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To order your own copy of this paperbound report (ISBN 0-87168-224-9; 1975, xiv + 50 pp.), send \$3.45 retail price or \$2.95 AAAS member price (prepaid) to:

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Circle No. 334 on Readers' Service Card

Personnel Placement

Only those employers who will not discriminate on the basis of race, sex, religion, age, color, or national origin should submit Personnel Placement advertising.

POSITIONS WANTED: 40¢ per word; use of Box Number counts as 10 additional words. Minimum charge \$10. Prepayment required. This rate applies to individuals only; personnel agencies and companies take display rate for all advertising.

DISPLAY (POSITIONS OPEN, MARKET PLACE, AND SO FORTH): \$110 per inch, minimum (1 inch is equivalent to 12 lines of 48 characters each). Ads over 1 inch billed to nearest quarter inch. No charge for Box Number. Rates net. No agency commission allowed for ads under 4 inches. No cash discount. Prepayment required for foreign advertising. Purchase orders and billing information must accompany all other advertising.

COPY for ads must reach SCIENCE by Wednesday, 3-1/2 weeks before issue date (Friday of each week) requested. Send copy for all positions wanted ads and display ads under 5 inches to:

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Effective 1 January 1976, the display rate (Positions Open, Market Place, Fellowships, and so forth) will be \$130 per inch, minimum, per insertion.

POSITIONS WANTED

Agronomist/Botanist (physiology). Crop production, herbicide, and transpiration specialties. University-applied research experience. Ph.D. 1970. Box 496, SCIENCE. 12/12, 19

Analytical Chemist: B.S. 1967. Seeking R & D position doing materials analysis and characterization. No agencies please. Box 487, SCIENCE. 12/19, 26

Biochemist-Epidemiologist-Journalist: Ph.D. (biochemistry), MPH (epidemiology), and 7 years of journalism experience, including newspaper reporting and present position as award-winning writer/editor of an international quarterly science magazine featuring reports and reviews on current biomedical and industrial research for professionals. University research and teaching experience; investigative and interviewing skills. Good with words. Seeks a more challenging position along present lines, but will consider other proposals that would employ all these attributes. Box 489, SCIENCE. X

Immunochemist/Protein Chemist. Ph.D. 1962. Expertise in coagulation, fibrinolysis, immunoglobulin structure. RIA, HAI, sequence analysis experience. Seeks position in university, medical center, or industry. Salary, location open. Box 497, SCIENCE. X

Life Scientist—Microbiology/Virology. Ph.D. Broad experience (including administration) in applied and basic research in viruses, bacterial products, vaccines, carcinogenesis, biochemistry, and enzymes. Prefers Midwest. Box 498, SCIENCE. X

Physiologist. Ph.D. 1972. Research in mammalian and comparative cardio-respiratory physiology. Broad teaching experience. Seeks university/college research/teaching position. Box 499, SCIENCE. X

POSITIONS WANTED

Physiologist. Ph.D. 1962. Seeks academic or industrial position. Interests: respiratory, circulatory systems; environmental physiology; systems analysis, bioinstrumentation, artificial organs. Experience: research, teaching, administration. Box 500, SCIENCE. X

Ph.D. Somatic Cell Genetics. Training in population genetics and statistics. Expert with computers. Publications. Desires teaching/research position. Box 478, SCIENCE. X

POSITIONS OPEN

APPLIED DEVELOPMENTAL PSYCHOLOGISTS. Positions in learning/developmental problems and aging to add applied developmental emphasis to existing graduate program. Rank open. Submit curriculum vitae and three letters of recommendation to: **Developmental Search Committee, Department of Psychology, University of Maryland Baltimore County, 5401 Wilkens Avenue, Baltimore, Md. 21228. An Equal Opportunity/Affirmative Action Employer.**

The Faculty of Medicine of the Memorial University of Newfoundland, St. John's, Newfoundland, invites applications for a position as **ASSISTANT PROFESSOR OF BIOCHEMISTRY** from those who have major but not sole interest and expertise in the application of GC-MS to problems of biochemical interest. The successful candidate will be responsible for the operation of a combined GC-low resolution MS-computer system which will be used principally for research, but will also be available for identification of toxic substances in body fluids. Her or his teaching role will include general biochemistry, teaching medical students in a course that is integrated with other aspects of cell biology. An annual travel allowance is provided. Research space will be available in association with Dr. James C. Orr, who will join the faculty on 1 December 1975. Applications should include a curriculum vitae, along with the names of three referees, and be addressed to: **Dr. James C. Orr, Associate Dean, Basic Medical Sciences, Faculty of Medicine, Memorial University of Newfoundland, St. John's, Newfoundland, Canada, A1C 5S7.** For the duration of the Canadian postal strike, address correspondence to: **Memorial University of Newfoundland, c/o General Delivery, Post Office, Houlton, Maine 04730, U.S.A.**

Candidates are required for an opening at the **ASSISTANT PROFESSOR** level in the Department of Medicine, Division of Hematology. The candidate will be expected to develop innovative research in hemostasis. Demonstrated abilities in research, teaching, and clinical medicine are required. Candidates should submit curriculum vitae, a résumé of future research plans, and the names of three referees to **Box 502, SCIENCE.**

Columbia University is an Equal Opportunity/Affirmative Action Employer.

If outstanding candidates can be located, the Physics Department of the University of California, Berkeley, expects during the next few years to be making a small number of appointments at the **ASSISTANT PROFESSOR** level. The preferred fields are solid state experimental physics, experimental astrophysics, and particle physics.

It is probable that no appointment will be made before 1 July 1977, although an earlier date is conceivable. Applicants should write to the **Chairman of the Physics Department, University of California, Berkeley, Calif. 94720,** giving curriculum vitae, publication list, and references. *The University of California is an Affirmative Action Employer. Minority and women candidates are encouraged to apply.*

University of Utah invites applications for two **ASSISTANT PROFESSORSHIPS** in analytical and organometallic chemistry, respectively. Teaching and postdoctoral research experience are preferred qualifications. Duties, to begin autumn 1976, will involve undergraduate and graduate teaching as well as supervision of graduate research. The candidates will be expected to develop vigorous research programs while maintaining high pedagogic standards. Curriculum vitae, transcripts of undergraduate and graduate credits, research plans, and letters of recommendation from three scientists familiar with the applicant's qualifications should be sent to **Dr. Edward M. Eyring, Chairman, Department of Chemistry, University of Utah, Salt Lake City, Utah 84112,** before 15 January 1976. *An Equal Opportunity/Affirmative Action Employer.*

POSITIONS OPEN

ASSISTANT PROFESSOR IN BIOCHEMISTRY. A position is available in the Biochemistry Division for a highly qualified scientist with research interests in one or more of the following areas: immunochemistry (mechanisms or applications), ultrastructure, or physical biochemistry of macromolecules. In addition to her/his specialty, applicant must also be qualified to teach general chemistry. The applicant should submit a biographical sketch including publications, research experience, a description of the nature of future research, and the names of three people who can be contacted for letters of reference. Correspondence should be addressed to: **Dr. J. Norman Hansen, Biochemistry Search Committee, Department of Chemistry, University of Maryland, College Park, Maryland 20742. An Equal Opportunity Employer.**

DEPARTMENT OF ENTOMOLOGY UNIVERSITY OF CALIFORNIA, RIVERSIDE

A full-time position at level of **assistant entomologist and assistant professor** will be available 1 July 1976. Duties will involve 90 percent basic and applied research on insect pest management of vegetable crops in southern California and 10 percent teaching, including graduate student supervision. The Ph.D. is required. Applicants should have training in applied entomology, ecology, insect toxicology, and statistics. Closing date for applications is 1 March 1976. Send résumé, names of five referees, transcripts of undergraduate and graduate work, and list of publications to: **H. T. Reynolds, Search Committee Chairman, Department of Entomology, University of California, Riverside, California 92502. The University of California is an Equal Opportunity/Affirmative Action Employer.**

