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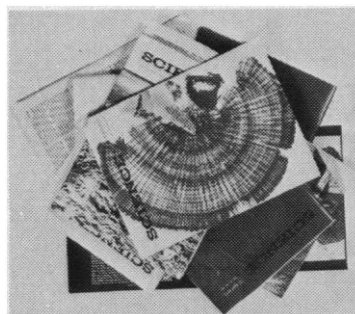
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Are you interested in the complex issues surrounding the continued debate on population growth and control? Then be sure to read *Population: Dynamics, Ethics, and Policy*, a new compendium from AAAS.

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**AMERICAN ASSOCIATION for the
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Personnel Placement

POSITIONS WANTED

Biochemical Endocrinologist. 2 years of postdoctoral experience in mechanism of hormone action, receptor binding, feedback regulation, enzyme induction, and RIA. Seeks research, teaching position. Box 411, SCIENCE. 10/3, 10

Ecologist. 5 years of volunteer work with citizens groups and on governmental boards, seeks staff position with citizen, public interest group, or foundation. Expertise in energy, particularly nuclear. Skilled in communication. Box 417, SCIENCE. X

Ecologist/Geographical Information System Specialist. M.S. physics, Ph.D. systems ecology. Eight years of programming experience. Teaching computer mapping and statistical analysis techniques to regional planning students at major midwestern university. Active research in interactive geo-information systems and automated cartography. Desire position in the Southwest or Rocky Mountain states. Box 418, SCIENCE. X

Immunochemist/Protein Chemist. Ph.D. 1962. Expertise in coagulation, fibrinolysis, immunoglobulin structure. RIA, HAI, amino acid sequence analysis experience. Seeks position in university or medical center. Salary/location open. Box 419, SCIENCE. X

POSITIONS OPEN

ASSOCIATE DEAN College of Veterinary Medicine

Effective date: 1 January 1976.
Salary: Negotiable.

Responsibilities: To serve as Associate Dean of the College of Veterinary Medicine, to assist the Dean in the responsibilities for management and implementation of teaching, research, and service programs including faculty, student, and staff development. Specific responsibilities include admission of professional students, curriculum development, scholarship standards, student counseling, and coordination of professional student activities.

Qualifications: The applicant must hold the Doctor of Veterinary Medicine degree or its equivalent as well as Doctor of Philosophy and/or certification by a specialty board recognized by the American Veterinary Medical Association. Demonstrated teaching, research, and service experience are required. The person must be a veterinarian of national stature whose scholarship is evidenced by publications in nationally recognized journals. Evidence of substantial participation in organized veterinary medicine and veterinary medical education, including curriculum development, are highly desirable. Women and members of minority groups are encouraged to apply. Written inquiries are to be received by 15 November 1975.

Direct inquiries to:

Dr. W. L. Chapman, Jr.,
Chairman, Search Committee
Department of Pathology
College of Veterinary Medicine
The University of Georgia
Athens, Georgia 30602

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

CHAIRPERSON CHEMISTRY DEPARTMENT

Seeking a chairperson for fall 1976. Successful candidate should be an outstanding chemist and dedicated teacher who can provide aggressive leadership for strong programs at both graduate and undergraduate levels. Ph.D. with strong record of research and teaching. Send résumé to **Box 24Z, Waterman Building, University of Vermont, Burlington, Vermont 05401.**

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MICROBIOLOGY/IMMUNOLOGY/ BIOCHEMISTRY

Teaching position, small liberal arts college, beginning January 1976. Interest in Medical Technology Program desirable. Write: **J. Rex Baird, Chairman, Department of Biology, Clinch Valley College of the University of Virginia, Wise, Virginia 24293.**

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POSITIONS OPEN

ASSISTANT PROFESSOR IN BIOCHEMISTRY. A position is available in the Department of Biological Chemistry for a highly qualified scientist whose primary research interest is in the area of DNA structure and DNA sequence. Postdoctoral experience is required. Interested applicants should submit a biographical sketch and publication list and the names of three people who can be contacted for reference letters. In addition to research, the position involves teaching both medical and graduate students. Correspondence should be addressed to: **Dr. Luis Glaser, Department of Biological Chemistry, Washington University School of Medicine, 660 South Euclid Avenue, St. Louis, Missouri 63110.** *An Equal Opportunity Employer.*

The Department of Dermatology, Stanford University School of Medicine, has an available position as an **ASSISTANT PROFESSOR OF DERMATOLOGY.** Applicants should be Board-certified in dermatology and have at least 2 years of experience following the completion of their residency. The position involves teaching, research, and patient care. *Stanford University is an Equal Opportunity Employer* and welcomes nominations of women and minority group members and applications from them. Applicants should send their curriculum vitae to **Eugene M. Farber, M.D., Professor and Chairman, Department of Dermatology, Stanford University School of Medicine, Stanford, Calif. 94305.**

FULL OR ASSOCIATE PROFESSOR, DEVELOPMENTAL PSYCHOLOGY. The Institute of Child Development of the University of Minnesota has an opening for a senior appointment beginning September 1976. Preference will be given for specialization in the area of cognitive development, broadly interpreted. Interested persons should send copies of their curriculum vitae to **Professor Herbert L. Pick, Jr., Institute of Child Development, University of Minnesota, Minneapolis, Minn. 55455.** Deadline for receipt of materials is 1 December 1975. *The University of Minnesota is an Equal Opportunity/Affirmative Action Employer.*

ASSISTANT PROFESSOR OF NEUROSCIENCE

Neuroanatomist position available fall 1976. To develop quality research program and participate in teaching of graduate and medical students in strongly interdisciplinary department. Postdoctoral experience preferred. Application deadline 1 March 1976. Send curriculum vitae, three letters of reference, and reprints to: **Dr. Frederick A. King, Chairman, Department of Neuroscience, University of Florida College of Medicine, Gainesville, Florida 32610.** *Equal Employment Opportunity/Affirmative Action Employer.*

