

Photomicrograph, brain section, neurons.

This new Olympus Series embodies all the major advances of our top-of-the-line microscopes, scaled to the needs of instructor and student alike.

The specially coated binocular observation tube reduces light loss to insignificance. The result: a vastly brighter image that offers such advanced microscopic capabilities as phase contrast and darkfield observation, using standard illumination.

Three models are offered: CHA with built-in 6V., 10 Watt halogen lamp; CHB with built-in 110V., 30 Watt tungsten lamp; CHC with 110V., 20 Watt substage illuminator.

And Olympus CH versatility continues: dual observation, Hoffman Modulation Contrast, phase contrast, darkfield, vertical illumination, drawing and polarizing attachments... and many more options now made affordable by Olympus.

To fully appreciate the workmanship, capability and value of the CH Series, ask your Olympus dealer for a demonstration. Or write for more information to: Olympus Corporation of America, 4 Nevada Drive, New Hyde Park, New York 11040.



**OLYMPUS**  
SEEING BEYOND MAN'S VISION

## The Olympus CH Series.

### Now, three high transmission models for learning/teaching needs.

In Canada: W. Carsen Co., Ltd., Ontario.

## HEALTH CARE

### Regulation, Economics, Ethics, Practice

Edited by Philip H. Abelson

256 pp., 8½" x 11"

November 1978

Retail price\*:

\$14.00 (cloth),

\$6.00 (paper)

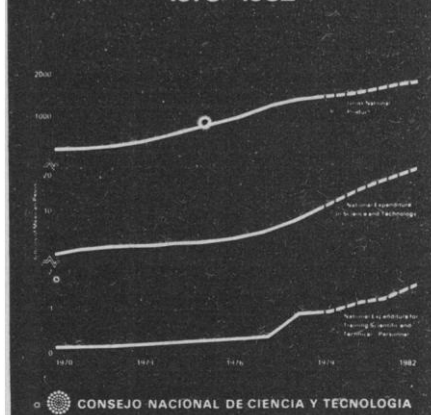
To order, send name, address and remittance to



AAAS Department HC-6  
1515 Massachusetts Avenue, NW  
Washington, D. C. 20005  
Please allow 6-8 weeks for delivery.

\*AAAS members deduct 10%.

## MEXICO'S PROGRAM FOR SCIENCE AND TECHNOLOGY 1978-1982



Obtain  
your copy  
\$ 9.00 U.S.



**CONSEJO NACIONAL DE CIENCIA Y TECNOLOGIA**

Dirección de Publicaciones  
Insurgentes Sur 1677, México 20, D.F.

Please send me \_\_\_\_\_ copy(ies) of Mexico's Program for Science and Technology.

Name \_\_\_\_\_ Zip \_\_\_\_\_

Address \_\_\_\_\_ State \_\_\_\_\_

City \_\_\_\_\_ Bank \_\_\_\_\_

Check # \_\_\_\_\_ For the total \_\_\_\_\_

Money order # \_\_\_\_\_ amount of: \_\_\_\_\_

# Personnel Placement

SCIENCE publishes each Friday, except the last Friday of the year. Advertising closing for a particular Friday issue is Wednesday, 3 1/2 weeks before. Advertising is accepted only in writing; no abbreviations. Also, personnel advertising is accepted only with the understanding that the advertiser does not discriminate among applicants on the basis of race, sex, religion, age, color, national origin, or handicap.

**POSITIONS WANTED:** 40¢ per word, plus \$4 for use of box number, per insertion. \$10 minimum, per insertion. Prepayment required. This rate is available only to individuals seeking jobs.

**DISPLAY (POSITIONS OPEN, COURSES, FELLOWSHIPS, MARKET PLACE, and so forth):** \$7.20 per millimeter; \$180 minimum, per insertion (minimum charge covers 25 millimeters on a single column; 25 millimeters equals 10 lines of 50 spaces per line). No charge for use of box number. No agency commission for ads less than 103 millimeters (4 inches). No cash discount. Prepayment required for all foreign ads. Purchase orders and billing information required for all other advertising.

Send copy for all **Positions Wanted** ads and **Display** ads less than 1/6 page in size (125 millimeters) to:

SCIENCE, Room 207  
1515 Massachusetts Ave., NW  
Washington, D.C. 20005  
Telephone: 202-467-4456

Send copy for **Display** ads 1/6 page and larger to:

Scherago Associates, Inc.  
1515 Broadway  
New York, N.Y. 10036  
Telephone: 212-730-1050

Blind ad replies should be addressed as follows:

Box (give number)  
SCIENCE  
1515 Massachusetts Ave., NW  
Washington, D.C. 20005

## POSITIONS WANTED

**Insect Pathologist/Physiologist.** Ph.D. 1973. In Europe since 1974, active investigating insect resistance to infection and the physiology of insect parasitic nematodes. Teaching, 15 plus publications, grants. U.S. citizen (Canadian spouse). Seeks North American teaching/research position. Save this ad! Box 5, SCIENCE. X

**Boston.** Nonstress position, **literature research, clerical, light typing, or other.** Supportive job atmosphere. Biochemistry imbalance. Degree. High IQ. Box 332, SCIENCE. 1/4, 18

**Neurophysiologist.** Ph.D. 1966. Strong academic credentials in research, teaching, and administration. Also, considerable experience in broad range of humanity. Seeks position involving enlightenment research and states of consciousness, preferably among other multireality aware individuals. Write, giving description of position. Replies held in strictest confidence. Available February 1980. Box 4, SCIENCE. 1/4, 11

