgery, University of Kansas Medical Center, 39th & Rainbow, Kansas City, Kansas 66103.**

FELLOWSHIP

FELLOWSHIP IN RENAL AND MEMBRANE PHYSIOLOGY

A fellowship commemorating **Dr. Louis G. Welt** has been established by the Department of Medicine, University of North Carolina, Chapel Hill, for 2 years' support of an M.D. or Ph.D. interested in postdoctoral research in the areas of nephrology or membrane physiology. Recipient would concentrate in one of several areas including renal physiology, epithelial transport, endocrinology of ion and water metabolism, hormones and membranes, or red blood cell transport. Interested parties should communicate with the **Chairman, Department of Medicine, University of North Carolina-Chapel Hill, Chapel Hill, North Carolina, 27514.** Deadline for receipt of applications: 1 November 1974.

POSTDOCTORAL FELLOWSHIP

Cellular and Tumor Immunology. Immediate. \$9800 taxable. Experience with lymphoid cells in vivo and in vitro desirable. Send curriculum vitae, bibliography, and three references to

Dr. Nick S. Harris
Transplant-Immunology Division
Shriners Burns Institute
Galveston, Texas 77550

POSTDOCTORAL FELLOWSHIP

To investigate regulation of hepatic cholesterol and bile acid synthesis. Background in lipid chemistry is essential. Send curriculum vitae and names of two referees to:

Dr. S. Goldfarb
Department of Pathology
University of Wisconsin Medical School
Madison, Wisconsin 53706

POSTDOCTORAL FELLOW (ENDOCRINOLOGY-BIOCHEMISTRY)

Applications invited from suitably qualified individuals with previous experience in mammalian cell culture and/or membrane biochemistry to study endocrine regulation of growth and development in normal and neoplastic islet cells and hepatocytes. Available immediately. \$9500 per annum plus dependent allowances. Write to:

Dr. Donald F. Steiner
Department of Biochemistry
University of Chicago
920 East 58th Street
Chicago, Illinois 60637

POSTDOCTORAL FELLOW (CELL BIOLOGIST)

Applications are invited for postdoctoral fellowships in the area of cell biology, biochemistry or virology in a cancer research centre in Toronto. Fellowships carry a stipend of \$9,000 to \$12,000 per annum. Research areas include hemopoiesis, RNA tumor virology and cellular differentiation. Immediately available. **Box 220, SCIENCE.**

UNIVERSITY OF MELBOURNE RESEARCH FELLOWSHIPS

Several fellowships are awarded twice each year for full-time research in any department of the University.

Eligibility: Ph.D. or at least equivalent research experience.

Tenure: 1 to 2 years.

Salary: \$8,698 (Australian), \$470 annual increment, plus return air fare.

Detailed information from **Secretary for Graduate Studies, University of Melbourne, Parkville, Victoria. 3052. Australia.**

Applications close 15 May 1974.

GRANTS

UNIVERSITY OF MELBOURNE TRAVEL GRANTS AND GRANTS-IN-AID

Grants are available to enable academics on paid leave to conduct full-time research or engage in postgraduate teaching at the University of Melbourne.

Detailed information available from **Chairman of appropriate department and Secretary for Graduate Studies, University of Melbourne, Parkville, Victoria. 3052. Australia.**

Applications close 15 May 1974.

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