ASSISTANT PROFESSOR, Department of Biochemistry, St. Louis University School of Medicine. The Department is inviting applications from well-qualified Ph.D.'s or M.D.'s in the fields of physical chemistry and molecular biology. Two appointments will be made effective for September 1976. A research proposal leading to ongoing research is essential. Good salary and initial research support are available. The Department is responsible for teaching both medical and graduate students. Applicants please submit curriculum vitae to **Dr. Robert E. Olson, Chairman, Department of Biochemistry, St. Louis University School of Medicine, 1402 South Grand Boulevard, St. Louis, Missouri 63104.** *An Equal Opportunity Employer.*

CHALLENGING POSITIONS FOR BIOMEDICAL SUBJECT SPECIALISTS

Scientists with M.D., Ph.D., or M.S. and broad interest, training, and experience in biochemistry, immunology, virology, carcinogenesis, cancer therapy, and other cancer research areas are invited to send a complete curriculum vitae, including a full list of biomedical courses taken, publications, and names of references to the following address if they are interested in a career as biomedical information specialists. Send complete curriculum vitae to **Dr. W. R. Foster, Smithsonian Science Information Exchange, Room 300, 1730 M St., NW, Washington, D.C. 20036.**

CHAIRMAN, Department of Biochemistry, University of Missouri-Columbia. The departments of Agricultural Chemistry (College of Agriculture) and Biochemistry (School of Medicine) have recently merged. The combined department serves both professional schools and offers graduate and undergraduate programs in biochemistry. Applicants for chairman are invited to send curriculum vitae and the names of three references to: **Dr. Constantine Anast, Biochemistry Search Committee, School of Medicine, University of Missouri-Columbia, Columbia, Missouri 65201.**

The University of Missouri-Columbia is an Equal Employment and Educational Opportunity institution.

POSITIONS OPEN

CELL BIOLOGIST, CELLULAR IMMUNOLOGIST, PLANT PHYSIOLOGIST. Positions are open for fall 1976 at assistant professor or higher. Preference will be given to biochemically oriented research in development, membranes, and regulation. Postdoctoral experience and ability to teach cell biology and plant physiology and anatomy courses in an NIH-sponsored training program are required. **WILDLIFE BIOLOGIST.** Preference given to research in Great Plains management problems. Assistant professorship or higher is available January 1976 and requires experience beyond the Ph.D. **ELECTRON MICROSCOPIST.** Instructor-level position to teach course to graduate students and supervise TEM facility. Time available for independent research. **INSTRUCTORS.** Candidates must have teaching experience. Full-time positions with time for research. All applicants should submit résumé, three letters of reference, reprints, and research plans to **L. E. Roth, Director, Division of Biology, Kansas State University, Manhattan, Kansas 66506.** *An Affirmative Action/Equal Opportunity Employer.*

CHAIRPERSON DEPARTMENT OF PHYSIOLOGY SOUTHERN ILLINOIS UNIVERSITY AT CARBONDALE

Southern Illinois University at Carbondale is a state-supported comprehensive institution with a current enrollment of some 19,000 students. It offers a full range of undergraduate and graduate programs including law and medicine.

The chairperson of the Department of Physiology is the chief administrative official of a department with a full range of instructional programs including undergraduate and graduate studies, and interaction with the School of Medicine.

Qualifications include an earned doctorate, proven scholarship, research, and some administrative experience. The salary is open.

Nominations and applications should be received by 1 December 1975. Interested applicants should send inquiry and curriculum vitae to:

Dr. William Dyer
Search Committee
162 Neckers A
Southern Illinois University
Carbondale, Illinois 62901

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THE BRAZILIAN SPACE RESEARCH INSTITUTE—INPE COMBUSTION ENGINEER

The Brazilian Space Research Institute [Instituto de Pesquisas Espaciais (INPE)], requires an experienced combustion engineer to work in its combustion research laboratory which is in the process of being installed. The laboratory will mainly be concerned with development work on small solid-fuel rocket motors and combustion instabilities. The post will be initially for 1 year, with the possibility of renewal. Round-trip air tickets will be provided for the successful candidate and his family. For further details please send curriculum vitae to **Dr. Fernando de Mendonça, Director, INPE, Caixa Postal 515, São José dos Campos, São Paulo, Brazil.**

GRADUATE SCHOOL DEAN

We invite applications for the position of Dean of the School of Graduate and Postdoctoral Studies. **Qualifications:** administrative and teaching experience and a background in research. Should have demonstrated strong leadership ability in previous academic positions. **Organization:** private, nonprofit, nonsectarian, coeducational university and an *Equal Opportunity/Affirmative Action Employer.* Curriculum vitae should be sent to **Chairman, Department of Physiology and Biophysics, The University of Health Sciences/The Chicago Medical School, 2020 West Ogden Avenue, Chicago, Ill. 60612.**

DEAN OF GRADUATE COLLEGE UNIVERSITY OF ILLINOIS AT THE MEDICAL CENTER

Responsibilities: Provides administrative leadership for graduate programs in the Health Sciences: administers central research resources and facilities; promotes advancement of research for students and faculty; chairs the Campus Research Board.

Qualifications: A Ph.D. or other doctoral degree with achievements and broad experience in research, graduate education, and administration.

Submit nominations and curriculum vitae to: **Dr. Sheldon Dray, Chairman of Search Committee, Head of Department of Microbiology, University of Illinois at the Medical Center, Chicago, Illinois 60612.**

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BIOCHEMICAL PHARMACOLOGISTS

Your chance to remain in the forefront of your field.

With large pharmaceutical corporation, ideally located in desirable New York City suburb . . . where our expanding Research Program has generated openings on our Senior Staff for Biochemical Pharmacologists. Candidates should have a Ph.D. in Biochemistry, Pharmacology, or Physiology, and up to 5 years of industrial or academic work experience, preferably in the effects of pharmacologic agents on biological systems. The ideal individuals will have a thorough knowledge of cyclic nucleotide function and metabolism, and be capable of applying this knowledge to the study of cardiovascular and allergic disease models at the molecular and cellular levels. Some familiarity with In Vivo Pharmacology is also desirable. These positions offer excellent starting salaries and a comprehensive package of fringe benefits. Please submit detailed résumé, in strictest confidence, including salary history to:

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Pharmacologist, M.S.