**Physician-Pharmacologist/Toxicologist** (M.D., Ph.D.), research background, industrial and regulatory experience. Desires significant responsibility in toxicology/health impact assessment with major corporate organization. Reply to: Box 333, SCIENCE. 1/4, 11, 18, 25; 2/1

Academic couple, associate professors in large universities, seek positions in same city. **Ph.D. Physiologist/Biophysicist;** research interest: biomechanics of pumping in biological tubes (current NIH grant); teaching: physiology, biophysics, biology. **M.D. Internist/Hematologist;** research/clinical care interest: coagulation disorders. Box 349, SCIENCE. X

**Population Geneticist/Biometrician.** Ph.D. 1967. Seeks research/teaching position in agriculture/biology. Nine and one half years with leading pharmaceutical company, responsible for plant breeding and mathematical/statistical programs; 2 years of postdoctoral experience in computer simulation; 3 years of university teaching in agronomy/botany. Several publications. Box 3, SCIENCE. 1/4, 11

## POSITIONS WANTED

**Physiologist.** M.D., Ph.D.; émigré arrived from Russia June 1979. More than 60 publications in physiology of temperature regulation, exercise, circulation, metabolism, experimental oncology, and radiology. Teaching experience in human physiology. Box 2, SCIENCE. X

## POSITIONS OPEN

### ANATOMIST

University of California, San Diego (UCSD)

**SENIOR LECTURER** position open to teach gross anatomy at the UCSD School of Medicine. Qualifications include: (i) Ph.D. in anatomy or M.D. with equivalent training; (ii) substantial experience in the teaching of gross anatomy with a strong clinical orientation to medical students; (iii) expertise in the development and use of audiovisual teaching aids; (iv) established ability as a teacher in the university setting; and (v) experience and ability in administration within an academic setting. Four-month appointment (September through December); salary dependent on qualifications. Successful candidate may be reappointed in future years. Send curriculum vitae and names of three academic references to: **Nicholas A. Halasz, M.D., Department of Surgery, 225 Dickinson Street, San Diego, California 92103.**

*UCSD is an Equal Opportunity/Affirmative Action Employer.*

**ANATOMY**—The Department of Oral Medicine and Hospital Dentistry, School of Dentistry, University of California, San Francisco, is inviting applications for a full-time, tenure-track position at the assistant professor level, commencing 1 July 1980. A joint appointment in the School of Medicine is possible. Postdoctoral training in anatomy or cell biology is required. Duties include undergraduate teaching of gross and microscopic anatomy. Position requires evidence of ability to undertake independent research in departmental areas of interest which currently include oral applications of cellular immunology, virology/oncology, epithelial biology, and salivary gland studies.

Curriculum vitae, including complete publication record, should be directed to: **John S. Greenspan, Chairman, Search Committee, Department of Oral Medicine and Hospital Dentistry, Room S 653, University of California, San Francisco, California 94143.** Applications accepted through 15 February 1980. *The University of California, San Francisco, is an Equal Opportunity/Affirmative Action Employer. Women and minorities are encouraged to apply.*

**ANIMAL PHYSIOLOGIST**—Tenure-track position at the assistant professor level for fall semester 1980. Ph.D. required. Responsibilities will include teaching undergraduate and graduate courses in area of specialization and undergraduate anatomy and physiology. Strong research interests and capabilities required. Involvement in directing M.S. and Ph.D. candidates expected. Postdoctoral experience desirable. To insure consideration, apply by 15 March 1980. Salary competitive. Send letter of application, curriculum vitae, transcripts, and three letters of reference to: **Dr. W. St. Amand, Physiology Search Committee, Department of Biology, University of Mississippi, University, Miss. 38677.** *Equal Opportunity Employer, M/F/H.*

Two positions open in physiological psychology:

- 1) **ASSISTANT PROFESSOR**, tenure-track, beginning fall 1980, and
- 2) **LECTURESHIP**, 1980-1981 academic year.

Dedication to teaching excellence at undergraduate and graduate levels is required as well as an active scholarly and research role, plus participation in department and university activities. Any physiological area is acceptable with some preference for candidates with teaching and research interests in developmental processes, or in physiological processes in attention, perception, emotions, or learning. Postdoctoral experience in neurosciences is desirable.

*The University of California at Riverside is an Equal Opportunity/Affirmative Action Employer. Minority and female candidates are encouraged to apply.* Send the names of three or more people from whom we may request letters of recommendation and mail your curriculum vitae to:

**Dr. Paul D. Wilson, Chair  
Search Committee  
Psychology Department  
University of California  
Riverside, Calif. 92521**

## POSITIONS OPEN

**ANATOMIST-IMMUNOBIOLOGIST.** The Department of Anatomy at the Medical College of Virginia invites applications for a tenure-track faculty position, effective immediately. Rank and salary will depend on qualifications and experience in teaching and research. Applicants must hold the Ph.D. or M.D. degree and should have a record of productivity in original research, preferably in the area of immunobiology. They should send a letter of intent, a copy of their curriculum vitae, a list of publications, and the names of three people who would be willing to write letters of recommendation by 31 March 1980 to: **Dr. W. P. Jollie, Chairman, Department of Anatomy, Medical College of Virginia, Box 709, MCV Station, Richmond, Virginia 23298.** *Women and under-represented minorities are encouraged to apply. The Medical College of Virginia (Virginia Commonwealth University) is an Equal Opportunity/Affirmative Action Employer.*

### The American Museum of Natural History

The Department of Invertebrates invites applications for a position of **ASSISTANT CURATOR IN INVERTEBRATE ZOOLOGY**. Prime requisite is a strong research orientation in systematics, with demonstrated interest and competence in a particular group of marine Metazoa (except Mollusca), and a broad, general knowledge of invertebrates. In addition, the candidate should be actively involved in applying the results of systematic investigations to problems in phylogenetic reconstruction, evolutionary theory, functional morphology, or ecology. Furthermore, the person is expected to be active and competent in field investigations and in collecting original materials for research purposes. Other duties include full participation in the department's curatorial program, as well as participation in other normal duties (including the exhibition program) of the curatorial staff of the American Museum of Natural History.

