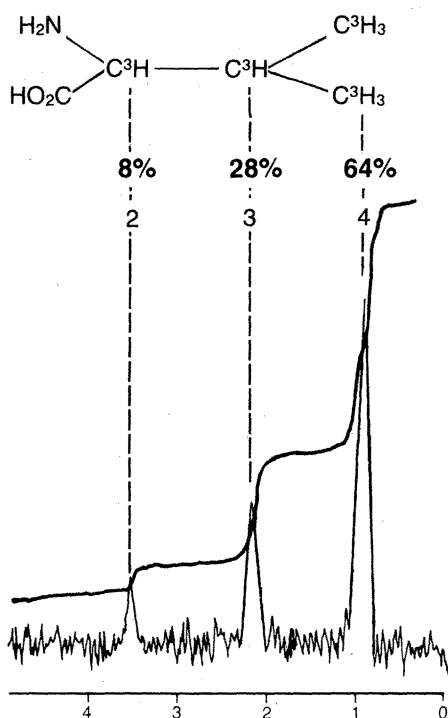


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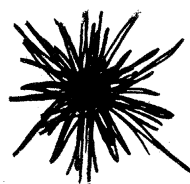
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10 February 1978



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on

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POSITIONS WANTED

Anatomist/Gross and Neuroanatomy. Competent also in histology and embryology. Excellent teacher. Experience with medical, dental, and paramedical students. D.D.S.; M.S. qualifications, with strong background in pathology. Administrative experience. Highest references. Desires stable position. Box 37, SCIENCE. 2/3; 3/3

Biochemical Endocrinologist. Ph.D. Two years of independent postdoctoral research and teaching. Extensive experience in human and experimental mammary cancers, hormone receptors, tissue culture, and RIA. Broad proficiency in biochemical techniques. Publications, societies, honors, and references. Prefers academic or industrial position. Available summer 1978. Box 18, SCIENCE. 2/3, 17; 3/3, 17

Biochemist. M.D., Ph.D., assistant professor, wishes to change position. Over 10 years of research, grants, publications. Expertise in induced enzyme biosynthesis, purification and characterization of proteinases and inhibitors. Current research: biochemical and clinical aspects of antitrypsin. Box 16, SCIENCE. X

Biochemist. Ph.D. (1965). Structure and function of cardiovascular glycoproteins. Broad research, teaching, and supervisory experience. Publications. Seeking a senior level academic or industrial research position with research emphasis. Box 38, SCIENCE. X

Biologist/Ecologist. Ph.D. 1975. Seeks teaching, research, or administration with college, industry, government, private organization. Experience in geothermal, toxic metals, radioecology, alpine environments, national parks, wilderness, bioethics, environmental education. Box 39, SCIENCE. 2/3, 10

Freelance Science Writer. with extensive experience in the fields of infection, psychiatry, cancer, and respiratory therapy; available for author-derived and original books, reports, and articles. New York City-based. Write: Box 36, SCIENCE. X

Psychopharmacologist. Ph.D., needs position change. Highly motivated and productive. Main interests include antiparkinsonism drugs, narcotics, psychotropic drugs, neurochemical correlates. Many publications; many exciting ideas. Also enthusiastic about organizing a new CNS research laboratory. Box 445, SCIENCE. X

POSITIONS WANTED

Physiologist/Ecologist. Research in evaluating nutrient supplies for aquatic plants and in hunger, feeding, and natural food supplies of praying mantids. Broad education in zoology and botany. Four years of teaching experience. Seeks teaching and research position. Box 41, SCIENCE. X

Zooarcheologist/Curator. M.S., zoology, 1975. Experience: curation; research in zooarcheology, vertebrate paleontology, and ecology; teaching; writing. Two years at major museum. Publications. Seeking museum or university position. Box 40, SCIENCE. X

POSITIONS OPEN

ACADEMIC GASTROENTEROLOGY POSITIONS. The State University of New York at Buffalo (SUNYAB) is establishing a new program in gastroenterology. Positions available at all academic levels; research is an important facet. Laboratory space and initial support funds are available. The program utilizes the clinical facilities of the E. J. Meyer Hospital, a new 750-bed hospital, the Buffalo General Hospital, the Children's Hospital, the Veteran's Administration Hospital, and Roswell Park. The basic science department of the university and Roswell Park are available for consultation and collaboration.

Address inquiries and curriculum vitae to: **Milton M. Weiser, M.D., Chief, Gastroenterology and Nutrition, SUNYAB, c/o GI Laboratory, Massachusetts General Hospital, Boston, Mass. 02114.** Affirmative Action/Equal Opportunity Employer.

DEPARTMENT OF ANATOMY UNIVERSITY OF CALIFORNIA, IRVINE COLLEGE OF MEDICINE

The Department of Anatomy has openings for three regular faculty appointments (one professor and two assistant professors) for fall 1978. Accomplishments in the neuroscience field and experience in the teaching of embryology, histology, or gross anatomy will be strongly preferred. A minimum of 2 years of postdoctoral research experience is required. *Applications from all qualified candidates are welcome; women and minorities are encouraged to apply.* Applications must include a curriculum vitae, professional references, and copies of major publications. Send applications to:

John E. Swett, Ph.D.
Department of Anatomy
California College of Medicine
University of California
Irvine, California 92717

ANATOMY-CELL BIOLOGY

Two faculty positions will become available 1 September 1978 at the level of advanced assistant professor or of associate professor. Teaching responsibilities will be in gross anatomy or histology, and in cell biology. The individuals should have strong research programs (preferably funded) on electrolyte-transporting epithelia, involving expertise in one or more of the following: electron microscopy, EM cytochemistry, autoradiography, freeze-fracture, and electrophysiology. Applicants should send curriculum vitae, a paragraph describing current research, and should arrange to have three letters of recommendation forwarded to: **Box 32, SCIENCE.** Code 1400FO; 1800FO. An Affirmative Action/Equal Opportunity Employer.

ASSISTANT PROFESSOR IN DEPARTMENT OF SURGERY

Ph.D. with several years of postdoctoral experience required for director of research laboratories concerned with studying various aspects of spinal cord trauma. Appointee should be familiar with electron microscopic, electrophysiological, and metabolic techniques with background in neuroanatomy and neurophysiology. Experience with radioisotope tracing methods desirable. Duties include administration of several laboratories and participation in spinal cord trauma research. Salary commensurate with experience.

Please send curriculum vitae to:

Dr. William F. Collins, Chief
Section of Neurosurgery
Yale University School of Medicine
333 Cedar Street
New Haven, Connecticut 06510

Equal Opportunity/Affirmative Action Employer

POSITIONS OPEN

ANATOMY-REPRODUCTIVE BIOLOGY

A faculty position will become available 1 September 1978 at the level of advanced assistant professor or early associate professor. Teaching responsibilities will be in histology and in cell biology. The individual should have a strong research program (preferably funded) in cell and reproductive biology, involving electron microscopy, EM cytochemistry, and correlated biochemical approaches. Preference will be given to programs on the corpus luteum. Applicants should send curriculum vitae, a paragraph describing current research, and should arrange to have three letters of recommendation forwarded to: **Box 31, SCIENCE.** Code 1900FO. An Affirmative Action/Equal Opportunity Employer.

ANIMAL NUTRITIONIST

Large pet foods manufacturer is seeking an animal nutritionist to manage its nutritional research program. Requires a Ph.D. in animal nutrition or allied field. Professional experience preferred but not required. Responsibilities include long-term research planning, managing internal and external nutritional research programs, technical direction for marketing programs, liaison with regulatory agencies, and serving as an integral part of the overall management team. Competitive salary and excellent benefits program. Send résumé to:

Box 26, SCIENCE

An Equal Opportunity Employer, M/F

ASSISTANT, CURATOR, VERTEBRATE PALEONTOLOGY. Applications are invited for position of assistant curator in paleoichthyology, American Museum of Natural History. Requisites: strong research orientation in paleoichthyology, particularly Paleozoic and Mesozoic; ability to conduct significant research, to prepare research papers; capacity and interest in conducting interdisciplinary studies. It is expected that applicant be active in field investigations and in collecting materials for research purposes. Duties include participation in curatorial program, including exhibition, of the American Museum of Natural History. Appointment to be effective October 1978. Successful candidate must have Ph.D. in hand by time of appointment. Applications should include: (i) brief statement of research interests, (ii) curriculum vitae, (iii) complete bibliography, and (iv) three letters of recommendation. Applications must be submitted by 1 May 1978 to: **Dr. Richard H. Tedford, Chairman, Department of Vertebrate Paleontology, American Museum of Natural History, Central Park West at 79 Street, New York, New York 10024.** Equal Opportunity/Affirmative Action Employer, M/F.

ASSISTANT PROFESSOR to teach undergraduate courses in wood anatomy/identification and dendrology and graduate course in wood quality. Plan and carry forward research in general area of wood quality, including the effects of silvicultural and genetic manipulation of wood properties. Guide graduate students. Ph.D. degree completed or nearly completed. *Applicants' qualifications will be considered without regard to race or sex. Women and minorities are urged to apply.* Applications will be received until 30 April 1978. Write: **Donald G. Arganbright, Search Committee, Forest Products Laboratory, University of California, 47 and Hoffman Boulevard, Richmond, California 94804.** University of California is an Equal Opportunity/Affirmative Action Employer.

POSITIONS OPEN

ASSISTANT PROFESSOR OF BIOLOGY: faculty position for experienced cellular neurophysiologist, competent either in molecular or genetic techniques. Salary commensurate with background. Applications should include curriculum vitae, names and addresses of three references, and brief résumé of research interests and future plans. Responses should be directed to: **Neurobiology Search Committee, Biology Department B-022, University of California, San Diego, La Jolla, Calif. 92093.** Deadline for applications is 1 March 1978. *The University of California is an Equal Opportunity/Affirmative Action Employer.*

ASSISTANT PROFESSORSHIPS OF COMPUTER SCIENCE MASSACHUSETTS INSTITUTE OF TECHNOLOGY (MIT)

The MIT Department of Electrical Engineering and Computer Science has several positions available starting September 1978 or earlier, for superior candidates interested in teaching and research. Candidates from all areas of specialization within computer science will be considered. The department has special interest in candidates in the hardware and computer systems areas. Research would probably be performed within the Laboratory for Computer Science (formerly Project MAC), the Artificial Intelligence Laboratory, or the Research Laboratory for Electronics.