High-potential individual with or without experience is required in Pharmacological Research & Development for gastrointestinal compounds.

Qualified candidates should provide a résumé to: Thomas G. MacNamara.

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(Suburban Philadelphia)

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OREGON STATE UNIVERSITY

Applications are invited for **Chairperson** of the Department of Geology starting September 1976. Applicants should have demonstrated experience or potential in leadership and administrative responsibilities, a strong research background and teaching capabilities, and have the qualifications for rank of professor. Contact **Dr. Keith F. Oles, Department of Geology, Oregon State University, Corvallis, Oregon 97331**. Closing date: 2 January 1976. *Oregon State University is an Affirmative Action/Equal Opportunity Employer.*

FACULTY POSITIONS

The University of Missouri-Columbia School of Medicine has vacancies for faculty positions in the Departments of Child Health, Family Practice, Internal Medicine, Neurology, Ophthalmology, Pharmacology, Psychiatry, Radiology, and Surgery. Inquiries should be sent to the individual departmental chairmen, **University of Missouri School of Medicine, Columbia, Mo. 65201**. *An Equal Opportunity Employer.*

FACULTY POSITION: BIOPSYCHOLOGY. To develop research program in brain-behavior relationships in a field complementing existing programs in sensory physiology, psychopharmacology, and sleep. Competence in neuroanatomy and histology and postdoctoral experience required. Will teach undergraduate and graduate psychology. Assistant or associate professor. \$12,000 to \$14,820 per academic year. Start: August 1976. Curriculum vitae and three letters of reference to: **Faculty Search Committee, Department of Psychology, University of Wyoming, Box 3415, University Station, Laramie, Wyoming 82071**. *The University of Wyoming is an Equal Opportunity Employer.*

DEPARTMENT HEAD: Nominations and applications are invited for head of Ph.D.-granting Department of Chemistry. Teaching experience and proved research ability as well as earned doctorate. Appointment will be at rank of full professor with salary and teaching load negotiable. *Equal Opportunity Employer.* Send résumé and references to:

H. David Lipsich, Chairman
Search Committee
Office of the Dean
McMicken College of Arts and Sciences
University of Cincinnati
Cincinnati, Ohio 45221

INDUSTRIAL MICROBIOLOGIST

Requires work experience and thorough knowledge in commercial production of microbial insecticides. Tremendous opportunity for right person with major pharmaceutical company.

Send résumé to

Box 415, SCIENCE.

JUNIOR FACULTY. Department of Anatomy, M.D., and/or Ph.D. Original research program, teaching experience in gross anatomy. Send curriculum vitae, reprints, and bibliography to **Chairman, Department of Anatomy, University of Colorado Medical School, 4200 East Ninth Avenue, B111, Denver, Colorado 80220**.

The University of Colorado is an Equal Opportunity Employer.

The University of Texas Health Science Center at Houston announces recruitment has been initiated for the position of **MEDICAL SCHOOL DEAN**. Candidates must have previous medical school administrative experience. Inquiries should be submitted to **Louis A. Faillace, M.D., Chairman, Search Committee, Department of Psychiatry, The University of Texas Medical School at Houston, P.O. Box 20708, Houston, Texas 77025**.

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Department in large midwestern university has several openings in **ONCOLOGY RESEARCH PROGRAM**. Interested in persons with expertise in antigen isolation and characterization, enzymology, and tumor immunology. Appointments will be commensurate with experience at either postdoctoral or faculty level.
Box 374, SCIENCE

MANAGER

For international consulting project development.

Duties: To conceive, design, market, manage, and provide headquarters liaison for international consulting projects in mineral engineering, exploration and development, analytical research, land planning, project evaluation, and feasibility determination.

Area of work: Pacific Rim including Alaska, Canada, Australia, New Zealand, New Guinea, Malaysia, and Philippines.

Requirements: Field and management experience in at least two of the areas listed above, one of which must be Alaska. Mineral experience should include massive sulfides, uranium, porphyry coppers, industrial minerals, and precious metals including placer deposits. Training in analytical procedures as applied to geochemistry desirable. Experience should include cost estimating, program budgeting, and program sales development. Minimum education is bachelor of science in geology, geochemistry, geophysics, or mining engineering. Applicants must be willing to relocate to Fairbanks, Alaska. Job involves extensive unaccompanied international travel and work at isolated bush locations for 5 to 8 months at a stretch. Pilot license desirable but not essential. Northern winter field experience desirable. Must be willing to work in bush tent (?) camps during winter. Must be willing to work 7 days per week while in the bush. Pay commensurate with experience and ability.

Respond in confidence to **Personnel Manager, Box 80006, College, Alaska 99701**.

DEPARTMENT OF DERMATOLOGY POSTDOCTORAL—FACULTY POSITIONS

Two 2-year positions immediately available as part of an interdisciplinary program on molecular basis of proliferative skin disease. Projects include: (i) regulation of prostaglandin metabolism in normal and diseased skin; (ii) use of somatic cell genetics to understand the regulation of proliferation and differentiation in normal and diseased skin.

A superior 2-year postdoctoral performance may result in an appointment to a junior faculty position in the University of Michigan Medical School.