The University of California, Irvine, Department of Pathology, is recruiting for a faculty position at the **ASSOCIATE PROFESSOR OR PROFESSOR** level who will also serve as **CHIEF OF CLINICAL PATHOLOGY** of the Long Beach Veterans Administration, a University teaching hospital. Candidates must be M.D.'s and clinical Board-certified. Service administrative responsibilities include direction and operation of Clinical Laboratory. Teaching responsibilities involve medical students, residents, and paramedical training programs. Expected to develop independent research activities. Experience in operation of clinical laboratory is necessary prerequisite. *Applications from all qualified candidates are welcome; minorities and women are encouraged to apply.* Send curriculum vitae before 1976 to:

**Dr. Edward R. Arquilla, Chairman
Department of Pathology
University of California, Irvine
Irvine, California 92717**

ASSOCIATE DEPUTY ASSISTANT ADMINISTRATOR FOR HEALTH AND ECOLOGICAL EFFECTS

The U.S. Environmental Protection Agency is seeking a manager with a strong background in ecology to assist in the planning, management, and evaluation of a large multidisciplinary research and development office made up of staff offices and field laboratories. The mission of the office is to develop health and ecological data needed for the establishment of standards and criteria for those components of the environment in which specific pollutants or activities may require control; determine the fate, transport, and exposure effect of environmental pollutants; develop and verify methods and models for analyzing the socioeconomic impact of environmental degradation; assess the environmental and socioeconomic impacts of existing and proposed policies and standards; and coordinate Agency policies and programs related to carcinogens and similar agents. Candidates must have a bachelor's or higher degree (preferably Ph.D.) with major study in ecological, biological, or physical sciences and extensive experience relating to the mission of the office.

Location: Washington, D.C.

Salary range: \$36,338 to \$37,800 plus Civil Service benefits.

Contact: Please send detailed résumé or a completed Standard Form 171 (Personal Qualifications Statement), which can be obtained from any federal government personnel office, to reach EPA no later than 31 December 1975, to:

**Mrs. Brenda Cunningham (PM-212)
Personnel Management Division
Environmental Protection Agency
401 M Street, SW
Washington, D.C. 20460**

An Equal Opportunity Employer

POSITIONS OPEN

The Johns Hopkins University. A position of ASSISTANT PROFESSOR in the field of physical chemistry (experimental or theoretical) will be available on 1 July 1976. Applicants are requested to submit curriculum vitae and arrange for three letters of recommendation to be sent at the time application is made. Materials should be addressed to **Dr. Dean Robinson, Physical Chemistry Search Committee, The Johns Hopkins University, Baltimore, Maryland 21218.** *The Johns Hopkins University is an Equal Opportunity/Affirmative Action Employer.*

ASSISTANT RESEARCH BIOCHEMIST/CHEMIST. A position is available at UCLA Mental Retardation Research Center for an assistant research biochemist expected to supervise and coordinate work of mass spectrometry group of four. Work aims at development of techniques for analysis of body constituents with the aid of computer-assisted gas chromatograph/mass spectrometer. Experience in organic mass spectrometry, at low and high resolution, ability to interpret mass spectra and to supervise professional staff essential. Candidate expected also to undertake independent research on specific protein structures (galactose-phosphate: uridyl transferase) in relation to enzyme deficiency diseases. Relevant experience essential. Ph.D. or equivalent qualification. *UCLA is an Equal Opportunity/Affirmative Action Employer desirous of receiving applications and recommendations of minority and women candidates, as well as other qualified persons.* Write: **G. Popják, M.D., D.Sc., University of California Mental Retardation Research Center, 760 Westwood Plaza, Los Angeles, California 90024.**

Applications are invited for a research/teaching position in **BENTHIC ECOLOGY** at the University of North Carolina Marine Sciences Program. The successful candidate should have experience in systematics of marine organisms and research interests in biological processes. Appointment will be at the level of assistant or associate professor. Applicants will initiate a research program at the Institute of Marine Sciences at Morehead City and can teach at Chapel Hill.

Send inquiries, curriculum vitae, recent reprints, names of three references, and a description of research interests to: **Dr. Dirk Frankenberg, Marine Sciences Program, 12-5 Venable Hill, University of North Carolina, Chapel Hill, N.C. 27514,** by 7 January 1976. *An Equal Opportunity/Affirmative Action Employer.*

BIOCHEMIST-MICROBIOLOGIST—The Department of Biology at Kalamazoo College is seeking a biochemist-microbiologist for September 1976. This individual will offer courses in biochemistry, microbiology, and participate in the introductory biology program. Additional courses in the appointee's area of specialization may also be given; possibilities would include virology, molecular biology, or immunology.

Kalamazoo College is a small liberal arts college with a commitment to excellence in teaching and learning. Rank open; salary competitive; applicants should have the Ph.D. *The College subscribes to fair employment and Affirmative Action practices.*

Applicants should send a curriculum vitae and names and addresses of three references to: **David A. Evans, Chairman, Department of Biology, Kalamazoo College, Kalamazoo, Michigan 49007.**

UNIVERSITY OF CALIFORNIA SANTA BARBARA DEPARTMENT OF BIOLOGICAL SCIENCES

Faculty position. Effective 1 July 1976. Applications are sought from **FRESHWATER BIOLOGISTS** with research interests in such fields as secondary productivity, ecology of freshwater systems, community structure, and so forth. Any combination of field, laboratory, or theoretical orientation will be considered. The appointee would join a group of freshwater and marine biologists and ecologists in a general biology department. Teaching is required at the undergraduate level in aquatic biology and at the graduate level in the area of the appointee's special interests. We seek excellence in research and teaching. Rank and salary depending on qualifications and experience.

Applications with curriculum vitae, list of publications, names of references, and summary of research interests should be sent to: **Chairman, Department of Biological Sciences, University of California, Santa Barbara, California 93106.** Applications must be received before 31 January 1976. (This is an extension of a previously announced deadline.) Letters of reference should not be sent until requested. *The University of California is an Equal Opportunity/Affirmative Action Employer.*

POSITIONS OPEN

BIOLOGISTS VIRGINIA COMMONWEALTH UNIVERSITY

The Department of Biology invites applications for five or more positions available in August 1976, pending budgetary approval. Positions involve teaching with an opportunity for research. Persons sought should have a doctorate and be able to teach general biology and one or more of the following disciplines: cell biology, plant ecology, general ecology, microbiology, animal behavior, experimental vertebrate embryology, and aquatic ecology (macrobenthos). Applicants should state teaching and research interests. Send curriculum vitae and names of references to **Dr. Miles F. Johnson, Department of Biology, Virginia Commonwealth University, Richmond, Virginia 23284.** *An Equal Opportunity/Affirmative Action Employer.*

BIOLOGY DEPARTMENT AT UCLA

Opening for a faculty member with research interests in molecular, cellular, or biochemical aspects of plant development. Teaching duties at the undergraduate and graduate levels in related areas. Applicants should have postdoctoral research experience. Provide a curriculum vitae noting research and teaching interests and include names of three referees from whom references can be requested. Send materials to: **Chairman, Biology Department, University of California, Los Angeles, California 90024.** Deadline: 1 February 1976.

An Equal Opportunity Employer. Applications from women and members of minority groups are encouraged.

