

RESEARCH NEWS

(Continued from page 1318)

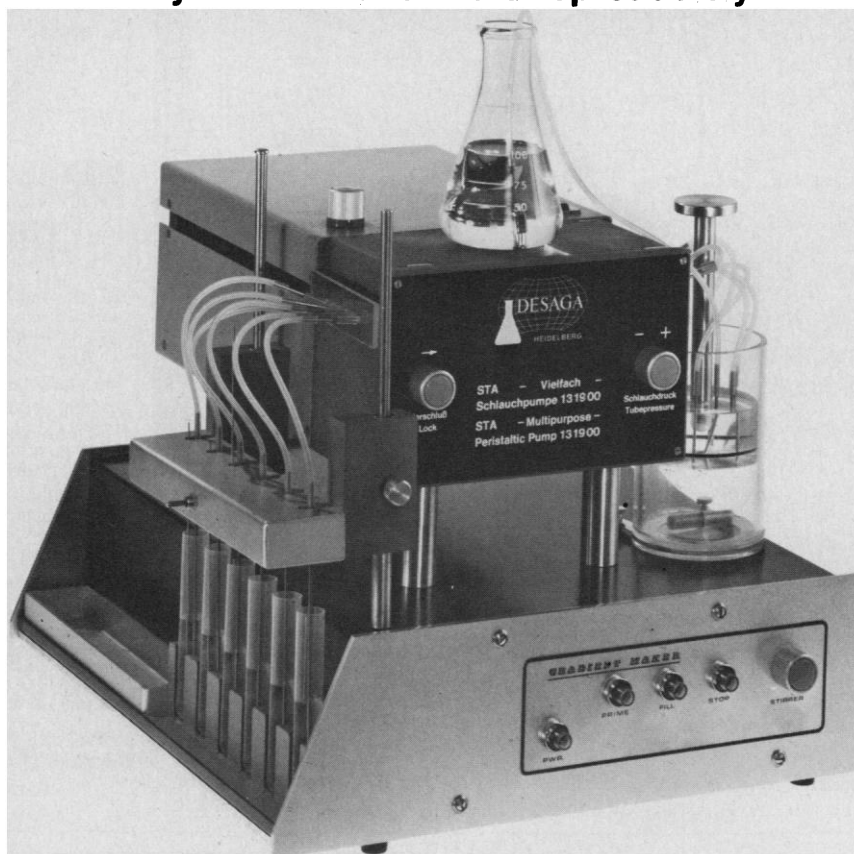
marily a chromatography background, but who want to take advantage of the extra information provided when a mass spectrometer analyzes the chromatograph peaks. For this class of customer, a system employing a programmable calculator for data handling is recommended. Not only is it less expensive (below \$50,000), but the calculator with its typewriter-like keyboard seems less intimidating than a minicomputer. For the scientist experienced in mass spectrometry, a more sophisticated system employing a minicomputer for simultaneous data handling and acquisition is encouraged. The cost, accordingly, is much higher—about \$121,000.

A major problem with computers has always been, having an experimental apparatus and a computer, how does one hook them together? One answer beyond home- or custom-made interfacing circuits, and thus an answer that makes computers seem "friendlier," was displayed by IBM. Called a Device Coupler, this all-purpose interface enables users to start running experiments in days, not the customary months, IBM claims. The coupler can receive either analog or digital input signals from several instruments and can send out either analog or digital information for instrument control or for further processing or display by other devices. The coupler can be used in a variety of configurations; it can be the interface between a computer, the instrument, and a terminal, or some combination of these. It can also be used with programmable calculators. The coupler is derived from a similar instrument designed for IBM scientists for use in their laboratories. Prices begin at \$3050 and go up as plug-in modules are added.

Perhaps the friendliest of all worlds would be the one in which a laboratory manager hires out the task of automating his laboratory to an outside company, which then takes care of every aspect of the job from planning to turning over a finished, ready-to-run operation. There were companies at the Pittsburgh Conference selling exactly this service. One such organization, Codevintec Pacific, Inc., Woodland Hills, California, was ready to computerize anything from a single instrument up to a full laboratory. A spokesman for the company claimed that many people were sufficiently intimidated by their lack of expertise and by the cost of having to develop interface circuitry and software that it was worth it to them to pay for a finished system.

—ARTHUR L. ROBINSON

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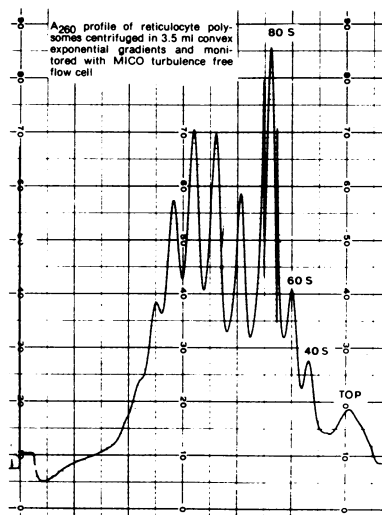


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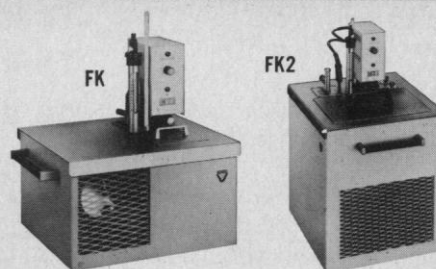


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A publication produced by the AAAS Project on the Handicapped in Science and based on our experiences at the 1976 AAAS National Meeting.

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Personnel Placement

Only those employers and individuals who do 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, companies, colleges, and universities take display rate for all advertising.

DISPLAY (POSITIONS OPEN, MARKET PLACE, AND SO FORTH): \$145 per inch, minimum, per insertion (1 inch is equivalent to 11 lines of 52 spaces 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:

SCIENCE, Room 207
1515 Massachusetts Ave., NW
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Send copy for display ads, 1/6 page and larger, to:

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BLIND AD replies should be addressed as follows:

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POSITIONS WANTED

Anatomist-Histologist-Electron Microscopist, Ph.D. Desires academic teaching-research position. Extensive experience in transmission and scanning electron microscopy; microprobe analysis of normal and pathological tissues. Strong background in cell morphology. Versatile, innovative person, with genuine commitment to teaching. Numerous publications. Box 135, SCIENCE. X

Biochemist (Ph.D. 1971): nucleic acid synthesis, antivirals, enzyme inhibition, tissue culture, animal work, publications, academic/industrial experience. Box 136, SCIENCE. X

Biochemist/Chemist (physiology), M.S., Ph.D., FAIC. Broad research interest and experience: college teaching, pharmaceuticals, clinical chemistry, environmental studies, instrumentation, toxicology, cancer. Desires responsible senior position in academia, hospital, or industry. Prefers East. Publications. Box 137, SCIENCE. X

Biologist, Ph.D. Seeks research position involving aquaculture and/or aquatic toxicology studies. Background includes fish and invertebrate culture studies and techniques; environmental impact statement preparation; teaching and grantsmanship; planning, constructing, and operating bioassay facilities; governmental, university, and private research laboratory experiences; and fieldwork in the Great Lakes, Gulf Coast, Midwest, and Pacific Northwest. Presently employed. Box 106, SCIENCE. X

Chemist/Pharmacologist, Ph.D. Seeks challenging position in government or industry. Experience: pharmacokinetics, metabolism, toxicity of drugs, pesticides and toxic substances, proteins, immunology, cancer, radioisotope, EPA, FDA, NIOSH regulations, contract research. Administration. Publications. Available immediately. Box 107, SCIENCE. 3/25;4/8,22;5/6,20

Communications Director, Ph.D. Biomedical-behavioral. Teach, develop excellence in scientific writing. Build publishing program. Edit, manage books, journals, reports. Box 144, SCIENCE. X

Endocrinologist/Biochemist, Ph.D. Broad experience in tissue culture, enzymology, physiology, hormone action in vitro, metabolites. Papers. Seeks industrial, hospital, government, or academic research position. Los Angeles area. Summer 1977. Box 138, SCIENCE. X

POSITIONS WANTED

Entomologist/Ecologist, M.S. Seeks challenging, temporary research position in industry, academia, or government. Box 139, SCIENCE. X

Ph.D. Entomology: 5 years of research experience in ecology of grasslands, systems analysis, ecology of mosquitoes; 35 publications. Seeks position in industry, government, or university. J. Scott, Natural Resource Ecology Laboratory, Colorado State University, Fort Collins, Colorado 80523. X

Immunobiologist, Ph.D. 1972, microbiology. Postdoctoral. Teaching experience. Broad research experience in tissue culture including application to assays for cell-mediated immunity. Experience with tumor-associated antigens, antisera, solid-phase techniques, RIA. Desires: research/teaching, industry. Telephone: 414-257-5575. Box 140, SCIENCE. X

