

illus. Paper, \$18.75. Part 2, Isoelectric Focusing. P. G. Righetti and J. W. Drysdale. iv + pp. 335-590, illus. Paper, \$13.95.

**Land Evaluation of Europe.** Report on the Technical Consultation. Proceedings of a meeting, Nitra, Czechoslovakia, Sept. 1975. Food and Agriculture Organization of the United Nations, Rome, 1975 (U.S. distributor, Unipub, New York). iv, 124 pp. Paper, \$5.50. Soils Bulletin 29.

**The Landscapes of Iceland.** Types and Regions. Hubertus Preusser. Junk, The Hague, Netherlands, 1976. xvi, 364 pp., illus. Paper, Dfl. 120.

**Lectures Presented at the Second FAO/SIDA Training Course on Marine Pollution in Relation to Protection of Living Resources.** Methods for Detection, Measurement and Monitoring of Pollutants in the Aquatic Environment. Gothenburg and Stockholm, July-Sept. 1973. Food and Agriculture Organization of the United Nations, Rome, 1976 (U.S. distributor, Unipub, New York). vi, 110 pp., illus. Paper, \$7.50.

**The Linear Electric Field Effect in Paramagnetic Resonance.** W. B. Mims. Clarendon (Oxford University Press), New York, 1976. xii, 340 pp., illus. \$21.50.

**Local Properties at Phase Transitions.** Proceedings of a school, Varenna on Lake Como, Italy, July 1973. K. A. Müller and A. Rigamonti, Eds. Società Italiana di Fisica, Bologna, and North-Holland, Amsterdam, 1976 (U.S. distributor, Elsevier, New York). xxiv, 884 pp., illus. \$115.

**Magnetic Resonance in Colloid and Interface Science.** Papers from a symposium, San Francisco, Aug. 1976. Henry A. Resing and Charles G. Wade, Eds. American Chemical Society, Washington, D.C., 1976. xii, 542 pp., illus. \$25.50. ACS Symposium Series, 34.

**Mathematical Models of Metabolic Regulation.** Papers from a course, Dobogókő, Hungary, Sept. 1974. T. Keleti and S. Lakatos, Eds. Akadémiai Kiadó, Budapest, 1976. 260 pp., illus. \$15. Symposia Biologica Hungarica, vol. 18.

**National Geographic Society Research Reports.** Abstracts and Reviews of Research and Exploration Authorized under Grants from the National Geographic Society during the Year 1968. Paul H. Oehser, Ed. National Geographic Society, Washington, D.C., 1976. x, 528 pp., illus. \$5.

**Nature, Life, Mind, Society.** A. S. Iberall. General Technical Services, Upper Darby, Pa., 1976. vi, 110 pp. Paper, \$6.

**The Neuropsychology of Memory.** Alexander R. Luria. Translated from the 2-volume Russian edition (Moscow, 1974 and 1976). Winston, Washington, D.C., and Halsted (Wiley), New York, 1976. xvi, 372 pp., illus. \$22.95.

**The New Jersey Income-Maintenance Experiment.** Vol. 1, Operations, Surveys, and Administration. David Kershaw and Jerilyn Fair. Academic Press, New York, 1976. xxii, 232 pp. \$15. Institute for Research on Poverty Monograph Series.

**Nuclear Power.** Development and Management of a Technology. Frank G. Dawson. University of Washington Press, Seattle, 1976. xii, 320 pp. \$20.

**Proceedings of the Easter Meeting of the Society for the Bibliography of Natural History.** London, Apr. 1975. V. T. H. Parry, Ed. Society for the Bibliography of Natural History, London, 1976. iv + pp. 333-538. Paper, \$12. *Journal of the Society for the Bibliography of Natural History*, vol. 7, part 4.

**Proceedings of the First International Reindeer and Caribou Symposium.** Fairbanks, Alaska, Aug. 1972. Jack R. Luick, Peter C. Lent, David R. Klein, and Robert G. White, Eds. University of Alaska, Fairbanks, 1975 (available from Biological Papers, 202 Bunnell Building, University of Alaska). xiv, 552 pp., illus. Paper, \$12.50. Biological Papers of the University of Alaska Special Report No. 1.

**Progress in Neurobiology.** Vol. 5. G. A. Kerut and J. W. Phillis, Eds. Pergamon, New York, 1976. viii, 368 pp., illus. \$50.

**Prolongevity.** Albert Rosenfeld. Knopf, New York, 1976. xx, 250 pp. + index. \$8.95.

**Psychophysiology.** Stephen W. Porges and Michael G. H. Coles, Eds. Dowden, Hutchinson and Ross, Stroudsburg, Pa., 1976 (distributor, Halsted [Wiley], New York). xviii, 366 pp., illus. \$25. Benchmark Papers in Animal Behavior, vol. 6.

**Quality Assurance in Health Care.** Papers from a meeting, Boston, Nov. 1975. Richard H. Egdaahl and Paul M. Gertman, Eds. Aspen Systems Corporation, Germantown, Md., 1976. xxii, 358 pp. \$19.75.

**Radioimmunoassay of Biologically Active Compounds.** Charles W. Parker. Prentice-Hall, Englewood Cliffs, N.J., 1976. xiv, 240 pp., illus. \$18.95. Prentice-Hall Foundations of Immunology Series.

**Research and Development in the Federal Budget.** FY 1977. A Report Prepared for the Executive Officer and the AAAS Committee on Science and Public Policy. Willis H. Shapley. American Association for the Advancement of Science, Washington, D.C., 1976. x, 102 pp. Paper, \$5.50; to members, \$4.95.

**Science Brain-Twisters, Paradoxes, and Fallacies.** Christopher P. Jargocki. Diagrams by Richard Liu. Scribner, New York, 1976. viii, 184 pp. \$9.95.

**Sea Life of the Pacific Northwest.** Stefani Hewlett and K. Gilbey Hewlett. Illustrations by Greg Davies. McGraw-Hill, New York, 1976. 176 pp. \$14.95.

**Setting National Priorities.** The Next Ten Years. Henry Owen and Charles L. Schultze, Eds. Brookings Institution, Washington, D.C., 1976. xviii, 618 pp. Cloth, \$14.95; paper, \$6.95.

**Slavery and the Penal System.** J. Thorsten Sellin. Elsevier, New York, 1976. x, 202 pp. \$12.50.

**Space Science and Astronomy.** Escape from Earth. Thornton Page and Lou Williams Page, Eds. Macmillan, New York, and Collier Macmillan, London, 1976. xx, 468 pp., illus. \$13.95. *Sky and Telescope* Library of Astronomy, vol. 9.

**Spiro Mound Copper.** Henry W. Hamilton, Jean Tyree Hamilton, and Eleanor F. Chapman. Missouri Archaeological Society, Columbia, 1974. xii, 212 pp., illus. Paper, \$5. Memoir, Missouri Archaeological Society, No. 11.

**Sub-Aqua Illustrated Dictionary.** Leo Zannelli and George Skuse. Kaye and Ward, London, and Oxford University Press, New York, 1976. vi, 114 pp. \$7.95.

**Theory and Applications of Molecular Diamagnetism.** L. N. Mulay and E. A. Boudreaux. Wiley-Interscience, New York, 1976. xiv, 322 pp., illus. \$32.50.

**This Broken Archipelago.** Cape Cod and the Islands, Amphibians and Reptiles. James D. Lazell, Jr. Photographs by Martin C. Michener. Quadrangle (New York Times), New York, 1976. xii, 260 pp. \$12.50. A Demeter Press Book.

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## POSITIONS WANTED

**Biochemist (Ph.D., 1965)—Molecular Biologist.** Research includes eukaryotic and prokaryotic systems. Enzyme purification, kinetics, immobilized enzymes and nucleic acids, hybridization, DNA reassociation, membrane polymerase, DNA replication, liver regeneration, protein synthesis under stress, hormonal regulation, and steroid receptor. Undergraduate teaching, publication. Seeks teaching and/or research, R & D position. Box 31, SCIENCE. X

**Biochemist/Protein Isolation, M.S.** Sixteen years of industrial research and development experience in the biomedical field. Broad background includes protein isolation, antibody production, RID, RIA, affinity chromatography, and electrophoresis. Patents and publications. Box 32, SCIENCE. 1/21, 28

**Biologist, Ph.D., 1967.** Experience in teaching, research, and environmental planning; interested in a challenging public service position concerned with environmental quality and conservation. Box 22, SCIENCE. X

Doctorate level **Epidemiologist** (chronic disease), broad training and work experience; public health, medical, and behavioral areas; seeks position in western Europe. Curriculum vitae and publications list available. Presently residing in Holland. Box 9, SCIENCE. X

**Medical Entomologist—Parasitologist, M.S., Ph.D., M.P.M.P.H.:** experience in teaching, research, and administration; publications; 12 years of overseas experience in tropical medicine research. Desires senior academic position. Box 33, SCIENCE. 1/21, 28; 2/4, 11

**Pharmacologist, Ph.D. 1973.** Postdoctoral, teaching, and research experience. Strong background in membrane transport and drug toxicity studies. Publications. Seeks research and/or teaching position. Box 34, SCIENCE. X

**Pharmacologist, Ph.D. 1973.** Inhalation toxicology, 5 years with major company. Three years of postdoctoral work in application of GC-MS to drug metabolism studies. Desires opportunity for professional growth in a research position in industry or government. Box 35, SCIENCE. X

## POSITIONS OPEN

### ACADEMIC PATHOLOGIST

Faculty positions are available in the Department of Pathology, University of California San Francisco, for a Board-certified or Board-eligible (anatomical pathology or anatomical pathology and clinical pathology) pathologist with an interest in modern pathology and a desire to carry on original and significant research. Duties will consist of supervising post-mortem examinations, assisting in surgical pathology, and teaching residents and graduate and medical students. Opportunity is available to develop or expand investigation into mechanisms of disease. California medical license or eligibility required. Address curriculum vitae to: **Search Committee, Department of Pathology, University of California, San Francisco, Calif. 94143. An Equal Opportunity/Affirmative Action Employer.**