BIOMECHANICS POSTDOCTORAL POSITION

The Orthopaedic Biomechanics Laboratory at the University of Cincinnati has an immediate opening for a recent Ph.D. with strong interest and experience in the musculoskeletal system. The successful candidate will participate in a number of research projects including mechanical studies of soft tissue and the development of new diagnostic devices to evaluate ligamentous injuries. Tenure is for 2 years with a stipend from \$10,000 to \$14,000 depending upon background. Interested candidates should send résumé and two letters of recommendation to **Dr. Edward S. Grood, Co-Director, Orthopaedic Biomechanics Laboratory, College of Medicine, University of Cincinnati, Cincinnati, Ohio 45267.** *An Equal Opportunity/Affirmative Action Employer.*

BIOMEDICAL ENGINEERING FACULTY. The Department of Biomedical Engineering at Boston University has several faculty openings for fall 1976 at the following levels: **assistant or associate professor, Ph.D.** in engineering or physiology with experience, to organize an area of biomedical research and teaching. Excellent research opportunities through joint appointment at Medical School or other department of the university. Salary and research field negotiable. Also **adjunct professor** for part-time teaching of bioelectronics, biomechanics, physiology, or other biomedical engineering specialties. Send résumé and description of interests to: **Dr. R. J. McLaughlin, Chairman, Department of Biomedical Engineering, Boston University College of Engineering, 110 Cummington Street, Boston, Massachusetts 02215.** *Boston University is an Equal Opportunity/Affirmative Action Employer.*

BOTANIST/ECOLOGIST

At the University of South Dakota, Springfield. To teach in and aid the development of a 2-year career-oriented biotechnical program. *An Equal Opportunity Employer.* Send letter and curriculum vitae to:

**Michael Foss
University of South Dakota
Springfield, S.D. 57062**

CELLULAR IMMUNOLOGY MOLECULAR VIROLOGY

The cancer research program of the Department of Pathology, University of Kentucky Medical Center, is expanding its research faculty to include two positions at assistant or associate professor levels in the areas of cellular immunology and molecular virology. Ph.D.'s and/or M.D.'s with research experience in cancer immunology or virology are invited to submit their résumés with three references to: **Dr. D. M. Goldenberg, Department of Pathology, MDRF #3, University of Kentucky, Lexington, Ky. 40506.** *An Equal Opportunity Employer.*

POSITIONS OPEN

CHAIRMAN OF PHYSIOLOGY

Applications are sought for the position of Chairman of the Department of Physiology, University of Kansas Medical Center. Résumés should be sent to **Dr. E. B. Brown, Jr., Vice-Chancellor for Faculties and Academic Affairs, University of Kansas Medical Center, 39th and Rainbow Boulevard, Kansas City, Kansas 66103.** *The University of Kansas is an Equal Opportunity Employer.*

DEPARTMENT CHAIRMAN, Bioengineering, College of Engineering and Applied Science.

The University of Pennsylvania invites nominations and applications for the position of chairman of the Department of Bioengineering. The chairman reports to the Dean of the College of Engineering. He is responsible for planning, development, and implementation of both undergraduate and graduate bioengineering curricula. He also has the responsibility for coordinating the Bioengineering Center Activities and Biomedical Engineering Research Programs.

He must be capable of effectively teaching and advising students, directing research programs, and managing a Department of 5 full-time and 18 part-time faculty members, plus a student body of more than 100 graduate and undergraduate students.

Please send curriculum vitae and nominations to:

**Dr. Arthur E. Humphrey, Dean
College of Engineering and Applied Science
University of Pennsylvania
107 Towne Building/D3
Philadelphia, Pa. 19174**

An Equal Employment Opportunity Employer

THE UNIVERSITY OF MANCHESTER CHAIR OF GENETICS AND CELL BIOLOGY

Applications are invited for a newly established chair in the field of genetics and cell biology in the faculty of science. Applications (three copies, one suitable for photocopying), giving full details of qualifications, experience, research, publications, and so forth, together with the names and addresses of three persons to whom reference may be made, must reach the **Registrar, The University of Manchester, Manchester, M13 9PL, England,** by 15 December 1975. Further particulars may be obtained from the Registrar. Please quote ref. 241/75/S.

CHAIRPERSON DEPARTMENT OF BIOCHEMISTRY AND BIOPHYSICS UNIVERSITY OF PENNSYLVANIA TO BE APPOINTED BY 1 JULY 1976

This is a newly merged department in the Medical Center, comprising some 30 faculty members with intensive research programs spanning the entire biomedical spectrum from physics to human biochemistry. It is in the heart of the University campus, interacts extensively with many departments, institutes, and professional schools, and enjoys a special relationship with the Johnson Research Foundation. Its teaching programs serve medical, graduate, and undergraduate students.

Candidates should have an international reputation in scholarship and research, should have demonstrated scientific leadership, and should preferably have acquired management skills.

Send curriculum vitae and no less than three letters of reference to **Dr. Fred Karush, Chairman, Search Committee, Department of Microbiology, 356 Johnson Pavilion/G2, School of Medicine, University of Pennsylvania, Philadelphia, Pa. 19174.**

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

CHEMIST

Undergraduate teaching of basic and organic chemistry to premedical students at a liberal arts college in an urban Northeast coastal city. Private university. Deadline for applications is 15 February.

Box 501, SCIENCE

COMMUNITY ECOLOGIST

Fall 1976. Assistant professor, Ph.D. Active research program and teaching. Send résumé, statement of teaching and research interests, and the names of at least three referees to: **C. F. Rodell, Department of Biology, Vanderbilt University, Nashville, Tenn. 37235.** *An Equal Opportunity/Affirmative Action Employer.*

POSITIONS OPEN

CHEMIST ORGANIC SYNTHESIS/ ANALYSTS

Radio-labeled compounds

Position available in our radio-synthesis group at our Corporate Research Center in Bloomfield for an MS/BS Organic Chemist with strong interest and proficiency in micro and semi micro organic synthesis. Required are: 0-4 years of experience in the synthesis and characterization of organic compounds. Experience with chromatographic techniques and liquid scintillation analysis is desirable.

For further information and consideration, please direct a resume of your qualifications to: Manager Research Personnel, Schering-Plough Corporation, 60 Orange Street, Bloomfield, New Jersey 07003

SCHERING-PLOUGH
CORPORATION

WE ARE AN EQUAL OPPORTUNITY EMPLOYER M/F

COMPARATIVE PSYCHOLOGIST. Assistant professor, 9-month salary approximately \$12,000. Opening starting fall 1976. Ethology, evolutionary orientation. Research essential. Fieldwork or primatology a plus. Primary teaching responsibilities: comparative psychology at graduate and undergraduate levels. Other courses open. Send curriculum vitae, reprints, and three references to: **Professor I. Bilodeau, Search Committee Chairman, Department of Psychology, Tulane University, New Orleans, La. 70118.** Apply by 15 February 1976. *Tulane University is an Equal Opportunity Employer.*

DEAN OF ARTS AND SCIENCES

State University of New York
at Binghamton

We are searching for a Dean of the Graduate School of Arts and Sciences and of Harpur College, which includes 360 faculty positions and is the largest unit at the University Center. Credentials should be received by 17 December 1975:

Search Committee for Dean of Arts and Sciences
State University of New York
Binghamton, New York 13901

DEAN, SCHOOL OF ALLIED HEALTH PROFESSIONS, position available, 1 July 1976. Qualifications: administrative, teaching, clinical, and research experience. Doctorate preferred. Salary \$32,000 to \$38,000. Application deadline: 1 March. *Equal Opportunity Employer.* Contact: **Dr. Ann B. Trotter, 757 Enderis, University of Wisconsin-Milwaukee, Milwaukee, Wis. 53201.**

ENVIRONMENTAL COORDINATOR

The U.S. Agency for International Development, Department of State, has need for an environmental coordinator to provide professional and managerial leadership in the planning, development, coordination, and accomplishment of environmental policies and programs for the foreign assistance program.

Location: Washington, D.C.

Salary: \$36,338 to \$37,549.

Qualifications: Minimum M.S. (Ph.D. preferred) or equivalent experience in one of the physical or biological sciences with major academic emphasis on natural resource management or environmental protection plus a minimum of 4 years of senior experience with a public or private organization in those fields. Experience with U.S. government agencies is especially desirable. Willingness to travel overseas and U.S. citizenship is required. Applications must be received by 2 January 1976.

How to apply: Send résumé with salary history or Personal Qualifications Statement (SF-171) to: **James J. Redfern, Professional Recruitment, Office of Personnel and Manpower, Washington, D.C. 20523.**

AID is an Equal Opportunity Employer.