Ph.D. Linguistics. Four years of postdoctoral experience. Teaching/research: psycholinguistics, phonetics, language acquisition, humanities. Seeks creative, interdisciplinary position for 1977-78. Box 120, SCIENCE. X

Microbiologist/Immunologist, Ph.D. 1975. Postdoctoral. Seeks 1- or 2-year temporary teaching position. Box 141, SCIENCE. X

Molecular Biologist (Ph.D., 1975). Available 1 July 1977. Experience in protein purification, antibody production, structural studies of macromolecular complexes, steroid hormone receptor interactions with target nuclei. Seeks research position in industry or research institute. Box 142, SCIENCE. X

Neurobiologist/Electrophysiologist, M.D., publications, grants, seeks research or academic position. Box 110, SCIENCE. X

Physical Chemistry Ph.D./Recent M.A. in Economics. Seeking part-time or summer employment involving both backgrounds. Interdisciplinary teaching, research, marketing. Except summers anchored to Philadelphia area. Box 124, SCIENCE. X

Physiologist. Four years medical school faculty; 2 years undergraduate faculty. Research publications on platelet aggregation. Seeks research or research/teaching position. Box 125, SCIENCE. X

Pharmacologist, Ph.D. Research/development experience; seeks clinical research monitoring, new ventures, FDA compliance, regulatory affairs. Box 145, SCIENCE. X

Physiologist/Entomologist; Ph.D. University of Illinois 1971; publications. Lecturer seeks work in U.S.; 1977-78 year or longer; research/teaching/other. Wide interests and training, including engineering. P. J. Wilkin, Biology, Brunel University, Uxbridge, England. X

Principal Investigator, experienced in extracorporeal devices and controlled release, is seeking academic position in basic sciences department of medical school or associated university. Interested in teaching, collaboration with clinical programs in uremic or hepatic failure. Multidisciplinary scientist able to stimulate and direct students. Funded. Formal training in physical chemistry, physics, polymers. Ph.D. Acquired training mass transfer, physiology, toxicology. Box 143, SCIENCE. X

Program Director. Director of undergraduate phase of 6-year Family Practice Medicine Program; four additional years of experience as medical school faculty member. Research publications. Seeks administrative position. Box 126, SCIENCE. X

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POSITIONS OPEN

ANIMAL ECOLOGIST, Ph.D.

With interest in and acquaintance with the general ecology of New England for a position as assistant professor starting 1 September 1977. Send curriculum vitae and three letters of recommendation to: **Dr. Miriam F. Bennett, Department of Biology, Colby College, Waterville, Maine 04901.**

An Equal Opportunity/Affirmative Action Employer.

POSITIONS OPEN

ASSISTANT PROFESSOR. A position is open in bacteriology or zoology. Persons in the area of bacteriology should have expertise in a single-cell, eukaryotic system. In the area of zoology persons should have expertise in cell or environmental physiology, developmental, evolutionary or molecular biology, or neurobiology. Person appointed will be expected to maintain an active research program in his/her area of specialization. The position entails responsibilities in teaching beginning level biology. Candidates must have a Ph.D. Postdoctoral experience desirable. Applicants should submit, by 15 April, a detailed curriculum vitae, three letters of recommendation, and a letter describing their research interests and plans to one of the following persons: **Dr. Paul A. Hartman, Chairman, Department of Bacteriology**, or **Dr. John B. Balinsky, Chairman, Department of Zoology, Iowa State University, Ames, Iowa 50011.**

Equal Opportunity/Affirmative Action Employer

Two assistant professor positions available: (i) **APPLIED COMMUNITY ECOLOGIST** with background in quantitative approaches to sampling biological communities or **EVOLUTIONARY ECOLOGIST** with zoological research interests. Develop upper division or graduate courses, seminars and a strong research program in area of expertise. Teach additional course to fill departmental needs. (ii) **FOOD AND INDUSTRIAL MICROBIOLOGIST** to teach food and industrial microbiology, a graduate course in microbial physiology, and additional offerings. Expected to develop strong research program in their specialty area. Ph.D. required. Starting date August 1977. Forward résumé, transcripts, publications, and names and addresses of references to **Dr. Glenn W. Todd, Director, School of Biological Sciences, Oklahoma State University, Stillwater, Oklahoma 74074. Oklahoma State University is an Equal Opportunity Employer/Affirmative Action Employer.**

ASSISTANT PROFESSOR, ANALYTICAL CHEMISTRY: The University of Maryland Baltimore County (UMBC), Chemistry Department, anticipates an opening in the area of analytical chemistry for fall 1977. A résumé, an outline of future research plans, and three letters of reference should be submitted prior to 10 April 1977 to **Chairman, Search Committee, Department of Chemistry, University of Maryland Baltimore County, 5401 Wilkens Avenue, Catonsville, Maryland 21228. An Equal Opportunity/Affirmative Action Employer.**

ASSISTANT PROFESSOR OF PHYSIOLOGY

Applicants are invited for a position of assistant professor in physiology, School of Life and Health Sciences, University of Delaware. The appointment, to be available in September 1977, is a tenure-track position. Experience in cardiovascular and/or pulmonary physiology preferred. The candidate will be expected to teach a course in mammalian systems physiology at the introductory or advanced levels as well as a graduate course in the area of specialization. An active and independent research program is expected and encouraged. The candidate must be able to interact effectively with interested disciplines and with members of the surrounding medical community. Applicants should send a curriculum vitae and three letters of reference to **Dr. A. M. Granda, Institute for Neuroscience and Behavior, University of Delaware, Newark, Delaware 19711.** A copy of a recent reprint or preprint would be appreciated. Closing date: 1 May 1977.

The University of Delaware is an Equal Opportunity Employer.

ASSOCIATE RESEARCH SCIENTISTS

- 1) Work with protein which restores contact inhibition of growth to malignant cells. Ph.D. in biochemistry plus 2 years of related experience, including column chromatography.
- 2) Recent Ph.D. in biochemistry with knowledge of basic biochemical techniques and interest in protein and nucleic acid and purification.
- 3) Recent Ph.D. in biochemistry, pharmacology, or microbiology to study control of purine metabolism in genetic disease, immune deficiency, and leukemia.
- 4) Recent Ph.D.'s. Biochemistry or pharmacology with interest and background in neurosciences for 1- or 2-year postdoctoral appointment.

Please send résumé or contact: **Miriam Kerans, Personnel Department, New York University Medical Center, 587 First Avenue, New York, N.Y. 10016.** *An Equal Opportunity/Affirmative Action Employer, M/F.*

POSITIONS OPEN

ASSISTANT PROFESSOR OF BIOCHEMISTRY with Ph.D. or comparable degree, strong background in membrane or immunobiochemistry. Capability for establishing independent research program and providing excellent professional and graduate teaching is essential. Position available immediately. Please send curriculum vitae and references by 15 May 1977 to: **Dr. W. H. Horner, Chairman, Department of Biochemistry, Georgetown University, Schools of Medicine and Dentistry, Washington, D.C. 20007.** *Georgetown University is an Affirmative Action/Equal Opportunity Institution.*

ASSISTANT PROFESSOR OF BIOLOGY. Search reopened to fill the position by 1 September 1977 to teach anatomy and physiology. The candidate is expected to hold the Ph.D. degree and have background in one or more other areas such as biochemistry, developmental biology, or vertebrate zoology. Salary negotiable. Applicants should send curriculum vitae, and also arrange for three letters of reference to arrive by 8 April 1977, to: **Chairman, Department of Biology, Merrimack College, North Andover, Mass. 01845.** *An Equal Opportunity Employer.*

BIOLOGY. Three anticipated new positions at the assistant professor rank for August 1977. Openings for microbiologist (to teach microbiology and medical mycology), general biologist (to teach introductory biology and human anatomy), and radiobiologist. Positions involve teaching and the development of an active research program. Ph.D. required. Send résumé and names of three references by 15 April 1977, to **Dr. H. G. Marshall, Chairman, Department of Biological Sciences, Old Dominion University, Norfolk, Va. 23508.** *An Affirmative Action/Equal Opportunity Employer.*

DEPARTMENT OF BIOLOGY, UCLA

The department has one temporary 1-year teaching position available beginning September 1977. Applicant must have a Ph.D. degree and the qualifications to teach a large undergraduate core course in physiology (general and cell) and to participate in the introductory biology course. Applicants should send a curriculum vitae, including names and addresses of three referees to: **Search Committee, Biology Department, UCLA, Los Angeles, Calif. 90024,** before 15 April 1977.

