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The bibliography is priced at \$1.00 per copy, or 75¢ each for ten or more copies.

(Address your orders to Department C)

AAAS

AMERICAN ASSOCIATION for the
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926

Personnel Placement

POSITIONS WANTED

Biologist, Ph.D., 1971, Publications. Desires college teaching position in general biology, interdisciplinary programs, invertebrate biology, cell biology. Box 116, SCIENCE. X

Biomedical Engineer, Ph.D. Research and teaching experience in biosystems modeling and analysis, bioinstrumentation and biotelemetry. Seven publications. Box 117, SCIENCE. X

Biomedical Engineer, Ph.D. (1971); postdoctoral research in biomechanics; publications; B.S. Civil Engineering, M.S. Structural Mechanics; industrial or teaching position. Box 118, SCIENCE. X

Consultation in Veterinary and Comparative Histopathology: board-certified veterinary pathologists will examine stained sections of animal tissues for toxicologic, research, or diagnostic studies. Box 61, SCIENCE. 3/2

Endocrinologist/Physiologist, Ph.D. 1969. Publications. Bone and mineral homeostasis; 2 years' postdoctoral, 2 years' professional school teaching/research. Seeks university or medical school teaching/research position outside high crime area. Box 119, SCIENCE. 3/9

Ph.D. Physicist, Fellow Phys. Soc., with fine research accomplishments (experimental). Teaching experience at university level. At present with major industrial laboratory. Seeks position with 4-year college where he can participate in, upgrade, or set up a good physics or science-mathematics program. Some management experience. Box 67, SCIENCE. 3/2, 9, 16, 23, 30; 4/6

Plant Physiologist/Biologist, Ph.D. Seven years of experience; publications. Teaching interest, botany (general, physiological, ecological, developmental); general biology. Research interest in cryobiology. Seeks academic or industrial position. Available immediately or September 1973. Box 95, SCIENCE. X

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Position available for 1 July 1973 in the Department of Dermatology, University of Michigan Medical School. Candidate must be Board eligible or Board certified. Desire an academically oriented dermatologist who will be required to perform teaching and who will have patient care and research responsibilities. Code #200N. Send résumé to Box 111, SCIENCE. A Nondiscriminatory Affirmative Action Employer.

ASSISTANT PROFESSOR

Position available in the Department of Internal Medicine, University of Michigan Medical School. Candidate must have demonstrated ability in patient care and teaching, plus unusual promise as an investigator. Also must have an M.D. degree, meet qualifications or equivalent of the American Board of Internal Medicine and have subspecialty training in pulmonary disease. Code #2500L. Send résumé to Box 112, SCIENCE. A Nondiscriminatory Affirmative Action Employer.

ASSISTANT PROFESSOR

Position available with the Department of Obstetrics & Gynecology, University of Michigan Medical School. Candidate must be Board eligible or Board diplomate, and he must be interested in an academic career in Ob-Gyn. Should have major teaching hospital training and/or experience, and also have a subspecialty interest. Documentation of academic capability and productivity is essential. Duties include major responsibility for student and house staff supervision at an affiliate county general hospital. Code #800L. Send résumé to Box 113, SCIENCE. A Nondiscriminatory Affirmative Action Employer.

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Faculty position in a well-equipped facility with expanding program. Applicants should have research interests in membrane structure-function or metabolic regulation and postdoctoral experience. Send curriculum vitae, three letters of recommendation, and a brief summary of research experience and objectives to: Search Committee, Department of Chemistry, California State University, Fullerton, California 92634. An Equal Opportunity Employer.

BIOLOGISTS

Applications are invited for two positions at the Assistant Professor or Associate Professor level. One appointment will be in microbiology or microbial genetics, and the second in plant biochemistry. Doctorate and an active interest in both teaching and research required. Send applications to Dr. G. C. Webster, Department of Biological Sciences, Florida Institute of Technology, Melbourne, Florida 32901.

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invites applications for the following regular positions commencing August 1973, involving participation in expanding undergraduate and graduate teaching and research programs:

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AQUATIC ECOLOGIST: Capable of teaching courses in limnology, algology, systems ecology and aquatic microbiology; with research interests in algology and/or aquatic microbiology.