**ANATOMISTS.** Two positions: one to teach neuroscience and the other gross anatomy. Assistant professor level; Ph.D. or M.D. with postdoctoral research and teaching experience required. Candidates must demonstrate ability to develop fundable, independent research program. Preference will be given to persons with research interests in neuroendocrinology, neurochemistry, cellular neurobiology, chronobiology, immunology, or biochemical embryology. Applicants should send a curriculum vitae, bibliography, selected reprints, research plans, and names of three referees to: **Dr. John E. Pauly, Professor and Chairman, Department of Anatomy, University of Arkansas for Medical Sciences, Little Rock, Arkansas 72201. An Equal Opportunity/Affirmative Action Employer.**

**ANATOMIST, ASSOCIATE PROFESSOR:** Candidates must have demonstrated research and teaching ability. Position will require some teaching in gross anatomy and neuroanatomy. Preference given to a neuroscientist. Department has well-equipped research facilities and a developing graduate program. Salary is very competitive. Send curriculum vitae, bibliography, and phone numbers of three references by 15 February 1977 to: **Dr. W. Seliger, Department of Anatomy, Texas Tech University School of Medicine, Lubbock, Texas 79409. An Equal Opportunity Employer.**

### UNIVERSITY OF ALASKA Division of Life Sciences

- (1) **Aquatic Biologist or biological limnologist** at the assistant professor level to teach limnology, freshwater invertebrates, and introductory entomology; expected to develop a research program preferably involving secondary production. Preference will be given for postdoctoral, northern, and/or nonuniversity experience in the field.
- (2) **Botanist** especially in the area of terrestrial cryptogamic or plant population biology at the assistant professor level to teach introductory botany and advanced botany courses and participate in the general biology course; expected to develop a research program in area of specialty but immediate needs are to participate in an integrated taiga ecosystem program. Preference will be given for postdoctoral and northern environmental research experience.

Applicants should have the Ph.D. by appointment date (August to September 1977). Submit curriculum vitae, reprints of publications, transcripts, statement of research interests, and have three letters of reference sent as follows:

For aquatic biologist: **Dr. W. E. Barber, Wildlife and Fisheries Program;** for botanist: **Dr. F. S. Chapin, Institute of Arctic Biology, University of Alaska, Fairbanks, Alaska 99701.**

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**ASSISTANT PROFESSOR, Ph.D.** Full-time faculty research position for the Department of Psychiatry, Yale University; available 1 July 1977.

Position requires experience in single cell recording (acute and chronic), microiontophoresis, and other related electrophysiological and pharmacological techniques as applied to the CNS. At least 2 years of postdoctoral experience in the above areas. Salary commensurate with experience and qualifications. Send résumé and names of three references to: **Gary L. Tischler, M.D., Chairman, Search Committee, Yale University School of Medicine, Department of Psychiatry, 25 Park Street, New Haven, Connecticut 06519.**

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## POSITIONS OPEN

**ASSISTANT EPI-STAT DIRECTOR OF CANCER CENTER.** Immediate opening for senior faculty person in expanding statistics-epidemiology program. Should have strong background in biostatistics and/or epidemiology, distinguished record of scholarship, and major interest in applied statistics. Includes some administration and teaching. Résumé to **Dr. Anita Bahn, Associate Director, University of Pennsylvania Cancer Center, 36th and Hamilton Walk/GA, Philadelphia, Pa. 19104; telephone: 215-243-4890.**

**ASSOCIATE OR ASSISTANT MEDICAL DIRECTOR** for national health foundation. Advanced degree desirable but peer group involvement with physicians and scientists may be accepted. Duties will include grants and contracts management, editorial and creative writing functions, legislative and federal interactions, and developing interface between medical department and volunteers connected with the foundation. Opportunities available for imaginative and innovative program development, particularly in the biostatistical area. The individual selected will be responsible to the medical director. Salary open. Position available immediately. For further information, send résumé, a list of at least four references, and letter detailing interests and career objectives to: **Medical Director, Cystic Fibrosis Foundation, 3379 Peachtree Road, NE, Atlanta, Georgia 30326.**

**ASSISTANT PROFESSOR** position is open for broad-based human anatomist with teaching experience (1977-78). Apply to the **Department of Anatomy, Philadelphia College of Osteopathic Medicine, 4150 City Avenue, Philadelphia, Pennsylvania 19131. An Equal Opportunity Employer.**

**ASSISTANT PROFESSORSHIP.** Renewable probationary appointment available 1 July for an **EXPERIMENTAL PLANT OR ANIMAL ECOLOGIST**, preferably working at the population or community level. The appointee will be expected to develop a strong graduate research program and to participate in investigation-oriented undergraduate instruction. Send full curriculum vitae by 1 March, with statement of research and teaching interests, reprints of published research, and names of three referees to: **Ecology Search Committee, Department of Biological Sciences, Brock University, St. Catharines, Ontario, Canada L2S 3A1.**

The Department of Neurology at the UCLA School of Medicine is seeking qualified applicants for a full-time academic position at the **ASSISTANT OR ASSOCIATE PROFESSOR** level. Applicants should have demonstrated abilities in clinical neurology and neuropathology. Any interested applicant should submit a curriculum vitae and reprints to **Richard D. Walter, M.D., Chairman of the Department of Neurology, Reed Neurological Research Center, University of California, Los Angeles, California 90024. UCLA is an Equal Opportunity/Affirmative Action Employer and is desirous of receiving applications from minorities and women candidates as well as other qualified persons.**

**ASSISTANT PROFESSOR.** The Division of Nutritional Sciences at Cornell University is searching for a human nutritionist for a teaching and research position. Teaching responsibility will involve coordination of a laboratory course in nutrition. Demonstrated ability in a research area related to human nutrition is essential. Applicants should send a résumé and arrange for three letters of reference to be sent to **M. C. Nesheim, Director, Division of Nutritional Sciences, Cornell University, 124 Savage Hall, Ithaca, New York 14853.** The deadline for receipt of applications is 15 February 1977.

*Cornell University is an Affirmative Action/Equal Opportunity Employer.*

Two **POSTDOCTORAL POSITIONS** in the Division of Nutritional Sciences at Cornell University are immediately available in nutritional biochemistry with emphasis in amino acid metabolism and in mineral metabolism. Interested individuals should inquire as to availability and send curriculum vitae to **M. C. Nesheim, Director, Division of Nutritional Sciences, Cornell University, Ithaca, New York 14853.**

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## POSITIONS OPEN

### UNIVERSITY OF ALBERTA Department of Anatomy Edmonton, Canada T6G 2H1

The Department invites applications for a position as

#### ASSISTANT PROFESSOR

The appointment will commence 1 July 1977. The salary will not be less than \$17,000 per annum and will be dependent upon qualifications and experience. Preference will be given to applicants holding a medical degree or Ph.D. from a Canadian or British University. Teaching experience in histology/neuroanatomy is desirable but not essential. In addition to participation in the undergraduate teaching programme, the successful applicant will be expected to pursue an active research project. Research facilities are good and the Department is located in a new building.

Applications, which should include a full curriculum vitae, a statement of teaching and research experience and interest, and the names of three references, should be sent by 1 April 1977 to Dr. T. S. Leeson, Chairman, Department of Anatomy.

The Department of Biology and Institute of Molecular Biology, University of Oregon, have an opening for an **ASSISTANT (OR ASSOCIATE) PROFESSOR** to teach cell biology and collaborate in existing research programs in molecular biology. Initial appointment is for 2 years, with a 3-year extension possible. For application forms and further information write to the **Search Committee, Institute of Molecular Biology, University of Oregon, Eugene, Oregon 97403**, before 1 March 1977. *The University of Oregon is an Equal Opportunity/Affirmative Action Employer. Title IX Institution.*

### THE UNIVERSITY OF NEW MEXICO

The Department of Anatomy invites applications for the position of **ASSISTANT PROFESSOR**. Successful candidates should have teaching capabilities in histology and neuroanatomy as well as competence in gross anatomy. An active and current research program in the area of cell biology and development is desired. Send curriculum vitae, bibliography, names of three references, and a statement of research plans to: **A. J. Ladman, Department of Anatomy, The University of New Mexico, Albuquerque, N.M. 87131**. *An Affirmative Action/Equal Opportunity Employer.*

Applications are invited for a tenure track **ASSISTANT PROFESSORSHIP IN APPLIED PHYSICS** for fall 1977. Candidates with industrial research interests in solid state physics or polymer physics with particular emphasis on materials research are encouraged to apply. Successful candidates are expected to develop and teach undergraduate and graduate courses in physics and applied science. Opportunities for collaboration with materials chemists and polymer scientists will be available. One or more years of postdoctoral research is desirable. Send letters of application, curriculum vitae, and letters of support to: **Director, Division of Earth and Physical Sciences, The University of Texas at San Antonio, San Antonio, Texas 78285**. Deadline for receipt of applications will be 15 March 1977. *The University of Texas at San Antonio is an Equal Employment/Affirmative Action Employer.*

#### ASSISTANT PROFESSOR-BIOCHEMISTRY

Regular faculty position in the Department of Chemistry. Well-equipped research laboratory available. Postdoctoral experience required. Interest in immunochemistry, cell surface phenomena, or fast reaction enzyme kinetics preferred. Send curriculum vitae to **Earl Frieden, Department of Chemistry, Florida State University, Tallahassee, Fla. 32306**. *Equal Opportunity Employer.*

#### ASSISTANT PROFESSOR: BIOCHEMISTRY

A faculty position at the rank of assistant professor will be available 1 July 1977. The primary requirement is promise of excellence in teaching and research, but preference will be given to applicants with demonstrated competence in some aspect of the molecular genetics of eukaryotes.