An Equal Opportunity/Affirmative Action Employer

CELLULAR IMMUNOLOGIST wanted for position at associate professor level. Must have research experience in immunologic reactions within tumors and in macrophage function and be capable of leading a sophisticated research laboratory. Candidates must have documented proof of scientific quality, for example, at least \$100,000 per year in grant funds, membership on editorial boards of at least two major journals, and demonstrated teaching ability, that is, must have trained graduate students who now hold faculty positions. **Box 134, SCIENCE.**

CHAIRPERSON, DEPARTMENT OF ANATOMY MICHIGAN STATE UNIVERSITY

Applications and nominations are invited for the position of chairperson in the Department of Anatomy at Michigan State University. The department has 21 full-time faculty, a graduate program, and commitments to professional, graduate, and undergraduate students in the areas of gross anatomy, histology, embryology, and neuroanatomy. The department is jointly administered by the Colleges of Human, Osteopathic and Veterinary Medicine. In the future, emphasis will be placed on expanding the graduate and research programs and encouraging the development of interdisciplinary research activities.

Applicants should possess the Ph.D., M.D., D.O., or D.V.M. degree, have demonstrated accomplishment in education, research and service, and preferably, experience in academic administration.

Correspondence should be directed before 11 April 1977 to the chairman of the search committee:

**Dr. Arthur F. Kohrman
Michigan State University
Department of Human Development
B-247 Life Sciences Building
East Lansing, Michigan 48824**

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

POSITIONS OPEN

ASSISTANT PROFESSOR, Department of Botany and Plant Pathology, Iowa State University. Responsibilities include teaching undergraduate introductory courses with ecological or evolutionary emphasis in interdisciplinary biology program and upper level courses in systematics or evolution or ecology in Department of Botany/Plant Pathology. Ph.D. or equivalent required. Send curriculum vitae, three letters of recommendation, and other supporting materials by 1 May 1977 to **Dr. Robert Franke, Department of Botany/Plant Pathology, Iowa State University, Ames, Iowa 50011.** *An Equal Opportunity Employer.*

COLLEGE OF THE VIRGIN ISLANDS

**Assistant or associate professor of marine biology
Assistant or associate professor of physics
Assistant or associate professor of chemistry**

A doctorate and college-level teaching experience are required. Research experience is desirable. The salary range is from \$12,900 to \$18,500 plus housing or a housing allowance (\$300 per month). TIAA-CREF and a comprehensive medical plan are available. Starting date is 15 August 1977. Send résumé to: **Helen Gjessing, Chairperson, Science and Mathematics Division, College of the Virgin Islands, St. Thomas, U.S.V.I. 00801.**

An Equal Opportunity/Affirmative Action Employer

CHAIRMAN, CARCINOGEN ASSESSMENT GROUP

The U.S. Environmental Protection Agency is seeking a chairman, Carcinogen Assessment Group (CAG) within the Office of Research and Development. The CAG conducts analyses of data and makes assessments concerning the human health risks associated with suspect carcinogens. Candidates must have a bachelor's or higher degree in the health or allied sciences or a medical degree as well as broad knowledge of and recognized competency and leadership in the field of carcinogenic research. In addition, at least three or more years of professional experience are required, 1 year of which must have been at a level of difficulty comparable to the next lower level in the federal service.

Location: Washington, D.C.
Salary range: \$39,629 to \$47,500 plus Civil Service benefits.

Contact: please send a detailed résumé including salary history or a completed Standard Form 171 (Personal Qualifications Statement), which is available in federal Job Information Centers and federal government personnel offices, to reach EPA no later than 29 April 1977, to:

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

Note: state and local government officials as well as university staff members are also eligible for consideration for a 2-year assignment to this position under the provisions of the Intergovernmental Personnel Act.

An Equal Opportunity Employer

DIRECTOR CENTER FOR COASTAL MARINE STUDIES

The Santa Cruz campus of the University of California has an opening for a director of the Center for Coastal Marine Studies, an organized research unit, beginning no later than 1 July 1978. The position of director requires a natural scientist qualified for the rank of full professor with an outstanding record of research.

In addition to maintaining an imaginative and vigorous research program, the director is expected to provide intellectual leadership for the continued development of the center's research programs. Prior management experience is essential to coordinate the center's programs and to interact with the variety of campus, local, state, and federal groups interested in the coastal environment and public policy. Some teaching is expected at the upper division undergraduate or graduate level.

Send curriculum vitae and inquiries to: **Director's Search Committee, Center for Coastal Marine Studies, Applied Sciences Building, University of California, Santa Cruz, California 95064.** Application deadline is 15 May 1977. *The University of California is an Equal Opportunity/Affirmative Action Employer.*

POSITIONS OPEN

East Tennessee State University is seeking an **ASSOCIATE DEAN FOR CLINICAL SCIENCES** for its developing College of Medicine. Applicants should possess the M.D. degree and have experience with direct patient care and medical school administration. Respond with curriculum vitae and three references to:

**Dr. Jack E. Mobley, Dean
College of Medicine
East Tennessee State University
Johnson City, Tennessee 37601**

The University is an Affirmative Action/Equal Opportunity Institution.

California State Polytechnic University, Pomona, anticipates a tenure-track position in **BIOCHEMISTRY** starting September 1977. Preference will be given to clinical or analytical biochemists with a Ph.D. Commitment to excellence in teaching expected and professional activities desired. Salary \$13,000 to \$16,000 for 9 months at assistant professor. Higher rank may be requested. *The University is an Equal Opportunity Employer and encourages applications from minorities and women.* Interested individuals should send curriculum vitae and have three reference letters sent by 21 April to **Dr. Charles E. Bowen, Chairman, Search Committee, Department of Chemistry, California State Polytechnic University, Pomona, California 91768.**

UNIVERSITY OF SOUTH CAROLINA SCHOOL OF MEDICINE CHAIRMAN, DEPARTMENT OF PHARMACOLOGY

The University of South Carolina School of Medicine invites applications from qualified individuals interested in the position of chairman of its Department of Pharmacology. Candidates should desire involvement in a growing department and have a commitment to the teaching of medical students and graduate students. Candidates must possess a doctoral degree.

Outstanding applicants will be considered in a new Medical School established in affiliation with the Columbia Veterans Administration Hospital under the authority of the Veterans Administration Medical School Assistance and Health Manpower Training Act of 1972. Letters of application or nomination should include a curriculum vitae.

Correspondence should be addressed to:

**Roderick Macdonald, Jr., M.D., Dean
School of Medicine
University of South Carolina
Columbia, South Carolina 29206**

An Affirmative Action/Equal Opportunity Employer

MASSACHUSETTS INSTITUTE OF TECHNOLOGY DIRECTOR OF THE WRITING PROGRAM

The Massachusetts Institute of Technology (MIT) proposes to appoint an experienced writer to the newly established post of director of the writing program. Preference will be given to candidates with substantial professional experience, either in the media or in college teaching, and with a special interest in the role of writing in scientific and engineering education. Teaching within the program will include science writing, technical writing, poetry, fiction, and the development of innovative curricula designed to improve the basic writing skills of undergraduates. The director will be expected to qualify for appointment as professor or associate professor in the Department of Humanities.

Applications should be sent to **Dean H. J. Hanham, Room 20D-204, Massachusetts Institute of Technology, Cambridge, Mass. 02139.**

MIT is an Equal Opportunity Employer

MASSACHUSETTS INSTITUTE OF TECHNOLOGY SCIENCE WRITING

The Massachusetts Institute of Technology (MIT) is seeking an assistant professor to inaugurate a series of courses in science writing designed both to improve the writing skills of undergraduates majoring in science and engineering, and to encourage pre-professional training for careers in the media. Preference will be given to candidates with a demonstrated interest in the role of science and technology in modern society. Ph.D. preferred.

Applications and résumés should be sent to **Professor D. L. M. Blackmer, Room 20D-204, Massachusetts Institute of Technology, Cambridge, Mass. 02139.**

MIT is an Equal Opportunity Employer.