The position will be filled on 1 July 1980. The successful candidate must have the Ph.D. in hand by time of appointment. Applications should include: (i) a brief statement of research interests, (ii) curriculum vitae, (iii) complete bibliography, and (iv) three letters of recommendation from persons familiar with the applicant's qualifications. Applications must be submitted by 1 February 1980 to: **Dr. Ernst Kirsteuer, Chairman, Department of Invertebrates, American Museum of Natural History, Central Park West at 79th Street, New York, N.Y. 10024.**

*An Equal Opportunity/Affirmative Action Employer, M/F*

### ASTRONOMER/PROGRAMMER UNIVERSITY OF MARYLAND ASTRONOMY PROGRAM

The Astronomy Program of the University of Maryland is looking for a Ph.D.-level person to carry out software development and scientific research on the long wavelength radioheliograph/synthesis telescope at the University of Maryland Clark Lake Radio Observatory, Borrego Springs, California. Ph.D. in physics or astronomy with a deep background in digital computing preferred. Salary is dependent on experience. Position is available as soon as a suitable person can be found. Send applications to: **Dr. William C. Erickson, Astronomy Program, University of Maryland, College Park, Md. 20742.** *The University of Maryland is an Equal Opportunity/Affirmative Action Employer. Applications from women and members of minority groups are welcome.*

### FACULTY POSITIONS UNIVERSITY OF MARYLAND ASTRONOMY PROGRAM

The Astronomy Program of the University of Maryland has two openings for fall 1980. **Senior Level Position.** The position would be for a distinguished astronomer to be appointed at the full professor level. No constraints are currently anticipated on the field of research. The directorship of the program will also be open and the person selected for this position could also be a candidate for the directorship. **Assistant Professor.** Appointment is expected to be made in one of the current fields of research in the Astronomy Program, which are galactic structure, interstellar medium, stellar atmospheres, high energy astrophysics, solar radio astronomy, cometary studies, and the study of extragalactic radio sources. Applications received by 29 February 1980 will be given full consideration. Send résumé to: **Dr. Mukul Kundu, Acting Director, Astronomy Program, University of Maryland, College Park, Md. 20742.** *The University of Maryland is an Equal Opportunity/Affirmative Action Employer. Applications from women and members of minority groups are welcome.*

## POSITIONS OPEN

**ASSISTANT PROFESSOR.** Tenure-track, to teach **POPULATION BIOLOGY, BIOMETRICS, and GENERAL BIOLOGY.** Additional competence in ethology and/or physiology would be advantageous. Expected to develop an active research program which involves undergraduates. Ph.D. required. Résumé, three letters of recommendation, transcripts, and statement of teaching and research interests must be received by 15 February 1980. Reply to: **Professor John R. Jungck, Chairperson, Department of Biology, Beloit College, Beloit, Wis. 53511.** *Beloit College is an Equal Opportunity/Title IX Employer, M/F.*

**ASSISTANT PROFESSOR.** Applications are solicited from cardiovascular physiologists trained and active in the field of hormone-receptor interaction. Candidate should have 4 or 5 years of experience at the post-Ph.D. level and maintain a vigorous and nationally competitive research program. Send curriculum vitae to: **John J. Spitzer, M.D., Professor and Head, Department of Physiology, Louisiana State University Medical Center, 1542 Tulane Avenue, New Orleans, La. 70112.** *An Equal Opportunity/Affirmative Action Employer.*

**ASSISTANT PROFESSOR.** One tenure-line position to teach general education natural science courses. Salary: \$14,000 to \$16,000; appointment effective 1 September 1980. Requirements: Ph.D., experience in teaching general education natural science for non-science majors with emphasis on nature of science, science and society interactions, and so forth. Joint appointment with a traditional department is possible. While teaching is primary, scholarship is expected. Send résumé with three references for us to contact to: **Dr. Richard J. Seltin, Chairman, Department of Natural Science, Michigan State University, East Lansing, Mich. 48824,** by 8 February 1980. *An Equal Opportunity/Affirmative Action Employer*

### ASSISTANT PROFESSORS OF BIOCHEMISTRY IN THE DEPARTMENT OF NUTRITION, HARVARD SCHOOL OF PUBLIC HEALTH

Two positions are open for qualified persons holding a Ph.D. or equivalent degree in biochemistry or related discipline with at least 2 years of relevant postdoctoral training.

- One position requires demonstrated accomplishments in the area of metabolic phenomena involving cell membranes.
- The other position requires demonstrated accomplishments in at least one of the following areas: nutrient transport, metabolic disorders, or neuroreceptors.

Both positions require meritorious publication records in the specified areas. Experience in cell culture techniques is desirable. Successful candidates should have potential for independent research productivity and ability to relate such work to the field of human nutrition. Teaching experience is desirable. Teaching duties include participation in lecture courses and laboratory instruction. Ability to supervise doctoral students is assumed.