VERTEBRATE NEUROENDOCRINOLOGIST: Capable of teaching courses in advanced vertebrate physiology, endocrinology, and especially neuroendocrinology; with research specialization in neuroendocrinology.

POPULATION GENETICIST: Capable of teaching courses in general and population genetics, evolution and biogeography; with research specialization in population genetics.

PLANT BIOCHEMIST: Capable of teaching courses in general cell biochemistry including laboratory techniques, enzyme biochemistry, intermediary metabolism, and advanced plant physiology; with research specialization preferably in experimental plant biochemistry.

Age, sex, race, religion, and ethnic origin immaterial; applications are invited from all qualified persons. Ph.D. degree required; postdoctoral training recommended. Rank and salary open. Send curriculum vitae and three letters of recommendation to Dr. Robert C. Stones, Head, Department of Biological Sciences, Michigan Technological University, Houghton, Michigan 49931. An Equal Opportunity Employer

CURATORIAL POSITION (Ichthyologist)

Aquarium curatorial opening now exists for a Ph.D. in Biology/Marine Science to be responsible for the maintenance and exhibition of Aquatic animal collection. Strong supervisory ability a must. New York City location. Salary competition; excellent fringe benefits include 5 1/2-week vacation. Send curriculum vitae to Box 115, SCIENCE. An Equal Opportunity Employer.

SCIENCE, VOL. 179

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NEW AND PRACTICAL TITLES

CONCISE GUIDE TO BIOMEDICAL POLYMERS: Their Design, Fabrication and Molding by John W. Boretos, *National Institutes of Health, Bethesda.* Forewords by William S. Pierce and Silas Braley. '73, 208 pp., 35 il., 53 tables, \$14.75

PROTEIN DEFICIENCY AND PESTICIDE TOXICITY by Eldon M. Boyd, *Queen's Univ., Kingston, Ontario, Canada.* '73, 480 pp., 106 il. (1 in full color), 129 tables, \$29.50

RHEOLOGY OF BIOLOGICAL SYSTEMS by Henry L. Gabelnick, *National Institutes of Health, Bethesda, and Mitchell Litt, Univ. of Pennsylvania, Philadelphia.* (31 Contributors) '73, 319 pp., 230 il., 25 tables, \$16.95

HUMAN NUTRITION: Its Physiological, Medical and Social Aspects. A Series of Eighty-Two Essays by Jean Mayer, *Harvard Univ., Boston.* '72, 740 pp., 5 il., \$12.95

MERCURY, MERCURIAL AND MERCAPTANS edited by Morton W. Miller and Thomas W. Clarkson, *both of The Univ. of Rochester, New York.* (33 Contributors) '72, about 420 pp., 116 il., 57 tables

THE REGULATION OF MAMMALIAN REPRODUCTION edited by Sheldon J. Segal, *The Population Council, New York; Ruth Crozier and Philip A. Corfman, both of the National Institute of Child Health and Human Development, Bethesda; and Peter G. Condliffe, John E. Fogarty International Center for Advanced Study in the Health Sciences, Bethesda.* (132 Contributors) '73, 614 pp. (7 x 10), 260 il., 91 tables, \$44.50

TRENDS IN EPIDEMIOLOGY: Application to Health Service Research and Training by Gordon T. Stewart, *Univ. of Glasgow, Scotland.* (23 Contributors) '72, 624 pp., 52 il., 59 tables, \$29.75

PRINCIPLES OF SENSORY PHYSIOLOGY by Henry Tamar, *Indiana State Univ., Terre Haute.* '72, 408 pp. (7 x 10), 92 il., 1 table, \$21.50

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EMORY UNIVERSITY
Atlanta, Georgia
Department of Biology

Applications are invited for two positions at the Assistant Professor level effective 1 September 1973. Applications should have a Ph.D.

One appointment will be in cell biology. Preference will be given to persons with interests in some area of neurobiology or behavior.

The second appointment will be in limnology. Preference will be given to persons with interests in algology and a systems approach to environmental problems.

Interested individuals should send professional vitae and the names of two or three referees to **Dr. Charles Ray, Chairman of Search Committee, Department of Biology, Emory University, Atlanta, Georgia 30322**.