POSITIONS OPEN

BIOLOGIST, Ph.D. Assistant professor to teach introductory biology, share anatomy and physiology instruction for Nursing students, supervise undergraduate research projects and develop course(s) in specialty. Appointment: fall 1977. Submit résumé and three letters of recommendation by 15 April 1977 to **Dr. J. S. Conroy, Chairman, Biology Search Committee, Science Group, Widener College, Chester, Pa. 19013.**

An Equal Opportunity/Affirmative Action Employer

COLLEGE AND INTENTIONAL COMMUNITY: A group of academics and artists plans to establish an economically cooperative community in the rural Northeast devoted to scholarship, art, ecological balance, self reliance, and education. The community will operate a fully accredited, liberal arts college not requiring students to pay for instruction. Persons with strong scientific backgrounds in any field are invited to apply. For information, contact: **Daniel Osherson, Psychology Department, University of Pennsylvania, Philadelphia, Pa. 19174.**

DIRECTOR YERKES REGIONAL PRIMATE RESEARCH CENTER EMORY UNIVERSITY

Emory University seeks applications for the position of director, Yerkes Regional Primate Research Center. Qualifications sought are a doctoral degree; leadership in interdisciplinary research management; experience in dealing with federal, state, and industrial funding sources; and a knowledge of general university administrative operations. Also desired is a distinguished research record in biological, behavioral, or medical science, as well as experience in teaching and research direction at the graduate level. Applications or nominations with current résumés, names of three professional references, and other pertinent information should be submitted prior to 1 June 1977, to the chairman of the search committee: **Orie E. Myers, Jr., Vice President for Business, Emory University, Atlanta, Georgia 30322.**

An Equal Opportunity/Affirmative Action Employer

POSITIONS OPEN

The UCLA School of Medicine is seeking the most highly qualified person to become **CHAIRMAN** of its Department of Pediatrics on 1 July 1977. Candidates must have substantial background in academic pediatrics, with interest and experience in patient care, teaching, research, and administration. *UCLA is an Equal Opportunity/Affirmative Action Employer and encourages minority and women candidates to apply.* Interested persons should submit letters summarizing their qualifications to: **Chairman, Pediatrics Search Committee, c/o Dean, UCLA School of Medicine, Los Angeles, California 90024.**

DIRECTOR, NEWS BUREAU

The director of the news bureau is responsible for the public information activities at the Institute. The individual must be able to work well with members of the faculty, administration, and the media. The primary requirement is a good background in science writing as well as 3 to 5 years of general newspaper reporting. Please direct résumés to **Employment Supervisor,**

CALIFORNIA INSTITUTE OF TECHNOLOGY Pasadena, California 91125

An Equal Opportunity Employer, M/F

FACULTY POSITIONS Department of Pathology University of Virginia School of Medicine

Faculty positions are available in the Department of Pathology, University of Virginia, for academic pathologists with clinical and research interests in the areas of neuropathology, surgical pathology, cytology, clinical chemistry, and clinical microbiology. Rank and salary will depend on experience and scholarly achievement. Send curriculum vitae to **Thomas W. Tillack, M.D., Chairman, Department of Pathology, University of Virginia School of Medicine, Box 214, Charlottesville, Virginia 22901.**

An Equal Opportunity/Affirmative Action Employer

POSITIONS OPEN

University of Washington Department of Environmental Health FACULTY POSITION AVAILABLE

Faculty position immediately available for experienced **ENVIRONMENTAL TOXICOLOGIST**. Responsibilities include participation in teaching of medical students, nurses, industrial hygienists and physicians, and the development of a major research effort in occupational and environmental toxicology. Appropriate Ph.D. required in addition to a minimum of 5 years experience and evidence of productive scientific output. Should be certified by or eligible for certification by the American Board of Industrial Hygiene. *Women and minorities are encouraged to apply.* Send résumé and references to: **Chairman, Toxicology Search Committee, Department of Environmental Health SC-34, School of Public Health and Community Medicine, University of Washington, Seattle, Washington 98195.** *The University of Washington is an Affirmative Action/Equal Opportunity Employer.*

FACULTY POSITION IN NEUROPHARMACOLOGY. The Division of Biology and Medicine at Brown University has an opening at the assistant professor level for an individual with research and teaching interests in the areas of neurochemistry and neuropharmacology. This individual can select affiliation with the Sections of Biochemical Pharmacology, Neurosciences, or Physiological Chemistry, depending upon his/her specific research interests. Applicants must have an M.D. or Ph.D., a minimum of 2 years of postdoctoral training, and demonstrated ability and productivity in research. Candidates should be prepared to establish an independent research program and to take an active role in the teaching of neuropharmacology to medical and graduate students. Please send curriculum vitae, bibliography, career objectives, and names of at least three referees to: **Dr. Jean M. Marshall, Section of Neurosciences, Brown University Program in Medicine, Providence, R.I. 02912.**

Brown University is an Equal Opportunity/Affirmative Action Employer.

East Tennessee State University
College of Medicine
invites applications for
**CHAIRPERSONS OF THE DEPARTMENTS OF:
ANATOMY, BIOCHEMISTRY, PHYSIOLOGY,
MICROBIOLOGY, AND PATHOLOGY**

CHAIRPERSONS:

Applications are invited for chairpersons of the Departments of Anatomy, Biochemistry, Physiology, Microbiology, and Pathology. These departments are responsible for undergraduate medical and graduate programs leading to the M.S. and Ph.D. in biomedical sciences. Successful applicants will have substantial input into curriculum development and resource allocation in the development of departments and programs. Salaries are competitive. Candidates for anatomy, biochemistry, physiology, and microbiology should possess the Ph.D. or M.D. degree, while the pathologist should possess the M.D. degree and Board-certification in clinical and/or anatomical pathology. All should have experience and a publication record commensurate with chairperson responsibilities.

FACULTY OPENINGS:

Positions at the assistant and associate professor levels are available in all six pre-clinical departments. Salaries are competitive. Some instructorships with a 2-year limit to the appointment may also be made in selected departments. Interested individuals are urged to apply.

APPLICATIONS:

Applications from minorities and women are encouraged. Letters of application and three supporting references should be received by 15 April 1977. Address applications to:

**Dr. Ronald R. Cowden, Ph.D.
Associate Dean for Basic Sciences
College of Medicine
East Tennessee State University
Johnson City, Tenn. 37601**

The University is an Affirmative Action/Equal Opportunity Institution.

THE UNIVERSITY OF PAPUA NEW GUINEA (PORT MORESBY)

Applications are invited for the post of **PALAEONTOLOGIST-STRATIGRAPHER**. The appointee will join the five-man Geology Department, to teach Historical Geology, Palaeontology, and Stratigraphy suitable for students in preliminary university year, in agriculture and sciences other than geology, and in the geologic curriculum leading to the B.Sc. Duties will include instruction lecture, tutorial, laboratory, and individual studies, expansion and curation of collections, and contribution to non-instructional planning and administration of departmental operations. Research will be encouraged, especially that involving rocks of Papua New Guinea; research opportunities are best in recent sediments, particularly reefal, in depositional environments of Tertiary limestones, Tertiary abyssal cherts, and Mesozoic mudstones, in Mesozoic palynology, Tertiary larger foraminifers, and Mesozoic and Cenozoic nannofossils, and in the bearing of these upon plate tectonics of the region. A higher degree is required and some practical or academic experience in a developing country is desirable. Applicants in the beginning of career will be favoured. Appointment at the Lecturer Grade 2 level; availability in July, 1977, is critical.

SALARY: K9,934-K13,608 p.a. (£1 sterling = K1.37). In addition, an allowance of K1,300 per annum if single is payable. An extra K1,000 Marriage Allowance and K156 per child Child Allowance may also be payable. Applicants should forward a detailed curriculum vitae and recent small photograph, and should request three referees to write direct to the Secretary, Box 4820, University P.O., Papua New Guinea, concerning their suitability for appointment. Conditions include provision of housing, annual leave fares, study leave and FSSU superannuation. Further details and the conditions of appointment are available from the Secretary, with whom applications close on 15th April, 1977. Applicants resident in UK should also send one copy of their application to the Inter-University Council, 90/91 Tottenham Court Road, London W1P 0DT. Further particulars are available from either address.

DIRECTOR/CHAIRMAN BEHAVIORAL SCIENCES

The School of Dentistry at the University of Louisville is creating an organization which is rich in applied behavioral science approaches, open towards and valuing of process and experiential approaches to organizational and educational improvement, and for health science schools full of new types of faculty role models. For the past 2½ years, we have been involved in an extensive organizational development program and a training program in process oriented alternative methods of education.

The School of Dentistry is now seeking an individual to assume an important role in the school's development by heading a new behavioral sciences section. This section will have the principal responsibility for developing and administering an instructional program of significant curriculum time which is directed towards the areas of human relations and human behavior and personal and professional growth and development.

Applicants should possess a doctorate in one of the behavioral science disciplines, have skills and experience in group dynamics and process research, and possess the skills to use teaching methods and other than lecture, such as experiential learning, simulations, and so forth. Flexibility, innovativeness, and the ability to function as a team member are important qualities. Administrative experience, familiarity with organizational behavioral science, and experience in health care education will be assets.

Academic rank (associate professor/professor) and salary (upper twenties) will be commensurate with qualifications. Send inquiries, including detailed curriculum vitae to: **Dr. W. Thomas Fields, Chairman, Behavioral Sciences Search Committee, University of Louisville, School of Dentistry, Health Sciences Center, Louisville, Kentucky 40201.**

Inquiries and curriculum vitae for an instructor/assistant professor position in the behavioral sciences section are also invited. *An Equal Opportunity/Affirmative Action Employer.*

POSITIONS OPEN

ECOLOGIST: Wetlands-waterfowl. Assistant/associate professor, School of Natural Resources, University of Michigan. Desired: Ph.D.; teaching, research experience in wetland-waterfowl ecosystems. Duties: teach undergraduate and graduate students; initiate, integrate research on ecology and management of wetland-waterfowl ecosystems; interact with school faculty in physical, biological, social, management, planning sciences. Apply by 15 May to **Professor J. Boyle, 1024A Dana Building, Ann Arbor, Mich. 48109.** *The University of Michigan is a non-discriminatory, Affirmative Action Employer.*

ENVIRONMENTAL CHEMISTRY AND TOXICOLOGY OF PESTICIDES

The Department of Entomology has a research position, available immediately, for a 12-month faculty position as assistant or associate professor.