Applicants should submit a curriculum vitae and list of publications, a brief description of their proposed research, and the names of three references to **Chairman, Department of Biochemistry, Duke University Medical Center, Durham, North Carolina 27710**. *Duke University is an Equal Opportunity/Affirmative Action Employer.*

## POSITIONS OPEN

### ASSISTANT PROFESSOR OF BIOLOGY

Undergraduate liberal arts college with emphasis on teaching seeks biologist with recent Ph.D. who can teach introductory biology course, comparative morphogenesis, and general vertebrate physiology. Send curriculum vitae and transcripts to: **Dr. Thomas A. Hopkins, Vice-President, Carlow College, 3333 Fifth Avenue, Pittsburgh, Pa. 15213**. *An Equal Opportunity/Affirmative Action Employer.*

Skidmore College seeks three **ASSISTANT PROFESSORS OF BIOLOGY** beginning September 1977. Ph.D. required. Two of the applicants should be competent to teach in three of the following areas: animal behavior, cell physiology, development, genetics, nursing microbiology, plant physiology, methods of teaching (and supervision of apprentice teachers). To participate also in the team-teaching of appropriate portions of the core curriculum (principles of biology, population biology, organismal biology, cell biology) and to share in supervising student research. The third applicant is sought to fill a 1-year opening for an animal physiologist. Additional duties as described above. Submit curriculum vitae and a statement of personal goals by 15 March 1977 to: **Dr. Denton W. Crocker, Skidmore College, Saratoga Springs, N.Y. 12866**. We regret that we may not be able to answer all applications. *An Equal Opportunity/Affirmative Action Employer.*

### ASSISTANT PROFESSOR OF BIOLOGY AT UCLA

The Department of Biology invites applications from highly qualified individuals with a commitment to teaching and research in plant morphology. Teaching responsibilities include participation in the introductory biology course, and advanced undergraduate course in plant morphology plus advanced courses and seminars in the area of the applicant's research interests. Research may range from cellular to organismic approaches involving morphogenetic problems in multicellular systems. A curriculum vitae, list of publications, names of three references to be used for letters of recommendation, and a summary of research interests should be sent to: **Chairman, Search Committee, Department of Biology, University of California, Los Angeles, Calif. 90024**. Closing date for application is 1 March 1977.

*An Equal Opportunity/Affirmative Action Employer*

**ASSISTANT PROFESSOR OF CHEMISTRY.** A regular appointment effective 1 July 1977. Excellent opportunity for someone interested in a career which emphasizes both research and undergraduate teaching. Applicants must have a Ph.D. and be able to teach organic chemistry and also other courses in the curriculum. Please send a résumé and brief description of your teaching and research ideas to: **Chairman, Department of Chemistry, Amherst College, Amherst, Mass. 01002**. Transcripts and three letters of recommendation must also be received by 4 February 1977 if your application is to be considered. *We are an Equal Opportunity/Affirmative Action Employer.*

**ASSISTANT PROFESSOR IN PHARMACOLOGY.** Applications are invited for a research/teaching position in the Department of Pharmacology, Yale University School of Medicine. Preferred qualifications include a Ph.D. degree with experience in nucleic acid biochemistry, and a desire to work closely with clinicians interested in pathogenesis and treatment of malignant disease. Submit résumé to **Dr. Joseph R. Bertino, Department of Pharmacology, Yale University School of Medicine, New Haven, Connecticut 06510** by 15 February 1977. *Yale University is an Equal Opportunity Employer. Women and minorities are encouraged to apply.*

The Department of Neurosciences and Institute for Information Systems, University of California, San Diego, invites applications for a position as **ASSISTANT PROFESSOR IN RESIDENCE** to become available in March 1977. Salary: \$20,900. The candidate (Ph.D.) must be experienced in electron microscopy, thin sectioning, and freeze-fracture, as applied to the nervous system; and experienced in quantitative analysis using experimental means to alter membrane form and function. Experience in physiological psychology is desirable and experimental ingenuity in investigating interdisciplinary problems is essential. Send curriculum vitae/bibliography to **Search Secretary, Neurosciences Department, M-008, University of California, San Diego, La Jolla, Calif. 92093**. Closing date is 15 February 1977. *The University of California, San Diego is an Equal Opportunity/Affirmative Action Employer. Women and minorities are encouraged to apply.*

## POSITIONS OPEN

### IOWA STATE UNIVERSITY DEPARTMENT OF ZOOLOGY

Two or more positions, beginning September 1977, are open at the rank of **ASSISTANT PROFESSOR** for persons with interests from among the following areas: cell physiology, ecological physiology, molecular and developmental biology, neurobiology, and evolutionary biology. Candidates must have a Ph.D. and have demonstrated excellence in research. Postdoctoral experience is highly desirable. Responsibilities include the establishment of a vigorous research program and teaching at the undergraduate and/or graduate levels. Applicants should submit, by 15 February, a detailed curriculum vitae, three letters of recommendation, and a letter describing their research interests and plans to **J. R. Redmond, Department of Zoology, Iowa State University, Ames, Iowa 50011**.

*Equal Opportunity/Affirmative Action Employer*

### UNIVERSITY OF MONTANA ZOOLOGY DEPARTMENT

The Department of Zoology is inviting applications for two **assistant professorships**. One of these positions is for a **vertebrate biologist** with research experience and teaching interests in etho-ecology or evolutionary biology and who is qualified to teach ornithology. Applicants who also have interest and expertise in mammalogy, zoogeography, wildlife biology, curating a large vertebrate museum or environmental physiology are preferred. The other position is for a **biological limnologist** with specialization in an area such as secondary productivity, zooplankton dynamics, community structure or invertebrate zoology. Both appointees will be expected to conduct research of high quality, obtain outside funding for research, and to participate actively in the graduate program. Qualified individuals should submit a curriculum vitae, statement of professional goals, transcripts, three letters of recommendation, and reprints before 15 February 1977 to the **Vertebrate Biology Search Committee or Limnology Search Committee, Department of Zoology, University of Montana, Missoula, Montana 59801**. *An Equal Opportunity/Affirmative Action Employer.*

**ASSOCIATE PROFESSOR OF PHYSICS.** Candidates should have proven research competence in theoretical space physics and interests compatible with space research programs currently existing in the department. These include solar and galactic cosmic rays, gamma-ray astronomy, and magnetospheric physics. Teaching and the ability to guide and support students for advanced degrees is an important facet of this position. Qualifications: Ph.D. and publications in refereed journals. Application deadline: 1 March 1977; position begins 1 September 1977. Send résumé and letter to **Dr. Robert E. Houston, Jr., Chairman, Physics Department, University of New Hampshire, Durham, N.H. 03824**. *The University is an Affirmative Action/Equal Opportunity Employer.*

#### BACTERIOLOGIST/IMMUNOLOGIST

A teaching position is open at the rank of assistant or associate professor to teach courses in bacteriology, immunology, and environmental science for non-majors. The position involves instruction and advising at the undergraduate level. Research interest is desirable. Ph.D. required or nearly completed. Please send a letter of application, curriculum vitae, complete official transcripts of all college work, and arrange to have at least three letters of recommendation sent to: **Dr. John Housley, Dean of Academic Affairs, Linfield College, McMinnville, Oregon 97128**. *An Affirmative Action/Equal Opportunity Employer.*

## BIOLOGY FACULTY

With specialty in aquatic plant biology and plant physiology needed for fall 1977. Ph.D. required. Will teach courses in specialty area and participate in teaching sections of general biology. Demonstrated teaching ability, publications, and/or evidence of other scholarly contributions is desired. Send résumé to **Dr. Norman J. Norton, Chairman, Department of Biology, Ball State University, Muncie, Indiana 47306**. Applications requested by 15 February 1977.

*Ball State University practices Equal Opportunity in Education and Employment.*



## POSITIONS OPEN

### YORK UNIVERSITY

A position in **behavioural ecology** is expected to become available at York University for September 1977. Applicants should have demonstrated ability in independent research and be willing to undertake both graduate and undergraduate teaching. Send applications with curriculum vitae and the names of at least three referees to **Professor K. G. Davey, Department of Biology, York University, Downsview, Ontario, Canada M3J 1P3**, before 31 March 1977.

**BIOLOGY FACULTY** position available. Plant scientist with active research interests in such fields as physiological ecology or functional anatomy and development. Duties begin 1 September 1977. Expected to develop a strong research program and participate in undergraduate and graduate teaching. Ph.D. is required and appointment will probably be made at the assistant professor level. Send applications with a curriculum vitae and the names of three referees to **Dr. A. E. R. Downe, Department of Biology, Queen's University, Kingston, Ontario, Canada K7L 3N6**.

**BOTANIST:** Position for assistant professor open September 1977. Duties are teaching field-oriented vascular plants course, cryptogamic botany, seminar in area of interest, participation in economic botany and team-taught courses in ecology and cell or human biology; administration of summer aquatic biology program; care of greenhouse. Send curriculum vitae and names of three references by 28 February to **Dale L. Hoyt, Chairperson, Department of Biology, Earlham College, Richmond, Indiana 47374**. *Earlham College is an Equal Opportunity/Affirmative Action Employer.*

### CELL BIOLOGIST

Assistant professor of biology. Teach cell biology, cell physiology, and plant physiology. Training in non-vascular plants desirable. Position available 1 September 1977. Salary dependent on qualifications. Send résumé, complete transcript, and three letters of reference by 15 February 1977 to:

**Dr. Arthur Gee, Chairman  
Biology Department  
Pacific Lutheran University  
Tacoma, Wash. 98447**  
*Equal Opportunity/MF Employer*

### CELL AND MOLECULAR BIOLOGIST

Applications are invited for a faculty position in mammalian cell and molecular biology, beginning September 1977. Preference will be given to candidates with postdoctoral experience and who have demonstrated ability to conduct independent research. Rank and salary open. The successful candidate will be expected to participate in the teaching program in cell and molecular biology, and in the supervision of M.S. and Ph.D. students. Interested applicants should send a curriculum vitae and the names of three references to **Dr. S. K. Shapiro, Head, Department of Biological Sciences, University of Illinois, Box 4348, Chicago, Illinois 60680**. Closing date, 15 February 1977. *The University of Illinois is an Affirmative Action/Equal Opportunity Employer.*

**CHAIRPERSON** of the Department of Geology and Geological Engineering. To provide organization and leadership to the department, teach courses, and attract and conduct research. Ph.D. required; proven administrative ability, and/or potential; successful teaching and research experience. Application deadline: 15 March. Starting date: fall term 1977. Salary: open. Contact and send curriculum vitae to: **Dr. Samuel L. DeLeeuw, Chairman, Search Committee, School of Engineering, University of Mississippi, University, Miss. 38677**. *Equal Opportunity Employer.*

**CLINICAL CHEMIST**, assistant or associate professor, **California Polytechnic State University, San Luis Obispo, California 93407**. Effective fall 1977. Ph.D. degree required. Prefer candidates with background in biochemistry, medical lab experience, and California Professional License or equivalent. In addition to teaching courses in clinical chemistry, duties will include courses in undergraduate biochemistry and general chemistry. Closing date is 15 February 1977. Please have four letters of recommendation supplied by references. Send résumé including a statement of professional goals to **Dr. Harold J. Watson, Acting Head, Chemistry Department, Affirmative Action/Equal Opportunity/Title IX Employer.**

## POSITIONS OPEN

### CHAIRPERSON

**University of South Florida  
College of Medicine  
Department of Comprehensive Medicine**

Nominations and applications are sought for the position of chairperson of the Department of Comprehensive Medicine of the College of Medicine and director of the Medical Clinics of the Medical Center of the University of South Florida.