The department has modern laboratories well equipped for biochemical research and access to facilities in the adjacent Medical Area.

Please send résumé, selected reprints, and at least three letters of reference to:

**Dr. Robert P. Geyer, Chairman, OR  
Dr. Konrad Bloch  
Department of Nutrition  
Harvard School of Public Health  
665 Huntington Avenue  
Boston, Massachusetts 02115**

*An Equal Opportunity/Affirmative Action Employer*

**ASSOCIATE PROFESSOR OR FULL PROFESSOR—FISHERY POPULATION DYNAMICS.** Department of Zoology and Center for Marine Studies, University of Maine at Orono. Permanent position. Beginning 1 June or 1 September 1980. Ph.D. and experience required. Teach course in population dynamics for advanced undergraduate and graduate students. Supervise and coordinate assessment studies in the Maine Department of Marine Resources under contractual arrangement. Conduct independent research concerned with theoretical, experimental, and applied population dynamics. Send credentials, reprints, and names of three references to: **Dr. Franklin L. Roberts, Chairman, Department of Zoology, University of Maine, Orono, Maine 04469.** Deadline for receipt of applications: 1 March 1980. *An Affirmative Action/Equal Opportunity Employer.*

### KING FAISAL UNIVERSITY COLLEGE OF MEDICINE DAMMAM, SAUDI ARABIA FACULTY POSITIONS OPEN 1980-1981

The expanding College of Medicine, now in its sixth year, is accepting applications from qualified men and women for the 1980-1981 academic year in:

<b>CHEMISTRY</b>	<b>PATHOLOGY</b>
<b>BIOLOGY</b>	<b>EPIDEMIOLOGY</b>
<b>PHYSICS</b>	<b>MICROBIOLOGY</b>
<b>BIOCHEMISTRY</b>	<b>PARASITOLOGY</b>
<b>ANATOMY</b>	<b>PHARMACOLOGY</b>
<b>PHYSIOLOGY</b>	<b>COMMUNITY MEDICINE</b>

Doctorate or equivalent degree required. Language of instruction is English. Interviews to be held in London, Houston, and Ottawa during February 1980.

**Salaries** are highly competitive and negotiable; comparable to other Saudi universities.

**Benefits** include free furnished housing, educational allowances, air tickets to and from Saudi Arabia once each year for a family of four, 60-day paid vacation, and liberal overweight allowance. No Saudi income tax.

Send curriculum vitae and current telephone number and the names and addresses of three references to:

**Dr. Tawfig Tamimi  
Dean, College of Medicine  
King Faisal University**

**c/o Saudi Arabian  
Educational Mission  
2221 West Loop South  
Houston, Texas 77027**

**OR**

**c/o P.O. Box 2  
Sunbury-on-Thames  
Middlesex TW16 5JP, England**

### DIRECTOR University of California California Primate Research Center Davis, California

Applications and nominations are invited for the directorship of the California Primate Research Center (CPRC), which will become available 1 June 1980. The director is responsible for management of laboratory with 49 core and affiliate doctoral-level scientists, 75 collaborating scientists, and 80 graduate students; overall management of research programs; and negotiation of funding support through contract between the University of California and the Division of Research Resources, National Institutes of Health, and 26 extramural grants and contracts. CPRC research programs relate to selected human health problems for which the nonhuman primate is the animal model of choice and have a common theme of effects of environmental influences. Major programs are in behavioral biology, perinatal biology and reproduction, and respiratory diseases. Primate medicine and primate pathology have research, teaching, and service functions. The colony consists of approximately 2000 nonhuman primates, mainly three species of macaques, two species of baboons, and two New World species.

Each applicant should have demonstrated success in administration, be a scientist of stature who has made significant contributions in a biomedical field, and have an intent to remain active as an investigator. A background in some aspects of primatology is beneficial, but not essential. The director is expected to qualify for and will be appointed to a professional title in an appropriate department on the Davis Campus.

*The University of California is an Affirmative Action/Equal Opportunity Employer.* Applicants should submit curriculum vitae with the names of three references to: **Dean W. R. Pritchard, School of Veterinary Medicine, University of California, Davis, Calif. 95616.**

Applications will be accepted through 31 January 1980 or until a suitable candidate is identified.

## CARDIOVASCULAR PHARMACOLOGIST PhD

Pharmacologist interested in participating in coronary heart disease program directed towards new therapeutic approaches for preserving the mild myocardium following myocardial infarction. Individual will have a principle role in planning and developing the research program.

This position requires an individual with creativity and capability of working with minimal supervision. 1-3 years experience in one or more of the following areas is desirable:

- \* Altered cellular biochemistry in myocardial infarction or myocardial ischemia;
- \* Assessment of myocardial infarct size using biochemical techniques or histological techniques;
- \* Assessment of myocardial blood flow distribution.