Please send a curriculum vitae together with a brief statement of research goals and teaching interests, as well as names of three references, to: **Box 420, SCIENCE.**

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POSTDOCTORAL POSITION. Opening available immediately in biochemical studies on bacterial amino acid metabolism. Experience in protein isolation and enzymology is essential and interest in molecular genetics desirable. Salary range \$13,000 to \$15,000. Have résumé and reference letters sent to: **Dr. Thomas Leisinger, Mikrobiologisches Institut, Eidgenössische Technische Hochschule, Universitätstrasse 2, CH-8006 Zürich, Switzerland.**

POSTDOCTORAL POSITION IN TUMOR IMMUNOLOGY. Immediately available. Experience in mammalian tissue culturing required. Send curriculum vitae and names of three references to: **Dr. R. D. Portet, Biochemistry Department, Nelson Biological Laboratories, Rutgers University, New Brunswick, N.J. 08903.**

POSTDOCTORAL POSITION. An immediate opening with project relating to the in vitro interaction of cells with foreign surfaces. Applicant must have experience in handling and culturing primary and established mammalian cell lines. Salary \$11,000 per year. Send résumé plus references to **Dr. Allan S. Hoffman, Center for Bioengineering, FL-20, University of Washington, Seattle, Washington 98195**. *An Equal Opportunity/Affirmative Action Employer.*

POSTDOCTORAL POSITION

Available immediately for **neuroendocrinologist**, Ph.D. with training in nucleic acid and protein synthesis; research experience in monoamine-steroid hormone interaction desirable, \$9,000 to \$10,000 per year. Send résumé and three references to **Dr. Satya P. Kalra, Department OB-GYN, College of Medicine, University of Florida, Gainesville, Florida 32610**.

POSTDOCTORAL POSITIONS

Applications are invited for postdoctoral work on structure, structure change, and function of hemoglobin, rhodopsin, nucleic acids. For orientation, see: *Ann. N.Y. Acad. Sci.* **244**, 10 (1975); *J. Mol. Biol.* **92**, 55 and 79 (1975); *Nature (Lond.)* **254**, 625 (1975).

Send curriculum vitae and names of three references to **Dr. S. W. Englander, Department of Biochemistry and Biophysics, University of Pennsylvania, School of Medicine, Philadelphia, Pa. 19174**.

POSTDOCTORAL RESEARCH ASSOCIATE

Postdoctoral position for collaborative research on the physiology of freshwater angiosperms, particularly in relation to carbon and other nutrient metabolism, interactions between the macrophytes and epiphytic algae and bacteria, and the decomposition of littoral flora. Available immediately; initial salary \$11,000 for 12 months, plus benefits; renewable annually; 2-year appointment desired. Applications with curriculum vitae naming three references to: **Dr. Robert G. Wetzel, W. K. Kellogg Biological Station, Michigan State University, Hickory Corners, Michigan 49060**.

POSTDOCTORAL OR RESEARCH ASSOCIATE POSITION available immediately for studies on the composition and structure of glycoconjugates from cancer cells and from tracheobronchial secretions. Experience in glycoprotein research and/or carbohydrate chemistry desirable.

Send résumé and three references to **Dr. R. Carubelli, Oklahoma Medical Research Foundation, 825 N.E. 13 Street, Oklahoma City, Oklahoma 73104**.

Equal Opportunity/Affirmative Action Employer

POSITIONS OPEN

PEDIATRIC ONCOLOGY

Applications are invited for full-time faculty position at a level of assistant or associate professor from candidates who have demonstrated research, teaching, and clinical confidence in pediatric oncology. Applicants are expected to initiate independent research programs with a small portion of time devoted to teaching and clinical responsibilities. Submit curriculum vitae, publications, and letters of reference by 1 November 1975 to **Dr. John W. Littlefield, Chairman, Department of Pediatrics, Johns Hopkins University School of Medicine, Baltimore, Maryland 21205. An Equal Opportunity, Affirmative Action Employer.** Applications from all qualified candidates are welcome; applications from minorities and women are encouraged.

PRESIDENT

A nonprofit corporation of national standing that has carried out research and development projects on human performance for a variety of public and private clients for two decades seeks a replacement for its current president who is approaching retirement.

A behavioral scientist with management and marketing experience, and with a background in the nonprofit sector, is particularly sought.

Applicants should submit credentials no later than 1 November 1975. Information should include complete work experience, including list of employers and names of immediate superiors.

Address all communications to **Box 2, Alexandria, Va. 22313.**

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THE DEPARTMENT OF PSYCHOLOGY of the University of Wisconsin-Madison invites applications for two or three appointments at the level of Assistant Professor to begin in the fall of 1976. Applicants with the following specializations will be considered: (i) Physiological psychologist with specialization in sensory physiology; (ii) physiological psychologist with specialization in CNS anatomy; applicants for these positions should have training in electrophysiological recording; (iii) developmental psychologist with specialization in social behavior and personality; (iv) developmental psychologist with specialization in perceptual development; (v) clinical psychologist with special interest in psychopathology of children. Applicants should send curriculum vitae and other supporting information to: **Chairman, New Personnel Committee, W. J. Brogden Psychology Building, University of Wisconsin, Madison, Wisconsin 53706. The University of Wisconsin is an Affirmative Action Employer.**

UNIVERSITY OF LONDON READERSHIP IN ANATOMY AT UNIVERSITY COLLEGE

The Senate invites applications for the above Readership. Salary scale £5838 to £7346 plus £399 London Allowance and threshold payments. Applications (11 copies) should be received not later than 4 November 1975 by the **Academic Registrar, University of London, Senate House, London WC1E 7HU, England,** from whom further particulars may be obtained.