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POSITIONS OPEN

DIRECTOR, SANDERS-BROWN KENTUCKY RESEARCH CENTER ON AGING

The University of Kentucky is establishing an institute for study of the basic biological processes of aging. For a director, we seek a person of international scientific stature, firmly committed to the scientific study of the aging process. The Sanders-Brown Center, expected to be completed in late 1977, will consist of 17,500 square feet of space including ten laboratories, offices, conference rooms, library, animal space, and administrative offices. We need a director who can begin to develop programs and funding in temporary quarters until the Center is completed. Write to: **Dr. J. W. Hollingsworth, Department of Medicine, University of Kentucky College of Medicine, Lexington, Kentucky 40506.** *The University of Kentucky is an Equal Opportunity and Affirmative Action Employer.*

ELECTRON MICROSCOPIST

An opportunity exists for a pathologist (M.D., D.V.M., Ph.D. in pathology, or equivalent) trained in ultrastructural analyses to join the faculty of the Department of Pathology, University of Maryland. Duties will include teaching, research, and full responsibility for overseeing and developing a fully equipped electron microscopic facility which conducts comprehensive transmission and scanning microscopic studies as well as electron-probe microanalysis. Strong research interest in development of new EM methodology, and special interests in carcinogenesis or cardiovascular, renal, or environmental pathology, are required.

Send curriculum vitae and names and addresses of three referees to:

**Dr. Benjamin F. Trump, Chairman
Department of Pathology
University of Maryland
31 South Greene Street
Baltimore, Maryland 21201
Telephone: 301-528-7070**

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

EXTENSION ENTOMOLOGY SPECIALIST on mosquitoes and related insect pests of man and animals. Ph.D. with minimum of 5 years of experience in biology and control. Must coordinate University mosquito research projects with 60 mosquito control agencies. Organizational skills needed in program development, analysis, and evaluation of research technology and operational budgets, in communications and staff training, plus the ability to conduct applied research and demonstrations related to agriculture.

Send inquiries to: **Assistant Director, Personnel, Division of Agricultural Sciences, University of California, 2200 University Avenue, Berkeley, Calif. 94720.** *An Equal Opportunity/Affirmative Action Employer.*

Applications are invited for two **FACULTY POSITIONS** at the assistant professor level with special competence in one or more of the following: mycology, phycology, morphology, ecology, and physiology, and an interest in teaching introductory general botany and biology. Candidates must hold the Ph.D. degree and be interested in teaching at both the undergraduate and graduate levels and developing research programs in their specialties. Send curriculum vitae to **Joseph H. Young, Chairman, Department of Biological Sciences, San Jose State University, San Jose, California 95192.**

The Department also announces **TEMPORARY POSITIONS** for one and two semesters, 1976-77 academic year, in plant physiology, vertebrate embryology, zoology, cell biology, human anatomy and physiology, microbiology, medical mycology, medical virology, and general biology. *An Equal Opportunity Employer.*

University of Wisconsin-Madison. **FACULTY POSITION** in theoretical physical chemistry in the Department of Chemistry and the Theoretical Chemistry Institute. Primary requirement is excellence in research and teaching. Research may be in the development of new a priori techniques in any field of theoretical chemistry complementary to the interests of present staff members. Teaching responsibilities are expected to include general chemistry as well as undergraduate- and graduate-level physical chemistry. Appointment at the assistant professorship level is envisioned but consideration will be given to exceptionally qualified applicants at higher levels. *The University of Wisconsin is an Affirmative Action/Equal Opportunity Employer and welcomes applications from women and minority candidates.* Send résumé including description of research interests and three letters of reference to **Professor J. O. Hirschfelder, Theoretical Chemistry Institute, University of Wisconsin, 1101 University Avenue, Madison, Wisconsin 53706.**

POSITIONS OPEN

FACULTY POSITIONS in

Cardiology
Endocrinology
General Medicine
Hematology
Immunology
Infectious Diseases
Oncology
Pulmonary Diseases

Apply to **Chairman, Department of Medicine, University of North Carolina School of Medicine at Chapel Hill, Chapel Hill, N.C. 27514.** *The University of North Carolina is an Equal Opportunity/Affirmative Action Employer.*

FACULTY POSITION—AIR RESOURCES

Effective September 1976. Doctorate required, or within 1 year of completion, in natural resources or related field. Will teach undergraduate and graduate course in air resources plus introductory natural resources course. May have opportunity to develop additional courses and conduct applied research in air resources.

Send résumé and credentials prior to 1 February 1976 to **Dr. Clyde W. Hibbs, Chairman, Department of Natural Resources, Ball State University, Muncie, Indiana 47306.**

An Equal Opportunity/Affirmative Action Employer

FACULTY POSITION—BIOCHEMISTRY: The Department of Biochemistry has openings at the assistant or associate professor levels. Preferred fields are mitochondrial biochemistry, enzyme kinetics and regulation, neurochemistry, and nutrition. Candidates must have the Ph.D. or M.D. plus two or more years of post-doctoral experience. Salary and rank are contingent on qualifications and experience. Send curriculum vitae plus names of three references to: **F. J. Behal, Chairman, Department of Biochemistry, Texas Tech University School of Medicine, P.O. Box 4569, Lubbock, Texas 79409.** *An Equal Opportunity Employer.*

UNIVERSITY OF BRITISH COLUMBIA DEPARTMENT OF BIOCHEMISTRY

Applications are invited from qualified persons for a **faculty position** at the level of assistant professor. Applicants must have a strong interest in both teaching and research. An appointment for fall 1976 is anticipated. Send curriculum vitae, résumé of research interests, and names of three referees to:

**Chairman, Department of Biochemistry
University of British Columbia
Vancouver, V6T 1W5, Canada**

Closing date for receipt of applications is 15 April 1976.

FACULTY POSITION IN ECOLOGY: The Division of Environmental Studies, an interdisciplinary teaching and research unit of the University of California, Davis, seeks to hire a theoretical ecologist. Teaching responsibilities include team teaching a basic undergraduate ecology course, an advanced undergraduate course in either population or community ecology, and developing a graduate-level course in theoretical ecology. Research interests of applicants should center on the mathematical or statistical analysis of the behavior of populations or communities. Appointment will be made at a level appropriate to experience and qualifications. Appointee will be expected to maintain a formal relationship with an appropriate disciplinary department. Applicants should send curriculum vitae, reprints, manuscripts in progress, and other evidence of innovative and creative scholarly accomplishments, and the names of three referees to **Chairman, Theoretical Ecologist Search Committee, Division of Environmental Studies, University of California, Davis, Calif. 95616.** Applications received after 15 January 1976 cannot be assured of consideration. *An Equal Opportunity/Affirmative Action Employer.*

FACULTY POSITION IN ANATOMY

Applications invited for positions in human anatomy. Individuals to teach gross morphology in an interdisciplinary curriculum. Demonstrated commitment to excellence in research and teaching essential. Research in reproduction or cell biology preferred. A minimum of 1 year of experience after doctoral required. Rank of appointment dependent on the individual's qualifications. *University of California is an Equal Opportunity Employer.* Address applications to **Chairman, Department of Human Anatomy, School of Medicine, University of California, Davis, California 95616.**

SCIENCE, VOL. 190

POSITIONS OPEN

The Department of Genetics at the John A. Burns School of Medicine, University of Hawaii, has two tenurable **FACULTY POSITIONS** vacant. The first is for a **medical geneticist** who must be qualified to teach medical students both basic and clinical genetics and whose research interests are in the field of genetic defects in metabolism and who should preferably have the M.D. degree.

The second is for a **population geneticist** who must be qualified to teach population genetics at the graduate level and whose research interests are preferably in behavior genetics.

Both candidates will be expected to participate in graduate training in the Human Genetics Training Program.

The second position has already been advertised at the assistant professor level (*Science*, 17 October) and the first position would be expected to be at the associate or full professor level. Deadline: 31 December 1975. Applications should be sent to: **Dr. John A. Hunt, Department of Genetics, University of Hawaii, Biomedical Sciences Building A-110, 1960 East-West Road, Honolulu, Hawaii 96822. An Equal Opportunity/Affirmative Action Employer.**

FACULTY POSITIONS IN PLANT CELL BIOLOGY AND MOLECULAR GENETICS

The School of Life Sciences, University of Nebraska, Lincoln, invites nominations and applications for an assistant or associate professor in plant cell biology and one in molecular genetics. Appointees will be expected to conduct vigorous research programs and to participate in teaching and advising at both undergraduate and graduate (M.S. and Ph.D.) levels. Qualifications must include the Ph.D. degree plus appropriate postdoctoral experience. Starting date: about 1 September 1976. Salary negotiable. Contacts: plant cell biology—**R. V. Klucas**; molecular genetics—**F. A. Haskins**. Each applicant should send a résumé and should ask three references to write directly to the indicated contact, c/o School of Life Sciences, University of Nebraska-Lincoln, Lincoln, Nebraska 68588, before 31 December 1975.