Applications should include a curriculum vitae, and names and addresses of three or more references; non-U.S. citizens should include an explanation of visa status. Additional material describing the applicant's work, such as papers or technical reports, and a one-paragraph statement of future research plans would be helpful. Send applications to:

Professor Albert R. Meyer
Chairman, Computer Science Search Committee
545 Technology Square, MIT Room 515,
Cambridge, Mass. 02139

MIT is an Equal Opportunity/Affirmative Action Employer and actively solicits applications from women and minority group candidates.

ASSISTANT PROFESSOR—GEOLOGY

Opening for person in sedimentology with strong background in basic sciences and interest in applying theoretical concepts to field-oriented problems. Ph.D. required; postdoctoral research experience desirable. Apply to: **Chairman, Department of Geology, Arizona State University, Tempe, Arizona 85281** before 14 February 1978. *Arizona State University is an Equal Opportunity/Affirmative Action Employer.*

The Department of Pharmacology invites applications for **TWO** faculty positions at the **ASSISTANT PROFESSOR** level. One of these will be a joint appointment with the Department of Biochemistry. Candidates should be dedicated to independent research and are expected to participate in graduate and medical school teaching programs in the department. Applications will be accepted until 28 February 1978. Nominations or curriculum vitae and three letters of reference should be sent to:

Dr. A. G. Gilman
Department of Pharmacology
University of Virginia
School of Medicine
Charlottesville, Virginia 22901

An Affirmative Action/Equal Opportunity Employer

BIOMEDICAL ENGINEER

A biomedical engineer is required for a faculty position in the Kinesiology Department at Simon Fraser University. The appointee will be required to work in an interdisciplinary environment with biochemists, biologists, physiologists, physicians, psychologists, and biomechanics faculty on research problems related to human movement and human performance. The appointee should be able to teach courses at the undergraduate and graduate level on systems theory and biomedical instrumentation and to participate in team-taught physiology and human factors courses taking particular responsibility for neurophysiology.

The appointment, which is subject to the availability of funds and to approval by the Canadian immigration authorities, will probably be made at the assistant professor level with salary dependent on qualifications. Applications with the names of three referees should be sent to: **Dr. E. W. Banister, Chairman, Department of Kinesiology, Simon Fraser University, Burnaby 2, British Columbia, Canada V5A 1S6.**

POSITIONS OPEN

ASSISTANT PROFESSOR OF PHARMACOLOGY. An immediate opening is available for a faculty member in an established research-oriented department. Applicants must have a Ph.D. or M.D. degree with postdoctoral experience, and demonstrated research productivity. The successful applicant is expected to develop a strong research program while teaching duties are temporarily deferred.

Send curriculum vitae, bibliography, names of three referees, and a summary of research plans to: **Dr. Lawrence Isaac, Chairman, Search Committee, Department of Pharmacology, University of Illinois at the Medical Center, P.O. Box 6998, Chicago, Ill. 60680.** *The University of Illinois is an Equal Opportunity/Affirmative Action Employer.*

ASSOCIATE DIRECTOR, Data Analysis in Human Performance Laboratory and Longitudinal Research—Ph.D. required; experience in biostatistics or cardiovascular epidemiology. Emphasis in cardiovascular risk factor analysis preferred. Primary responsibility: data analysis for longitudinal research project in aerobics; full-time responsibility depends on interest in other aspects of study and/or teaching assignments in School of Medicine or HPER department. *Equal Opportunity Employer.* If interested in a dynamic Christian atmosphere, send résumé and transcripts to: **Dr. David E. Cundiff, Director, HPL, School of Medicine, Oral Roberts University, Tulsa, Okla. 74171.**

BIOCHEMIST

The Department of Biochemistry in the College of Human Medicine at the University of Wyoming has several faculty positions open for individuals interested in planning the integrated medical curriculum and teaching in a community-based medical school. The candidates will also be expected to participate in an active research and graduate and undergraduate program in biochemistry. Salary and rank will depend on qualifications and experience. Individuals with research interests and experience in endocrine, nutritional, or physical biochemistry are especially encouraged to apply. Applicants should send their curriculum vitae and a description of their future research plans by 1 March 1978, to:

Chairman
Department of Biochemistry
College of Human Medicine
University of Wyoming
Laramie, Wyoming 82071

CHAIRPERSON—DEPARTMENT OF BIOLOGY BAYLOR UNIVERSITY—WACO, TEXAS

The Department of Biology of Baylor University, a Baptist institution, invites applicants with experience in teaching, administration, and research for the position of chairperson to begin fall 1978 or earlier. The department has 13 staff members, over 125 senior majors, and 25 masters candidates. Qualified applicants should send curriculum vitae and four letters of reference to: **Chairperson, Search Committee, Box 242, Baylor University, Waco, Texas 76703.** *An Equal Opportunity/Affirmative Action Employer*

CHAIRPERSON DEPARTMENT OF ANATOMY

Cornell University Medical College invites applications and nominations for the position of professor and chairperson of the Department of Anatomy. The candidate must be an internationally recognized leader in the field, and demonstrate ability as a scholar, teacher, and administrator.

*Applications should be submitted
prior to March 1978*

CORNELL UNIVERSITY MEDICAL COLLEGE

*An Equal Opportunity/
Affirmative Action Employer*

Qualified women and minority group members are encouraged to apply. Curriculum vitae and bibliography should be sent to: **Dr. Erich E. Windhager, Chairman of the Search Committee, Department of Physiology and Biophysics, Cornell University Medical College, 1300 York Avenue, N.Y., N.Y. 10021.**

POSITIONS OPEN

BIOLOGIST. Chairperson, Department of Biology. Fall 1978. Ph.D., college teaching experience required, and administrative experience desirable. Areas of specialization preferred are general biology and ecology/plant morphology, but other areas will be considered. Duties include approximately half-time teaching with remainder devoted to supervision of undergraduate/graduate programs, 18-member faculty, and limited opportunity for individual research. Salary competitive for central states area and rank based on qualifications. Send curriculum vitae, transcripts, and three letters of recommendation to: **Dr. S. G. Diehl, Biology Search Committee, Southeast Missouri State University, Cape Girardeau, Missouri 63701.** *An Equal Opportunity/Affirmative Action Employer. Applications by 15 March 1978.*

CHAIRPERSON, DEPARTMENT OF ANATOMY

The Medical University of South Carolina is seeking a highly qualified individual to assume the position of professor and chairperson of the Department of Anatomy. Candidates must have the Ph.D. and/or M.D. degree, administrative-leadership abilities, a commitment to teaching, and a strong ongoing research program related to some aspect of the anatomical sciences. Exciting opportunities exist for the right person in this highly dynamic, evolving institution, dedicated to education and research in all aspects of the health care system. Nominations and applications should be sent to: **Dr. George E. Lindemayer, Chairman, Search Committee for Anatomy, Department of Pharmacology, Medical University of South Carolina, 171 Ashley Avenue, Charleston, S.C. 29403.** *An Equal Opportunity/Affirmative Action Employer.*

Challenging opportunity available as **CHAIRMAN** of the newly established Department of Cellular and Molecular Biology at Henry Ford Hospital. This department's main objective is the pursuit of new knowledge and understanding in those areas of science which traditionally have been aligned to the clinical practice of medicine. The main commitment will be to pursue research in biomedicine.

Responsibilities of office:

- 1) Direct the department and the allocation of resources (budget, space, personnel),
- 2) Act as liaison to clinic departments, and serve on the Council of the Henry Ford Hospital,
- 3) Recruit research and teaching staff, and establish research objectives,
- 4) Assist in grantsmanship, and
- 5) Facilitate teaching in allied health and medical education in coordination with the Director of Medical Education.

The successful candidate for the chairmanship of this department must have a Ph.D. and/or M.D. degree, and have established a research program and a record of research productivity in any science basic to medical care.

Jerry Dutkewych
HENRY FORD HOSPITAL
2799 West Grand Boulevard
Detroit, Michigan 48202

ENGINEERING FACULTY POSITIONS (12-month salary). The U.S. Merchant Marine Academy, Kings Point, N.Y., one of the five federal academies, has tenure-track openings beginning 1 July 1978 for assistant/associate professors of engineering in the following areas of interest: **electrical**—circuits, machinery, or automatic control systems; **marine**—diesel and steam propulsion systems; and **mechanical**—machine shop, graphics, mechanics, or design. Salary and rank are commensurate with licenses, degrees, and experience. Send résumé with names and addresses of references to: **Gerald P. Francis, Head of Engineering, 8 Fulton Hall, U.S. Merchant Marine Academy, Kings Point, N.Y. 11024.** Closing date: 15 March 1978. *An Equal Opportunity Employer.*

ENVIRONMENTAL GEOLOGIST TEXAS CHRISTIAN UNIVERSITY (TCU)

The Department of Geology is seeking an environmental geologist for a possible assistant professor, tenure-track opening beginning fall 1978 (Ph.D. required). The applicant also should have interest in one or more of the following: engineering geology, soil mechanics, geomorphology, marine geology, or land-use planning. Send letters of application (including a statement of research interest and teaching capabilities), transcripts, résumé, and the names of three references before 1 April 1978 to: **L. W. Newland, Department of Geology, Texas Christian University, Fort Worth, Texas 76129.** *TCU does not discriminate on the basis of sex, religion, handicap, race, or ethnic origin.*

POSITIONS OPEN

THE UNIVERSITY OF MELBOURNE CHAIR OF INORGANIC CHEMISTRY (RE-ADVERTISED)

The chair of inorganic chemistry, which is one of the three chairs in the School of Chemistry, is vacant after the appointment of Professor D. R. Stranks as vice-chancellor of the University of Adelaide.

Salary: A\$31,248 per annum.