Applicants should have a Ph.D. degree with a broad training in the physical and biological sciences.

Research responsibilities will focus on studies of the fate and impact of pest control chemicals in the environment. Typical areas of study might be the persistence and degradation of pesticides in the environment, pesticide transport in the environment or biotransformation and accumulation of pesticides in ecosystems. The applicant should have excellent abilities as an analytical chemist, but should also be able to relate the analytical results to the environmental fate and hazard of pesticides to man and other non-target organisms.

Teaching responsibilities will include supervision of graduate students and some course instruction based on departmental need and scientist's interest.

Applications consisting of a curriculum vitae, graduate transcripts, manuscripts, a brief outline of future research plans, and three letters of recommendation should be sent before 15 April 1977 to:

**Dr. Eldon E. Ortman, Head
Department of Entomology
Purdue University
West Lafayette, Ind. 47907**

Purdue University is an Equal Access/Equal Opportunity Employer.

FACULTY POSITION IN PHYSIOLOGY University of California, San Francisco

The Department of Physiology, University of California, San Francisco (UCSF), is seeking applicants for a faculty position which will be available 1 January 1978 at the assistant, associate, or full professor level. We are looking for a neural scientist who will conduct an active research program on neuronal mechanisms in the central nervous system, teach medical students, and participate in advanced graduate courses. Those interested should send curriculum vitae, bibliography, and names of references to **William F. Ganong, M.D., Chairman, Department of Physiology, University of California, San Francisco, California 94143.** *UCSF is an Equal Opportunity/Affirmative Action Employer. Women and minorities are encouraged to apply.*

FACULTY POSITION

A faculty position is available at the Freshwater Biological Institute in the College of Biological Sciences of the University of Minnesota. Applicants should have a Ph.D. and several years of experience in research in phycology, with special emphasis on algal nutrition, physiology, or ultrastructure. They should be able to demonstrate through published research that they have made significant contributions to science. It is anticipated that the position will be filled at the assistant professor level, but the possibility of hiring at a higher rank exists. The academic appointment will be held in the Department of Botany and that department will have the responsibility for the assignment of teaching duties. Applications should be sent within 2 weeks to **Dr. John M. Wood, Freshwater Biological Institute, P.O. Box 100, Navarre, Minn. 55392.**

An Equal Opportunity/Affirmative Action Employer

GENETICIST: rank and salary open, doctorate required. Responsibilities: participate in teaching beginning genetics to undergraduates, develop and maintain active research program. Area of research interest open. Position available September 1977. Contact: **Dr. James H. Asher, Jr., Chairman, Search Committee, Department of Zoology, Michigan State University, East Lansing, Michigan 48824.** Deadline: 15 April.

An Equal Opportunity/Affirmative Action Employer

POSITIONS OPEN

FACULTY OPENING—Harvard University. The Harvard School of Public Health seeks an economist at the assistant professor level. Applicants should have an academic background in health economics, decision theory, and the economic problems of regulation. Interests in occupational and environmental health are desirable. Teaching responsibilities will include graduate students and executives from the health field who return to school for short intensive courses. Ph.D. in economics required. Send current curriculum vitae to **Director, Executive Programs, Harvard School of Public Health, 677 Huntington Avenue, Boston, Mass. 02115.** *An Affirmative Action/Equal Opportunity Employer.*

FACULTY POSITION IN BIOCHEMISTRY

The Department of Biochemistry and Molecular Biology at the University of Texas Health Science Center at Houston invites applications for a faculty position from qualified individuals with a commitment to teaching and research in biochemistry and molecular biology. Responsibilities will include participation in the medical school curriculum and in the graduate teaching program within the Graduate School of Biomedical Sciences, as well as developing and conducting an independent research program. The area of research and the level of appointment are open; applicants should have postdoctoral research experience. Please send a curriculum vitae, list of publications, names of at least three references to be used for letters of recommendation, and a summary of research interests to **Dr. John A. DeMoss, Department of Biochemistry and Molecular Biology, The University of Texas Medical School at Houston, P.O. Box 20708, Houston, Texas 77025,** by 30 April 1977. *An Equal Opportunity/Affirmative Action Employer.*

FACULTY POSITIONS PHYSIOLOGY AND BIOPHYSICS

The Department of Physiology and Biophysics, University of Iowa College of Medicine, invites applications from well-qualified individuals, holding the Ph.D. and/or M.D. degree, for openings at various faculty levels. Candidates should be in a position to develop strong research programs and to participate in the medical and graduate teaching and doctoral training activities of the department. Rank and salary commensurate with experience and qualifications. Please send curriculum vitae, including bibliography and a brief description of research interests, teaching experience, and career objectives, with names of at least three references to:

**Dr. Robert E. Fellows
Department of Physiology and Biophysics
University of Iowa College of Medicine
Iowa City, Iowa 52242**

The University of Iowa is an Equal Opportunity Employer.

GEOCHEMIST

The Department of Geology of the Université de Montréal is seeking to fill an academic post for a geochemist open as of June 1977. The successful applicant will have a broad geochemical background, be expected to teach undergraduate and graduate courses in geochemistry, supervise graduate student research at the Ph.D. level, and take responsibility for geochemical laboratories involving x-ray fluorescence, atomic absorption, gamma-ray spectroscopy, and standard wet chemical facilities. The Université de Montréal is a French-speaking university and the candidate must either be fluent in French or must teach in French within his/her first 3-year stay in the department. Applicants for this position must hold a Ph.D. degree and salary is commensurate with rank.

Qualified persons should send a complete résumé, including names of references, a statement of research interests, and planned research projects to **Monsieur le Directeur, Département de Géologie, Université de Montréal, C.P. 6128, Montréal H3C 3J7 Canada.**

HUMAN POPULATION GENETICIST: Faculty position open July 1977. Teaching includes undergraduate and graduate courses. Research interests should be appropriate to training graduate students in human population genetics. Submit curriculum vitae, three letters of recommendation, and a synopsis of research interests by 15 April 1977 to the **Search Committee, Department of Genetics, University of California, Berkeley, California 94720.** *An Affirmative Action/Equal Opportunity Employer. Women and minority candidates welcomed.*

POSITIONS OPEN

ARYA MEHR UNIVERSITY OF TECHNOLOGY AT ISFAHAN

Applications are invited from persons holding or expecting to receive the degree of Ph.D. or its equivalent in chemistry, physics, mathematics, biology, geology, all fields of engineering, agriculture, and food technology, and from persons holding the degrees of M.L.S. and/or D.L.S. in library science and the degree of M.A. in the teaching of English as a second language.

Applications are also invited from individuals holding the degree of Ph.D. or its equivalent in architecture, social sciences, humanities, management, and economics who intend to participate in graduate or undergraduate programs designed in an interdisciplinary manner to study the impact, and to make an assessment of, technological endeavours.

Preference will be given to applicants with previous experience in their fields and knowledge of fluent Farsi is mandatory. Applicants should send their personal data summary including education, experience, and list of publications, together with a transcript of their academic record to:

**The Academic Vice Chancellor (Isfahan Project)
Arya Mehr University of Technology
P.O. Box 3406
Tehran, Iran**

ICHTHYOLOGIST

Ph.D. to participate in development of a Gulf of Mexico program on fish distribution, abundance, and population dynamics. Strong statistical background and experience in computer modeling of fish populations is essential.

BIostatistician

Degrees in statistics, biostatistics, mathematics, or equivalent work experience. Requires experience with SPSS, IMSL, and FORTRAN; familiarity with analysis of variance, cluster analysis, and multiple factor analysis desirable; involves analysis of biological/oceanographic data, Gulf of Mexico.

Send résumé, including salary requirements, to the **Director:**

**The University of Texas
Marine Science Institute
Port Aransas Marine Laboratory
Port Aransas, Texas 78373
Telephone: 512-749-6781**

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

UNIVERSITY OF QUEENSLAND

LECTURER IN ANATOMY

Applicants should have experience in the paramedical field and research interests in kinesiology, biomechanics, or some aspect of functional anatomy. Quote Reference No. 11377, 30 April 1977.

Salary: within the range A\$13,850 to A\$18,389 per annum.

Other benefits: study leave, superannuation, housing assistance, traveling, and removal expenses.