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CHAIRMAN: BIOLOGY DEPARTMENT

Experienced biologist to direct undergraduate program and develop research activities. Administrative experience highly desirable. Write **John B. Drahmann, Dean, College of Sciences, University of Santa Clara, Santa Clara, Calif. 95053**.

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Candidates should be experienced in Protein Purification and Analysis, Immunochemical Procedures and Radioisotope Techniques.

Qualified individuals should submit curriculum vitae and salary requirements to: **Director of Personnel, Meloy Laboratories, Inc., 6715 Electronic Drive, Springfield, Virginia 22151, Attn: Code R62**. *An Equal Opportunity Employer.*

Stanford University announces an opening for senior professor of **DEVELOPMENTAL PSYCHOLOGY**, created by the retirement of Robert R. Sears, David Starr Jordan Professor of Social Science. We seek someone with exceptional qualifications for the position which will be available in September 1974. Inquiries should be sent to **J. Merrill Carlsmith, Chairman, Search Committee, Department of Psychology, Stanford University, Stanford California 94305**.

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UNIVERSITY OF WASHINGTON
DIRECTOR
INSTITUTE FOR MARINE STUDIES

The University of Washington has created the new Institute for Marine Studies to develop and facilitate multidisciplinary teaching and research on problems of the marine environment which couple scientific knowledge and social and economic needs. Applicants are invited to submit a curriculum vitae, reprints, a short statement of teaching and research plans, and the names of three references by 15 March 1973, to **Dr. Donald E. Bevan, 203 Administration Building, AG-10, University of Washington, Seattle, Washington 98195**. *A Non-Discriminatory and Affirmative Action Employer.*

EPIDEMIOLOGIST

Needed immediately as consultant to projects in innovative health care delivery, occupational and environmental health. Primary teaching, introductory epidemiology to medical students. Level of appointment commensurate with qualifications. Salary competitive. Minority group members and women are urged to apply. Send letter, curriculum vitae, and three (3) references to: **C. Hilmon Castle, Chairman, Community & Family Medicine, University of Utah College of Medicine, Salt Lake City, Utah 84112**. *Equal Opportunity Employer.*

GRADUATE SCHOOL OF OCEANOGRAPHY
UNIVERSITY OF RHODE ISLAND

One or two faculty positions (probably at the Assistant Professor level) will open July 1973. We are seeking recent Ph.D.'s with research experience and interests in one of the following fields: benthos, population ecology, and physiological ecology of zooplankton. Women and minority group members are urged to apply. Send curriculum vitae, and have three letters of recommendation sent to: **Dr. David M. Pratt, Graduate School of Oceanography, University of Rhode Island, Kingston, R.I. 02881**.

FACULTY POSITIONS

Three assistant professorships (Developmental Biologist and Microbial Geneticist, with emphasis in these two positions on Molecular Biology; and a Marine Microbiologist with emphasis on Environmental Biology). Strong commitment to research necessary, with additional interest in teaching! Research facilities on campus and at university's Santa Catalina Marine Biology Lab supported by Marine Ship Operations. Applications from women and members of ethnic minorities desired. Submit curriculum vitae and letters of reference to:

Dr. B. C. Abbott, Chairman
Department of Biological Sciences
University of Southern California
University Park
Los Angeles, California 90007

METALLURGIST/MATERIALS SCIENTIST:

The School of Metallurgy and Materials Science at the University of Pennsylvania is seeking a Postdoctoral Scientist/Engineer to participate in research on amorphous alloys. Applicants should submit a curriculum vitae, reprints (if any), and the names of three (3) references. These applications should be made no later than 15 March 1973 to: **The Director, School of Metallurgy and Materials Science, 3231 Walnut Street, University of Pennsylvania, Philadelphia, Pa. 19174**. *We are an equal opportunity employer.*

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Excellent salary, benefits, and working conditions. Please send curriculum vitae in confidence to: **Box 114, SCIENCE**.