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

GENERAL PHYSIOLOGIST

An opening at the assistant professor level is available September 1976 for a general physiologist with research interests in the physiology of excitable cells at the cellular-molecular level. Candidates will be expected to share in the instruction of a course in physiology for advanced undergraduates and graduate students, teach a course in their specialty, and develop a strong, independent research program. Postdoctoral experience is desirable. Exceptional qualifications may lead to appointment at higher academic rank.

Send curriculum vitae, reprints, and three letters of recommendation by 15 January 1976 to: **John Schaefer, Ph.D., Biology Department, Tufts University, Medford, Mass. 02155.**

Tufts University is an Equal Opportunity/Affirmative Action Employer. Applications from minority group members and women are encouraged.

Opening for September 1976: **INSTRUCTOR OR ASSISTANT PROFESSOR** level for teaching botany, bacteriology, and general biology to undergraduates with supervision of senior-year research. Ph.D. necessary, teaching experience desirable, and an interest in arts and science institution. Closing date for applications is 1 February 1976. Send curriculum vitae and references to: **Chairman's Office, Biology Department, Xavier University, Cincinnati, Ohio 45207. An Equal Opportunity Employer.**

The Section of Neurobiology and Behavior in the Division of Biological Sciences at Cornell University has an opening for a **NEUROBIOLOGIST**. The position will be filled at the assistant professor level. The candidate must have strong training and research commitment in fundamental problems involving cellular or molecular approaches to the nervous system. Areas of research could include, but are not restricted to, neurodevelopment, neural integration, or synaptic transmission. A curriculum vitae with bibliography, one or two recent reprints, and letters from three people who know the candidate's work well should be sent to: **Dr. Jeffrey M. Camhi, Chairman, Neurobiology Search Committee, Section of Neurobiology and Behavior, Langmuir Laboratory, Cornell University, Ithaca, New York 14853.** Deadline for receipt of applications is 1 March 1976.

POSITIONS OPEN

GENETICIST

The Department of Biology, Syracuse University, anticipates an opening for a geneticist at the level of assistant or associate professor for fall 1976. Ph.D. required. Postdoctoral experience desirable; up to 3 years of prior teaching will be credited toward tenure. Three-year renewable appointment. Appointee is expected to teach undergraduate and graduate courses in genetics and conduct a vigorous research program. Submit three letters of recommendation and a short synopsis of research plans to **Search Committee, Department of Biology, 206 Lyman Hall, Syracuse University, Syracuse, New York 13210, by 1 January 1976. An Affirmative Action/Equal Opportunity Employer.**

INVERTEBRATE ZOOLOGIST to teach undergraduate courses in invertebrate zoology, parasitology, and introductory biology. Research encouraged; area open. Assistant professor. Two-year position with possibility that it may become permanent. September 1976. Send three letters of reference, curriculum vitae, and transcripts to: **Search Committee, Department of Biology, St. Louis University, St. Louis, Mo. 63103, by 1 February. An Equal Opportunity/Affirmative Action Employer.**

DEPARTMENT OF LIFE SCIENCES UNIVERSITY OF PITTSBURGH

Applications are invited for a number of positions available in a newly organized Department of Life Sciences formed by merger of existing Departments of Biochemistry, Biology, and Biophysics and Microbiology, with Dr. M. Sussman as chairman. Areas of interest include immunobiology, neurophysiology, animal virology, genetics, chromosome structure and function in eukaryotes, and systems analysis of ecological problems. Applicants should provide evidence of creative and productive research capability, as well as excellence in teaching. Successful applicants will be expected to participate in graduate and undergraduate teaching and to establish vigorous research programs with grant support. Rank and salary will be commensurate with the qualifications of the applicants. Curriculum vitae and the names of at least three referees should be sent to: **Dr. T. G. Cooper, Department of Biochemistry, Faculty of Arts and Sciences, University of Pittsburgh, Pittsburgh, Pennsylvania 15261.** Deadline for receipt of applications is 10 January 1976.

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



MEDICAL COLLEGE OF VIRGINIA VIRGINIA COMMONWEALTH UNIVERSITY MANAGER, MCV DATA ACQUISITION FACILITY

A manager is being sought for the Data Acquisition Facility (DAF) of the Virginia Commonwealth University University Computer Center which provides real-time research computing services to a number of laboratories and clinical research areas at the Medical College of Virginia. The principal resource is a Sigma 6 computer.

The incumbent should possess at least a Master's degree in science or engineering and have a minimum of 3 years of broad experience with real-time computer systems. Some biomedical and administrative experience would be helpful. Résumés may be sent to:

**DAF Manager Search Committee
Box 16
Medical College of Virginia Station
Richmond, Virginia 23298**

MANAGER OR DIRECTOR MOLECULAR VIROLOGY LABORATORY

Experience in viral oncology essential

Send résumé to:

**Dr. Vincent Groupé
Scientific Director
Life Sciences Research Laboratories
2900 72nd Street North
St. Petersburg, Florida 33710**

An Equal Opportunity Employer

POSITIONS OPEN

NUTRITIONAL SCIENCES FACULTY POSITION; assistant professor, Ph.D. or M.D. Research experience and interest in human metabolic studies required. Expected to participate in the teaching of human nutrition at the undergraduate and graduate levels. Postdoctoral experience desirable. Send résumé and references to **Earl Shrago, M.D., Chairman, Search Committee, Department of Nutritional Sciences, 1270 Linden Drive, University of Wisconsin, Madison, Wisconsin 53706. An Equal Opportunity/Affirmative Action Employer.**

Pathologist AP-CP, to complete hospital-based group in university-affiliated teaching hospital. Upper Midwest. Financial arrangements open to negotiation. Stimulating situation, excellent working environment. Send résumé to

Box 494, SCIENCE

PHYSICIST

The University of Michigan-Dearborn announces a faculty opening in physics at the assistant or associate professor level commencing September 1976. Applicants must have a firm commitment to the teaching of physics at the undergraduate level. A Ph.D. is required, and previous teaching and postdoctoral experience will be an asset. Applications will be especially welcome from theorists or experimentalists who complement the present faculty research interest in atomic, molecular, solid state, and surface physics.

Send curriculum vitae and three letters of recommendation to **Faculty Search Secretary, College of Arts, Sciences, and Letters, The University of Michigan-Dearborn, 4901 Evergreen Road, Dearborn, Michigan 48128. A nondiscriminatory, Affirmative Action Employer.**

PHYSIOLOGY-ANATOMY-EMBRYOLOGY. Assistant professor or higher positions in which responsibilities may include teaching one basic course in embryology, systemic physiology, anatomy, or histology, and an advanced course in area of specialization. Preference will be given to researchers in neurobiology, cell biology, mammalian development, or environmental physiology.

MICROBIOLOGIST. Assistant professor or higher position for which preference will be given persons with vigorous research programs in medical microbiology, mycoplasmas, or autotrophic metabolism. Ability to teach an upper-division undergraduate course and a graduate course in area of specialization is required. All positions are open for fall 1976 and require postdoctoral experience. Applicants should submit résumé, three letters of reference, reprints, and research plans by 2 January 1976 to **L. E. Roth, Director, Division of Biology, Kansas State University, Manhattan, Kansas 66505. An Affirmative Action/Equal Opportunity Employer.**

POSTDOCTORAL POSITIONS

- (1) **Basic Immunologist** to conduct research on endocrine influences on immune function with emphasis on the role of milk.
- (2) **Immunologist** to study immunogenetics of human histocompatibility antigens including LD and Ia markers.