Further information, including details of application procedure, superannuation, travel and removal expenses, housing assistance, and conditions of appointment is available on request. All correspondence (marked Confidential) should be addressed to: **the Registrar, The University of Melbourne, Parkville, Victoria, 3052, Australia.**

Applications close on 31 March 1978.

CHAIRPERSON. Seton Hall University invites applications for the position of chairperson, Department of Chemistry, to be filled in summer or fall 1978. Candidates should combine a record of scholarship with a history of extramural contract or grant support and should have demonstrated leadership in development of educational and research programs. Preference will be given to persons with research interests in analytical, biological, or inorganic chemistry. The department has strong programs at all levels through the doctorate and maintains close ties with the large industrial community in New Jersey. Applications, including a list of at least three references, should be received by 28 February 1978 by: **A. V. Cellano, Chemistry Department, Seton Hall University, South Orange, N.J. 07079.** *An Equal Opportunity/Affirmative Action Employer.*

CHEMIST—Radioisotopes, experienced in synthesis of tritium-labeled amino acids. Willing to relocate in California. Telephone personnel at 714-833-2500, extension 393, for more information.

EDITOR-WRITER for international family planning/population periodical; well trained in social science statistics; able to analyze, evaluate, and translate complex statistical material for readers who are not social scientists. Occasional travel necessary. Minimum of 5 years of editing and writing experience, preferably in family planning/population or related field. Knowledge of Spanish desirable. **Box 35, SCIENCE.** *Equal Opportunity/Affirmative Action Employer, M/F.*

ENVIRONMENTAL SPECIALIST; \$26,022 to \$30,750 per annum. The Smithsonian Institution is seeking applicants for a new position of environmental specialist with the Smithsonian Tropical Research Institute in Panama, Canal Zone, one of the world's principal centers for basic research in tropical ecology which will continue to grow. This person will have broad responsibilities, to include advising on the development of programs; representing the institute internationally; advising on legislation; working on environmental problems; developing proposals for new environmental regulations; and publishing scholarly articles. Applicants must have a minimum of 4 to 6 years of experience; advanced education may be substituted in part for the required experience. Special consideration will be given to applicants demonstrating both scientific and legal training. Spanish speaking ability is highly desirable. Extensive traveling may be required. Submit a completed SF-171 by 1 March 1978, to: **Office of Personnel Administration, Room 1410, Arts and Industries Building, Smithsonian Institution, Washington, D.C. 20560.** *The Smithsonian Institution is an Equal Opportunity Employer.*

FACULTY POSITION—GEOLOGY

Applications are invited for a position starting in September 1978. The person would be expected to initiate a program in the geological sciences within a Department of Natural Sciences (biology, chemistry, and physics) in a growing, urban university. A Ph.D. is required; previous teaching and independent research experience are preferred. The position will be at the associate or assistant level, contingent upon state funding. Please send résumé and arrange to have three letters of recommendation sent by 1 April 1978 to: **Faculty Search Secretary, The University of Michigan-Dearborn, 4901 Evergreen Road, Dearborn, Michigan 48128.** *A non-discriminatory, Affirmative Action/Title IX Employer.*

POSITIONS OPEN

CHEMISTRY

Department of Chemistry is seeking applicants with expertise in organic or polymer chemistry with a strong secondary emphasis on analytical chemistry. Position available September 1978. Involves undergraduate and master's-level teaching and development of active research program. Ph.D. required; teaching and/or postdoctoral research experience desirable. Send résumé, transcripts, 200-word statement of research interests (including equipment required), and two letters of reference to: **Dr. Robert E. VanAtta, Head, Department of Chemistry, Ball State University, Muncie, Ind. 47306.** Application deadline: 1 March 1978.

Ball State University practices Equal Opportunity in Education and Employment.

EPIDEMIOLOGIST: faculty position with the University of Louisville Cancer Center in Epidemiology and Statistics with areas of specialization in cancer public health, sampling, or experimental design. Rank and salary are dependent on qualifications. Apply to: **Dr. Richard Greenberg, University of Louisville, Health Sciences Center, P.O. Box 35260, Louisville, Kentucky 40232.** *An Equal Opportunity/Affirmative Action Employer.*

EXPERIMENTAL PHYSICIST

Research group engaging in advanced radiation physics requires the services of a physicist familiar with radiation detectors, electronics, and computer techniques. Applicants must have at least a master's degree. Experience in dosimetry and an interest in radiobiology are desirable. Send curriculum vitae to: **Dr. H. H. Rossi, Columbia University, Radiological Research Laboratory, 630 West 168 Street, New York, N.Y. 10032.** *An Equal Opportunity/Affirmative Action Employer.*

FACULTY POSITION, ASSISTANT PROFESSOR BIOLOGY PH.D.; AVAILABLE FALL 1978

Teaching and research interests in **developmental biology, endocrinology, or neurobiology.** Responsibilities include some undergraduate courses, development of courses and active research in candidate's area of expertise. Must also be able to teach course in **electron microscopy** and take charge of EM laboratory. Send résumé and references before 15 March to: **Professor M. S. Hertz, Department of Biology, C. W. Post Center, Long Island University, Greenvale, New York 11548.** *An Equal Opportunity/Affirmative Action Employer.*

FACULTY POSITION—ANIMAL PHYSIOLOGY

Applications are invited for a tenurable position at the assistant professor level starting September 1978. Duties include teaching undergraduate and graduate courses in human anatomy and physiology and comparative physiology. Candidates should have an interest in innovative teaching techniques and be able to contribute to an ongoing cardiovascular research program or alternatively have an already established research program. The University of Akron is a consortium member of the Northeastern Ohio College of Medicine.

Applications should include a curriculum vitae, transcripts, reprints of published papers, and the names and addresses of three referees. Respond to: **Dr. Dale Jackson, Department of Biology, The University of Akron, Akron, Ohio 44325,** by 1 March 1978.

Equal Opportunity/Affirmative Action Employer

INSTRUCTOR, Department of Molecular, Cellular and Developmental Biology, University of Colorado

To supervise and run laboratory portion of a large, established, introductory biology course. Duties include: supervising and training teaching assistants and preparators; upgrading of existing and designing of new laboratory exercises. Experience in laboratory course supervision is required; a master's degree or above is desirable. This non-tenure-track position is funded at \$12,000 to \$15,000 (dependent upon qualifications) for 1 year with a strong likelihood of funding for a second year. Starts August 1978. Please furnish curriculum vitae, references, and a statement describing background to: **Dr. J. R. McIntosh, Chairman, Department of Molecular, Cellular and Developmental Biology, University of Colorado, Boulder, Colorado 80309,** by 31 March 1978.

An Affirmative Action/Equal Opportunity Employer

POSITIONS OPEN

FACULTY POSITIONS

Recent Ph.D., M.D., or D.D.S. graduates with teaching experience in all areas of human anatomy will be needed for expanded programs in teaching medical, dental, and graduate students. Preference will be given to individuals with postdoctoral experience whose research is in cell biology, developmental anatomy, reproductive biology, or neurobiology. Positions are at instructor or assistant professor level with appointments beginning during summer 1978. Salary is within university guidelines and related to qualifications. Send curriculum vitae, bibliography, and three reference letters to: **Dr. E. G. Rennels, Chairman, Department of Anatomy, The University of Texas Health Science Center, San Antonio, Texas 78284.**

An Equal Opportunity/Affirmative Action Employer

FACULTY POSITION IN MICROBIOLOGY

Applications are invited for a tenure-track position in microbiology at the assistant professor level. Applicants should have an active research program, and be interested in supervising graduate student research. Teaching obligations will include a general biology course for nonmajors, and offering of courses in the field of specialty. Send curriculum vitae and the names of three references to: **Dr. M. W. Strickberger, Search Committee, Department of Biology, University of Missouri—St. Louis, 8001 Natural Bridge Road, St. Louis, Mo. 63121.**

An Equal Opportunity/Affirmative Action Employer

INTERDISCIPLINARY CHILD PSYCHOLOGIST

One faculty position in developmental psychology is available at the Institute of Child Development, University of Minnesota, beginning September 1978. The position is at the level of beginning assistant professor. Candidates should have interdisciplinary interests and competence in the biological basis of behavioral development with an appropriate doctoral degree. Examples of specialization within these approaches include family and group relations, comparative/cross-cultural socialization and cognitive/perceptual development, neurophysiological development, hormones/nutrition and behavior. Teaching responsibilities include introductory courses. Interested persons should send copies of their curriculum vitae and three letters of recommendation to: **Professor Tom Trabasso, Institute of Child Development, University of Minnesota, 51 East River Road, Minneapolis, Minnesota 55455.** Completed applications must be received by 15 March 1978 for adequate consideration. Salaries at the University of Minnesota are competitive, and the University of Minnesota is an Equal Opportunity/Affirmative Action Employer.

UNIVERSITY OF QUEENSLAND LECTURER IN CROP SCIENCE DEPARTMENT OF AGRICULTURE

To lecture in various aspects of crop (field, plantation, or horticultural) production. Higher degree in agricultural science, or science with agricultural experience. Demonstrated research capability in some aspect, such as crop ecology, crop physiology, or cropping systems. Quote Reference No. 53977, 6 March 1978.

Salary: A\$14,632 to A\$19,262 per annum.