RESEARCH—Basic experimental research position lasting 1 or 2 years immediately available for a postdoctoral fellow (Ph.D. or M.D.). Experience or background necessary in inflammatory disease for studies in ophthalmic immunology, Philadelphia area. Send résumé to: **K-34, P.O. Box 2066, Philadelphia, Pa. 19103.**

RESEARCH ASSOCIATE

An opening for a research associate (postdoctoral fellow) is available immediately in the laboratory of **Dr. A. Bartke.** Research on the pituitary control of testicular function will constitute the main responsibility of the candidate. A background in polypeptide hormone receptors, radioimmunoassay, or immunology will be desirable. Submit résumé and letters of reference to: **Dr. Ashton Gibbons, Ph.D., Director of Personnel, Worcester Foundation for Experimental Biology, 222 Maple Avenue, Shrewsbury, Mass. 01545.**

An Equal Opportunity/Affirmative Action Employer

POSITIONS OPEN

University of California, Irvine, Department of Molecular Biology and Biochemistry. Position for **POSTDOCTORAL FELLOW**, beginning January 1976 and another beginning September 1976. Recent Ph.D. required, preferably in the areas of cellular immunology. Candidate to work in the areas of cellular and molecular immunology (with Dr. Gale A. Granger). *Applications from all qualified candidates are welcome; minorities and women are encouraged to apply.* Send résumé, names of three references, and a brief description of research interests to: **Dr. G. A. Granger, University of California, Irvine, Department of Molecular Biology and Biochemistry, Irvine, California 92664,** immediately for the position opening in January 1976, and by January or February for the position which will be available in September 1976.

RESEARCH ASSOCIATE POSITION. Studies in lung macrophage physiology. Effects of environmental agents and various disease states. Prefer Ph.D. in immunology (or in biochemistry with interest in immunologic techniques and in cell physiology). Salary \$12,000 to \$14,000. Position available immediately. Washington, D.C. area. Send curriculum vitae and three names for references to **Box 414, SCIENCE.**

THREE-MONTH SUMMER RESEARCH ASSOCIATESHIPS in solar physics, solar-terrestrial physics, and related atmospheric sciences are available to qualified scientists in the university community with minimal, if any, research opportunities. Any university scientist with a Ph.D. in an appropriate discipline is eligible to apply. Applications must be received by 5 January 1976. Requests for informational material should be addressed to: **Research Associateship Committee, High Altitude Observatory, National Center for Atmospheric Research, P.O. Box 3000, Boulder, Colorado 80303. NCAR is an Equal Opportunity/Affirmative Action Employer.**

VISITOR APPOINTMENTS are available for new and established Ph.D.'s for up to 1-year periods to carry out research in solar physics, solar-terrestrial physics, and related subjects. Applicants should provide a curriculum vitae including education, work experience, publications, the names of three scientists familiar with their work, and a statement of their research plans. Applications must be received by 1 February 1976 and they should be sent to: **Visitor Committee, High Altitude Observatory, National Center for Atmospheric Research, P.O. Box 3000, Boulder, Colorado 80303. NCAR is an Equal Opportunity/Affirmative Action Employer.**

VERTEBRATE BIOLOGIST

Biology faculty position available, March or September 1976, assistant professor rank, Ph.D., preferred specialization vertebrate embryology-histology, teach courses in specialty and participate in general biology and research, undergraduate and master's programs. Send complete résumé and two reference letters to **Dr. J. S. McDaniel, Department of Biology, East Carolina University, Greenville, N.C. 27834.**

VICE PRESIDENT FOR HEALTH AFFAIRS

The University of Connecticut is seeking candidates for the position of Vice President for Health Affairs. This senior officer reports directly to the President and is responsible for all University health-related programs including the schools of Medicine and Dental Medicine, the Dempsey Hospital, and clinical programs located primarily on the University Health Center campus in Farmington; and the schools of Allied Health Profession, Nursing, and Pharmacy, and the Student Health Service, all on the Storrs campus. Candidates should have doctoral-level professional qualifications, preferably in a field and of a quality suitable for professional appointment in a University department, plus substantial senior administrative experience, preferably in an academic health center or its equivalent. Résumés should be sent no later than 15 October 1975 to the **Office of the Vice President, The University of Connecticut Health Center, Farmington, Connecticut 06032.**

An Equal Opportunity Employer, M/F

WILDLIFE EXTENSION AGENT—Information and Education Program in Predator Control. Initial location at Oregon State University, Corvallis. Will be relocated. Available 1 January 1976. Application deadline 1 November 1975. Position duration 18 months. Salary \$13,000 with rank of Assistant Professor. Contact **Oregon State University Extension Service Personnel Coordinator, 125 Extension Hall, Oregon State University, Corvallis, Ore. 97331.**

Oregon State University is an Affirmative Action/Equal Opportunity Employer.

BIOCHEMICAL PHARMACOLOGIST

Challenging position available for Ph.D.-level scientist in the biochemical pharmacology area. Activities will include biochemical studies of the action of drugs at a subcellular level and investigations on animals using radioimmunoassay techniques.

Our company, a major ethical pharmaceutical manufacturer with modern extensive research facilities, is located in cosmopolitan Montreal. Salary will be commensurate with qualifications and experience. Please send complete résumé to:

**Personnel Department
Ayerst Laboratories
P.O. Box 6115
Montreal, Quebec
Canada H3C 3J1**

POSTDOCTORAL RESEARCH

The National Research Council announces the Research Associateship Programs for 1976. The programs provide scientists and engineers opportunities for postdoctoral research on problems in the fields of **CHEMISTRY - SPACE SCIENCES - PHYSICS - ATMOSPHERIC & EARTH SCIENCES - ENGINEERING - LIFE SCIENCES - MATHEMATICS** and **ENVIRONMENTAL SCIENCES.**

Appointments are made on a competitive basis, and are tenable in selected federal research laboratories at more than 80 locations.

Appointments are open to recent recipients of the doctorate and in some cases to senior investigators. Some are open to non-U.S. citizens also.

Approximately 250 awards will be made in 1976. Stipends (subject to income tax) will range from \$15,000 upwards. Grants will be provided for family relocation and for professional travel during tenure.

Applications must be postmarked by 15 January 1976. Awards will be announced in April.