Additional information and application forms are obtainable from the **Staff Officer, University of Queensland, St. Lucia 4067, Queensland, Australia.**

POSITION IN MATERNAL AND CHILD HEALTH HARVARD SCHOOL OF PUBLIC HEALTH

The new Department of Health Services in the School of Public Health is seeking a senior physician faculty member who has experience and interest in coordinating field demonstrations that link maternal and child health services with nutrition and family planning services. Person should be eligible for a senior appointment in the University, have done research, and be especially interested and experienced in teaching students at the School of Public Health and medical students in maternal and child health and international health. *Women and minority applicants are encouraged to apply.*

If interested, send applications to:

**Robert J. Haggerty, M.D.
Roger I. Lee Professor of Health Services
and Pediatrics
Harvard School of Public Health
Harvard Medical School
Chairman, Department of Health Services
677 Huntington Avenue
Boston, Massachusetts 02115**

Isotope Chemist

Abbott Laboratories, a billion dollar international health care corporation, is seeking a qualified Isotope Chemist to join our pace-setting manufacturing operation. The successful candidate will act as a central liaison, coordinating the interaction between our operations and research and development functions. You'll implement new diagnostic product qualifications into the manufacturing areas as well as revise formulas to meet with current scientific advances. A Ph.D. in the Biomedical or Physiological Sciences and marked familiarity with immunology or radioimmunochemistry is a must. Solid progressive experience in the diagnostic pharmaceuticals or chemistry industries is also essential.

The professional who joins our dynamic, growth-oriented environment will find an outstanding salary and benefits program plus solid opportunities for career advancement. For consideration, send your detailed resume, with salary history, in complete confidence, to:



Brad Herbeck
Corporate
Placement

Abbott is an Affirmative Action Employer

THE UNIVERSITY OF MANITOBA



Faculty of Medicine

HEALTH SCIENCES CENTRE



invites applications and nominations for the position of

Professor and Head DEPARTMENT OF MEDICAL MICROBIOLOGY

Candidates should have a substantial record of academic achievement in Medical Microbiology, extensive experience in teaching and research, and familiarity with diagnostic laboratory services. The Department is responsible for programs of education in Medical Microbiology at the undergraduate and graduate level in medicine, dentistry, and other health disciplines; and for clinical microbiology at the Health Sciences Centre.

Applications and nominations should be accompanied by a curriculum vitae and submitted to:

Dr. Arnold Naimark
Dean and Chairman
Medical Microbiology Search Committee
753 McDermot Avenue
Winnipeg, Manitoba, Canada
R3E 0W3

FACULTY POSITIONS

College of Medicine
King Faisal University
Dammam, Saudi Arabia

| | |
|--------------------|--------------|
| Biology | Epidemiology |
| Chemistry | Biochemistry |
| Physics | Embryology |
| Anatomy | Physiology |
| Community medicine | Hematology |
| Biostatistics | Pathology |

Applications are invited from U.S., British, and Canadian academicians who have a doctorate or similar degree and postdoctorate teaching experience. Openings are available immediately and for 1977-1978 at all levels. The language of instruction is English.

| Salary ranges: | |
|--|---|
| Monthly salary and bonus in Saudi riyals | Approximate annual equivalent in U.S. dollars |
| Professor 6,720 to 7,392 | \$22,600 to \$24,800 |
| Associate professor 5,376 to 6,496 | \$18,100 to \$21,800 |
| Assistant professor 4,032 to 5,152 | \$13,500 to \$17,300 |

M.D. degree commands a higher salary. Fringe benefits include free furnished accommodations and annual leave and travel allowance to country of origin.

Send résumé and names, addresses, and phone numbers of three references to:

Mohammed T. Altorki, M.D., MRCP
Dean of the Medical Faculty
King Faisal University
c/o Saudi Arabian Educational Mission
2223 West Loop South, Suite 400
Houston, Texas 77027

Specify teaching experience and date of availability.



Microbial Geneticist/ Molecular Biologist



General Foods has a new key position in an expanding professional environment for an experienced Microbial Geneticist or Molecular Biologist with proven ability and accomplishments.



Candidate should be a self-starter with ability to work independently, with one to two years research experience and knowledge of cellular and nucleic acid biochemistry and mutagenesis techniques. B.S. in Biology or Biochemistry and M.S. in Microbiology preferred.



POSITION SPECIFICATIONS

Mainly microbiological research projects in bacterial and fungal genetics and plasmids; and participate in investigations of pigment biosynthesis. Reports directly to Senior Microbiologist.



Our modern facilities in Westchester County, just north of New York City offer attractive living and working conditions. Compensation is competitive and benefits outstanding. Send resume in confidence indicating salary history and expectations (no phone calls, please) to:



PERSONNEL MANAGER (F-2).

GENERAL FOODS CORPORATION

TECHNICAL CENTER
555 South Broadway, Tarrytown, New York 10591
An equal opportunity employer M/F/H.

POSITIONS OPEN

INSTRUCTOR OR ASSISTANT PROFESSOR, depending on qualifications for our Department of Biochemistry. Research position for an individual with experience in peptide synthesis and purification. Research involves the chemical synthesis of insulin analogs. Appointment for 2 to 3 years. Applicant should submit curriculum vitae and letters of references to: **Dr. P. G. Katsoyannis, Chairman, Department of Biochemistry, the Mount Sinai School of Medicine, 100th Street and Fifth Avenue, New York, N.Y. 10027. An Equal Opportunity Employer.**

California State Polytechnic University announces faculty positions in **molecular biology** (developmental biology of eucaryotes), **physiological plant pathology**, **epidemiology**, **microbial ecology**, **neurophysiology-anatomy**, and **invertebrate zoology** (protozoology or zooplankton). Expected to teach introductory and advanced courses. Research encouraged. Ph.D. required. Send résumé by 15 April to **Dr. R. Ames, Chairman, Biological Sciences Department, California State Polytechnic University, Pomona, Calif. 91768. An Equal Opportunity Employer.**

NEUROSCIENTIST, interested in developing nervous system and mental retardation. Experience commensurate with professorial level. Direct inquiries to **C. F. Barlow, M.D., Department of Neurology, 300 Longwood Avenue, Boston, Mass. 02115. Harvard Medical School and Children's Hospital Medical Center are Equal Opportunity/Affirmative Action Employers, M/F.**

PHARMACOGNOSIST

Applications are invited for a 12-month faculty position in pharmacognosy at the level of assistant professor. The position is available as of 1 July 1977.

Applicants should preferably have a B.Sc. in pharmacy, a Ph.D. in pharmacognosy, and a commitment to excellence in teaching and research. The appointee will be expected to participate in both undergraduate and graduate teaching and to establish an active, independent research program.

Interested applicants should send curriculum vitae including a bibliography, a statement of research interests or proposed research program, and names of three references to:

Joseph Schradie, Ph.D.
Associate Professor of Pharmacognosy
College of Pharmacy
The University of Toledo
Toledo, Ohio 43606

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

PHARMACOLOGY FACULTY

The Department of Pharmacology, Loyola University Stritch School of Medicine of Chicago seeks a full-time faculty member at the assistant or associate professor level. The candidate should be interested in graduate and medical teaching and research. Working knowledge of CNS anatomy, neuropharmacology and chemitrode and/or implanted electrode procedures required. Publications and recommendations from recognized investigators necessary. Contact: **Alexander G. Karczmar, M.D., Ph.D., Department of Pharmacology, Loyola University Medical Center, Maywood, Illinois 60153.**

PHARMACOLOGIST/PHYSIOLOGIST, assistant professor level. Duties include teaching undergraduate courses in anatomy and physiology, graduate courses in the individual's area of research interest, and initiating an independent research program. Ph.D. or equivalent required. Postdoctoral experience desirable. Send résumé and three confidential letters of recommendation to **Dr. V. Warner, Department of Medicinal Chemistry and Pharmacology, College of Pharmacy and Allied Health Professions, Northeastern University, Boston, Massachusetts 02115. An Affirmative Action/Equal Opportunity/Title IX University.**

PHYSIOLOGICAL PSYCHOLOGIST

Assistant or associate professor, starting July 1977, to teach primarily undergraduate and graduate physiological psychology courses, supervise graduate research and develop own research laboratory. Salary competitive and equipment support for basic laboratory provided. Send curriculum vitae, reprints, and letters of reference to: **Dr. John G. Adair, Department of Psychology, University of Manitoba, Winnipeg, R3T 2N2, Canada.**

POSITIONS OPEN

PHYSIOLOGY

The Department of Physiology, University of Kansas Medical Center, invites applications for assistant or associate professors, depending on qualifications. We are especially interested in the areas of neurophysiology, neurosciences, cellular physiology, and endocrinology although meritorious candidates in other fields will also be considered. Responsibilities include teaching medical students and graduate students and maintaining a strong research program. Preference will be given to candidates with postdoctoral fellowship training and evidence of research accomplishment in the form of past and current research support. Send curriculum vitae, three references, and a summary of teaching experience and research plans to: **The Chairman, Department of Physiology, University of Kansas Medical Center, 39 and Rainbow Boulevard, Kansas City, Kansas 66103. An Equal Opportunity/Affirmative Action Employer.**