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

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

POSITIONS OPEN

FACULTY POSITION. The Department of Biology, George Mason University, the State University of Northern Virginia, announces a tenure-track position at the assistant professor level beginning fall semester of 1978 in the environmental biology area. Responsibilities to include: teaching introductory biology and a graduate course in biological resource management; participating in further development of the graduate program in environmental biology, and the establishment of an active research program. The applicant must have the Ph.D. degree by September 1978. Send curriculum vitae, transcripts, and three letters of reference by 13 March 1978 to: **Environmental Search Committee, Biology Department, George Mason University, Fairfax, Virginia 22030.** *George Mason is an Affirmative Action/Equal Opportunity Employer.*

FACULTY POSITION IN BIOLOGY. To teach primarily in the areas of microbiology and biochemistry in a liberal arts college. Proper graduate background in these areas and Ph.D. required. Assistant professor level. Send résumé and names of three references to: **A. D. Chiquoine, Department of Biology, Hamilton College, Clinton, New York 13323.** *Women and members of minorities are encouraged to apply: Hamilton College is an Equal Opportunity Employer.*

MARINE MICROBIOLOGIST. The Osborn Laboratories of Marine Sciences has an immediate opening for a qualified, innovative Ph.D. to develop a new program in microbial ecology. Send curriculum vitae, a statement of objectives, and the names of three references to: **Dr. Kenneth Gold, Assistant Director, Osborn Laboratories of Marine Sciences, Boardwalk and West 8 Street, Brooklyn, N.Y. 11224.**

The Deep Sea Drilling Project, Scripps Institution of Oceanography, University of California, San Diego, is currently seeking to fill positions for **MARINE SEDIMENTOLOGISTS or GEOPHYSICISTS**, Ph.D. level. Sedimentologists should have strong background in mineralogy and sedimentary petrology. Geophysicists should have working knowledge of marine multichannel seismic, magnetics, gravity, and heat flow systems. These positions exist as project staff scientists who will engage in project-related and independent scientific research. Appointment anticipated in the assistant through associated professional research series; salary commensurate with experience. Please send completed résumé and names of at least three referees to: **Dr. David G. Moore, Deep Sea Drilling Project, A-031, La Jolla, Calif. 92093.** *The University of California is an Equal Opportunity/Affirmative Action Employer.*

MEMBRANE BIOPHYSICIST for research on muscle membranes. Minimum of 6 to 8 years post-Ph.D./M.D. experience; U.S. citizen or permanent resident; familiarity with protein and lipid biochemistry, electrophoresis, rapid kinetics, and electron spin resonance required. Salary: \$15,000. Contact: **Dr. J. Gergely, Boston Biomedical Research Institute, 20 Staniford Street, Boston, Massachusetts 02114.** *An Equal Opportunity/Affirmative Action Employer.*

MICROBIOLOGIST/CELL BIOLOGIST. Assistant professor, effective August 1978. Ph.D. required. Primary duties associated with the position will involve teaching undergraduate courses in microbiology and cell biology as well as participation in the introductory biology courses for majors and non-majors. Emphasis is on quality instruction but research is encouraged and expected. Applicants should send curriculum vitae, unofficial transcripts, and three letters of reference to: **Dr. Robert L. Watson, Chairman, Department of Biology, University of Arkansas at Little Rock, 33 and University Avenues, Little Rock, Arkansas 72204.** *An Affirmative Action Employer.*

ORAL MICROBIOLOGIST-IMMUNOLOGIST Tenure-track position at the assistant/associate professor level at 0.8 time, available 1 July 1978. Duties will include teaching in the areas of pathogenic and oral microbiology and immunology. Ph.D. required. Candidates are expected to have postdoctoral teaching experience in and a strong orientation toward oral microbiology and immunology. The successful candidate will be expected to generate research funds (including a supplemental stipend of 0.2 FTE if desired). Send curriculum vitae and the names of three references to: **H. R. Creamer, School of Dentistry, University of Oregon Health Science Center, Portland, Ore. 97201.** Application deadline is 15 March 1978. *The University is an Affirmative Action/Equal Opportunity Employer.*

POSITIONS OPEN

MOLECULAR BIOLOGIST

Applications are invited for the position of assistant professor (August 1978) in the Department of Biology at Creighton University. The position requires participation in biology instruction at the introductory level and development of upper division and graduate offerings in molecular biology. In addition to teaching, the individual will be expected to develop an active research program. Subsequent promotion will depend on both scholarly and teaching performance.

Applicants should send curriculum vitae (which includes a description of teaching experience and expertise), three letters of recommendation, and transcripts to:

**Chairman, Search Committee
Department of Biology
Creighton University
Omaha, Nebraska 68178**

The deadline for receipt of applications is 1 March 1978.

NEUROANATOMIST

A faculty position will become available 1 September 1978 at the associate professor or full professor level. The principal teaching responsibility will be in neuroanatomy. The individual should have a strong research program in modern neuroanatomy, preferably with emphasis at the cellular level. The department has excellent research facilities. If you are interested, please send curriculum vitae and arrange for three letters of recommendation to be sent to: **Box 33, SCIENCE.** Code 2000FO. *An Affirmative Action/Equal Opportunity Employer.*

ORAL PATHOLOGIST

University of Connecticut School of Dental Medicine, Department of Oral Diagnosis, is seeking a qualified D.D.S. or D.M.D. who is Board-eligible or Board-certified in oral pathology for a position in its Division of Oral Pathology. Responsibilities will include teaching of graduate and undergraduate clinical and didactic programs in oral pathology and oral diagnosis and participation on the department's biopsy service. A candidate with interests in establishing an independent research program is desired. Faculty appointment and salary commensurate with qualifications and experience. Applicants should forward their curriculum vitae and three references to:

**Leslie S. Cutler, D.D.S., Ph.D., Chairman,
Department of Oral Diagnosis
University of Connecticut School of Dental Medicine
Farmington, Connecticut 06032**

The University of Connecticut is an Equal Opportunity/Affirmative Action Employer. Women and minorities are encouraged to apply.

UNIVERSITY OF SOUTHERN CALIFORNIA (USC) ORE PETROLOGIST

The Department of Geological Sciences invites applications for a possible opening in ore petrology beginning September 1978, at the assistant professor level. Applicant must hold Ph.D. and be field oriented with expertise in metamorphic or igneous petrology and high-temperature geochemistry. Additional background in one or more of the following areas is desirable, but not required: structural geology, geothermal and other energy resources, applied geophysics, and environmental or engineering geology. Appointee will be expected to develop a teaching and research program in economic geology and develop cooperative relationships with the mineral industry. Please send résumés, including three references, to: **Dr. Gregory A. Davis, Chairman, Department of Geological Sciences, University of Southern California, Los Angeles, California 90007.** *USC is an Affirmative Action/Equal Opportunity Employer.*

UNIVERSITY OF OKLAHOMA College of Medicine

Applications are solicited for faculty positions in the following department: **PATHOLOGY: (#100) assistant-associate professor** to serve as director of clinical hematology, and **(#104) associate professor** with 4 years experience in pediatric pathology. Teaching and research responsibilities.

Applicants should send curriculum vitae, identifying vacancy number for which they are applying, to: **Dr. Thomas N. Lynn, Dean, College of Medicine, University of Oklahoma Health Sciences Center, P.O. Box 26901, Oklahoma City, Oklahoma 73190.** *We Are An Equal Opportunity Employer.*

POSITIONS OPEN

PATHOLOGIST

School of Medicine, University of California, San Francisco, is searching for a **chief of pathology/staff pathologist** for its affiliated VA Hospital in Fresno, California. The Medical School is developing a major clinical branch in the central San Joaquin Valley. The VA Hospital in Fresno is a principal site of medical student clerkship and housestaff instruction. Candidates should have interest in clinical teaching and academic program development, as well as organization and operation of pathology laboratory services. Board-certification in clinical and anatomical pathology required. Kindly address inquiries to: **David Werdegard, M.D., Associate Dean, University of California Medical Education Program, 2615 East Clinton Avenue, Fresno, California 93703.**

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

UNIVERSITY OF MICHIGAN MEDICAL SCHOOL

Position available 1 July 1978. Prefer Board-certified **PSYCHIATRIST** with 3 to 5 years experience with the severely disabled. Level from instructor to associate professor. Code 200DO. Send résumé to: **Box 34, SCIENCE.** A nondiscriminatory, Affirmative Action Employer.

PHYSIOLOGIST. A tenure-track assistant professorship is available September 1978. Responsibilities include teaching physiology and other undergraduate biology courses. Qualified applicants must be devoted to excellence in teaching and research in a small liberal arts institution. Recent Ph.D. preferred. Send curriculum vitae, transcripts, and names of three references to: **Dr. J. L. Blount, Chairman, Biology Department, Mount Union College, Alliance, Ohio 44601.**

PHYSIOLOGICAL ECOLOGIST-ENVIRONMENTAL CHEMIST

Two positions for a physiological ecologist and environmental chemist are open to study the fate and biological effects of trace organics from coal liquefaction and gasification in aquatic systems. Ph.D., publications, and U.S. citizenship required. Physiological ecologist should also be able to study biological effects at the population and community levels. Salary and rank negotiable on a 12-month appointment to commence June 1978. EPA funded research; 2-year appointment guaranteed, with possible extension. Send curriculum vitae, names of references, publications, and other supportive information by 1 March 1978, to:

**John P. Giesy, Ph.D.
University of Georgia
Savannah River Ecology Laboratory
Drawer E
Aiken, S.C. 29801**

An Equal Opportunity/Affirmative Action Employer

PLANT PHYSIOLOGIST. Assistant professor of botany (tenure-track), beginning 15 August 1978. Requires Ph.D. in botany (plant physiology); preference given to applicants with postdoctoral experience and strong backgrounds in photosynthesis. Duties include teaching undergraduate and graduate courses in plant physiology, establishing a research program, and directing graduate students. Send a résumé, brief statement of research interests, transcripts, and three letters of recommendation to: **Dr. J. R. Troyer, Chairperson of Search Committee, Department of Botany, North Carolina State University, Raleigh, N.C. 27607.** *An Equal Opportunity/Affirmative Action Employer.*

POSTDOCTORAL POSITION IN BIOCHEMISTRY

Available immediately for a highly motivated investigator to isolate and examine the properties of eukaryotic protein synthesis elongation factors. Prefer individual with some background in protein chemistry. Send curriculum vitae and names of three references to: **Dr. James W. Bodley, Department of Biochemistry, 227 Millard Hall, 435 Delaware Street, SE, University of Minnesota Medical School, Minneapolis, Minnesota 55455.** *An Equal Opportunity Employer.*

POSTDOCTORAL POSITION available immediately for research in electrophysiological and biochemical aspects of pituitary hormone secretion; experience in intracellular recording required. Please send curriculum vitae and references to: **Dr. R. E. Mains, Department of Physiology, C-240, University of Colorado Medical Center, Denver, Colorado 80262.**

An Equal Opportunity/Affirmative Action Employer

MARINE BIOLOGIST

A senior technical position for a Ph.D. in marine biology with a specialization in benthic ecology. Duties include experimental design, community and population dynamics analyses. Management experience desirable.