Merrell Research Center provides a stimulating environment for productive and satisfying research plus excellent benefits. Send curriculum vitae to:

**Director of Administration  
MERRELL RESEARCH CENTER  
2110 E. Galbraith Rd. Cincinnati, Ohio 45215**

*An Equal Opportunity Employer M/F*

# Merrell

## POSITIONS OPEN

### ASSISTANT PROFESSOR: BIOCHEMISTRY

The Biochemistry Department of Brandeis University invites applications for an assistant professor position. The criterion for selection will largely rest on demonstrated and potential outstanding research accomplishments. Excellence in teaching is also expected. Send curriculum vitae, a short description of research accomplished, in progress, and that proposed for the next several years. Also arrange for three letters of recommendation to be sent to: **Dr. Helen Van Vunakis, Faculty Search Committee, Biochemistry, Brandeis University, Waltham, Mass. 02254.** Deadline for application is 15 February 1980. *Brandeis is an Equal Opportunity/Affirmative Action Employer.*

### TWO ASSISTANT PROFESSORSHIPS IN BIOLOGY

**DEVELOPMENTAL BIOLOGIST.** Two-year appointment, beginning fall 1980. Teach a semester course in developmental biology, part of an introductory biology course, and a semester course to be arranged. The candidate will be expected to conduct a research program capable of involving undergraduates.

**PHYSIOLOGY AND ANIMAL BEHAVIOR.** One-year appointment, beginning fall 1980. Teach semester courses in physiology and either animal behavior or neurophysiology, and a portion of an introductory biology course.

Send curriculum vitae, statement of research interests, and three letters of reference by 15 February 1980 to: **Dr. C. Thomas Settlemyre, Chairman, Biology Department, Bowdoin College, Brunswick, Maine 04011.** *An Affirmative Action/Equal Opportunity Employer.*

Health Studies Department invites applicants for **ASSISTANT OR ASSOCIATE PROFESSOR** (pending funding) in **BIOMEDICAL SCIENCES**. The department has active, interdisciplinary programs focusing on the study of health behaviour, disease prevention, and health promotion. Applicants should have a Ph.D. or equivalent in the biomedical or behavioral sciences, an established research record, and interest in teaching undergraduate and graduate courses in disease process and such areas of expertise as psychosomatics, physiology of chronic disease, or biosocial determinants of health status. Appointment to start September 1980 or sooner. Apply to: **J. A. Best, Ph.D., Chairman, Department of Health Studies, University of Waterloo, Waterloo, Ontario, Canada N2L 3G1.**

**ASSISTANT PROFESSOR: GENETICS.** Applications invited for a visiting assistant professorship that has high probability of becoming a tenure-track position in 1980. Candidates should possess a Ph.D. with teaching interests in introductory biology as well as genetics. Participation in graduate (M.S. and Ph.D.) programs expected and establishment of an active research program essential. Send curriculum vitae, statement of research and teaching interests and goals, and three letters of recommendation to: **Dr. Kenneth M. Hoff, Chairperson, Search Committee, Department of Biology, Cleveland State University, 1983 East 24 Street, Cleveland, Ohio 44115.** *Equal Opportunity Employer, M/F/H.*

### ASSISTANT PROFESSOR: STRUCTURAL BIOLOGY

Applications are solicited for a 12-month, tenure-track faculty position at the assistant professor level. Applicants must have demonstrated outstanding abilities in cell developmental, or molecular biological research.

Qualified individuals are encouraged to apply without regard to area of specialization. Preference will be given to candidates with a strong molecular background interested in cell biological problems. Research currently represented in the department includes energy transduction in biological processes, cell-cell intercommunication, cell motility and changes in cell shape, the structure and function of organelles such as ribosomes and nucleosomes, and the control of gene expression.

Send curriculum vitae, copies of your two most important publications, and a one-page outline of your future research goals to:

**Dr. James A. Spudis  
Department of Structural Biology  
Stanford University School of Medicine  
Stanford, Calif. 94305**

*Stanford University is an Equal Opportunity/Affirmative Action Employer.*

## POSITIONS OPEN

### ASSOCIATE DEAN FOR PHARMACEUTICAL SCIENCES UNIVERSITY OF COLORADO SCHOOL OF PHARMACY

The University of Colorado School of Pharmacy is seeking an Associate Dean for Pharmaceutical Sciences to head a rapidly developing program. Responsibilities include administration of teaching, research, and service programs in the pharmaceutical sciences. The associate dean should have previous experience in basic sciences research. A current and active research program is not mandatory; however, it is highly preferable. The candidate must be capable of coordinating faculty efforts in successfully competing for training and research funding. The associate dean must have a Ph.D. degree in the basic pharmaceutical sciences; preference will be given candidates with a bachelor of science in pharmacy or the equivalent. Candidates must be intimately familiar with pharmacy education. Salary: \$25,000 to \$27,000; faculty rank negotiable, with an application deadline of 1 February 1980. Please send letters of application and curriculum vitae, as well as names, addresses, and telephone numbers of three references, to: **Dr. A. C. Collins, Chairman, Search Committee, University of Colorado School of Pharmacy, Boulder, Colo. 80209.**

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

### BASIC CANCER RESEARCH SCIENTISTS

The Mid-America Cancer Center at the University of Kansas is seeking research scientists to conduct basic cancer research with particular attention to areas relating to carcinogenesis. Ample opportunities exist to interface with scientists in other disciplines involved in cancer research. Excellent research space and start-up funding available. Scientists with proven track record are invited to apply by writing and providing curriculum vitae to:

**Dr. C. C. Cheng  
Chairman, Search Committee  
Mid-America Cancer Center  
39th and Rainbow Boulevard  
Kansas City, Kansas 66103**

*An Equal Opportunity/Affirmative Action Institution*

### NIH BIOCHEMIST

Research associate position available July 1980 for M.D. or Ph.D. interested in working in the field of microtubule proteins. Stipend: \$15,000 to \$20,000. Contact: **Dr. Martin Flavin, Laboratory of Cell Biology, NHLBI, NIH, Bethesda, Md. 20205.**