PLASMA FRACTIONATOR

Experience with production-scale plasma fractionation required. Must be capable of supervising and directing the entire procedure and all associated personnel. The position is a most attractive long-term opportunity to commence on 1 July 1977. Please send résumé to **Box 128, SCIENCE.**

POSTDOCTORAL POSITIONS IN BIOCHEMISTRY AND BIOPHYSICS. Postdoctoral positions are available in the Department of Biochemistry and Biophysics for research on a variety of projects with individual faculty members. Research areas include lysosomal function, chemical carcinogenesis, ribosomes, mechanism of virus-induced cell fusion, enzyme structure-function relationships and the role of cyclic-GMP in bacteria. The annual salary range for these 1- to 2-year positions is \$10,000 to \$12,000, depending on experience and other qualifications. Some teaching duties may be required. Send curriculum vitae and names of three references to: **Dr. R. W. Bernlohr, Head, Department of Biochemistry and Biophysics, Pennsylvania State University, 108 Althouse Laboratory, University Park, Pa. 16802. An Affirmative Action/Equal Opportunity Employer.**

POSTDOCTORAL POSITION available in June for individual interested in studying altered membranes of tumor virus transformed cells. Send résumé to **Box 132, SCIENCE.**

Applications are invited from recent Ph.D.'s in biology for **POSTDOCTORAL STUDIES** in genetics, cell biology, or developmental biology. Submit curriculum vitae, undergraduate and graduate transcripts, brief statement of research interests, and three letters of reference to **Frederick Forro, Jr., Head, Department of Genetics and Cell Biology, 250 BioScience Center, 1445 Gortner Avenue, University of Minnesota, St. Paul, Minnesota 55108.**

Equal Opportunity/Affirmative Action Employer

DEPARTMENT DE PHYSIQUE POSTE DE PROFESSEUR EN ASTRONOMIE OPTIQUE

Un poste de professeur est maintenant disponible au Département de physique de l'Université de Montréal. Le candidat devra accepter de participer à la mise au point de l'équipement scientifique d'un nouvel observatoire astronomique dont l'instrument principal sera un télescope d'environ 1,5 m d'ouverture. Il contribuera aussi aux programmes de recherche et d'enseignement du Département.

L'engagement pourra se faire dès l'été 1977. Le rang académique (adjoint, agrégé ou titulaire) et le traitement sont en raison des qualifications et de l'expérience.

Les personnes intéressées sont priées de faire parvenir leur curriculum vitae, les noms de deux répondants et tout autre documentation, à l'adresse suivante:

Le Directeur
Département de physique
Université de Montréal
C.P. 6128
Montréal, Québec H3C 3J7
Canada

POSITIONS OPEN

POSTDOCTORAL RESEARCH ASSOCIATE POSITION IN PHYSIOLOGY

A postdoctoral research associate position is available to a qualified applicant to participate in research on the control of vasopressin secretion and its metabolism. Current research involves both normal and hypertensive animal models. Candidates must have a Ph.D., M.D., D.V.M., or comparable degree. Fellowship will begin 1 July 1977 with a stipend of \$10,000. Send curriculum vitae and the names of three references to:

**Department of Physiology and Biophysics
University of Tennessee Center for the Health Sciences
Memphis, Tennessee 38163**

Equal Opportunity/Affirmative Action Employer

MEDICAL RESEARCH FOUNDATION PRESIDENT

Senior research scientist who will serve as scientific director and devote major portion of his/her time to planning, development, and implementation of scientific programs of Oklahoma Medical Research Foundation. As chief executive officer, president is responsible to Board of Directors and Executive Committee for direction, planning, and development of the Foundation within Board-approved policies and programs. Foundation has close working relationships with University of Oklahoma Health Sciences Center and other Oklahoma Health Center institutions. Salary negotiable with excellent fringe benefits. *Equal Opportunity/Affirmative Action Employer.* Send curriculum vitae and letter of interest to **Chairman, Search Committee for President, Oklahoma Medical Research Foundation, 825 Northeast 13 Street, Oklahoma City, Oklahoma 73104.**

RESEARCH ASSISTANT—BIOCHEMISTRY. Seeking individual with experience in radioimmunoassay and neurochemical methods. Graduate or its equivalent in a biochemical discipline preferred plus 1 to 3 years of experience in a research setting; or an equivalent combination of education, training, and experience. Research will involve biochemistry/pharmacology of cyclic nucleotides, neurotransmitters, endocrine systems, and receptors in the central nervous system. Qualified individuals please send résumé and references to **Director, Neurosciences Research Unit, Department of Psychiatry, University of Vermont College of Medicine, Burlington, Vermont 05401. An Equal Opportunity Employer.** Position to be filled by mid-July.

RESEARCH ASSOCIATE IN BIOCHEMISTRY/CELL BIOLOGY: Postdoctoral position with an active research group studying the cell biology of platelets. Specific problems include mechanisms of contractility and membrane receptors. Send curriculum vitae to either **Alfred Stracher or Thomas Detwiler, Department of Biochemistry, State University of New York, Downstate Medical Center, Brooklyn, N.Y. 11203.**

RESEARCH MICROBIOLOGIST. Manufacturer of veterinary biological and pharmaceutical products has career opportunity in research and development. B.S. in microbiology or bacteriology, plus 2 to 3 years of professional lab experience required. Send résumé, including salary history, to

**BAYVET Division
Cutter Laboratories, Inc.
P.O. Box 390
Shawnee Mission, Kansas 66201**
An Equal Opportunity Employer

RESEARCH SCIENTISTS

An expanding biomedical research firm in in suburban Washington, D.C., currently has positions available for qualified professional senior and technical personnel, in the following disciplines:

**Immunology—Immunochemistry
Radio-Immunochemistry
Oncogenic virology—Cell biology
Mouse genetics
Lipid biochemistry
Clinical chemistry**

At least 2 years of postdegree experience preferred. Interested individuals should submit references, salary requirements, and curriculum vitae in complete confidence to:

**MELOY LABORATORIES, INC.
6715 Electronic Drive
Springfield, Virginia 22151
Attn: Code R30**

Equal Opportunity Employer, M/F

**PATHOLOGIST
CARCINOGEN
ASSESSMENT GROUP
U.S. ENVIRONMENTAL
PROTECTION AGENCY**

The U.S. Environmental Protection Agency is seeking to fill the position of pathologist on the agency's Carcinogen Assessment Group (CAG), with an individual experienced in experimental pathology. The CAG is responsible for evaluating all data relevant to the determination of human health risks posed by suspect carcinogens. Most often data available for evaluation is animal bioassay data. The CAG is responsible for making recommendations to the agency's programs and to the administrator regarding the risk associated with each suspect carcinogen. Candidates must have a M.D., Ph.D., or equivalent degree with experience appropriate to the CAG's mission. The individual must have experience in interpreting carcinogenesis studies and must be competent to serve as an expert witness for the agency, as necessary. This position does not involve patient-care responsibility. The incumbent need not have a current license to practice medicine.

Location: Washington, D.C.

Salary range: \$28,725 to \$43,923, plus Civil Service benefits.

Applicants should submit an SF-171, Application for Federal Employment, to Virginia Cannon, Environmental Protection Agency, 401 M Street, SW, Washington, D.C. 20460, PM-212.

**VISUAL SCIENCE
Psychophysics**

Eye Research Institute of Retina Foundation wishes to hire a permanent staff member specializing in visual psychophysics. The candidate should be interested in accurate and sensitive descriptions of functions of the central retina related to the physiological and physical determinants of visual performance. The most important criteria are excellence in quality of research, and willingness to explore application of psychophysical techniques to clinical diagnosis and treatment. This staff member will be expected to act as an adviser in the development of new clinical techniques and to help supervise clinical measurements taken by other workers. Available facilities: Individual laboratory and office space of 320 square feet; additional clinical testing space in medical office building; shared instrument shop and electronics shop. Collaborative research arrangements with other department members possible if appropriate. Candidate should have enough postdoctoral experience to be ready for an independent research program. Send curriculum vitae, a brief statement of expected research direction, and names of three or more references to address below.