Applicants should have either a Ph.D. or M.D. degree. Send curriculum vitae and references to **Dr. Rene J. Duquesnoy, Director of Research and Development, Milwaukee Blood Center, Inc., 763 North 18th Street, Milwaukee, Wisconsin 53233.**

POSTDOCTORAL RESEARCH— PHEROMONES

Two positions are available immediately. Duration is 1 year, with the possibility of renewal for an additional year. Salary is \$11,580.

One position requires an **organic chemist** to interact with a number of ongoing biological investigations. The other requires a **biologist** having a particular interest in protists or any invertebrate group that has medical, veterinary, or agricultural importance. Please send academic transcript, curriculum vitae, names of three references, and statement of research interests to **H. H. Shorey, Division of Toxicology and Physiology, Department of Entomology, University of California, Riverside, Calif. 92502. The University of California, Riverside, is an Equal Opportunity/Affirmative Action Employer.**

The Radiobiology Laboratory of the University of California at Davis has two full-time research appointments available for scientists to participate in a biomedical program assessing the health consequences of pollutants. Conjoint academic appointments are possible.

Biomathematics: Manage program in analysis and assessment of data on specific chemical and physical toxic agents to assist in development of mathematical and statistical models of dose-time effect (biologic cost). Three to five years of relevant post-doctoral professional experience required.

Radiobiologist: Senior position in radiobiology coordinating and actively participating in a broad research program involving inhalation and ingestion of nuclear and non-nuclear pollutants from energy production. Experience and training in aerosol physics and radiation biology required. Minimum of five years of applicable experience required.

Original research opportunities exist in this program. Send application, curriculum vitae, publication list, and names of three references to: Dr. Marvin Goldman, Radiobiology Laboratory, University of California at Davis, Davis, CA 95616. The University of California is an equal opportunity/affirmative action employer.

UNIVERSITY OF CINCINNATI Invites Applications for the Position of DEAN OF THE McMICKEN COLLEGE OF ARTS AND SCIENCES

The Dean of the McMicken College of Arts and Sciences provides academic and administrative leadership to the largest of the sixteen colleges comprising the University of Cincinnati, which has a total enrollment of 38,000 students. The College enrolls 5,000 undergraduates and 1,300 graduate students within nineteen departments having a total of 475 faculty and awards B.A. or B.S. degrees in thirty-seven disciplinary and cross-disciplinary areas. As one of the two universities designated by the Ohio Board of Regents as comprehensive graduate institutions in Ohio, it offers doctoral programs in seventeen disciplines.

Applicants should present evidence of scholarly achievement in addition to an aptitude for academic and administrative leadership.

Candidates must be able to assume the position no later than September 1, 1976.

Applications and/or letters of nomination (with full professional vita) should be sent by February 1, 1976, to:

Gene D. Lewis, Provost
Attn: A&S Search Committee
101 Administration Bldg.
University of Cincinnati
Cincinnati, Ohio 45221
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Action Employer

POSITIONS OPEN

POSTDOCTORAL TRAINEESHIP IN NEUROANATOMY, available from 1 April 1976. Strong background in neuroanatomy, anatomy required, with experience in electron microscopy or isotope tracer techniques, or candidates with strong training in neurophysiology or amine neuropharmacology. Send curriculum vitae and three letters of recommendation to **Drs. S. and V. Palay, Harvard Medical School, Boston, Mass. 02115. Women and minorities are encouraged to apply.** Restricted to persons no more than 3 years beyond doctorate; U.S. citizens only.

POSTDOCTORAL POSITION MAMMALIAN CELL CULTURE

An immediate opening to study silicon and carcinogenesis. Experience in mammalian cell growth, biochemistry, enzymatic assays, isotopic techniques. Position available for 3 years; salary \$12,700 per year. Send curriculum vitae and three letters of recommendation to **Dr. B. E. Volcani, SIO University of California, La Jolla, Calif. 92093. Equal Opportunity/Affirmative Action Employer.**

POSTDOCTORAL POSITION

Opening for a recent Ph.D. with experience in enzymology and nucleic acids, to work on enzyme-substrate specificity in transfer RNA biosynthesis. Send curriculum vitae and three references to **William H. McClain, Department of Bacteriology, University of Wisconsin, Madison, Wisconsin 53706.**

Equal Opportunity/Affirmative Action Employer in compliance with Titles 6 and 9

POSTDOCTORAL POSITIONS

Two postdoctoral positions available for research on the biochemical and toxicologic effects of halogenated antibacterial agents on mammalian systems.

- 1) **Biochemist:** Ph.D. in biochemistry to study interactions of antibacterials with proteins, enzymes, and biological membranes.
- 2) **Biochemical Pharmacologist:** Ph.D. in biochemistry or pharmacology to investigate the pharmacologic and toxicologic effects of antibacterials and their metabolites, especially on the nervous system.

Salaries up to \$11,000 will be dependent on experience and qualifications. Applications with curriculum vitae naming three references should be sent to:

**Dr. Donald R. Buhler
Environmental Health Sciences Center
Oregon State University
Corvallis, Oregon 97331**

The closing date on these positions is 15 January 1976.

An Equal Opportunity/Affirmative Action Employer

PROFESSOR

The Division of Engineering and Applied Physics of Harvard University is considering an appointment to a tenure faculty position (at the level of full professor) in the field of biomechanics. The responsibilities of this position include teaching, supervision of doctoral research, and the development of educational and research programs. Candidates should possess a broad general competence in physiology, applied mechanics, and applied mathematics. They should also have demonstrated, through publications, creative ability in both theoretical and experimental aspects of biomechanics. Collaborative experience with persons in life science departments such as biology or medicine is very desirable. *Harvard University is an Equal Opportunity/Affirmative Action Employer.* Persons wishing to be considered should send their curriculum vitae including full publications list and the names of three references by 31 December 1975 to **Professor Richard E. Kronauer, 324 Pierce Hall, Harvard University, Cambridge, Massachusetts 02138.**

The University of Oklahoma Health Services Center invites nominations and applications for the position of **PROFESSOR AND HEAD** of the Department of Anatomical Sciences. This position requires sound leadership ability as well as experience in teaching, administration, and research in anatomical sciences. Inquiries, including a curriculum vitae, should be sent to: **Joseph A. Kopta, M.D., Chairman, Search Committee for Anatomical Sciences Head, University of Oklahoma Health Sciences Center, P.O. Box 26901, Oklahoma City, Oklahoma 73190. An Equal Opportunity/Affirmative Action Employer.**

POSITIONS OPEN

POSTDOCTORAL institutional national research service awards in pathology of membranes and cellular organelles. Opportunities for interdisciplinary research in experimental neuropathology and neuroimmunology. Write to **Dr. Nicholas K. Gonatas, Professor of Pathology, University of Pennsylvania School of Medicine, Philadelphia, Pa. 19174.**

PSYCHOLOGY

Concordia University, Loyola Campus, invites applications for:

- 1) Position in cognitive psychology
- 2) Potential positions (subject to funding) in developmental, physiological, statistics and research methods (experimental and field methods), history of psychology, measurement, and scaling.

All openings at the assistant professor level, June 1976. Ph.D. required. Duties: undergraduate teaching although research desirable. Salaries competitive and open for negotiation. Application to include detailed curriculum vitae and listing of teaching preferences in terms of area.

Applications to be sent to:

**J. H. Bauer
Personnel Committee
Concordia University, Loyola Campus
7141 Sherbrooke Street West
Montreal, Quebec H4B 1R6
Canada**

not later than 1 April 1976.

ROTATORS: TEMPORARY SCIENTIFIC ENGINEERING POSITIONS WITH THE NATIONAL SCIENCE FOUNDATION

The National Science Foundation, in performing its functions of support of scientific research, seeks high-quality professional staff selected from a broad range of disciplines to carry out the review and evaluation of proposals and to recommend for support those proposals which are most meritorious from the scientific point of view. Approximately one fourth of the professional staff members have joined the Foundation for a limited period of time, usually on leave of absence from an academic position.