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The Department of Zoology of the University of Michigan is seeking an invertebrate physiologist, preferably a neurophysiologist, for 3-year appointment at the rank of assistant professor. Responsibilities include teaching and research in the area of invertebrate neurophysiology. Letters of application, curriculum vitae, and three independent letters of recommendation should be sent to **Professor Carl Gans, Chairman, Department of Zoology, University of Michigan, Ann Arbor, Mich. 48104**. *A non-discriminatory, affirmative action employer.*



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QUALIFICATIONS: Advanced degree, preferably a doctorate, in one of the social sciences with a strong background in economics or sociology and with research emphasis in urban problems. Demonstrated administrative competence. Close familiarity with contemporary urban research institutions in Canada. For one position the knowledge of both the English and French languages is essential, while for the other position, knowledge of the English language is essential.

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UNIVERSITY OF GUELPH, ONTARIO, CANADA
COLLEGE OF BIOLOGICAL SCIENCE
DEPARTMENT OF ZOOLOGY

VERTEBRATE ZOOLOGIST

Applications are invited from suitably qualified persons to teach undergraduate courses, as required, in one or more of the following: comparative vertebrate anatomy, wildlife management, mammalogy, animal ecology, introductory zoology.

The position offers an excellent opportunity to develop field and laboratory studies within an existing strong undergraduate and graduate fisheries and wildlife programme.

INVERTEBRATE ZOOLOGIST (2 POSITIONS)

Applications are invited from suitably qualified persons to teach undergraduate courses, as required, in invertebrate zoology and introductory biology.

The department supports strong undergraduate and graduate programmes in fisheries and wildlife biology, marine biology, physiology, ecology, parasitology and animal behaviour. The present positions offer excellent opportunities to develop additional programmes in areas of the applicant's interests. The Department would be pleased to consider applications from systems biologists.

Salary and position will be at the Assistant Professor level.

Applications must include the names of two referees and should be forwarded to the Chairman, Department of Zoology, College of Biological Science, University of Guelph, Guelph, Ontario, Canada N1G 2W1, by May 31, 1973.

POSITIONS OPEN

THE DEPARTMENT OF OCEANOGRAPHY, DALHOUSIE UNIVERSITY, HALIFAX, NOVA SCOTIA, CANADA, has an opening at the assistant professor level for a **PHYSICAL OCEANOGRAPHER**. There are no requirements as to field of specialty, but the appointment presupposes competence in both descriptive and theoretical physical oceanography. Teaching duties include a one-semester introductory course in descriptive oceanography for first-year graduate students, assistance in advanced courses, and supervision of graduate student research. Applicants are requested to submit a vita by 15 March and to solicit two letters of recommendation, to be addressed to **G. A. Riley, Chairman**.

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PHYSIOLOGIST

Assistant or Associate Professor of Physiology to start as early as 1 September 1973. No area of specialization is specified although special interest in respiratory or cardiovascular physiology may be preferred. The successful candidate will be expected to participate in undergraduate and graduate teaching and to continue a high-quality research program. Applicants should send curriculum vitae and names of three references to: **Dr. D. G. Sinclair, Department of Physiology, Queen's University, Kingston, Ontario, Canada**.

POSITIONS OPEN

UNIVERSITY OF CAPE TOWN SENIOR LECTURER IN BOTANY (PLANT ECOLOGY)

Applications are invited for the post of Senior Lecturer (Plant Ecology) in the Department of Botany from 1 July 1973, or as soon as convenient thereafter. The salary scale is R6300 × 300 to R8100 per annum and the starting salary will depend on qualifications and experience.

The successful applicant will be expected to establish a research and teaching school in experimental plant ecology.

Applicants should state age, experience and qualifications, present salary, publications and research work, and should give the names and addresses of at least two referees (preferably persons with recent knowledge of the applicant's academic qualifications and experience) whom the University may consult.

Further information may be obtained from the **Registrar, University of Cape Town, Private Bag, Rondebosch, C.P.**, to whom applications should be submitted not later than 16 March 1973.

Appointment will be subject to a satisfactory medical certificate.

The University reserves the right to appoint a person other than one of the applicants or to make no appointment.

POSITION AVAILABLE for persons with doctorate at the level of Instructor and Assistant Professor. Must be qualified to teach General Biology and one course in the area of Vertebrate Physiology, Developmental Biology or Vertebrate Morphology. Apply **Biology Department, Queens College, Flushing, N.Y. 11367**.