TECHNICAL MANAGER

Position requires Ph.D. or equivalent technical experience in physical discipline. Duties will include supervision of physical sciences and engineering group, direction and management of professional multidisciplinary programs and business development. Several years professional management experience required.

Both positions headquartered in southern New Hampshire.

Send resume with salary history to:

Dr. W. S. Bosworth,
Vice-President-Operations

NORMANDEAU ASSOCIATES, INC.
Nashua Road,
Bedford, N. H. 03102



An equal opportunity employer, M/F

Physical Oceanographers GS-13/14 (TWO POSITIONS)

GS-13 Salary Range from \$26,022 to \$33,825 per/annum

GS-14 Salary Range from \$30,750 to \$39,975 per/annum

OFFICE OF NAVAL RESEARCH Announcement 77-080-K

The successful applicants will become Scientific Officers in the Physical Oceanography Program of the Office of Naval Research's Ocean Science and Technology Division. The individuals will be responsible to the Program Manager for initiating, planning, organizing, directing and carrying through to completion broad research projects in physical oceanography. This is a contract search program, primarily at academic institutions, and is presently budgeted at \$8,250,000 per year. Although the tasks in the program are unclassified, it is oriented toward the

mission problems of the Navy. Education at the PhD level in physical oceanography or a related physical science, or equivalent professional experience, as demonstrated by published articles, management experience, and an ability to make lucid technical presentations, are required. It is desirable that applicants have considerable seagoing experience.

Interested candidates should submit personal qualifications statement, Standard Form 171, including publications and reference to:

Civilian Personnel Office (Code 123) Naval Ocean Research and Development Activity NSTL Station, Mississippi 39529

These positions are in the Federal Career Service with all Civil Service benefits.

These positions may be located either at NSTL Station, Mississippi (approximately 45 minutes drive east of downtown New Orleans, LA) or at Ar-

lington, Virginia (approximately 10 minutes drive southwest of Washington, DC). Applicants must indicate which of these duty stations is/are acceptable.

These positions will be held open until such time as suitable applications have been obtained.

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DEAN OF GRADUATE STUDIES AND RESEARCH

Queens College of the City University of New York

Queens College invites applications and nominations for the position of Dean of Graduate Studies.

Queens is a senior college of the City University of New York. The 1500-member professional staff offers challenging liberal arts education to approximately 22,600 undergraduate day, school of General Studies, and graduate students. The College offers graduate work leading to the master's degree in a variety of fields and to professional certificates in several areas. The City University offers doctoral programs in which the College participates. Advanced work for the CUNY doctorate in a number of disciplines is given at Queens.

The role of the Dean will be to strengthen existing graduate programs, to take a creative approach in establishing new ones, and to help develop sources of public and private funding for these programs. In addition, the successful candidate will have major responsibility for overseeing the research and grant programs at the College and will be the College's representative on the Graduate Advisory Council of CUNY.

The Dean of Graduate Studies at Queens College must be an imaginative, energetic leader with broad experience in graduate education including demonstrated expertise in graduate-level teaching. The successful candidate, who must be a recognized leader in his or her academic discipline, should present the outstanding credentials, including an earned doctorate, that deserve a tenured full professorship (annual salary: \$33,475 with an annual supplement of \$7500).

Qualified applicants are urged to submit a resume and supporting data by February 28, 1978 to Dr. Corinne A. Michels, Chairperson, Search Committee, Box C, Queens College, Flushing, N.Y. 11367.

An Affirmative Action/Equal Opportunity Employer

THE MARINE BIOLOGICAL LABORATORY (MBL)

Woods Hole, Massachusetts 02543

offers

A YEAR IN SCIENCE AT THE MBL
Summer 1978; Fall 1978; Spring 1979

The Marine Biological Laboratory offers year-round opportunities for study and research in biology to advanced undergraduate and graduate students. The Year-in-Science program is designed for undergraduates who might normally participate in an honors program at a university and who can benefit from a broad exposure to the scientific community of Woods Hole, and graduate students who have a special need for the opportunities available in research or training in Woods Hole. The program will emphasize opportunities available at the Marine Biological Laboratory, but students are encouraged to participate in seminars, lectures, and to consult staff of the Woods Hole Oceanographic Institution, the National Marine Fisheries Service Laboratory, the U.S. Geological Survey, and the Boston University Marine Program.

Students will take a full curriculum equivalent to 16 credit hours in research and course work, and will select a staff member who will act as adviser throughout the semester. Applicants are encouraged to correspond with the scientific staff in Woods Hole prior to submission of their application.

Staff participation in the Year-in-Science program includes the staff of the Ecosystems Center: Dr. George M. Woodwell, director, Dr. Daniel B. Botkin, Dr. John E. Hobbie, Dr. Bruce J. Peterson, and Dr. Jerry M. Melillo; staff of the National Institutes of Health Program in Neurophysiology and Behavior: Dr. Daniel Alkon; staff of the Laboratory of Sensory Physiology: Dr. Edward F. MacNichol, director; and other scientists at the MBL.

Students enrolled in the Year-in-Science program for the entire academic year may participate, tuition free, in one of the January courses or arrange a special project during that month.

The Marine Biological Laboratory assigns no credits for courses. If academic credit is desired, arrangements must be made by the student with a degree-granting institution to accept for credit the curriculum offered at the MBL. Upon request, the MBL will issue a Certificate of Completion of a course.

Three terms are offered throughout the year:

Summer semester: 5 June to 25 August 1978;

Fall semester: 25 September to 5 December 1978; and

Spring semester: 5 February to 27 April 1979.

Tuition: \$1800 per semester. Limited scholarship funds are available. Room and board: \$660 per semester (approximate); \$226 in January.

For application forms write to: **Admissions Office, Marine Biological Laboratory, Woods Hole, Massachusetts 02543**, or telephone: 617-548-3705. Deadline for receipt of completed applications: summer: 1 May; fall: 1 July; and spring: 1 November.

POSITIONS OPEN

NATURAL RESOURCES (Soils)

Assistant or associate professor in Department of Natural Resources. Will teach undergraduate and graduate courses in soils and related areas with some opportunity for research. Bachelor's degree plus 3 years graduate study in soil science or related field required with 3 years professional experience desired. Doctorate preferred. Although not required, an interest and competence in wastewater treatment and/or solid waste management is desirable. Department moved into new teaching and research facilities in July 1977. Send résumé, two letters of recommendation, and transcripts of all college work to: **Dr. Clyde W. Hibbs, Chairman, Department of Natural Resources, Ball State University, Muncie, Ind. 47306.** Application deadline: 31 March 1978.

Ball State University practices Equal Opportunity in Education and Employment.

POSTDOCTORAL POSITIONS available immediately for research on the control of pancreatic acinar cell function by hormones and neurotransmitters. One position is for study of control of intracellular Ca^{2+} and its relation to enzyme release. Background in cellular biochemistry or physiology with experience in spectroscopic techniques desirable. Other positions for study of the action of GI and islet hormones on synthesis and secretion of pancreatic enzymes. Send curriculum vitae and names of three references to: **Dr. John Williams, Department of Physiology, University of California, San Francisco, Calif. 94143.**

POSTDOCTORAL POSITIONS

Postdoctoral positions in viral oncology and related fields are available in NCI-supported training program. Research interests of participating faculty include mechanisms of productive and abortive viral infections; viral genome persistence; biological and biochemical characterization of defective viruses; viral RNA and DNA structure; phylogenetic aspects of RNA sequence and modification; and somatic cell genetics. Résumés, references, and inquiries should be sent to:

**Postdoctoral Search Committee
Department of Microbiology
College of Medicine and Dentistry of New Jersey
Rutgers Medical School
P.O. Box 101
Piscataway, New Jersey 08854**

An Equal Opportunity/Affirmative Action Employer

POSTDOCTORAL POSITION available (1 March) to study the regulation of nitrogen fixation in *Klebsiella pneumoniae*. Applicant should have background in bacterial genetics and enzyme isolation and characterization. Please send curriculum vitae and two letters of recommendation to: **Dr. Richard Goldberg, Department of Biology, Temple University, Philadelphia, Pa. 19122.**

POSTDOCTORAL POSITIONS—IMMUNOLOGY. (i) Immunoparasitologist and (ii) organic or biochemist with experience in protein chemistry. Available immediately. Send curriculum vitae and names of referees to: **Dr. A. Sehon, Director, Medical Research Council Group for Allergy Research, Immunology Department, University of Manitoba, Winnipeg, Manitoba, Canada R3E 0W3.**

POSTDOCTORAL POSITIONS in development and reproductive biology are available at the Jackson Laboratory. Interdisciplinary projects are encouraged in the following areas: oogenesis, fertilization, teratocarcinogenesis, and neurobiology in collaboration with Doctors L. Kozak, J. Eppig, P. Hoppe, L. Stevens, W. Beamer, and others. Stipends range from \$10,000 to \$13,000. Send curriculum vitae and three letters of recommendation to one of the above individuals at: **The Jackson Laboratory, Bar Harbor, Maine 04609.**

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POSTDOCTORAL RESEARCH ASSOCIATE IN NEUROPHYSIOLOGY

To collaborate in research on the neurobiology of the lamprey central nervous system. Knowledge of intracellular neurophysiological techniques desirable. Position available summer 1978. Apply to:

**Dr. Warren O. Wickelgren
Department of Physiology—C240
University of Colorado Medical School
Denver, Colorado 80262**

An Equal Opportunity/Affirmative Action Employer

POSITIONS OPEN

POSTDOCTORAL POSITION. Chemist or biochemist to study organocobalt reactions relevant to Vitamin B₁₂. Available summer 1978, for 1 year, with possible extension to 2 years. Good quantitative scientist needed. Send résumé and two letters to:

**Dr. Kenneth L. Brown
Department of Chemistry
The University of Texas at Arlington
Arlington, Texas 76019**

Equal Opportunity/Affirmative Action Employer

POSTDOCTORAL RESEARCH ASSOCIATE POSITIONS. Two 3-year appointments are available for applicants with recent Ph.D. who are interested in working in the areas of development and/or regulation of membrane and organelle renewal mechanisms in vertebrate photoreceptors and pigment epithelium. Candidates should have a strong background in cell or developmental biology with emphasis in ultrastructure, cytochemistry, autoradiography, or morphometry. Send curriculum vitae, synopsis of research background, and names of three references to: **Dr. Joe Hollyfield, Cullen Eye Institute, Baylor College of Medicine, Houston, Texas 77030.** *An Equal Opportunity Employer.*

A position as **POSTDOCTORAL RESEARCH ASSOCIATE** is available to a recent Ph.D. in biochemistry or related area with experience in protein chemistry or enzymology. Research will be in the area of protein phosphorylation-dephosphorylation by protein kinases and phosphatases from skeletal muscle and liver. Salary is \$10,000 to \$15,000, depending on experience. Send inquiries to: **Dr. Thomas Soderling, Department of Physiology, Vanderbilt University Medical School, Nashville, Tennessee 37232.** *An Equal Opportunity Employer.*

POSTDOCTORAL RESEARCH ASSOCIATE

Available for 1 year beginning June to September 1978. Salary: \$13,000. Applicant must have expertise in spectrofluorometric assay of biogenic amines, especially histamine, or biology of mast cells. To collaborate in NIH-supported studies of role of histamine in ovarian function. Send curriculum vitae and references to: **Dr. Richard E. Jones, Department of Environmental, Population and Organismic Biology, University of Colorado, Boulder, Colorado 80309.** *An Equal Opportunity/Affirmative Action Employer.*

POSTDOCTORAL RESEARCH POSITION

available 1 April 1978 for 1 or 2 years for research on the biology and immunology of *Trypanosoma cruzi* infections. Send résumé and three letters of recommendation to: **Dr. D. G. Dusanic, Department of Life Sciences, Indiana State University, Terre Haute, Indiana 47809.**

RESEARCH ASSOCIATE IN ATMOSPHERIC SCIENCE (AERONOMY). The Department of Atmospheric and Oceanic Science of the University of Michigan has a postdoctoral research position available in the area of terrestrial and planetary aeronomy. This position involves analysis and interpretation of data obtained from a variety of space missions (for example, Pioneer-Venus, Voyager, Dynamics Explorer, and so forth). This work is to be carried out in collaboration with Professors T. M. Donahue and A. F. Nagy. Send résumés to: **University of Michigan, Office of Professional and Administrative Staff Services, 1020 "SN" L. S. and A. Building, Ann Arbor, Michigan 48109.** *A nondiscriminatory, Affirmative Action Employer.*

POSITIONS OPEN

POSTDOCTORAL ASSOCIATE position in the field of radio astronomy, radar astronomy, or ionospheric physics is available at the National Astronomy and Ionosphere Center's Arecibo Observatory located near Arecibo, Puerto Rico. Appointments will be made for a 1- or 2-year period, beginning mid-1978. The associate will carry out research utilizing all the facilities of the Arecibo Observatory and will be assigned at times as a staff liaison scientist to various visiting observers. Round-trip air transportation between the observatory and the home institution will be provided for associate and immediate family, as well as moving expenses and a dislocation allowance. Salary is \$13,500 per year. Deadline for receipt of applications is 3 April 1978. Send letter of application, curriculum vitae, and two letters of recommendation to:

**Dr. F. D. Drake, Director
National Astronomy and Ionosphere Center
Cornell University
Ithaca, New York 14853**

The National Astronomy and Ionosphere Center is operated by Cornell University under contract with the National Science Foundation. *Cornell University is an Equal Opportunity Employer.*

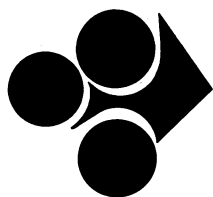
POSTDOCTORAL RESEARCH POSITION. Two-year appointment available for recent Ph.D. in physiology or biology to work on oxygen transport to the eye and retina. Will also be involved in other aspects of retinal physiology. Background or knowledge of electrophysiology helpful. Excellent salary and benefits. Send résumé to: **John J. Weiter, M.D., Department of Ophthalmology, Tufts New England Medical Center, 171 Harrison Avenue, Boston, Mass. 02111.** *An Equal Opportunity Employer, M/F.*

FULL PROFESSOR OF BIOLOGY AT THE UNIVERSITY OF COLORADO

The Department of Environmental, Population and Organismic Biology at the University of Colorado, Boulder, expects to fill a position at the full professor level beginning fall 1979. Applicants should have an outstanding research record in one or more areas of environmental, population, and organismic biology. A major responsibility of this position will be to serve as chairperson of the department for an initial period of 4 years. Teaching responsibilities can be largely suspended, if desired, during this period. After that, the individual will be expected to assume normal responsibilities for both teaching and research. Applicants should send curriculum vitae, a list of persons who can be contacted for references, and other pertinent supporting information to: **Professor Richard E. Jones, Department of EPO Biology, University of Colorado, Boulder, Colo. 80309.** Nomination of candidates by non-applicants is also encouraged. *The University of Colorado is an Equal Opportunity/Affirmative Action Employer.*

RADIATION SAFETY OFFICER to supervise and monitor radiation control program for University of Nevada System. Requires B.S. with major in science or engineering; prefer 1 year course work or experience with radioactive substances or ionizing radiation equipment. Minimum starting salary: \$13,200. Send application, postmarked by 28 February, to: **Twyla Harrison, Desert Research Institute, University of Nevada System, P.O. Box 60220, Reno, Nevada 89506.** Contact above address or telephone 702-673-4750 for additional information. *An Affirmative Action/Equal Opportunity Employer.*

RESEARCH ASSOCIATE POSITION available 1 July 1978. M.S. or Ph.D. in biochemistry or cell biology with research interest in any of the following areas: cell membrane changes differentiation and malignancy; cell surface membrane synthesis, particularly glycoprotein synthesis; in vitro protein synthesis in mammalian systems; calcium absorption and vitamin D metabolism; vitamin A metabolism. The research associate will be part of a new program in gastrointestinal and nutritional research being established at the State University of New York in Buffalo (SUNYAB). An opportunity is also available for qualified applicants for an associated academic appointment in the Department of Biochemistry. Please send résumé to: **Dr. Milton M. Weiser, Chief of GI and Nutrition, SUNYAB, c/o GI Laboratories, Massachusetts General Hospital, Boston, Mass. 02114.** *Affirmative Action/Equal Opportunity Employer.*



AAAS Mass Media Intern Program

For several years, AAAS has had a unique, 10-week intern program to support advanced students in the natural and social sciences as reporters, researchers, and production assistants in the mass media.

In 1978, outstanding natural and social science students, primarily at the graduate level, are invited to apply to become summer interns at radio and television stations, newspapers and magazines throughout the United States. These interns will have the opportunity to participate in the process by which events and ideas become news, to increase their understanding of editorial decision-making and information dissemination, and to prepare themselves as interpreters of science to the public, no matter what their final career choice may be.

To obtain a description of the program and application procedures, write to:

Coordinator
Mass Media Intern Program
AAAS, 8th Floor
1776 Massachusetts Ave., N.W.
Washington, D.C. 20036

**The deadline for receipt of application is
27 February 1978**

PHARMACOLOGISTS

EXCITING ASSIGNMENTS!

A worldwide pharmaceutical company, located in a desirable suburban area of New York City, is expanding its research program creating immediate openings for Pharmacologists with special competence in the following areas . . .

CARDIOVASCULAR

Senior Scientist position with the Cardiovascular Pharmacology Group requires PhD, 0-3 years academic or industrial experience. Successful candidate, working in a state-of-the-art laboratory, must be able to participate significantly in development of major research programs for treatment of cardiovascular disease.

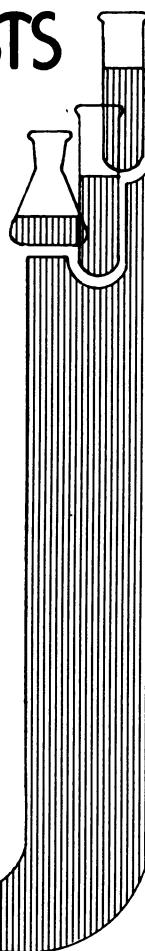
PULMONARY

Exceptional bench opportunity now open for a Pulmonary Pharmacologist with PhD and 0-1 year academic or industrial experience. Will train selected applicant in modern experimental techniques for evaluating pulmonary mechanical function. Responsibilities will also include directing lab activities involving small animal screening of anti-asthma agents.

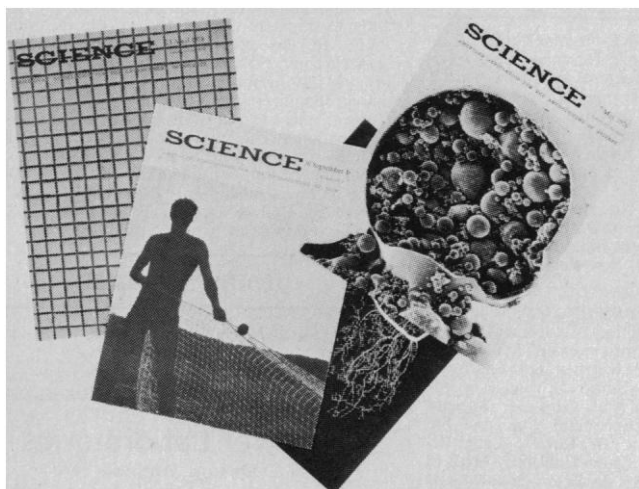
Positions offer excellent starting salaries, comprehensive benefits, opportunity for professional growth. For prompt, confidential consideration, send resume indicating salary history and area of interest, to:

Box 53, SCIENCE

An equal opportunity employer M/F



SPECIAL NOTICE TO SCIENCE READERS



AAAS announces an expanded reprint service.