Proposed "rotational" assignments will be of 1- or 2-duration and are located in Washington, D.C. Candidates should be at the Ph.D. or equivalent level and have at least 5 to 8 years of independent research experience in a specific field of science. Salaries range from \$22,906 to \$37,800 per annum for assignment as assistant program managers or program managers, depending on qualifications and experience. Health and life insurance and leave benefits are available depending upon the length of the appointment.

Scientists working for the Foundation gain an understanding of the processes of federal research-sponsoring programs including the setting of priorities and the processes whereby the Foundation obtains funds. Since there is considerable benefit derived from communicating this experience to others upon return to their original post, candidates with leave of absence and definite plans to return to their place of employment are preferred.

Vacancies to be filled are expected to become available in September 1976 in the following areas:

- Meteorology, Polar Atmospheric Sciences, Physical Oceanography, Stars and Stellar Evolution Program
- Elementary Particle Physics, Nuclear Physics, Intermediate Physics, Classical Analysis and Geometry, Quantum Solids and Liquids, Polymers
- Statistics, Theoretical Computer Science, Artificial Intelligence and Pattern Recognition, Software Engineering, Computer-Based Communications, Applied Computer Science
- Electrical Sciences and Analysis, Engineering Chemistry and Energetics, Chemical Processes, Systems Theory and Application, Chemical Dynamics, Quantum Chemistry
- Biochemistry, Physiology, Developmental Biology, Ecology, Systematics, Psychobiology
- Science and Society, Science Education Resources Improvement, Science Education Program Integration, Science Education Development and Research

Candidates interested in being considered for these or those occurring in later years should forward résumés indicating the positions of interest to: **Rotator, Personnel Office, Room 212, National Science Foundation, 1800 G Street, NW, Washington, D.C. 20550. National Science Foundation is an Equal Employment Opportunity Employer.**

University Extension
University of California, Berkeley

Natural Environment Studies

Baja California—
FEBRUARY 7-15/15-22/Aboard ship to observe the California Gray Whale.

Hawaii—
MARCH 4-11/Study of the humpback whale in the Auau Channel near Maui.

Sea of Cortez—
JUNE 19-27/Island biology and evolution; unique plant and animal species.

Galápagos—
JULY 16-27/JULY 30-AUGUST 10
Study cruise and exploration of this living laboratory of evolution.

Hudson Bay—
JULY 18-27/Study of diverse life forms during the brief and bountiful arctic summer.

The Andes—
AUGUST 16-23/Between Quito and the foothills, one of the world's richest and most diverse biological regions.

The Amazon—
JULY 31-AUGUST 14/AUGUST 14-28
By boat and dugout canoe to explore the tropical rain forest.

All programs are conducted by a distinguished faculty of scientists. For information write Public Information Office Dept.SA6, UC Extension, 2223 Fulton St., Berkeley, CA 94720.

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TOXICOLOGIST

Armour-Dial's new research facility in Scottsdale, Arizona, has an opportunity for a toxicologist to establish and manage a small animal toxicology laboratory.

If you have a Ph.D. in Toxicology, Pharmacology, or Physiology, or a D.V.M., and 1-3 years general laboratory experience with small animals, you can contribute to an activity of growing importance in our research and development effort. Experience in an animal laboratory for acute toxicity testing of raw materials, cosmetics, drugs and/or household products would be especially desirable.

The right candidate will manage the toxicology laboratory, assist in the design of chronic toxicity studies, evaluate data, prepare reports and actively participate in our medical, regulatory and toxicological team.

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Wanita Zarumba
Group Personnel Manager



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NEUROSCIENCE ADMINISTRATOR

A position is open for a Health Scientist Administrator at the National Institute of Neurological and Communicative Disorders and Stroke, Neurological Disorders Program, Bethesda, Maryland.

Experience should include at least three postdoctoral years in neuroscience research in addition to 1 year postdoctorate experience in research program administration. Incumbent will be responsible for administration of grants that support research on disorders of the nervous system. Salary range, \$19,386 to \$26,861, depending upon specific qualifications of applicants.

Forward Standard Form 171 (available from Personnel Office, NINCDS, Bethesda, Md. 20014, any Federal Civil Service Office, or U.S. Post Office) no later than December 31, 1975 to:

Ms. Bonnie Kalberer, Personnel Officer
Bldg. 31, Room 8A-25
National Institute of Neurological
& Communicative Disorders and Stroke
NATIONAL INSTITUTES
OF HEALTH
Public Health Service
Bethesda, Md. 20014

An Equal Opportunity Employer

12 DECEMBER 1975

NEUROSCIENCE

BASIC PRINCIPLES OF NEUROSCIENCE

William D. Willis, Jr. and James Blankenship

Edited by Harold M. Pinsker
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1137

POSITIONS OPEN

TEACHING POSITION— NATURAL RESOURCES

Effective September 1976. Doctorate in natural resources field with emphasis on environmental education or doctorate in education including extensive course work in natural resources and related areas. Teaching certificate and experience required in related discipline. Will teach undergraduate introductory environmental course plus environmental education methods course and work extensively with public and private schools at all grade levels in all subject areas.

Send résumé and credentials prior to 1 February 1976 to Dr. Clyde W. Hibbs, Chairman, Department of Natural Resources, Ball State University, Muncie, Indiana 47306.

An Equal Opportunity/Affirmative Action Employer.

REPRODUCTIVE BIOLOGY: Desire full-time academic faculty in the area of reproductive biology with interests in teaching and research as relates to clinical endocrinology, infertility, or perinatology. Please send curriculum vitae and bibliography to

Chairman
Department of Obstetrics and Gynecology
University of Florida College of Medicine
Gainesville, Florida 32610

TEACHING POSITION, assistant professor of horticulture, Department of Horticulture, Oregon State University, Corvallis, Ore. 97331. Ph.D. in horticulture or closely allied field. Undergraduate teaching (75 percent), research (25 percent). Salary negotiable; 12-month appointment. Write C. J. Weiser, *Qualified women and minority applicants encouraged.* Closing date for applying is 1 January 1976.

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AAAS

AMERICAN ASSOCIATION for the
ADVANCEMENT of SCIENCE
1515 Massachusetts Avenue, N.W.
Washington, DC 20005

POSITIONS OPEN

TOXICOLOGIST. Assistant professor. The Food Research Institute (Department of Food Microbiology and Toxicology), University of Wisconsin, is seeking an individual with a Ph.D. or professional degree in the area of toxicology, toxicopathology, or related field to conduct research relating to mode of action of food-borne toxicants. An individual whose training has emphasized biochemistry and morphological pathology including electron microscopy is desirable. In addition to developing an independent research program, a portion of the time will be spent in cooperative research. Send curriculum vitae and three letters of recommendation to E. M. Foster, Director, Food Research Institute, University of Wisconsin, Madison, Wisconsin 53706. An Equal Opportunity/Affirmative Action Employer.

The Federal Aviation Administration is actively seeking qualified applicants for the position of **Scientific Program Manager**, GS-301-15 (\$31,309), **General Physical Scientist**, GS-1301-14 (\$26,861), and **General Engineer**, GS-801-14 (\$26,861). Located in the Office of Environmental Quality, these positions involve the management, development, evaluation, and implementation of the High Altitude Pollution Program. Incumbents will work with the Environmental Protection Agency and the International Civil Aviation Organization to ensure appropriate action to avoid environmental degradation.

Qualified individuals please send SF-171, Personal Qualifications Statement, and notice of rating to:

Ms. T. Stenhouse
Federal Aviation Administration, APT-150
800 Independence Avenue, SW
Washington, D.C. 20591
An Equal Opportunity Employer M/F

SENIOR FACULTY MEMBER IN BOTANY

Applications are invited from persons qualified for a senior faculty position starting September 1976. The appointment will be either at the professor or associate professor level and the salary is open. Applicants should have a proven scholarly record showing a dedication to teaching and research. The area of personal interest in plant science is open but emphasis will be placed on complementing areas of research and teaching strength in the Department and Division of Biology such as cell biology, development, ecology, experimental systematics or morphology, genetics, or physiology. Applicants should send a complete curriculum vitae and names of five persons from whom letters of recommendation may be solicited to Professor C. C. Black, Botany Department, University of Georgia, Athens, Georgia 30602. Application deadline: 15 February 1976. *The University of Georgia is an Equal Opportunity/Affirmative Action Employer.*

FELLOWSHIPS

POSTDOCTORAL FELLOWSHIPS IN HUMAN AND MEDICAL GENETICS

Training available in clinical, biochemical, immunological, and population genetics. Candidates must have Ph.D., M.D., D.V.M., or comparable degree and be U.S. citizens or permanent residents. Fellowships will begin 1 July 1976. 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.