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**Director
Department of Retina Research
Eye Research Institute of Retina Foundation
20 Staniford Street
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CHEMIST**

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SCIENTIST with a minimum of 5 years of postdoctoral experience in tissue culture and related work is sought to join a newly formed group involved in a project investigating muscle and nerve disease in humans and animals. Curriculum vitae and bibliography to:

Walter G. Bradley
Department of Neurology
Tufts-New England Medical Center
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Dr. Marc Lorenzen
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3700 Mt. Diablo Boulevard
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Possible position in **VERTEBRATE ZOOLOGY**. Fall 1977. Appointee must possess a Ph.D. and an established record in research. Duties will include teaching lower level zoology, human anatomy, courses in appointee's specialty, and an active research program. Must actively seek outside research funding. Salary open. All applications must be received by 15 April, and include a complete curriculum vitae and two letters of recommendation. Material should be forwarded to: **Dr. Iola T. McClurkin, Professor of Biology, University of Mississippi, University, Miss. 38677. Equal Opportunity Employer, M/F.**

VICE PRESIDENT FOR RESEARCH

Applications are invited for the position of vice president for research at Utah State University. Criteria shall include the ability to promote and develop interdisciplinary, inter-institutional, and international research with experience in the development and conduct of scholarly and creative programs. Applicants should submit résumés by 1 May 1977 to: **Kent R. Van Kampen, Chairman, Selection Committee, UMC 48, Utah State University, Logan, Utah 84322.**

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POSTDOCTORAL FELLOWSHIP—Position available about 1 September 1977 in the laboratories of Drs. Barbara and Bruce Furie for the study of the biochemistry of blood coagulation proteins employing immunochemical approaches and solid phase peptide synthesis. Salary based upon NIH stipends; 2-year support available. Applicant with Ph.D. or M.D. degree within past 3 years should have background in protein or peptide chemistry. Send curriculum vitae and three references to **Linda C. Smith, Personnel Office, 37 Bennet Street, Boston, Mass. 02111. Tufts-New England Medical Center Hospital. An Equal Opportunity Employer, M/F.**

FELLOWSHIPS

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Postdoctoral research fellowships (up to 3 years in duration) available in endocrinology/metabolism at Mayo Graduate School of Medicine/Mayo Medical School. Candidates must have M.D. or Ph.D. degree, be U.S. citizens or permanent residents, and be committed to academic careers. Background in biochemistry highly desirable. Over 20 faculty members in program with research interests in all areas of endocrinology and metabolism. Limited possibility (for M.D. candidates) for interaction with clinical residency programs of Mayo Clinic. Supported by USPHS Research Service Award; stipends begin at \$12,200 and depend on previous experience. Available immediately. Send curriculum vitae, names of three references, and brief statement of research interests and career goals to:

Dr. C. D. Arnaud, Head
Endocrine Research Unit
Mayo Clinic
Rochester, Minn. 55901

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NATIONAL RESEARCH SERVICE AWARD FELLOWSHIPS IN LUNG BIOCHEMISTRY OR ANATOMY

A few NIH postdoctoral fellowships for up to 3 years are available to study lung cell biology including biochemistry and ultrastructure. Excellent background in a basic science, medicine, or veterinary medicine is essential. A commitment to basic or applied research on the lung is desirable. Participating faculty are in departments of anatomy, biochemistry, medicine, and physiology. Inquiries, curriculum vitae, and names of three references to **Donald Massaro, M.D., University of Miami School of Medicine, P.O. Box 520875, Biscayne Annex, Miami, Florida 33152. An Equal Opportunity Employer.**

POSTDOCTORAL FELLOWSHIPS in auditory neurosciences available for 1977-78 for persons interested in (i) psychoacoustics and auditory behavior of the hearing impaired, and (ii) processing of speech by children and hearing-impaired adults. (Fellowships in auditory physiology will be available for 1978-79.) Send résumé and letter describing career goals to: **Lois L. Elliott, Ph.D., Program in Audiology and Hearing Impairment, Northwestern University, Evanston, Ill. 60201. An Affirmative Action Employer.**

APPLICATIONS INVITED FOR ASA/AAAS CONGRESSIONAL SCIENCE FELLOWSHIP

The Acoustical Society of America, in cooperation with the American Association for the Advancement of Science, invites members of the ASA to apply for a Congressional Science Fellowship. The award will be \$18,000 for 1 year, beginning 1 September 1977, and the deadline for applications is 31 March. The fellowship program selects postdoctoral (or equivalent) level to mid-career scientists and engineers to spend 1 year on the staffs of congressmen, congressional committees, or with some other area of the Congress. Information on the application procedure is available from **B. H. Goodfriend, Acoustical Society of America, 335 East 45 Street, New York, N.Y. 10017. Telephone: 212-685-1940.**

COURSES

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We are pleased to announce our **1977 Summer Program** of marine biology courses at Santa Catalina Island:

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Advanced Methods in Underwater Research (25 July to 30 August). Andrew Pilmanis and Robert Given, instructors.

Neurosciences Program (25 July to 30 August). Alvin Siger, coordinator. Charles Lent, instructor.

During the academic year formal courses are also available. Research opportunities and conference facilities are available throughout the year.

For additional information, write **Robert Given, Catalina Marine Science Center, P.O. Box 398, Avalon, Calif. 90704, or telephone: 213-746-6792.**

COURSES

DIGITAL AND OPTICAL IMAGE PROCESSING—13 to 17 June. Course covers image representation, coding, quantization, color image processing, coherent optical and optical-digital processing, ultrasound image processing, image analysis and restoration, applications to biomedicine, design of scanners and displays. Offered jointly by the **Department of Electrical Engineering and The Institute of Optics, University of Rochester, Rochester, N.Y. 14627. \$440.**

CONFERENCE

TRANSPORTATION OF RADIOACTIVE MATERIALS IN URBAN ENVIRONS— PUBLIC MEETING OF TASK GROUP

Members of the public are invited to attend a meeting of the task group considering the environmental impact of transporting radioactive materials through large U.S. cities. This task group, composed of persons associated with governmental, academic, industrial, and environmental organizations was formed to provide a varied, broad input to the environmental assessment being performed by Sandia Laboratories, under contract to the U.S. Nuclear Regulatory Commission. This third meeting of the task group will be held on March 29 and 30, 1977, beginning at 9 a.m., in the Ballroom of the Holiday Inn—Downtown, 301 Lombard Street, Baltimore, Md. A tour of radioactive package handling facilities at the Port of Baltimore is planned. The public is also invited to attend the part of the tour comprised of briefing at the Dundalk Marine Terminal and the bus tour around certain parts of the terminal. Admission is free. For further information, contact **Art DuCharme, 5413, Sandia Laboratories, Albuquerque, N.M. 87115 (505-264-5571).**



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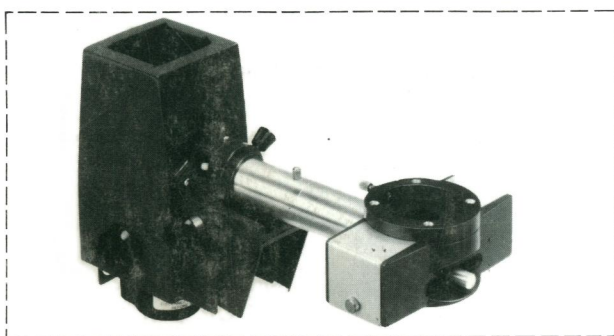
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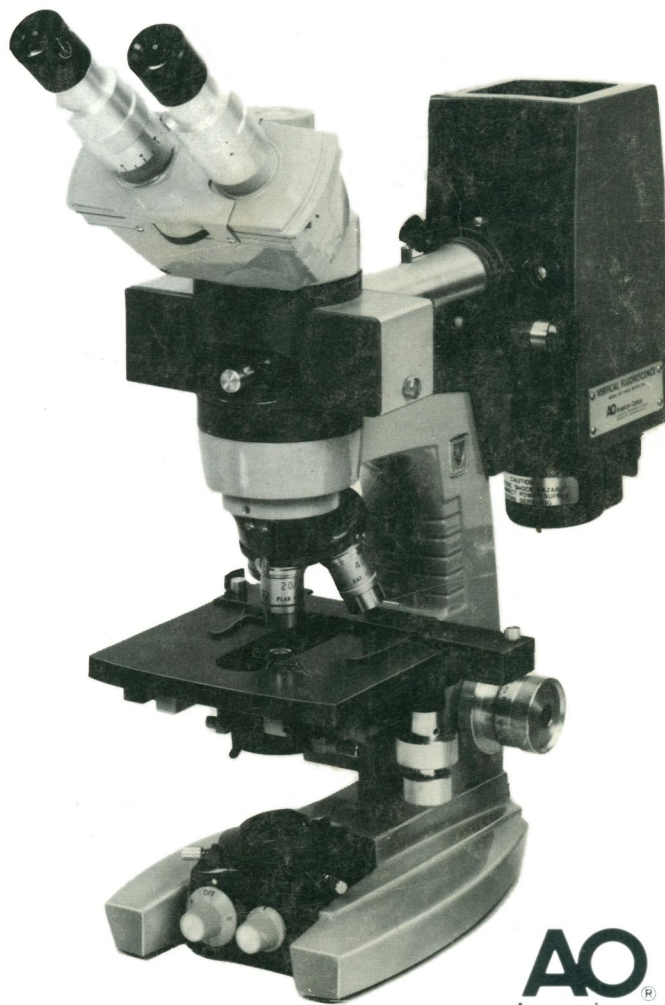
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