All Articles, Reports, and Editorials published in SCIENCE, beginning with the 6 January 1978 (Vol. 199) issue, will be available in reprint form. Selected items from "News and Comment" and "Research News" will also be available.

Individual reprints or reprint collections are an inexpensive yet highly effective way to present the latest developments in science to your students.

The cost is 50¢ per title (invoiced orders not less than \$5.00). Checks should be made payable to AAAS. Bulk order discounts: 10% off per 10-50 copies, single item; 20%/51-250 copies; 30%/251-1000; 40%/over 1000.

Please send remittance plus specific requests (quantity/author/title) to

AAAS—REPRINTS
1515 Massachusetts Avenue, N.W.
Washington, D.C. 20005

POSITIONS OPEN

PROFESSOR DEPARTMENT OF MOLECULAR BIOLOGY UNIVERSITY OF GENEVA

Applications should be made before 28 February 1978 to, and information can be obtained from:

Secrétariat de la faculté des sciences de l'université de Genève, quai Ernest Ansermet 20, CH 1211 Genève 4, Switzerland.

RESEARCH ASSOCIATE

Role of thyroid hormones or cyclic AMP in cellular responses to stress. Opportunity for independent basic research. Concurrent staff appointments at Shriners Burns Institute, Massachusetts General Hospital, and Harvard Medical School. Postdoctoral experience preferred. Send résumé and names of referees to: **Dr. H. H. Bode, Shriners Burns Institute, 51 Blossom Street, Boston, Massachusetts 02114.**

RESEARCH ASSOCIATE. Appointment as research assistant professor will be considered for a highly qualified candidate. Theoretical studies of protein conformation and protein-solvent interactions using molecular dynamics and Monte Carlo techniques; continued development of UNC molecular graphics system. Minimum preparation: Ph.D. in physical (bio) chemistry, or x-ray crystallography of proteins. **Jan Hermans, Biochemistry Department, University of North Carolina, Chapel Hill, N.C. 27514. Telephone: 919-966-4644.**

Equal Opportunity/Affirmative Action Employer

Seeking **RESEARCH ASSOCIATE** interested in topographical organization of laryngeal muscles in the monkey cortex. Recent Ph.D. in neurophysiology or neuroscience with expertise in intracortical microelectrode stimulation and recording in large mammals; training in neuroanatomy desirable. Starting yearly salary: \$12,000 to \$13,000, plus fringe benefits, commensurate with applicant's experience; available immediately. Send résumé and three references to: **Dr. M. H. Hast, Department of Otolaryngology, Northwestern University, 303 East Chicago Avenue, Chicago, Illinois 60611. An Equal Opportunity/Affirmative Action Employer.**

RESIDENT DIRECTOR-MARINE RESOURCES CENTER

Application invited for directorship of multipurpose marine center on North Carolina coast, offering strong programs in marine education, research, marine advisory services, and public information. Duties include program and personnel management, coordination of small public aquarium, exhibits program, reading library, and research spaces. Individual must establish and maintain effective working relationships with area and state agencies, university faculty organizations, and clientele groups. A bachelor of science degree in a marine science related field and master's degree or equivalent experience are required. Experience in public education, extension advisory programs, personnel, and budget management are most desirable. Salary range in low twenties. Applications due by 1 March 1978. Send résumé, names of three references, and other appropriate information to:

**Dr. Ned Smith, Administrator,
North Carolina Marine Resources Center
Office of Marine Affairs
417 North Blount Street
Raleigh, North Carolina 27601**

Equal Opportunity/Affirmative Action Employer

TEACH SCIENCE IN AN INDEPENDENT SCHOOL

A number of excellent opportunities at middle and secondary school levels in independent (private) schools throughout the United States. Positions in chemistry, physics, biology, earth sciences, and general science (as well as math). Please write, if possible enclosing résumé, to: **Independent Educational Services, 80 Nassau Street, Princeton, N.J. 08540.** (A nonprofit corporation.)

POSITIONS OPEN

RESIDENCIES IN ANESTHESIOLOGY, COLUMBIA PRESBYTERIAN MEDICAL CENTER. The Department of Anesthesiology of the Columbia Presbyterian Medical Center is inviting applications for training at all levels from clinical base year through specialized year. For the specialized year we can offer research opportunities as well as training in pediatric anesthesia, obstetrical anesthesia, anesthesia for cardiac surgery, anesthesia for neurosurgery, intensive care, and pain management. *We are particularly interested in attracting applications from among minority and women candidates.* For further information write to: **Henrik H. Bendixen, M.D., Professor and Chairman, Department of Anesthesiology, Columbia Presbyterian Medical Center, 630 West 168th Street, New York, N.Y. 10032.** *Columbia University is an Equal Opportunity/Affirmative Action Employer in the City of New York.*

TERRESTRIAL ECOLOGIST

Ecology Consultants, an established consulting firm of over 100 employees located along the Front Range of the Rocky Mountains, has an opening for an experienced ecologist to manage planning and development in its terrestrial section. An M.S. in ecology, Ph.D. preferred, and extensive consulting experience required. Submit résumé by 1 March to: **Ecology Consultants, Inc., P. O. Box 2105, Fort Collins, Colorado 80522.**

ERT ECOLOGY CONSULTANTS - INC.
A SUBSIDIARY OF ENVIRONMENTAL RESEARCH & TECHNOLOGY - INC.

An Equal Opportunity Employer

VETERINARY PATHOLOGIST

The Collaborative Radiological Health Laboratory (CRHL) and Department of Pathology, Colorado State University (CSU), seek applications from veterinary pathologists interested in research in an academic environment. The CRHL is a multidisciplinary research group studying long-term effects of low level radiation in beagle dogs. Primary duties involve evaluation of a variety of disease states in a large canine population. An interest in aging and carcinogenesis would be helpful. Three positions are available. Applicants for two senior pathology positions should have a D.V.M. with advanced training in pathology, preferably a Ph.D. and/or ACVP eligibility or certification. A faculty appointment in the Department of Pathology with teaching responsibilities is available. Applicants for a junior pathology position should have a D.V.M. with advanced training in pathology and ACVP eligibility. (Application deadline: 15 March 1978 or until positions are filled. Salaries negotiable. Anticipated starting date: 1 July 1978.) *CSU is an Equal Opportunity/Title IX Employer. Equal Opportunity Office, 314 Student Services Building.* Contact: **Stephen A. Benjamin, Director, CRHL, Department of Pathology, College of Veterinary Medicine and Biomedical Sciences, Colorado State University, Fort Collins, Colorado 80523.**

FELLOWSHIPS

COMPUTERS IN MEDICINE—1-year National Library of Medicine traineeship for academically oriented physicians and postdoctoral scientists. Start 1 July 1978. Fundamentals of computer science taught with emphasis on clinical practice and medical research. No formal mathematical training required. Topics include: computer systems, decision-making, operations research, statistics and pattern recognition. Applicants must be U.S. citizens or have permanent immigrant status. No pay-back clause. For brochure, write: **Aran Safir, M.D., Director, Institute of Computer Science, Mount Sinai School of Medicine, 1 Gustave Levy Plaza, New York, N.Y. 10029.**

POSTDOCTORAL FELLOWSHIP available immediately to study the interaction of cytomegalovirus and oncornaviruses in virus-induced leukemogenesis in mice. Recent Ph.D. with strong background in tumor virology desired. Some knowledge of immunogenetics helpful but not required. Stipend \$10,000 per year. Send curriculum vitae and the names of three references to: **Dr. David J. Lang, Pediatrics Infectious Diseases, Duke University Medical Center, Durham, N.C. 27710. An Equal Opportunity/Affirmative Action Employer.**

FELLOWSHIPS

POSTDOCTORAL FELLOWSHIP, protein structure, stability, and assembly mechanisms. Experience with protein and peptide purification methods desirable. Available 1 June; minimum stipend \$11,000 per year, renewable. Send résumé and reference letters to: **Dr. D. Wetlaufer, Department of Chemistry, University of Delaware, Newark, Delaware 19711. An Equal Opportunity/Affirmative Action Employer.**

Gerontological Society Research Fellowship Models Program invites applications from **SOCIAL AND BIOMEDICAL GERONTOLOGISTS** for positions in governmental offices on aging and organizations involved in the field of aging. Fellows' interests will be matched with agencies' needs. Possible projects: needs assessment to an epidemiological study of aging. The program is designed to provide the academics with new research directions as a result of their exposure to the administrative process. The stipend will be \$4,000 for a 3-month full-time or 6-month half-time placement. Deadline: 7 March 1978. More information: **Gerontological Society, 2728 Durant, Berkeley, Calif. 94704.** AOA-DHEW grant supported.

REPRODUCTIVE BIOLOGY FELLOWSHIP

Postdoctoral fellowship available July 1978. Emphasis on biochemical and cellular aspects of reproduction. Eight faculty members. Write: **Dr. Bayard T. Storey, Education Office, Division of Reproductive Biology, Department of Obstetrics and Gynecology, Medical Labs 338, G3, University of Pennsylvania, Philadelphia, Pa. 19174.**

An Equal Opportunity Employer

GRADUATE STUDY

The Department of Biological Sciences, in cooperation with the basic science faculty of the University of Maryland at Baltimore, provides graduate education toward the M.S. and Ph.D. degrees in the areas of molecular biology and biochemistry, genetics, cell, developmental, organismic, and population biology.