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RESEARCH ASSOCIATE: Ph.D. in biochemistry. A few years of experience in enzymology, proteolysis, plasma clotting proteins, glycoproteins and collagen desirable. To join independent research group working in protein and platelet aspects of coagulation, hemorrhage, and thrombosis in non-profit nongovernmental center comprising many laboratories concerned with research in blood and related areas. Position available September 1973. Salary \$15,000 to \$18,000 depending on experience.

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310 E. 67 Street
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Scientific information service seeks alert and imaginative person for new senior administrative position. Responsibility will require broad knowledge of life sciences as well as interest in management and administration. Ph.D. preferred. Eastern seaboard. *Equal opportunity employer*. Send résumé to

Box 107, SCIENCE

SENSORY PHYSIOLOGIST THE UNIVERSITY OF TEXAS AT AUSTIN

We seek a sensory physiologist at the level of Assistant Professor with interests in the area of central sensory processing. Send curriculum vitae, references, and supporting materials to **Dr. H. E. Sutton, Department of Zoology, University of Texas, Austin 78712**. We welcome applications from women and members of minority groups.

UNIVERSITY OF PENNSYLVANIA

Teaching position in graduate department concerned with natural sciences in planning and design of the environment. Ph.D. in soils science, climatology, or ecology preferred, but any natural science specialty will be considered. Responsibilities include teaching courses in a specialty, participating in planning and design exercises, and advising graduate students. Research encouraged. Send curriculum vitae and names of three references to **Search Committee, Department of Landscape Architecture and Regional Planning, University of Pennsylvania, Philadelphia, Pa. 19174**.

TECHNICAL WRITER/EDITOR

Assignment will involve rewriting and editing technical progress reports and journal articles in the nuclear field. Desirable background will include a B.S. or B.A. degree in an engineering or scientific discipline or equivalent experience and a thorough knowledge of printing procedures and grammar. Technical writing/editing experience in nuclear fields is particularly desirable. We offer competitive salaries and excellent benefits. Submit résumé and salary requirements to:

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Department of Biology
Southern Methodist University
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THE UNIVERSITY OF NEW MEXICO, Albuquerque, N.M. 87106, solicits nominations and applications for two positions: **Vice-President for Research**. Please address vitae and inquiries to: **Dr. W. E. Elston, Chairman, Search Committee, Department of Geology, Associate Vice-President for Graduate Affairs and Dean of the Graduate School**. Please address vitae and inquiries to: **Dr. M. W. Wildin, Chairman, Search Committee, c/o Office of Institutional Research, Scholes Hall 206**. *An equal opportunity employer/affirmative action employer*

COURSES

BERMUDA BIOLOGICAL STATION SUMMER COURSES

For graduate and advanced undergraduate students in **Marine Ecology** (Dr. Robert D. Barnes), **Developmental Physiology** (Dr. H. Eugene Lehman), **Fish Ecology** (J. Burnett-Herkes), **Carbonate Deposition** (Dr. Conrad D. Gebelein) and **Marine Meiobenthos** (Dr. Wolfgang Sterrer). For further information write airmail to the **Director, BBS, St. George's West, Bermuda**.

MARINE SCIENCE DUKE UNIVERSITY MARINE LABORATORY

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A small number of Ford Foundation supported traineeships are available for qualified applicants, in a training program leading to the Ph.D. in Reproductive Biology, or consisting of 1 to 2 years of postdoctoral research. Fields of active research are: CNS-pituitary-gonad relationships; regulation of corpus luteum function in pregnancy; steroid hormone biosynthesis, production, transport, metabolism, and mechanism of action. For further information write: **Dr. I. Rothchild, Department of Reproductive Biology, Case Western Reserve University, Cleveland, Ohio 44106**.

The **Department of Biology** offers a program leading to the Ph.D. for a limited number of qualified students who are supported by teaching and research assistantships carrying stipends of \$3300 to \$3700 (plus tuition and dependency allowance). Course work and active research programs are offered in a highly individual manner and include the areas of cell biology, biochemistry, genetics, development, molecular biology, neurophysiology, and microbiology.

For further information please write **Dr. L. N. Lukens, Hall-Atwater Laboratory of Biology, Wesleyan University, Middletown, Connecticut 06457**.

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