Applications are invited for the position of **DIRECTOR OF THE HEALTH AND MEDICAL SCIENCES GRADUATE GROUP** at the level of a tenured professorship in an appropriate discipline on either the Berkeley or the San Francisco campus of the University of California. This Graduate Group offers innovative academic programs leading to graduate or professional degrees in medicine, genetic counseling, and mental health; instruction is conducted jointly by the Berkeley and San Francisco faculties. Applicants should have credentials and standards of scholarly attainment comparable to those of the faculties of the San Francisco and Berkeley campuses. Applicants also should have experience in administration in an academic environment and documented research interests and achievements in a health related area. In addition, applicants should be interested in promoting the goals of the program, which are to prepare students (i) for health care and maintenance careers utilizing the resources of the two campuses involved (including the social/behavioral sciences) and (ii) to be agents of change in the provision and delivery of health services.

The director will report to the Chancellors of the Berkeley and San Francisco campuses through the Provost for Professional Schools and Colleges on the Berkeley campus and will have a major role in faculty and curriculum development for these relatively new programs.

In addition to their résumés, applicants should submit a statement of their interest in the position and the names of three or more references. All materials should be sent to: **Professor Charles Dekker, Chair, Search Committee for the Director of Health and Medical Sciences, 200 California Hall, University of California, Berkeley, Calif. 94720,** by 1 March 1980.

*The University of California is an Affirmative Action Employer.*

## POSITIONS OPEN

### BIOCHEMISTRY

Postdoctoral research position available 1 March 1980 for 1 to 2 years to study the relationship of cerebral lipids to development of epilepsy. Research will specifically focus on regulation of brain sterol metabolism in various experimental states. The position offers training in both biochemical and physiological aspects of neurochemistry and the opportunity for very productive work. Applicants should have a strong interest and some experience in lipid biochemistry. Starting salary is \$15,000 and a full-time technical assistant will be furnished. Please send curriculum vitae, a brief description of your Ph.D. work, and the names of three references to:

**Richard J. Cenedella, Ph.D.**

**Chairman, Department of Biochemistry  
KIRKSVILLE COLLEGE OF  
OSTEOPATHIC MEDICINE  
Kirksville, Missouri 63501**

*Equal Opportunity/Affirmative Action Employer*

The **DEPARTMENT OF BIOLOGY** at Kenyon College announces a tenure-track position, with rank and salary open. Responsibility will be for a nonmajors course in biology, participation in general biology, and teaching an upper-level course in the person's specialty. Preference will be given to those with training in environmental and/or population biology. Ph.D. required; research opportunities available. Send letter of application, curriculum vitae, transcripts, and three letters of recommendation to: **Search Committee, Department of Biology, Kenyon College, Gambier, Ohio 43022.** *An Equal Opportunity Employer.* Closing date: 15 January 1980.

### BIOMETEOROLOGY SPECIALIST Davis Campus Location

Develop technically based Extension education program in agricultural meteorology. Collect and interpret climatic data, plan research projects, and interpret results in education program. Develop and broadcast information to agricultural users and others on climatic effects on physical and biological systems. Cooperate closely with other state and local staff, other agencies. Working knowledge of use of meteorological information in agricultural systems and conduct of applied research is essential. Ph.D. in agricultural meteorology or related field preferred. Extension experience desirable. Contact: **Personnel Administrator, Cooperative Extension, 331 University Hall, University of California, Berkeley, Calif. 94720.** Refer to Number 7930. Closing date: 22 February 1980. *An Equal Opportunity Employer.*

**BIOPHYSICS, FACULTY POSITION.** Georgia Institute of Technology invites applications for a tenure-track position at the assistant professor level in molecular biophysics. The position is expected to be a shared appointment between the Schools of Physics (2/3) and Biology (1/3). Candidates must have a Ph.D. in physics or equivalent training, and postdoctoral experience. Applicants are expected to show evidence of ability to initiate a strong research program and have a commitment to quality graduate and undergraduate teaching. Research area should complement current research programs in molecular genetics and/or neurobiology. Send curriculum vitae and names and addresses of three references by 1 March 1980 to: **Dr. Roger M. Wartell, Search Committee, School of Physics, Georgia Institute of Technology, Atlanta, Georgia 30332.** *An Equal Opportunity/Affirmative Action Employer.*

### CARDIOVASCULAR PHYSIOLOGIST

To work with a research team at the Georgetown University Medical Center; position is open for a cardiovascular physiologist. Must have M.D. or Ph.D. degree in physiology and a graduate degree in mechanical engineering. Minimum of 2 years of postdoctoral experience is also required. Salary: \$18,000. Send résumé to: **Ellen Costello, Department of Physiology and Biophysics, Georgetown University Medical Center, Washington, D.C. 20007.**

**CHEMISTRY.** Postdoctoral research associate; commences January 1980; \$12,000. Ph.D. with a strong background in biochemistry to work on the mechanism of protein synthesis. Research experience in enzymology and protein chemistry required. Send curriculum vitae and names of three references by 15 January to: **Dr. N. K. Gupta, Department of Chemistry, The University of Nebraska-Lincoln, Lincoln, Nebraska 68588.** *Affirmative Action/Equal Opportunity Employer.*



# POSITIONS OPEN

## UNIVERSITY OF MASSACHUSETTS AT BOSTON

### Biology Department Faculty Position in Marine Microbiology

The Biology Department is seeking a **marine microbiologist** to participate in teaching and research in its developing graduate and undergraduate program in marine biology.