FELLOWSHIP

Interested in teaching college biology? Our Doctor of Arts program stresses individual needs and requires dedication to college teaching. Applicants must hold an M.S. degree. Fellowships (\$2900) with tuition waiver available. Our D.A.'s find jobs! Contact: Chairman, Department of Biology, Idaho State University, Pocatello, Idaho 83209.

FELLOWSHIPS AND ASSISTANTSHIPS for Ph.D. program in biochemistry are available to qualified applicants. Write:

Director of Graduate Studies
Department of Biochemistry
College of Medicine
University of Kentucky
Lexington, Kentucky 40506

CONFERENCES

PERINATAL CARCINOGENESIS

The Carcinogenesis Program of the Division of Cancer Cause and Prevention, National Cancer Institute, will hold a **Conference on Perinatal Carcinogenesis**, 19 to 21 January 1976 at the Holiday Inn-Central, Tampa, Florida.

The scientific program, which will consist of invited papers, will review the current knowledge and present state of research regarding the special susceptibility of the fetus and neonate to carcinogenic agents, including hormones. Experimental studies will be emphasized. The conference will be open to the public but attendance will be limited to available space.

Hotel reservations must be made by 12 January 1976 with the Holiday Inn-Central, Tampa, Fla. Telephone: 813-223-1351. You must indicate to the hotel that you are attending the Perinatal Carcinogenesis Conference.

Additional information is available from

Dr. Jerry Rice
National Cancer Institute
Room 2C13, Building 37
National Institutes of Health
Bethesda, Maryland 20014
Telephone: 301-496-4366

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Unbreakable probes are steel sheathed including World's Smallest Microprobe, 0.01" dia.

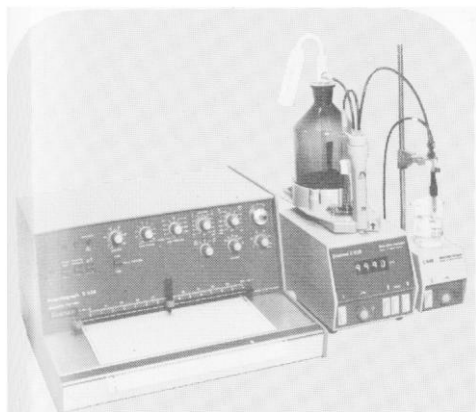
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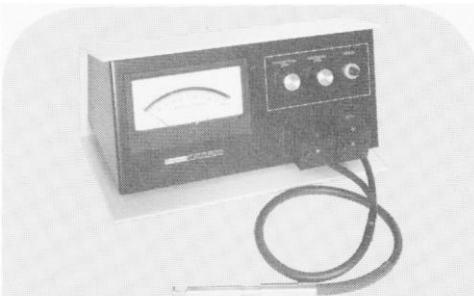
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A new generation of recording titrators from Metrohm. E-536 features most sensitive ranges 100mV or $\Delta\text{pH} = 1$, step switch, automatic T° correction, differentiating circuit, potentiometer, automatic adaption of titrating speed to slope of curve & automatic stop. Snap-in buret units allow non-stop titrating and change of titrants.

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Model PC/600 for specific wavelength applications facilitates direct colorimetric measurements in bulk solutions. Just dip fiber-optic probe into solution; no need for sampling, cuvetts or special glassware. Reads in transmittance & absorbance units. Comes with 1 interchangeable interference filter of choice. Extra filters and battery pack available.

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This is the slim new dispenser without fragile, external glass tubing. Can be used with all reagents except HF. Needs no special bottles or bases. Autoclavable at 120°C, without disassembling. Fits most standard screw-neck reagent bottles using optional adapters. Extremely smooth action; plunger will not 'freeze' with alkaline reagents. Reproducibility better than 0.2%. Available in 3 adjustable and 7 fixed-volume models.

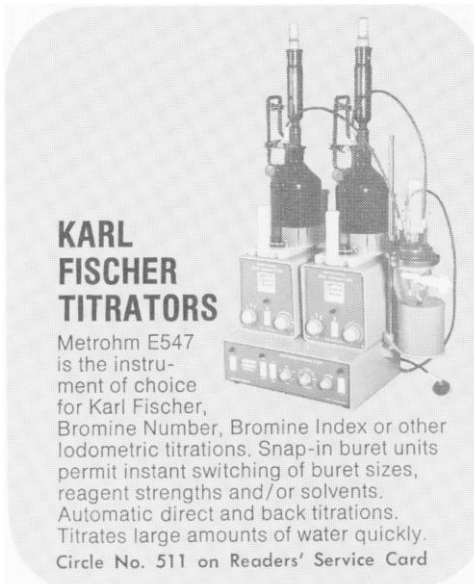
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ROTARY EVAPORATORS

Available in a variety of models, with electronically-controlled variable speed, high torque induction motor (non-sparking), quick action jack, continuous solvent feed, and stainless-steel water bath (accurate to $\pm 1.0^\circ\text{C}$). Use for evaporation, distillation of solvents, drying powders, freeze drying, hydrogenation.

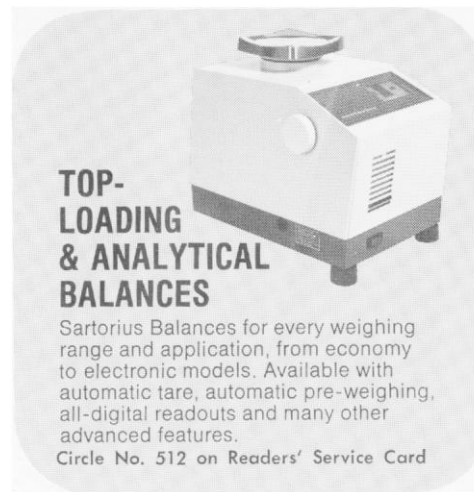
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KARL FISCHER TITRATORS

Metrohm E547 is the instrument of choice for Karl Fischer, Bromine Number, Bromine Index or other Iodometric titrations. Snap-in buret units permit instant switching of buret sizes, reagent strengths and/or solvents. Automatic direct and back titrations. Titrates large amounts of water quickly.

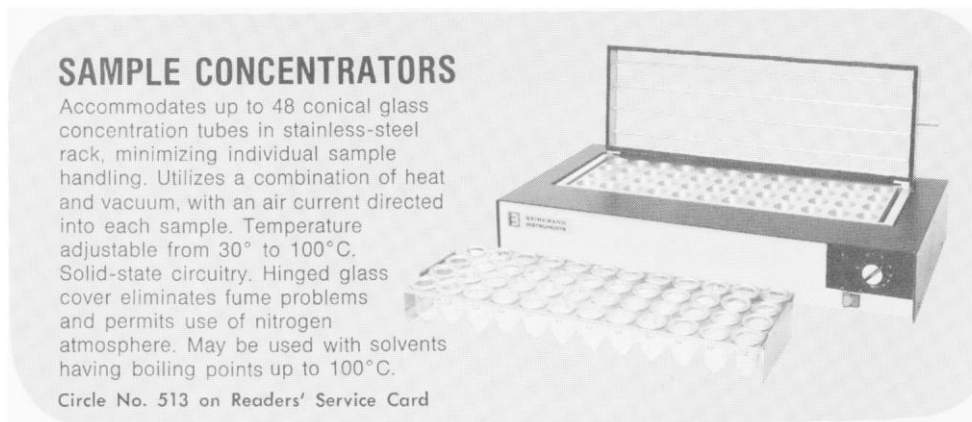
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