Responsibilities: The chairperson is responsible to the dean of the College of Medicine. Responsibilities include the direction of the Department of Comprehensive Medicine and the supervision of its faculty in education and research. As director of the Medical Clinics the chairperson is responsible for the personnel and patient care activities of a large ambulatory care unit.

Qualifications: Applicants should have earned an M.D. degree and have had substantial experience in medical education, public health, and research.

Applications: Applications from minorities and women are encouraged. Forward nominations or letters of interest with curriculum vitae by 1 February 1977 to:

**Roy H. Behnke, M.D.  
Chairman, Search Committee  
Department of Internal Medicine  
Box 19  
College of Medicine  
12901 North 30 Street  
University of South Florida  
Tampa, Florida 33612**

*The University is an Affirmative Action/Equal Opportunity Institution.*

### CHAIRMAN OF DEPARTMENT OF ANATOMY

Applications are invited for the position of chairman of the Department of Anatomy. The University of Western Ontario. Undergraduate courses are provided for programs in medicine, dentistry, nursing, allied health disciplines, honors science, and physical education. Graduate program at M.Sc. and Ph.D. levels are offered. The department has an active research program.

Applications received until 31 March 1977, and directed to:



**Dr. D. Bocking, Dean  
Faculty of Medicine  
The University of Western Ontario  
London, Ontario, Canada N6A 5C1**

The University of Pennsylvania seeks an individual with strong research and teaching qualifications and administrative capabilities to **CHAIR** the Department of Biology of the newly reorganized Faculty of Arts and Sciences. The chairperson's duties will include (i) establishing an outstanding research and training program in a field that will complement and help join current strengths in cellular, developmental, and population biology and (ii) providing leadership in the educational programs of the biology department. *The University of Pennsylvania is an Equal Opportunity Employer.* Address résumé and inquiries to:

**Professor Ward Goodenough  
Chairman, Search Committee for Biology  
Department of Anthropology  
University of Pennsylvania F1  
Philadelphia, Pa. 19104**

### DEAN OF THE SCHOOL OF SCIENCE BROOKLYN COLLEGE

The School is composed of eight academic departments (biology, chemistry, computer and information science, geology, health science, mathematics, physical education, physics) and a number of related institutes. Requirements: Ph.D. in a scientific discipline and appropriate academic experience. Some administrative experience preferred. The dean must be the educational leader of the School, an able and forceful administrator, capable of working out the details of a complex budget. Salary and fringe benefits are excellent. Applications must be received by 15 February 1977 and should be addressed to:

**Professor Edward L. Ochsenschlager  
Search Committee  
Department of Classics  
Brooklyn College, CUNY  
Brooklyn, N.Y. 11210**

*An Affirmative Action/Equal Opportunity Employer*

## POSITIONS OPEN

### SYDNEY UNIVERSITY (AUSTRALIA)

**invites applications for  
CHAIR OF CHEMISTRY  
(ORGANIC CHEMISTRY)**

Which became vacant on the death of Professor E. Ritchie.

Further information from the Registrar, University of Sydney, N.S.W. 2006, Australia.

### CHEMICAL SAFETY OFFICER

Individual with background in industrial hygiene and chemistry wanted to implement safety and health standards in carcinogenesis research facility. Responsibilities will include studies of existing practices and development of improved safety protocols. Skill in oral and written communication are important.

Competitive salary and company benefits will be offered. Complete résumés and salary requirements may be addressed to: **Marian Knill, Recruitment Manager:**

**Litton Bionetics, Inc.  
FREDERICK CANCER RESEARCH CENTER  
Box B  
Frederick, Maryland 21701**  
*An Equal Opportunity Employer, M/F*

**DEAN:** Ohio University invites nominations and applications for the position of dean of the College of Arts and Sciences. The College, of which the dean is the chief administrative officer, is the largest academic unit of the University with 18 departments. Nominees and applicants should have a distinguished record of intellectual, academic, and administrative achievement. Deadline for applications and nominations is 28 February 1977, and should be forwarded to: **Professor Helen W. Worstell, Chairperson, Arts and Sciences Search Committee, 303 Cutler Hall, Athens, Ohio 45701**. *Ohio University is an Equal Opportunity/Affirmative Action Employer. Minority group members and women are encouraged to apply.*

### DEAN COLLEGE OF HUMAN DEVELOPMENT

The College of Human Development at The Pennsylvania State University is seeking candidates for the position of dean.

The College of Human Development, a multi-professional and multi-disciplinary college, conducts education and research in a broad range of related human service professions and related scientific fields: health services planning, social welfare and community development, the administration of justice, individual and family development over the life span, nursing, nutrition, environmental planning, food service and housing administration, and others.

Candidates are expected to demonstrate academic and/or professional excellence in any of the disciplines which comprise the field of human development, and a commitment to foster multi-disciplinary approaches to the problems of society.

Applications with résumés plus names of references or nominations should be sent to:

**Paul O. Woolley, Jr., M.D.  
Chairman of Search Committee  
114 Henderson Human Development  
Box S  
University Park, Pa. 16802**

Applications are requested by 1 February 1977.

*An Equal Opportunity/Affirmative Action Employer*

### DIRECTOR, CENTER FOR MARINE STUDIES

The University of Maine at Orono seeks a director of its newly created Center for Marine Studies. The director will be responsible for administering the Center which has graduate education, research, and coastal advisory services as the primary functions. The director will also administer the University of Maine Sea Grant program and the activities of the Ira C. Darling Marine Research Center. Rank and salary open, depending upon qualifications. Apply by 15 February 1977.

Write and send curriculum vitae to:

**Dr. Frederick E. Hutchinson  
Vice President for Research and Public Service  
21 Coburn Hall  
University of Maine  
Orono, Maine 04473**

*The University of Maine is an Equal Employment Opportunity Institution.*



## POSITIONS OPEN

DEAN  
COLLEGE OF SCIENCE  
Southern Illinois University at Carbondale  
Carbondale, Illinois 62901

Southern Illinois University at Carbondale invites applications for the position of dean of the College of Science. Applicants should qualify for a tenured appointment at the rank of professor in one of the departments of the college (botany, chemistry and biochemistry, geology, physics and astronomy, microbiology, physiology, or zoology), demonstrate academic leadership potential, and provide evidence of scholarly achievements in teaching and research. Previous administrative experience is desirable. The appointment will be effective 1 July 1977.

Completed applications should be received by 15 March 1977 to receive full consideration. Applicants should submit a cover letter of personal philosophy, a complete résumé, and have three letters of reference sent to:

Walter E. Schmid, Chairman  
College of Science Dean Search Committee  
College of Science, Neckers A162  
Southern Illinois University at Carbondale  
Carbondale, Illinois 62901

*An Equal Opportunity/Affirmative Action Employer*

**THE OHIO STATE UNIVERSITY, DIRECTOR, UNIVERSITY ENERGY PROGRAM.** Nominations and applications are invited for the position of director of The Ohio State University Program for Energy Research, Education, and Public Service. This university-wide program involves faculty members in engineering and the physical sciences, the environmental sciences, and the social and behavioral sciences. Responsibilities of the director will include the coordination of on-going activities as well as the development of new research areas and other energy-related efforts. Candidates for this position are expected to have a Ph.D. or equivalent, leadership qualifications, a significant record of research and professional activity, and knowledge of the energy field nationally. Applicants must be able to qualify for an academic appointment at the full professor level in the relevant department. The appointment will be effective 1 July 1977. Applications with supporting materials should be received by 1 March 1977 in order to receive full consideration. Salary is open. Submit résumés to: **Dr. Jules B. LaPidus, Vice Provost for Research and Dean, The Graduate School, The Ohio State University, Columbus, Ohio 43210.** *The Ohio State University is an Equal Opportunity/Affirmative Action Employer.*

### ELECTROPHYSIOLOGIST-NEUROANATOMIST

Seeking candidate with Ph.D. or M.D. degree to fill a position in teaching and research as assistant professor of anatomy in the Department of Neurology. Candidate must have background in the physiology and anatomy of the motor system, experience in single unit and multiunit recording techniques in both acute and chronic animal preparations, experience in training animals for behavioral tasks, and experience in neuroanatomical tracing techniques. Send curriculum vitae to **Sid Gilman, M.D., Department of Neurology, Columbia University, 630 West 168 Street, New York, N.Y. 10032.**

### FACULTY POSITIONS-BIOLOGY

The University of Houston is seeking applications for the following faculty positions for the fall 1977 academic year:

- (1) **Experimental marine biologist** to be involved with the developing marine biology program on Galveston Island, with preference for an experienced researcher in the area of marine or estuarine ecology. The level of the position will be commensurate with the experience and professional attainment of the successful candidate.
- (2) **Animal physiologist** at the junior level with research interests in cardiovascular physiology.
- (3) **Plant physiologist** at the junior level with research interests in photosynthesis, preferably in marine systems.
- (4) **Microbiologist** at the junior level with an interest in teaching medical microbiology.

Successful candidates will be expected to pursue rigorous research programs and contribute to the undergraduate and graduate teaching programs of the department. Submit curriculum vitae and three letters of recommendation to **E. H. Bryant, Chairman, Department of Biology, University of Houston, Houston, Texas 77004.** *The University is an Equal Opportunity/Affirmative Action Employer.*



## THE WORLD HEALTH ORGANIZATION

invites applications for a post of Scientist in the Office of Mental Health, WHO Headquarters, Geneva, Switzerland.

The incumbent of the post will act as Project Manager for the WHO Research Project on Community Response to Alcohol-related Problems, which aims to develop a long-term multinational collaborative programme. The main activities to be undertaken will be (1) a study of epidemiological and psychosocial data on alcohol-related problems (2) assessment of community resources for dealing with such problems (3) planning for more effective community responses.