Information on specific research opportunities and application materials are available from:

**Associateship Office JH606S
NATIONAL RESEARCH COUNCIL
2101 Constitution Avenue, N.W.
Washington, D.C. 20418**

POSITIONS OPEN

QUANTITATIVE PLANT BIOLOGIST with Ph.D. in appropriate field, strength in aquatic and/or terrestrial plant productivity as related to the water resource, and interests in analysis and simulation of water-plant systems, for tenure-earning position as **Assistant Professor** (water science). Duty includes both research and teaching. Send résumé, transcripts, publications, and have three reference letters sent to: **Dr. Theodore C. Hsiao, Chairman, Search Committee, Department of Land, Air and Water Resources, Water Science and Engineering Section, University of California, Davis, Calif. 95616.** *Equal Opportunity/Affirmative Action Employer.*

FELLOWSHIPS

POSTDOCTORAL FELLOWSHIP

Psychophysics and Physiological Optics. Two-year fellowship beginning fall 1975 or later. Postdoctoral training in color vision and assessment of vision in clinical population. Stipend: \$10,000 for first year. Send curriculum vitae and supporting material to:

Joel Pokorny, Ph.D.
University of Chicago
Department of Ophthalmology
950 East 59 St.
Chicago, Ill. 60637
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POSTDOCTORAL FELLOWSHIP in immunology: immediate opening for candidate with experience in cellular immunology. Studies involving regulation of the humoral immune response at the molecular level; requires separation of lymphoid cell subpopulations, reconstitution of irradiated mice, and the in vitro immune response. Excellent opportunity for developing into permanent, independent position. Send curriculum vitae and references to: **Dr. Mary Jo Evans, Department of Medical Viral Oncology, Roswell Park Memorial Institute, 666 Elm Street, Buffalo, New York 14263.** *An Equal Opportunity and Affirmative Action Employer.*

FELLOWSHIPS

POSTDOCTORAL FELLOWSHIPS (two), available immediately for research in the visual sciences: (i) biochemistry of glycoproteins of the retina and (ii) immunological studies of the cornea. Salary \$10,000 per year. Send inquiries to:

Dr. E. L. Keen
Case Western Reserve University
Laboratory for Eye Research
653 Wearn Research Building
Cleveland, Ohio 44106

REPRODUCTIVE ENDOCRINOLOGY PROGRAM, PREDOCTORAL AND POSTDOCTORAL FELLOWSHIPS

Training can be obtained in association with faculty in anatomy, biochemistry, cell and molecular biology, obstetrics and gynecology, pathology, pediatrics, physiology, and zoology. Applications and other information may be obtained from **Dr. J. S. Richards, Program Coordinator, Reproductive Endocrinology Program, The University of Michigan, Ann Arbor, Michigan 48104.** *An Equal Opportunity/Affirmative Action Employer*

UNIVERSITY OF ROCHESTER SCHOOL OF MEDICINE AND DENTISTRY POSTDOCTORAL FELLOWSHIPS

IN ENDOCRINOLOGY AND METABOLISM

Positions are available for basic and clinical research with participants in a multidisciplinary, multi-departmental group. Ongoing research programs include mechanisms of action of peptide, steroid, and amine hormones at the cellular level, hormonal regulation of metabolism and of growth in normal and neoplastic tissues, neural regulation of hormone secretion and of intermediary metabolism, and metabolic determinants of growth in humans.

Stipend ranges \$10,000 to \$14,000; M.D. or Ph.D. required. Contact **Dr. William A. Peck, Endocrine and Metabolism Unit, Department of Medicine, University of Rochester School of Medicine and Dentistry, 601 Elmwood Avenue, Rochester, New York 14642.** *An Equal Opportunity Employer.*

COURSES

MARINE BIOLOGICAL LABORATORY

Woods Hole, Massachusetts 02543

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for Advanced Undergraduates and Beginning Graduate Students

BEHAVIOR—Boston University Marine Program and MBL—An intensive, largely ethological, approach to the biology of terrestrial and marine animal behavior. Seminars, lectures, laboratory and library work will cover such topics as sensory physiology, orientation, biological rhythms, communication, learning, sociobiology, and behavioral ecology. Laboratory work will consist of open-ended exercises utilizing vertebrate and invertebrate organisms, culminating in individual and independent student projects. Films will be shown. **Faculty:** Robert L. Jeanne (Instructor-in-Charge), and Jelle Atema, Boston University; Adrianus Kalmijn, Woods Hole Oceanographic Institution. Special Lecturers include D. R. Griffin, Rockefeller University; C. Moore and J. Hatch, University of Massachusetts (Boston); A. M. Stuart, University of Massachusetts (Amherst); G. Michel, Boston University; and others.

NEUROBIOLOGY—Boston University Marine Program and MBL—An intensive study of selected topics including lectures, seminars, and laboratory experiments with living material. Lectures will deal with elementary electricity; electrophysiological techniques; neuron doctrine; diffusion, resting, and action potentials; synaptic transmission; principles of sensory physiology; photoreception. Laboratory experiments will center on methods in electrophysiology. Live materials will include insect mechanoreceptors, frog sciatic nerve and sartorius muscle, lobster giant axons and neuromuscular systems, and the *Limulus* eye. **Faculty:** Fred Lang (Instructor-in-Charge), Boston University Marine Program; Edward F. MacNichol, Jr., and Alan Fein, MBL. Special Lecturers.

Tuition \$400. Room and Board \$220. A limited number of full and partial scholarships are available. Students may apply for financial aid in the space provided on the course application. For further information and application write to **Admissions Office, Marine Biological Laboratory, Woods Hole, Mass. 02543, or telephone 617-548-3705, Ext. 212.** Enrollment closes 1 November 1975; applicants will be notified by 1 December.

ECOLOGY—The Ecosystems Center, MBL—A lecture, laboratory, and field course on the structure, function, and interactions of ecosystems. Lectures will focus on the history, evolution, successional patterns, metabolism, productivity, and nutrient budgets of major ecosystems. The cycling of nutrients, radionuclides, and other toxins through ecosystems will be considered. Laboratory work will deal with analyses of selected segments of ecosystems and will include field sampling expeditions to local terrestrial and marine communities. **Faculty:** George M. Woodwell (Instructor-in-Charge), Daniel Botkin and Charles Hall, The Ecosystems Center; Special Lecturers include I. Valiela, Boston University Marine Program; J. Teal, K. O. Emery, J. Ryther, and H. Jannasch, Woods Hole Oceanographic Institution; R. H. Whittaker, Cornell; F. E. Smith, Harvard; and others.