Applications are invited from individuals with postdoctoral experience. Strong background in marine microbial ecology, especially problems of pollution in marine coastal environments, is highly desirable. Rank open; salary and benefits competitive. Position available for September 1980. (Possibility exists of a second position for a **marine ecosystems analyst**.)

Submit curriculum vitae, summary of research interests, and names and addresses of three references to: **Dr. Nevin Weaver, Chairman, Recruiting Committee, Department of Biology, University of Massachusetts/Boston, Boston, Mass. 02125.**

*An Equal Opportunity/Affirmative Action Employer*

# POSITIONS OPEN

## CHAIRPERSON Department of Microbiology and Cell Sciences University of Florida

The Institute of Food and Agricultural Sciences (IFAS) of the University of Florida invites nominations and applications for the position of **CHAIRPERSON** of the Department of Microbiology and Cell Sciences. The candidate should qualify for the rank of professor, and those with the proven ability to initiate, organize, and direct programs are especially encouraged to apply. The individual is also expected to have successful experience in research and teaching. The chairperson must lead and administer a strong statewide program with the aim of developing national excellence. Nominations and applications should be submitted by 1 February 1980 to: **Professor Edward M. Hoffman, Chairperson, Search and Screen Committee, 1059 McCarty Hall, University of Florida, Gainesville, Florida 32611.**

## CHEMICAL ENGINEERING AND PUBLIC POLICY

The Department of Chemical Engineering and the Department of Engineering and Public Policy at Carnegie-Mellon University are seeking a candidate for a joint faculty appointment. Candidates must have strong credentials in chemical engineering and demonstrated research ability in the area of public policy. Areas of particular research interest include environmental systems and control, toxic substances, issues of safety and risk in process design, products liability, productivity and industrial automation, and regulatory issues in coal conversion technologies. Send résumé, list of publications, and names of three references to:

**Dr. M. Granger Morgan  
Department of Engineering and Public Policy  
Carnegie-Mellon University  
Pittsburgh, Pa. 15213**

# POSITIONS OPEN

## CHAIRPERSON DEPARTMENT OF DERMATOLOGY University of Alabama School of Medicine Birmingham, Alabama

The University of Alabama School of Medicine, University of Alabama in Birmingham, is seeking applicants for the position of full-time chairman of the Department of Dermatology. The school offers a 4-year basic curriculum including both preclinical and clinical pre-M.D. education, as well as post-M.D. education in a large variety of specialties and subspecialties. The clinical facilities which are used for both medical student and resident teaching include a total of 1750 beds in University-owned and -affiliated hospitals, as well as a modern ambulatory center. The Medical Center is a major patient referral center for the geographic region and the nation.

The department is a well-established department consisting of full-time, part-time, and voluntary faculty. The fully accredited residency program consists of eight positions.

We seek an experienced Board-certified dermatologist with a demonstrable record of achievement in investigative and clinical dermatology as well as leadership potential and some experience in administration.

Applications will be handled in strict confidence. Interested individuals should send curriculum vitae by 31 January 1980 to:

**William E. Dismukes, M.D.  
Chairman/Search Committee for Dermatology  
University of Alabama Medical Center  
University Station  
Birmingham, Alabama 35294**

*The University of Alabama in Birmingham is an Equal Opportunity/Affirmative Action Employer.*

**DEAN, College of Science, Arkansas State University.** Tenure-track; \$35,000 to \$40,000. Ph.D., administrative ability, research, and teaching experience required. Grants and contracts experience desired. Application, résumé, and three letters of reference must be received by 1 February 1980 by: **Professor Dewey Sifford, College of Science, Drawer 1030, State University, Ark. 72467.** *An Equal Opportunity/Affirmative Action Employer.*

## ENVIRONMENTAL CHEMISTS AND TOXICOLOGISTS

Envirosphere Company seeks candidates for positions in environmental chemistry and toxicology. These positions will include responsibilities in review and evaluation of chemical and toxicological data, development and design of an expanding environmental chemistry and toxicology program, and assessment of effects from energy and energy related projects.

Industrial experience is preferred. An M.S. or Ph.D. in chemistry, toxicology or a related field as applied to environmental areas is essential. Multi-disciplinary action will occur and effective oral written communication skills are necessary.

For immediate consideration, please send resume including salary history to: **A.W. Simmons, Professional Employment Dept. 1226.**

envirosphere company



A Division of  
Ebasco Services Incorporated  
Two World Trade Center  
New York, N.Y. 10048

*An Equal Opportunity Employer M/F*

## Senior Toxicologist

Stauffer Chemical Company, an international industry leader is seeking a Senior Toxicologist to participate in and provide leadership in the design, implementation, and interpretation of a variety of subchronic, chronic, and special studies. The incumbent will supervise present toxicology staff, and work closely with veterinary pathologists and others.

This new position offers excellent opportunity for collaborative work in pathogenesis of toxic effects with staff veterinary pathologists and staff in Mutagenesis/Carcinogenesis, Reproductive Biology/Teratotoxicology and Metabolism/Pharmacokinetics sections. The applicant should have a Ph.D. in Pharmacology and at least 5 years appropriate experience.