Applicants should have a Ph.D. degree in one of the behavioral sciences (preferably sociology or social psychology) or in psychiatry (including training in epidemiology, research techniques, statistics and data analysis). Considerable experience in research on alcohol-related problems is required and experience in cross-cultural research would be an advantage.

Interested candidates with the required qualifications should write as soon as possible, enclosing a detailed curriculum vitae and quoting reference VN P76/98, to:

The World Health Organization  
Personnel  
1211 Geneva 27  
Switzerland

Only candidates under serious consideration will be contacted.

## Applications Invited for AAAS Congressional Science Fellowships

The American Association for the Advancement of Science invites applications for the fifth year of its Congressional Science and Engineering Fellow Program. (See *Science*, 7 January 1977, page 55)

The Program selects postdoctoral level to midcareer scientists and engineers to spend one year working in some area of Congress. In the past four years, 19 AAAS Fellows have been in positions in the House and Senate and the Office of Technology Assessment. Each Program year includes AAAS Fellows as well as several other Fellows selected by six or more cooperating affiliated professional societies.

The award is \$16,000 for the period of one year, beginning 1 September 1977, and includes an additional \$1000 for moving and travel expenses. Interested applicants requiring a higher stipend are encouraged to discuss their situation with the program director. The AAAS provides a two-week orientation. Each Fellow chooses his or her own assignment with guidance from the AAAS.

Candidates may apply from any physical, biological or behavioral science or field of engineering, as well as from the system sciences, public health, and other technical professional areas. Candidates must be members of the AAAS or concurrently applying for membership.

Information on the selection criteria, application procedure, and program details are available from **Dr. Richard A. Scribner, Director, AAAS Congressional Science Fellow Program, AAAS, 1776 Massachusetts Avenue, NW, Washington, D.C. 20036.** The deadline for application is 31 March 1977. Announcement of the awards will be made before 15 May 1977.



## POSITIONS OPEN

### ENGINEER-PHYSIOLOGIST

Engineer-physiologist (doctoral degree in engineering science) with several years experience in temperature regulation, circulatory and exercise physiology, experience in mathematical modeling, computer programming and instrumentation to join major university medical center. Write to: **John A. Downey, M.D., Chairman, Department of Rehabilitation Medicine, Columbia-Presbyterian Medical Center, 630 West 168 Street, New York, N.Y. 10032. Affirmative Action/Equal Opportunity Employer.**

### FACULTY POSITIONS VASSAR COLLEGE

The Department of Biology has two openings at the assistant professor level for fall 1977:

**Developmental biology.** To teach courses at the intermediate and advanced undergraduate level in embryology and modern developmental biology.

**Histology.** To teach a course in interpretive histology and histological techniques at the advanced undergraduate level.

We seek in addition for either position a strong competency in animal behavior. Strengths in physiology or molecular biology will be welcomed.

Please send letter of application, curriculum vitae, and three letters of reference to **Dr. Patricia Johnson, Chairman, Department of Biology, Vassar College, Poughkeepsie, N.Y. 12601.**

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### FACULTY POSITIONS DIVISION OF PHYSICAL OCEANOGRAPHY

The University of Miami's Rosenstiel School of Marine and Atmospheric Science seeks to strengthen its program in physical oceanography by establishing two new faculty positions. Competence is desired in research and graduate teaching, with an emphasis on dynamic analysis and modeling. The positions are tenure earning and may be filled at any level, depending on the experience of the applicants. Inquiries should be directed to **Dr. John C. Van Leer, Chairman, Search Committee, Division of Physical Oceanography, Rosenstiel School of Marine and Atmospheric Science, Miami, Florida 33149.**

*An Equal Opportunity/Affirmative Action Employer.*

### FACULTY POSITIONS PHARMACOLOGY AND CLINICAL PHARMACOLOGY

The Department of Pharmacology and Therapeutics and the Section of Clinical Pharmacology at Louisiana State University School of Medicine in Shreveport have two positions open at the assistant professor to associate professor level. Qualified Ph.D. or M.D. candidates are invited to submit an application and curriculum vitae to: **Dr. Helmut M. Redetzki, Professor and Head, Department of Pharmacology and Therapeutics, Louisiana State University School of Medicine in Shreveport, P.O. Box 33932, Shreveport, La. 71130. The deadline has been extended to 1 March 1977. An Equal Opportunity Employer.**

### FACULTY POSITIONS: DEPARTMENT OF PATHOLOGY NEW YORK UNIVERSITY MEDICAL CENTER

- (1) **Surgical Pathology-Cytopathologist** to direct Cytology Services and related training programs for the Medical Center. Will participate in surgical and autopsy services part-time. Should have experience in all areas of cytologic methodology and interest in related research and development programs.
- (2) **Surgical Pathologist** with experience in electron microscopy to train residents and fellows as well as pursue own investigations. A new Joelco TEM-SEM is operational and two full-time technicians are fully funded.
- (3) **Clinical Chemistry and Toxicology Director** to supervise routine and emergency services and train residents. Research space available, opportunity to collaborate with New York City Toxicologists Medical Examiner's Office and New York University Department of Environmental Medicine.

All positions entail full academic privileges and responsibilities with rank and salary dependent on experience, scholarly achievements, and potential. Send résumé to **Vittorio Defendi, M.D., Chairman, Department of Pathology, New York University Medical Center, 550 First Avenue, New York, New York 10016. An Equal Opportunity/Affirmative Action Employer, M/F.**

## POSITIONS OPEN

### THE UNIVERSITY OF MICHIGAN FACULTY POSITION BIOLOGY/BIPHYSICS

The Division of Biological Sciences and the Biophysics Research Division invite applications for an assistant or associate professor. Responsibilities include the development of an independent research program in the general area of energy transducing reactions associated with biological membranes and participation in the research and teaching programs. Postdoctoral experience expected. Applications should include curriculum vitae, relevant reprints, a brief of future research plans, and complete names and addresses of three references sent to the address below by 15 March 1977.

**Dr. James A. Fee  
Chairman, Search Committee  
Biophysics Research Division  
Institute of Science and Technology  
University of Michigan  
2200 Bonisteel Boulevard  
Ann Arbor, Mich. 48109**

*A Nondiscriminatory, Affirmative Action Employer*

### UNIVERSITY OF CALIFORNIA, IRVINE

The University of California, Irvine, Department of Psychiatry and Human Behavior, invites applicants for full time **FACULTY POSITIONS.** M.D. degree, 3 years of accredited psychiatric residency, California licensure, and evidence of scholarly productivity required. (i) Assistant professor level, family therapy and liaison with family medicine (training in family therapy preferred); (ii) assistant professor level to coordinate undergraduate psychiatry curriculum, didactic, clinical, and cognate basic sciences at medical student level; (iii) two at assistant or associate professor level to direct inpatient and outpatient services, including clinical supervision and didactic teaching of medical students and residents in child and adult psychiatry. *Applications from all qualified candidates are welcome; minorities and women are encouraged to apply.* Send curriculum vitae and names of three references to **Dr. E. Mansell Pattison, University of California, Irvine, Calif. 92717.**

### FULL/ASSOCIATE PROFESSOR Ecology and Systematics

The Department of Biology, University of Ottawa, has an opening for an individual with a distinguished research record in ecology. Candidates should be prepared to establish a strong independent research program and to take an active role in the undergraduate (preferably botany) and graduate teaching activities of this department. Ability to teach in French or willingness to learn within a definite period is considered essential. Rank and salary commensurate with experience. Exceptional applicants at the assistant professor level will be also considered. Applicants should submit a curriculum vitae, a selection of representative reprints, and have three letters of reference sent to: **Chairman, Search Committee, Department of Biology, University of Ottawa, Ottawa, Ontario, Canada K1N 6N5. Deadline for receipt of applications is 10 March 1977.**

**HEALTH EFFECTS RESEARCH. MICROBIAL GENETICIST:** M.S./Ph.D. in microbiology. Experience working with microbial mutagenesis test systems utilizing *Escherichia coli*, *Bacillus subtilis*, *Salmonella typhimurium* and yeast *Saccharomyces cerevisiae*. Familiarity with in vitro methodology related mutagenesis testing. **BIOCHEMIST:** Ph.D./M.S. in chemistry or biochemistry. Requires experience with AHH and/or other microsomal enzyme systems. Experience with column chromatography and high pressure liquid chromatography is required. Interested applicants are invited to send current résumé, including salary history in confidence to: **T. R. Smith, Northrop Services, Inc. P.O. Box 12313, Research Triangle Park, N.C. 27511; telephone: 919-549-0611. Equal Opportunity Employer, M/F.**

### INSTRUCTOR UNIVERSITY OF MICHIGAN

Instructorship available in the Department of Biological Chemistry, 1 September 1977 to 31 August 1978, \$15,000 per year. Candidate must have three or more years of postdoctoral research experience and publications in areas related to the role of  $Ca^{2+}$  in hormonal functions. Previous teaching experience at the level of instructor or assistant professor desirable. Send résumé to **Box 36, SCIENCE. Code No. 100H0. An Equal Opportunity/Affirmative Action Employer.**

## POSITIONS OPEN

**HUMAN ANATOMY AND PHYSIOLOGY INSTRUCTOR.** Temporary appointment for 1977-78 academic year. Assignment to include two-semester human anatomy and physiology course, plus human biology or general biology. Minimum qualification M.S. in anatomy or physiology. Contact **Personnel Office, Northampton County Area Community College, 3835 Green Pond Road, Bethlehem, Pennsylvania 18017.**

The Research Institute of Pharmaceutical Sciences, School of Pharmacy, University, Miss., is seeking a **mass spectroscopist.** Candidates with a B.S. in pharmacy with a Ph.D. and subsequent experience in a life science field are preferred. Salary commensurate with experience. Send biographical data, publications, and so forth, to **Dr. Carlton Turner, Associate Director, Research Institute, School of Pharmacy, University, Miss. 38677.** Application deadline: 15 February 1977. *Equal Opportunity Employer.*

### MEDICAL ONCOLOGIST UNIVERSITY OF VERMONT

Full-time position in department of medicine at rank of assistant associate professor to participate in clinical research, teaching, and patient care. An excellent opportunity for well-trained individual to enjoy university participation in congenial community. Send curriculum vitae to **Irwin H. Krakoff, M.D., Director, Vermont Regional Cancer Center, University of Vermont, MCHV Burgess Residence, Burlington, Vermont 05401.**