DEVELOPMENTAL BIOLOGY—Marine Biological Laboratory—An intensive study of developmental processes and principles employing marine invertebrates and selected vertebrates. Major emphasis will be placed on the roles of genes and on regulatory mechanisms. Emphasized will be problems of oogenesis, spawning, and fertilization; cellular affinities; differentiation of tissues; molting and metamorphosis; regeneration; hormonal controls. Plant and animal development will be compared and contrasted. There will be opportunity to pursue individual projects. **Faculty:** Walter S. Vincent (Instructor-in-Charge), University of Delaware; James D. Ebert, Carnegie Institution of Washington and MBL; other faculty to be appointed. Special Lecturers.

FELLOWSHIPS

The **Cancer Research Center** of the University of North Carolina at Chapel Hill has immediate openings for persons with Ph.D. and M.D. degrees for training in basic cancer-related research under established investigators in several areas including viral oncology, biochemistry of chromatin and DNA polymerases, immunology, chemical carcinogenesis, and basic endocrinology.

Training is for 1 to 2 years. Stipend is \$10,000 to \$11,500 per year. Send curriculum vitae, names and addresses of references, and a statement of research to **Mrs. A. D. Hyche, Cancer Center Program, University of North Carolina School of Medicine, 126 Macnider, Chapel Hill, N.C. 27514.**

NEW ZEALAND NATIONAL RESEARCH ADVISORY COUNCIL MYCOTOXIN RESEARCH FELLOWSHIPS

Applications are invited from scientists interested in the biochemistry, microbiology, chemistry, or pathology of mycotoxic diseases, particularly facial eczema. This disease is caused by a toxin, sporidesmin, from the fungus *Pithomyces chartarum* which proliferates on pasture when weather conditions are suitable. Sheep and cattle eating contaminated pasture suffer from liver damage and may become photosensitive.

Research on facial eczema is multidisciplinary and includes studies on the biochemical action of the toxin, protection against the toxin by nutritional means, action of fungicides, microbial ecology, and development of immunochemical methods for protecting animals.

Particular consideration will be given to candidates suitably qualified to work in the following specific areas of interest:

1) Synthesis of model compounds related to sporidesmin and which may be linked to protein or polypeptides for immunological studies.

2) Tracer kinetic study of zinc in healthy animals and animals with liver damage. Recent research has shown this mineral to protect against sporidesmin toxicity and data is needed on its absorption, turnover, and excretion and how these are influenced by zinc dose rates and different methods of administering the zinc.

3) Study of the biochemical action of sporidesmin and the role of zinc or other protective chemicals in reducing the toxicity.

4) Investigation into the persistence of fungicides on pasture and development of improved formulation of fungicides.

Fellows will work at Ruakura Agricultural Research Centre where good field and laboratory facilities have been established for experimental pathology, microbiology, nutrition, and biochemistry.

Fellowships are normally for 2 years with the possibility of having an extension up to another 2 years or appointment to a permanent position.

The emolument will be up to \$17,945 a year depending on scientific merit. The emolument is taxable. If applicable, the employer's contribution to superannuation scheme will be paid. If reciprocal social security between the fellow's country and New Zealand does not apply, a medical insurance premium will be paid.

A grant equivalent to return economy-class air fares to New Zealand from the fellow's home or the town and country in which he is employed when appointed will be paid. If the fellow's spouse and family accompany him a grant equivalent to their return fares will also be paid. A grant will be made toward the cost of transport of personal effects. While in New Zealand reasonable traveling expenses incurred in connection with the research work will be paid. Housing is available for a married fellow.

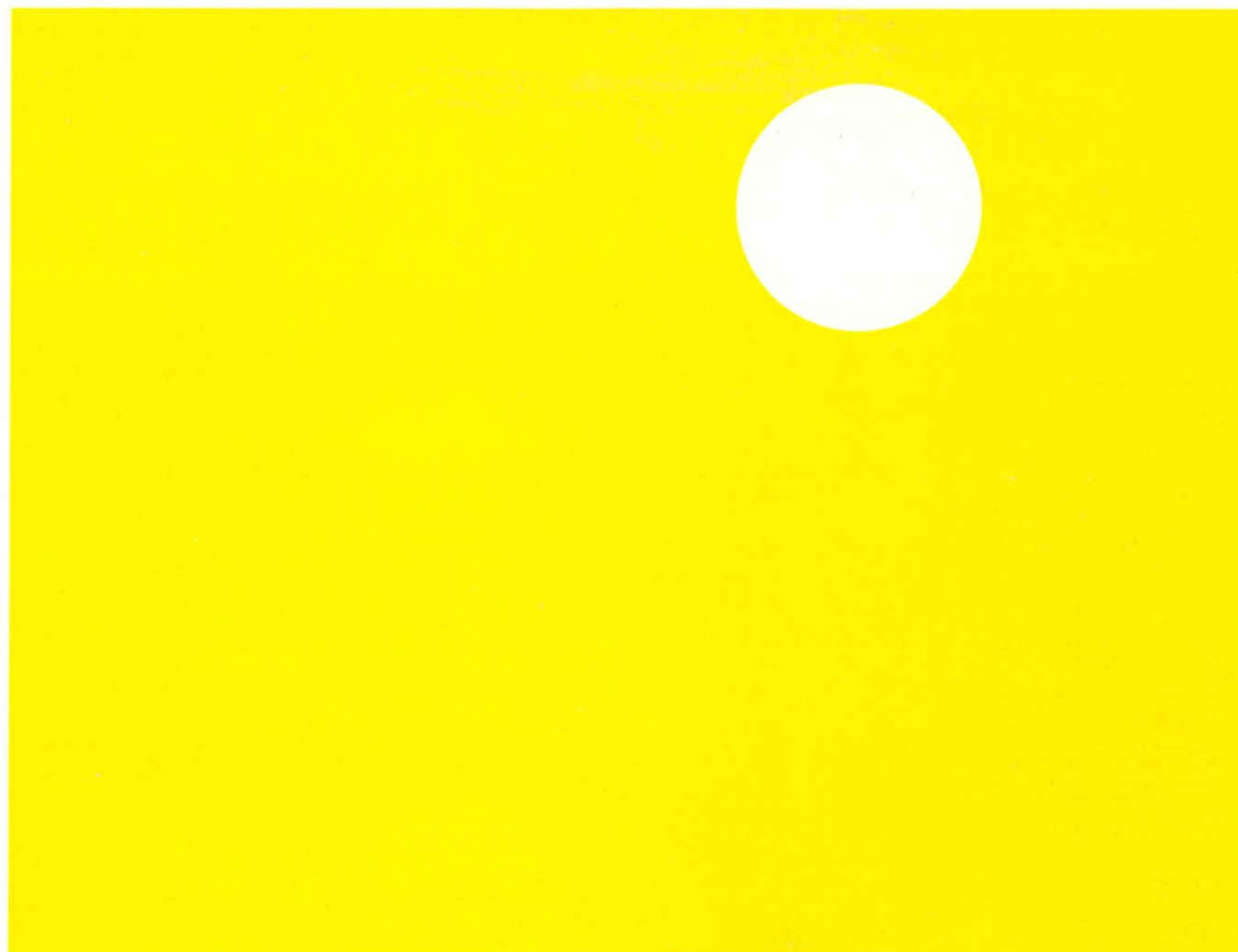
Further details and application forms are available from: **The Director, Ruakura Animal Research Station, Private Bag, Hamilton, New Zealand.**