TEACHING ASSISTANTSHIPS and **MINORITY STUDENT FELLOWSHIPS** are available for qualified applicants. For details write to: **Dr. R. C. Gethmann, Department of Biological Sciences, University of Maryland Baltimore County, Catonsville, Maryland 21228.**

ASSISTANTSHIPS

ASSISTANTSHIPS ANIMAL PHYSIOLOGY

PREDOCTORAL RESEARCH AND TEACHING ASSISTANTSHIPS are currently available to qualified applicants in a program leading to a Ph.D. in biology. Send inquiries and applications before 15 March 1978 to: **Dr. Guy Cameron, Program in Physiology, Department of Biology, University of Houston, Houston, Texas 77004.**

BIOPHYSICS GRADUATE ASSISTANTSHIPS TEXAS A&M UNIVERSITY

The Department of Biochemistry and Biophysics invites applications for graduate teaching and research assistantships from students seeking the M.S. and Ph.D. degrees. Research areas include: (i) mass spectroscopy, (ii) origin of life, and molecular chirality, (iii) biophysical aspects of N₂-fixation, (iv) interactive computer graphics (PDP11/40 + 3-D Vector General) used to study molecular interactions, (vi) information storage and retrieval, and (vii) radiation biology. Stipends start at \$375 per month. For additional information write: **Professor E. Meyer, Department of Biochemistry and Biophysics, Texas A&M University, College Station, Texas 77843. An Affirmative Action/Equal Opportunity Employer.**

MARKET PLACE

MINIPIGS

For Use in Biomedical Research

Vita Vet Laboratories

Marion, Indiana

Telephone: 317-668-8988

DEPARTMENT OF HEALTH,
EDUCATION, AND WELFARE
FOOD AND DRUG ADMINISTRATION
(FDA) BUREAU OF FOODS
WASHINGTON, D.C.

SCIENTIFIC POSITIONS: Civil Service openings for pathologists with a degree in veterinary medicine and postgraduate training in tissue pathology to fill the position of **petition review pathologist**.

Experience in the practice of pathology is desirable. Principle responsibilities will be the review of scientific data contained in petitions filed for food additive, color additive, investigational new animal drug applications, generally recognized as safe (GRAS) petitions, contaminant data review, and the like. Special emphasis will be on the gross and histopathology findings with procurement and review of slides when appropriate. These activities will consume approximately two-thirds of the professional time; one-third will be concerned with participation in the in-house toxicologic-pathology program involving gross necropsies, histopathology study, and preparation of pathology reports.

Salary range is approximately \$21,883 to \$33,825 (GS-12 and -13) depending upon qualifications.

U.S. CITIZENSHIP REQUIRED

Send curriculum vitae or Standard Form 171 (Personal Qualifications Statement), bibliography, and transcript or listing of college and university courses to:

DHEW/Food and Drug Administration
Division of Personnel Management,
Room 1825
Personnel Operations Branch (HFA-410)
200 C Street, SW
Washington, D.C. 20204
Attention: E. J. Echols

This is a Civil Service position. *FDA/An Equal Opportunity Employer.*

AEROSOL CHEMIST PHYSICIST

Calspan Corporation, a world leader in the field of advanced technological research and development has opportunities available for individuals with experience in the area of aerosol chemistry/physics.

Responsibilities will include experimental and theoretical study of the physical and chemical kinetics of gas-to-particle conversion and other mechanisms of aerosol formation and growth. You'll also perform experimental studies under large scale laboratory and field conditions involving aerosol ambiance and air quality.

You should possess minimally a M.S. Degree with experience in and knowledge of aerosol chemistry, physical chemistry, chemical kinetics, aerosol physics, and aerosol sampling. The capability to eventually develop and lead new research programs in aerosol chemistry/physics is also required.

A highly sophisticated, technological environment, highly competitive salary, and liberal benefits, which includes relocation assistance, awaits the successful professionals. For consideration, send resume, including salary history, in confidence to:

Wilfred Stubbs, Jr.
Manager—Manpower Resources Development

Calspan Corporation

P.O. Box 235 Buffalo, New York 14221 an equal opportunity employer m/t

FACULTY POSITIONS
College of Medicine, King Faisal University
Dammam, Saudi Arabia

Applications invited from qualified men and women in:

| | |
|--------------------|-------------------|
| Biology | Biochemistry |
| Chemistry | Hematology |
| Physics | Biostatistics |
| Anatomy | Microbiology |
| Human Physiology | Parasitology |
| Pathology | Pharmacology |
| Epidemiology | General Surgery |
| Community Medicine | Internal Medicine |

Doctorate or equivalent degree required. Language of instruction is English. Positions available starting September 1978; interviews scheduled with the dean in the United States and Great Britain early in 1978.

Salary ranges (monthly salary in Saudi riyals or approximate annual equivalent in U.S. dollars)—professor: SR6,000 to 6,600 or \$20,300 to \$22,300; associate professor: SR4,800 to 5,800 or \$16,300 to \$19,600; and assistant professor: SR3,600 to 4,600 or \$12,200 to \$15,600.

(M.D. degree commands a higher salary, up to 50 percent if a clinical as well as academic appointment held.)

Free furnished accommodations. Airfare to and from Saudi Arabia once a year plus a 45- to 60-day holiday. No Saudi income tax.

Send complete curriculum vitae plus addresses and telephone 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

Mohammed T. Altorki, M.D., MRCP
Dean of the Medical Faculty
King Faisal University
P.O. Box 9
Isleworth, Middlesex TW7 4LZ
England

Specify dates of teaching appointments and availability.

HEALTH CARE PRODUCT DEVELOPMENT OPPORTUNITIES

Several opportunities are available for individuals qualified to engage in the creative work required to develop new products for the health care market. These opportunities are with a leading health care manufacturer which is listed on the N.Y.S.E.. This company is noted for its consideration about its employees as individuals and is constantly striving to improve the quality of work life of each individual.

Medical Devices Development Manager: MS or PhD in technical science with a minimum of 7 years experience in research or development work related to hospital disposable medical devices.

Plastic Products Development Engineer: BS in engineering with experience in developing medical products utilizing plastics, textiles, non-wovens, or paper technology. Minimum 3-5 years chemical or plastic engineering experience in medical product development.

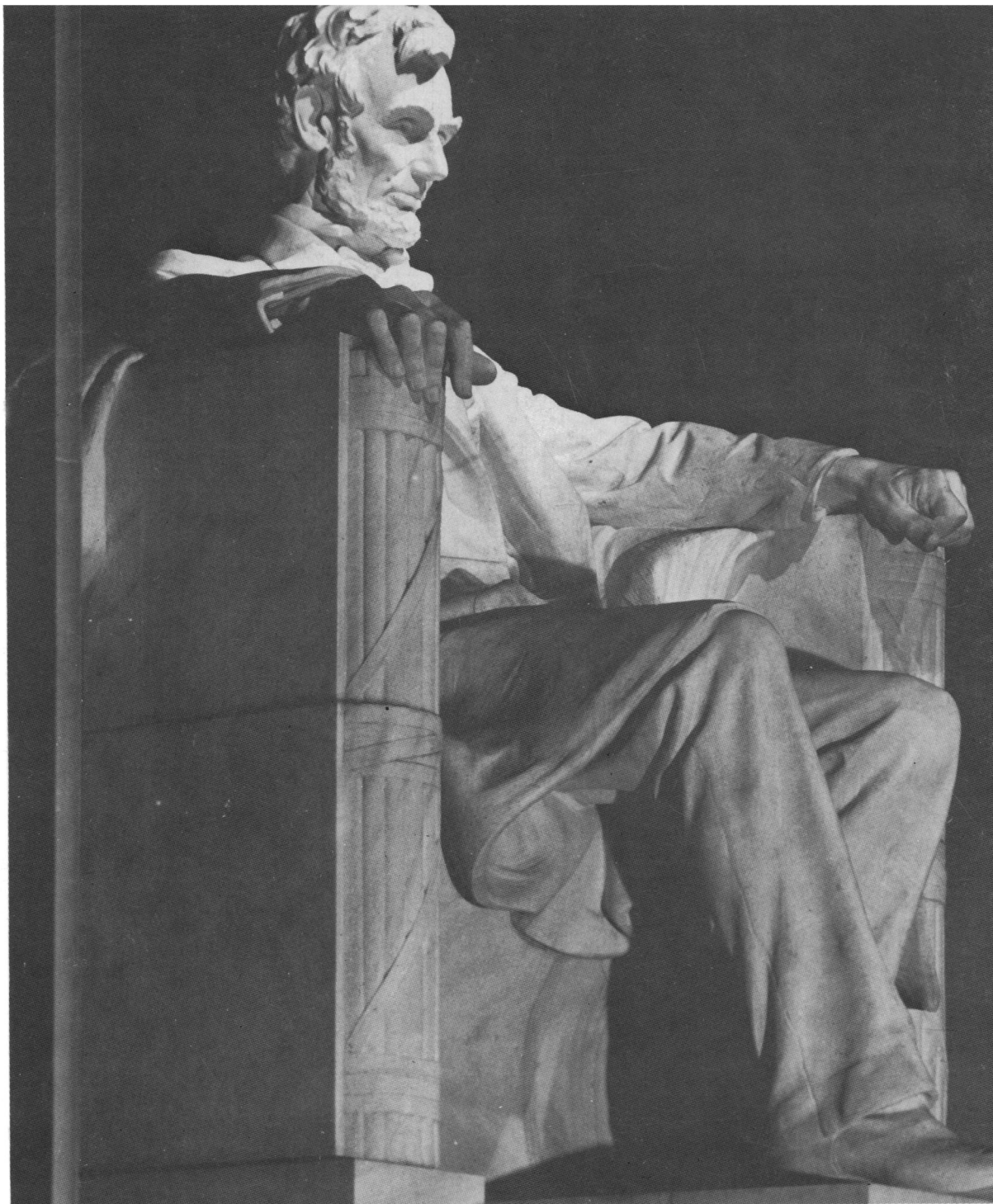
Scientists or Biomedical Engineers: BS degree in technical science or bioengineering with 2-3 years experience in industrial research work related to disposable medical product development.

Please send resume including salary history and description and/or explanation of the development or research work you have performed in the development of disposable medical products. Applicants who do not present a complete description or explanation of their experience will not be considered.

Box 20, SCIENCE

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WASHINGTON



For details about the Meeting program,
as well as housing and registration forms,
see the Preconvention issue of
Science, 6 January 1978

or write

AAAS Meetings Office—Suite 600
1776 Massachusetts Avenue, N.W.
Washington, D.C. 20036

Annual Meeting
Washington
12-17 February 1978



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