*An Affirmative Action Employer*

A full-time **faculty position** for a **MICROBIOLOGIST** is available at Loyola College in Baltimore, Md. Preference will be given to candidates with a minor in botany. Duties include teaching and committee participation. Research is encouraged but not mandatory. A normal teaching load is two courses per semester plus two January term courses every 3 years. The applicant should have completed all requirements for the Ph.D. rank and salary will be commensurate with qualifications and experience. Copies of all transcripts, three letters of recommendation, and a curriculum vitae should be forwarded to: **Dr. Charles R. Graham, Jr., Department of Biology, Loyola College, 4501 North Charles Street, Baltimore, Md. 21210.** Position available 1 July 1977. *Loyola College is an Equal Opportunity/Affirmative Action Employer.*

### NEUROBIOLOGIST

The Department of Biology, Princeton University, has a position available at the assistant professor level. Candidates with research interests in neuroethology, neurophysiology, sensory processing, and neural plasticity will be given preference. Send curriculum vitae, statement of research interests, and names of four references to: **Dr. Alan Gelperin, Chairman, Neurobiology Search Committee, Department of Biology, Princeton University, Princeton, N.J. 08540. Princeton University is an Equal Opportunity/Affirmative Action Employer.**

**NEUROCHEMISTS (2), NEUROPHYSIOLOGISTS (2), NEUROANATOMIST/NEUROHISTOLOGIST (1)** to assist in neurosciences abstract writing project while continuing in present position. About 10 hours per week. Available immediately. To \$5000. Postdoctoral or advanced doctoral students may also apply. Send résumé to: **Neurosciences, P.O. Box CN-27, Princeton, New Jersey 08540.**

### NEUROSCIENTIST

Interest in autonomic nervous system. Must be familiar with neurophysiologic and neuroanatomic techniques. Salary commensurate with experience. Send résumé to **Box 18, SCIENCE.**



## POSITIONS OPEN

### NEUROPHYSIOLOGIST

A research position is available in the Department of Anatomy for a Ph.D. with experience in extra- and intracellular recording in the nervous system. Experiments will include electrophysiological analyses of spinal cord circuits and investigations of mechanisms of plasticity in the cat spinal cord. Opportunities are available to learn and to use standard neuro-anatomical techniques in connection with the neuro-physiological studies. Please send curriculum vitae to: **David Egger, Ph.D., Department of Anatomy,**

**College of Medicine and Dentistry of New Jersey  
Rutgers Medical School  
P.O. Box 101  
Piscataway, N.J. 08856**

*An Equal Opportunity/Affirmative Action Employer*

### NUTRITION SCIENCE FACULTY POSITION

Nutrition science position available 1 September at an assistant/associate professor level, depending on qualifications. Ph.D. in nutrition or a related science required. Evidence of research competence and experience in teaching preferable. Position responsibilities: teaching undergraduate and graduate courses in nutrition, nutritional aspects of disease and/or laboratory methods; develop a research program in an area such as carbohydrate or proteins with implications for human health; student advising. Nine-month appointment (36 weeks). Salary competitive and dependent on qualifications and experience. *Affirmative Action/Equal Opportunity Employer.* Applications, including curriculum vitae, reprints, and three letters of recommendation, should be postmarked by 15 March and sent to:

**Dr. Ira Wolinsky, Chairman  
Search Committee  
Nutrition Program  
Division of Biological Health  
The Pennsylvania State University  
University Park, Pennsylvania 16802**

### MEMORIAL UNIVERSITY OF NEWFOUNDLAND DEPARTMENT OF BIOLOGY OCEANOLOGIST

Applications are invited (pending budgetary approval) for the position of assistant/associate professor in biology, duties to commence 1 September 1977. The appointment will be made with the primary responsibility to teach and develop a new undergraduate course in introductory oceanology, this forming part of a new Marine Biology Program presently being introduced at the honours level. Candidates must have a background in physical and chemical as well as biological oceanology, and the successful applicant will be expected to develop a research program in some aspect of oceanology. Applicants should submit a full curriculum vitae and names of three referees to **Dr. G. Robin South, Head, Department of Biology, Memorial University of Newfoundland, St. John's, Newfoundland, Canada A1C 5S7,** by 1 March 1977.

### POSTDOCTORAL FELLOWS

Fellowships available at Brown University under NRSA training program in diabetes, insulin action and secretion from the NIH to work in experimental and clinical studies with the faculty listed:

- (1) Mechanism of insulin action on metabolism and membrane transport—**J. Fain, Ph.D.; F. Butcher, Ph.D.; M. Czech, Ph.D.; and G. Clowes, M.D.**
- (2) Hybrid artificial pancreas—**P. Galletti, M.D., Ph.D.**
- (3) Insulin resistance; obesity, trauma, and infection—experimental and clinical studies—**M. Czech, Ph.D.; G. Clowes, M.D.; J. Coleman, Ph.D.; and A. Coleman, Ph.D.**
- (4) Role of insulin in maturation and the development of glucose control—**R. Schwartz, M.D.; W. Oh, M.D.; and K. Adamson, M.D., Ph.D.**

Also, predoctoral students interested in these areas and in obtaining formal training in biochemistry and cell biology leading to the Ph.D. degree are invited to write for information.

Inquiries should be directed to any of the individuals listed above or to **Dr. John N. Fain, Division of Biology and Medicine, Brown University, Providence, Rhode Island 02912.**

*Brown University is an Equal Opportunity/Affirmative Action Employer.*

21 JANUARY 1977

## POSITIONS OPEN

### NEUROPHYSIOLOGIST OR NEUROPHARMACOLOGIST

Faculty positions for neuroscientists at intermediate levels (assistant or associate professor) with at least 5 years of experience, post-Ph.D. or -M.D. degree, and demonstrated records of accomplishment in CNS integrative mechanisms. Expertise with methods of intracellular neuronal recording and iontophoresis is of interest. Opportunities for interaction with cardiovascular, renal, and endocrine research groups are available. Send curriculum vitae, a description of current research program, and have three letters of reference sent to:

**Dr. Alvin Brodich, Chairman  
Department of Physiology and Pharmacology  
Bowman Gray School of Medicine of  
Wake Forest University  
Winston-Salem, North Carolina 27103**

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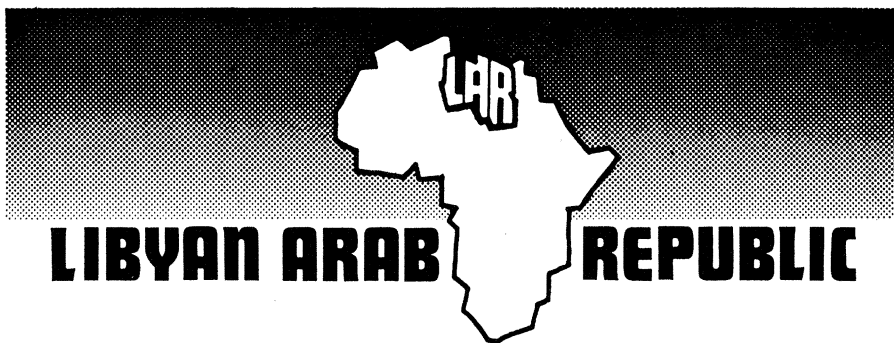
## POSITIONS OPEN

**POSTDOCTORAL FELLOWS** for work on vascular smooth muscle (intact and cultured cells) 1977-1980. Two positions available immediately:

(1) **Metabolic regulation** (Dr. Richard Odessey) and

(2) **Electrophysiology** (Dr. Nick Sperelakis). Send résumé and one letter of reference to: **Dr. Richard Odessey, Department of Physiology, Jordan Hall, University of Virginia Medical Center, Charlottesville, Va. 22901. An Equal Opportunity/Affirmative Action Employer.**

**POSTDOCTORAL POSITION** possibly leading to faculty research position at UCLA School of Medicine. Available immediately. Ph.D. in human genetics or biochemistry with experience and skills in biochemistry and the use of cultured lymphocytes. Send curriculum vitae to **Dr. S. D. Cederbaum, Mental Retardation Research Center, 760 Westwood Plaza, Los Angeles, Calif. 90024. An Equal Opportunity Employer.**



**ALFATEH UNIVERSITY  
FACULTY OF VETERINARY MEDICINE  
P.O. BOX 4281  
TRIPOLI  
LIBYAN ARAB REPUBLIC**

Applications are invited for teachers of the following subjects in the Department of Preclinical Studies:

Veterinary Anatomy  
Veterinary Histology and Embryology  
Veterinary Biochemistry  
Veterinary Sanitation and Hygiene  
Nutritional Biochemistry  
Animal Breeding

All instructions are in the English language.

Applicants should possess a veterinary (or equivalent) degree from a recognized university, and a Ph.D. in some branch of their respective discipline. Salary range from 3120 to 5760 Libyan dinars per annum (1 L.D. = U.S. \$3.3 approximately) plus a housing allowance of 100 L.D. monthly.