Applications close with: **The Secretary, National Research Advisory Council, P.O. Box 8004, Wellington, New Zealand, on 31 March 1976.**

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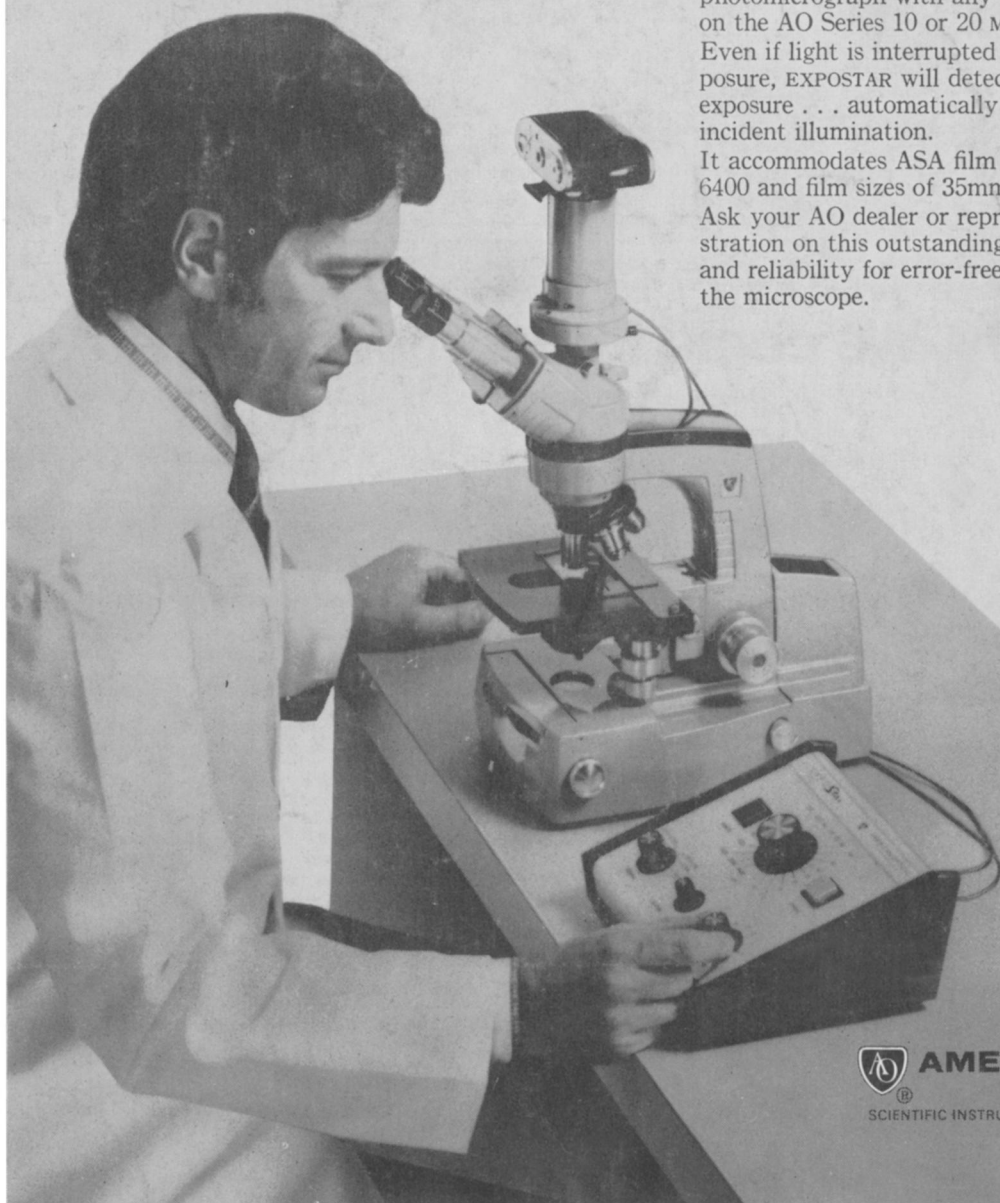
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