Applications and further details should be sent to:

**The Dean  
Faculty of Veterinary Medicine  
Alfateh University  
P.O. Box 4281  
Tripoli  
Libyan Arab Republic**



## POSITIONS OPEN

### PHARMACOLOGY

The Department of Pharmacology and Therapeutics, Schools of Medicine and Dentistry, State University of New York at Buffalo, invites applications for a full-time faculty position in the areas of (i) toxicology and (ii) clinical pharmacology, as assistant (or, if especially qualified, associate) professor. Candidates for (i) must have a Ph.D. or M.D. degree plus at least 2 years of research experience and publications. Duties include teaching and research, with a major opportunity to develop a new program. Candidates for (ii) must have an M.D. degree and sufficient clinical training to justify joint appointment with an appropriate clinical department. Duties include teaching, research, and patient care in an academic environment, with special opportunity for combined basic and clinical research. Send curriculum vitae and also request that three letters of recommendation be sent to **Dr. Edward A. Carr, Jr., 127 Farber Hall, State University of New York at Buffalo, Buffalo, N.Y. 14214.**

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### PLANT ECOLOGIST

Nalco, an international leader in water, environmental, and energy science is seeking a plant ecologist to fill an applied research position in environmental-impact consulting. Our plant ecologists are responsible for the design, implementation, and reporting of environmental field studies. An M.S. or equivalent in plant ecology, range ecology, or closely related field is preferred. Demonstrated field experience in phytosociology and plant taxonomy is required; technical writing and editing ability are essential. Desirable areas of experience include computerized statistical handling of biological data, aerial-photo interpretation and mapping, mine reclamation, range management, soils, and agronomy. Preference will be given to applicants with broad geographical experience emphasizing the western United States. This position offers a starting salary commensurate with experience, generous company-paid benefits, and an opportunity for professional advancement. Send your résumé and salary history to: **Dr. A. K. Evans, Group Leader Plant Sciences, Terrestrial Ecology Section, Nalco Environmental Sciences, 1500 Frontage Road, Northbrook, Illinois 60062.** *An Equal Opportunity Employer.*

**POSTDOCTORAL POSITION** correlating function of several identified regulatory genes to RNA synthesis and processing during cellular differentiation in the fungus, *Schizophyllum*. Experience desired: familiarity with fundamentals of DNA/RNA biochemistry: isolation, purification, reassociation, and hybridization. Commencing early 1977, 2 years, salary competitive and commensurate with experience. Send résumé and names of references to **Dr. R. C. Ullrich, Department of Botany, Marsh Life Science Building, University of Vermont, Burlington, Vt. 05401.**

**POSTDOCTORAL POSITION** in biochemical pharmacology: metabolism, brain distribution and stereospecific cerebral binding of opiates in rats; 2 to 3 years of NIDA support available starting immediately. Send résumé and names of three references to:

**Dr. W. Sadee**  
School of Pharmacy  
University of California, San Francisco  
San Francisco, California 94143  
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### POSTDOCTORAL RESEARCH POSITION

Position for postdoctoral fellow available. Recent Ph.D. required, preferably in biochemistry, biology, or chemistry, to train in the area of protein synthesis. Research expertise in mammalian cell culture and experience in protein synthesis or turnover highly desirable. *Applications from all qualified candidates are welcome; minorities and women are encouraged to apply.* Send résumé, two letters of reference, and a brief description of research interests to: **Dr. Kivie Moldave, Department of Biological Chemistry, University of California, Irvine, College of Medicine, Irvine, California 92717** by 4 March 1977.

## POSITIONS OPEN

### POSTDOCTORAL POSITION

Postdoctoral research position available immediately to study the role of presynaptic receptors in the release of norepinephrine from vascular smooth muscle. NIH support for 2 to 3 years. Send curriculum vitae to **Dr. Thomas C. Westfall, Department of Pharmacology, University of Virginia School of Medicine, Charlottesville, Virginia 22901**

*University of Virginia is an Equal Employment/Affirmative Action Employer.*

**POSTDOCTORAL POSITION.** To study ion transport in diatoms, and participate in an established program investigating the role of silicon in biological processes. Experience in biochemistry of membrane transport, vesicles. Salary: \$11,832 to \$13,572 (depending on experience) per year. Period: 2 to 3 years. Send curriculum vitae, reprints, and three reference letters to **Dr. B. E. Volcani, University of California, Scripps Institution of Oceanography, La Jolla, Calif. 92093.** *An Equal Opportunity/Affirmative Action Employer.*

### POSTDOCTORAL RESEARCH IN BIOCHEMICAL AND SOMATIC CELL GENETICS

The Biochemical Genetics Section at Roswell Park Memorial Institute has a postdoctoral research position available immediately. Research will be in human gene mapping, genetic dissection, and biochemical characterization of lysosomal enzymes and other enzymes involved in birth defects and childhood diseases. Man-rodent somatic cell hybrids will be used for mapping and dissecting complete enzyme systems. Experience in enzymology, electrophoresis, and tissue culture is desirable. Two years minimum. Send curriculum vitae and names of three references to **Dr. Thomas B. Shows, Biochemical Genetics Section, Roswell Park Memorial Institute, 666 Elm Street, Buffalo, N.Y. 14263.** *An Equal Opportunity Employer, M/F.*

**POSTDOCTORAL RESEARCH ASSOCIATE IN IMMUNOLOGY.** Postdoctoral position open immediately for individual interested in the immunology of the gastrointestinal tract, particularly Peyer's patches. Applicants must have Ph.D. or M.D. Please send curriculum vitae and names of three references to: **Dr. Tobi Jones, Department of Surgery, B-437 Clinical Sciences Building, Michigan State University, East Lansing, Mich. 48824.**

### PROFESSOR AND CHAIRMAN DEPARTMENT OF BIOCHEMISTRY

A vacancy now exists for the post of chairman, Department of Biochemistry, in the Faculty of Medicine. Applicants should have advanced academic and professional qualifications, Ph.D. and/or M.D. or equivalent, preferably with experience in teaching and research. The chairman will be expected to supervise teaching in the medical and related faculties, including the School of Graduate Studies, and to administer the Department. Salary is negotiable. Applications, including curriculum vitae and references, should be submitted as soon as possible to:

**Dr. G. F. Whitmore**  
Associate Dean  
Faculty of Medicine  
Medical Sciences Building  
University of Toronto  
Toronto, Ontario, Canada, M5S 1A8

**RESIDENCY IN OPHTHALMOLOGY.** A 2-year residency program in comparative ophthalmology will be available in the Veterinary Medical Teaching Hospital beginning 1 July 1977. An internship or equivalent training is required as a prerequisite. For more detailed information on the program, applicants should direct inquiries to **Dr. Alexander deLahunta, Director, Veterinary Medical Teaching Hospital, New York State College of Veterinary Medicine, Ithaca, N.Y. 14853.** *An Equal Opportunity Employer.*

**RESPIRATORY PHYSIOLOGIST.** Must have strong research background in respiratory physiology. Responsibilities include medical, dental, and graduate teaching, development of independent research program. Rank and salary dependent on qualifications. Send inquiries including curriculum vitae, bibliography, and names of three references to **Dr. Harry D. Patton, Department of Physiology and Biophysics SJ-40, University of Washington, Seattle, Wash. 98195.** *An Equal Opportunity Employer.*

## POSITIONS OPEN

### POSTDOCTORAL ASSOCIATE POSITION

Postdoctoral research scientist with special interest in hormonal and metabolic aspects of the circulation. Subjects under investigation include cardiovascular aspects of diabetes and insulin metabolism, catecholamines, autonomic regulation, experimental anemias, cardiac metabolism. Intact animal models and isolated systems. Opportunities for both joint and independent research. Salary range: \$10,000 to \$15,000. Please send résumé to:

**Dr. S. Evans Downing**  
Professor of Pathology  
Yale School of Medicine  
Department of Pathology  
310 Cedar Street  
New Haven, Conn. 06510

Department of Physiology of the University of Texas Health Science Center is seeking a **SENIOR FACULTY MEMBER** (associate professor or professor) in the field of endocrine physiology. Extensive teaching experience of mammalian or human physiology and a currently active research program are major attributes sought. Send curriculum vitae and letters of reference to: **Dr. E. J. Masoro, Department of Physiology, University of Texas Health Science Center, 7703 Floyd Curl Drive, San Antonio, Texas 78284.** *An Equal Opportunity/Affirmative Action Employer.*

Applications sought for **STAFF POSITION** in Section of Hematopathology, University of Southern California School of Medicine and Los Angeles County-University of Southern California Medical Center. Salary and rank commensurate with experience. California license and previous training in hematopathology required. Candidate should have strong interest in teaching and scholarly activity. Reply to: **Chairman, Department of Pathology, 2025 Zonal Avenue, Los Angeles, California 90033.**

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**TECHNICIAN 4** (Scientific Instrument Specialist), Chemistry Department, University of Hawaii, full-time, general fund, permanent, to begin approximately 1 July 1977. Duties: to provide technical support to faculty, students, and classroom/laboratory activities. Minimum qualifications: ability to maintain, repair, calibrate, and train others in the operation of a variety of GC and optical scientific instruments, including UV-vis, IR, Raman, and AA. Graduation from an accredited 4-year college or university with major course work in optical instrumentation and digital electronics; 5 years of postgraduate experience in optical and GC instrument repair and operation; or any equivalent combination of training and experience. Completion of manufacturer's maintenance courses desirable. Minimum monthly salary: \$1,663. Send résumé and three letters of recommendation to: **Ray L. McDonald, Chemistry Department, 2545 The Mall, University of Hawaii, Honolulu, Hawaii 96822.** *An Equal Opportunity/Affirmative Action Employer. All qualified candidates are encouraged to apply.*

### TOXICOLOGIST Veterinary Diagnostic Laboratory

The New York State College of Veterinary Medicine is seeking a toxicologist for the Division of Drug Testing and Toxicology in the Diagnostic Laboratory. The person selected for this position will join another toxicologist and an analytical chemist in an ongoing program to provide complete diagnostic toxicology service for the animal industry of New York State. Primary responsibility of the incumbent will be to develop inorganic toxicology.

New laboratory facilities and state of the art analytical instrumentation are available including gas chromatography, high-pressure liquid chromatography, mass spectrometry, infrared spectrometry, absorbance spectrometry, fluorescence spectrometry, and atomic absorption spectrometry.

Applicants for this position are required to have advanced training in toxicology. A degree in veterinary medicine is desirable. The position may carry a joint appointment in one of the academic departments in the College of Veterinary Medicine to facilitate collaborative teaching and research. Title and salary will be commensurate with ability and experience.

Send complete curriculum vitae and references to **Dr. C. G. Rickard, New York State College of Veterinary Medicine, Cornell University, Ithaca, New York 14853.** *An Equal Opportunity Employer.*



## CNS Pharmacologist Analgesic Research

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The Division has a long-established interest in centrally acting analgesic agents. In recent years, it has been responsible for the development of novel drugs such as etorphine, diprenorphine and buprenorphine, and its Pharmacology Department continues to maintain a leading position in analgesic research.

This, therefore, is a key appointment. If accepted, you will initiate and direct biological research programmes, being responsible, in particular, for evaluation of an interesting new series of compounds of both alkaloid and peptide derivation.

Obviously, appropriate pharmacological experience and qualifications are essential. Equally, the importance the Company attaches to the appointment will be reflected in the salary offered, and in opportunities for further career development.

Interested applicants, male or female, should write—with concise details of qualifications, experience and present position—to  
**R. L. Pickering, Personnel Administration Manager, Pharmaceutical Division, Reckitt & Colman, Dansom Lane, Hull HU8 7DS, England.**

## Director

### Energy and Environment Division Lawrence Berkeley Laboratory University of California

Applications and nominations are invited for head of the Energy & Environment Division of the Lawrence Berkeley Laboratory. The division is primarily funded by the Energy Research and Development Agency and has primary activities in:

Development of hot-brine geothermal energy, fusion energy research, combustion research, conservation, solar energy development, development of environmental instrumentation, and regional studies.

Candidates should have a record of distinguished achievement in energy related or environmental research and the ability to give scientific and administrative leadership to a large and diverse division of a multi-purpose laboratory.

Applications or nominations should be submitted by March 1, 1977 to:

Professor Alexis T. Bell  
Chairman of the Energy and Environment Search Committee  
Department of Chemical Engineering  
University of California  
Berkeley, California 94720

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## PHARMACEUTICAL DEVELOPMENT SCIENTIST

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## POSITIONS OPEN

### DEPARTMENT OF ANATOMY CREIGHTON MEDICAL SCHOOL

**NEUROSCIENTIST (ANATOMIST)/HISTOLOGIST.** Assistant to associate professorship available 1 June 1977. Teaching assignments in medical curriculum. Research open; neuroscience or microstructure preferred. Predoctoral program concentrations offered in these fields. New research/instructional facility. Résumés and references to: **Dr. William E. Dossel, Department of Anatomy, Creighton Medical School, Omaha, Nebraska 68178. Equal Opportunity/Affirmative Action Employer.**

**RESEARCH ASSOCIATE:** A postdoctoral position is open for research in in vitro transcription of native and reconstituted chromatin. Please send curriculum vitae and references to **K. E. Van Holde, Department of Biochemistry and Biophysics, Oregon State University, Corvallis, Oregon 97331. An Affirmative Action/Equal Opportunity Employer.**

**RESEARCH ASSOCIATE:** A postdoctoral position is open for experimental and/or theoretical work on the circular dichroism of biopolymers. Please send curriculum vitae and references to **W. Curtis Johnson, Department of Biochemistry and Biophysics, Oregon State University, Corvallis, Oregon 97331. An Affirmative Action/Equal Opportunity Employer.**

**TEACHING/RESEARCH POSITION** in hydroacoustics available at the assistant professor rank. Ph.D. required. Primary duty includes undergraduate/graduate teaching in Ocean Engineering Program. Capabilities in geophysics and degree in engineering preferred. Send résumé, names of references, and transcripts to **Dr. N. W. O'Hara, Head, Department of Oceanography and Ocean Engineering, Florida Institute of Technology, Melbourne, Fla. 32901. An Equal Opportunity Employer.**

## TRAINEESHIPS

### REPRODUCTIVE BIOLOGY TRAINEESHIPS

Postdoctoral traineeships available July 1977. Emphasis on biochemical and cellular aspects of reproduction. Eight faculty members. Write: **Dr. Bayard T. Storey, Education Officer, Division of Reproductive Biology, Department of Obstetrics and Gynecology, Medical Labs 338 G3, University of Pennsylvania, Philadelphia, Pa. 19174.**

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## TRAINING PROGRAMS

**GRADUATE TRAINING PROGRAM IN OCCUPATIONAL HEALTH AND SAFETY.** September 1977. Twelve-month interdisciplinary program leading to the M.S. degree. Involves instruction in all aspects of occupational health and safety, seminars, special projects, field trips, and conferences. A limited number of fellowships are available. For further information write to: **Dr. Samuel Elkin, Director, Center for Environmental Studies, Temple University, 3307 North Broad Street, Philadelphia, Pennsylvania 19140.**

### SUMMER TRAINING PROGRAM

The Worcester Foundation for Experimental Biology is seeking a limited number of qualified college students to participate in its summer training program to be held from 6 June 1977 through 12 August 1977. Applicants must have completed at least 2 years of college work, have an overall grade point of "B" or better, have had at least three courses in either the life or natural sciences, and are interested in biomedical research. Please have three professors write directly to us concerning you and send a résumé and official transcript of college courses no later than 1 April 1977 to: **Dr. Ashton Gibbons, Director of Summer Training Programs, Worcester Foundation for Experimental Biology, 222 Maple Avenue, Shrewsbury, Mass. 01545.**

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## TRAINING PROGRAMS

### PREDOCTORAL AND POSTDOCTORAL TRAINING in NEUROBIOLOGY AND MEMBRANE BIOPHYSICS at the UNIVERSITY OF MIAMI SCHOOL OF MEDICINE

The Department of Physiology and Biophysics emphasizes cellular and molecular approaches to biological problems and offers training in neurobiology, developmental neurobiology, and membrane biophysics. Traineeships, fellowships, and assistantships are available. For details write **Dr. David Wilson, Department of Physiology and Biophysics, University of Miami, School of Medicine, Box 520875, Miami, Florida 33152. An Equal Opportunity/Affirmative Action Employer.**

**STUDENT FELLOWSHIPS** available for U.S. citizens and permanent residents toward Ph.D. in pharmacology. Diversified training related to the pharmacological and biochemical basis for drug action with emphasis on cancer therapeutics: inhibition of nucleic acid, protein and membrane components, enzyme activity regulation, coenzyme action and inhibition, basis for selective toxicity, pharmacokinetics and drug metabolism in animals and cells, medicinal chemistry of nucleosides, carbohydrates and antifolates, immunotherapy, immunosuppression, experimental chemotherapy, molecular pharmacology, endocrine pharmacology and metabolic regulators, hematology, preclinical and clinical pharmacology. Stipends are \$3900 per year. Write to **E. Mihich, M.D., Chairman, Graduate Pharmacology Program, Roswell Park Memorial Institute, Buffalo, N.Y. 14263.**

## GRADUATE STUDY

### GRADUATE STUDY IN PHYSIOLOGY UNIVERSITY OF KANSAS MEDICAL CENTER

Applications are invited for enrollment in the graduate program leading to the Ph.D. degree in physiology. Modern programs in physiology of systems and organs, and in cellular physiology and biophysics prepare students for teaching and research careers. Financial support is available for qualified students. For further information and application forms write to **Graduate Adviser, Department of Physiology, University of Kansas Medical Center, Kansas City, Kansas 66103. Equal Opportunity/Affirmative Action Employer.**

### LAND RESOURCES PLANNING

Graduate study in land resources planning. Emphasis on natural sciences, impact assessment, and quantitative spatial analysis. Professional master's degree or Ph.D. through cooperation of departments of Geography, Landscape Architecture, and Urban Planning. Current projects include natural lands inventory flood plain management, water quality evaluation, and many others in related units on campus. Spatial data analysis, remote sensing, and computer graphics laboratories available to students. Some assistantships and fellowships available. Students with undergraduate degrees in the natural sciences are especially encouraged to apply. Write: **CALREP Coordinator, 205 Mumford Hall, University of Illinois, Urbana, Illinois 61801.**

## FELLOWSHIPS

### ANDREW W. MELLON TEACHING FELLOWSHIPS

Applications are requested for three 1-year teaching fellowships at Clark University. Fellowships may be awarded in any of the fields taught at Clark but particular attention will be given to applicants with transdisciplinary interests. The fellow will be expected to give one specially designed course, hold one seminar each semester, and link with appropriate research groups at Clark.

In exceptional cases the post may be renewed for one additional year only.

Send responses by 15 February 1977 to **Frank W. Puffer, Dean of Academic Affairs, Clark University, Worcester, Mass. 01610.**

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## FELLOWSHIPS

**PREDOCTORAL FELLOWSHIPS,** physiology and biophysics, starting 16 August 1977. Training in muscle, renal, endocrine, and cell physiology, neurophysiology, respiration, and thermoregulation. Applications must include departmental application form, transcripts, GRE scores (verbal, quantitative, one advanced), three recommendations. Deadlines for institutional and departmental support: 10 February and 15 April 1977. For applications, write: **Physiology and Biophysics Department, West Virginia University Medical Center, Morgantown, W.Va. 26506.**

**POSTDOCTORAL FELLOWSHIP** is available immediately for candidates interested in pursuing (i) behavioral studies of eye movement control and the consequences of eye movements on visual space perception, or (ii) the neurophysiological bases of eye movement control and visual space perception. Fellowship is for a 2-year period and provides for stipends, travel funds, and restrictions common to NIH postdoctoral fellowships. Interested candidates should send curriculum vitae, three letters of recommendation, and statement of research objectives to:

**Dr. Alex Skavenski  
Department of Psychology  
Northeastern University  
Boston, Mass. 02115**

*Northeastern University is an Affirmative Action/Equal Opportunity Employer.*

### POSTDOCTORAL FELLOWSHIPS in HUMAN and MEDICAL GENETICS

Training available in clinical, biochemical, immunological, and population genetics. Candidates must have M.D., Ph.D., D.V.M., or comparable degree and be U.S. citizens or permanent residents. Fellowships will begin 1 July 1977. The stipend is \$10,000 to \$13,200, depending upon previous postdoctoral experience.

Send curriculum vitae and the names of three references to: **Dr. Arthur G. Steinberg, Case Western Reserve University, Cleveland, Ohio 44106.**

## COURSES

### ELECTRON MICROSCOPY IN THE BIOLOGICAL SCIENCES

23 May to 3 June 1977

A Course Offered by the  
**Marine Biological Laboratory  
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This intensive laboratory course is designed primarily for postdoctoral level participants who have little or no training in electron microscopy but who wish to use it as a research tool. Preparation techniques for both TEM and SEM will be emphasized along with micrograph interpretation. The principal instructors will be Blair Bowers, Morton Maser, and Keith Porter. *The Marine Biological Laboratory admits students of any race, color, and national or ethnic origin.* For further information write **Instruction Program, Marine Biological Laboratory, Woods Hole, Mass. 02543, or telephone Morton Maser, 402-449-2923.**

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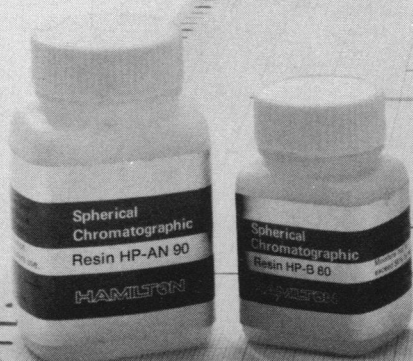
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