Stauffer provides an excellent salary and outstanding benefits. The Stauffer Environmental Health Center is adjacent to the University of Connecticut Health Center, in one of the state's most attractive, semi-rural towns. To apply, please send your curriculum vitae, a brief description of your experience and your salary requirements, in complete confidence, to:

**E. S. Conover  
Stauffer Chemical Company  
400 Farmington Ave.  
Dept. BOS  
Farmington, CT 06032**



*An Equal Opportunity Employer M/F*

## POSITIONS OPEN

### DEPARTMENT OF ANATOMY CHAIRMAN

The University of Missouri-Columbia School of Medicine is seeking a **Professor and Chairman** of the Department of Anatomy to direct a program of excellence in education and research. The School of Medicine has as its clinical facilities the University of Missouri Hospital and Clinics, the Rusk Rehabilitation Center, and the Harry S. Truman Veterans Administration Hospital. The University of Missouri-Columbia Medical Center is located on the largest of the four University of Missouri campuses which serves 24,000 students in 15 colleges and schools, including a Division of Biological Sciences in the College of Arts and Science, a Department of Animal Husbandry in the College of Agriculture, and a College of Veterinary Medicine. Applications are invited from human structural biologists who are capable of developing a strong educational and research program in anatomy.

Applicants should send a letter of application, curriculum vitae, and bibliography to:

**J. Donald Easton, M.D.**  
Professor and Chairman  
Department of Neurology  
University of Missouri Medical Center  
Columbia, Missouri 65212

*The University of Missouri is an Affirmative Action/Equal Opportunity Institution.*

**CHAIRMAN, MICROBIOLOGY.** Applications and nominations are invited for the position of **Chairman** of the Department of Microbiology at The University of Texas Health Science Center at San Antonio. The department, which consists of 18 full-time faculty members, has teaching responsibilities to both the medical and dental schools. Research activities in areas of immunology, bacteriology, mycology, and virology provide training opportunities for students in the graduate program leading to the M.S./Ph.D. degrees. The department will occupy additional space in a new building in 1981. Selection criteria include extensive academic experience, administrative competence, a record of scholarly achievement with a history of extramural research support, and demonstrated ability to provide innovative leadership. The position will be available on 1 September 1980. Inquiries, nominations, or letters of application, accompanied by curriculum vitae, should be submitted no later than 15 February 1980 to: **Dr. Richard N. Buchanan, Chairman, Microbiology Search Committee, Department of General Practice, The University of Texas Health Science Center at San Antonio, 7703 Floyd Curl Drive, San Antonio, Texas 78284.** An Affirmative Action/Equal Opportunity Employer.

Applications are invited for the position of **CHAIRPERSON** of the Department of Biology, open 1 July 1980. The department includes 19 faculty members with diverse interests in teaching and research. Broad undergraduate program with graduate program to master's level. The chairperson will teach in area of specialization and be responsible for academic program development, research activity leadership, fiscal management, faculty development, and public service activity. Candidate must have doctorate and qualifications appropriate for appointment to at least the associate professor level. Established record of quality in teaching and research, and potential for administrative leadership are essential. Applicant must possess the ability to work with faculty, students, and administrators. Salary commensurate with qualifications. Closing date for receipt of applications is 15 February 1980. Send résumé, transcripts, and three letters of recommendation to: **Dr. Charles R. McGhee, Chairman, Search Committee, Department of Biology, Middle Tennessee State University, Murfreesboro, Tennessee 37132.** An Equal Opportunity/Affirmative Action Employer.

**DIRECTOR OF SCIENTIFIC STAFF, MASSACHUSETTS AUDUBON SOCIETY (MAS).** Person with following qualifications: Ph.D. in a life science and several years of experience in an environmental organization, government agency, and/or university position. To be responsible for the general direction of scientific programs and overall administration of the scientific staff. Some experience of administration and/or public decision-making is desirable. Duties include promotion and coordination of research efforts in applied environmental science, and conduct of research, studies, and review of scientific issues of importance to the Society. Expected to work closely with environmental affairs staff. Position available immediately. Apply with résumé and three references to: **Administrative Vice President, Massachusetts Audubon Society, Lincoln, Mass. 01773.** MAS is an Equal Opportunity Employer.

## POSITIONS OPEN

### DEAN, SCHOOL OF PUBLIC HEALTH University of California, Los Angeles Los Angeles, Calif. 90024

The School of Public Health is a single-department school, within which there are six divisions: Behavioral Sciences and Health Education; Biostatistics; Environmental and Nutritional Sciences; Epidemiology; Health Services; and Populations, Family, and International Health. The school offers four graduate degree programs (M.S., M.P.H., Ph.D. and Dr.P.H.) and one undergraduate (B.S.) for more than 600 students; it has 40 regular faculty positions.

Acting under delegated authority, the dean is responsible for the academic and administrative operation of the school, including the preparation of the school budget, allocation of resources, personnel review, student counseling, and development of programs. In addition to demonstrated interest in all areas of public health, applicants should have administrative qualifications appropriate for appointment to the rank of full professor. Salary will be commensurate with academic background and experience. The starting date is flexible, but should be as early as possible in the 1980-1981 academic year.

Please send nominations or letters of application with complete curriculum vitae, bibliography, and names of three references by 1 March 1980, to: **Dean's Search Committee, c/o Ann Laughlin, 3135 Murphy Hall, University of California, Los Angeles, Calif. 90024.**

*The University is an Equal Opportunity/Affirmative Action Employer, M/F.*

### DIRECTOR OF ENVIRONMENTAL HEALTH AND SAFETY WAYNE STATE UNIVERSITY

The Director of Environmental Health and Safety is responsible for the implementation and administration of policy relating to biohazards control, recombinant DNA activities, and related in-service training programs related to environmental health and safety. Candidates should possess a doctoral degree, Ph.D. or Dr.P.H., in public health, epidemiologic sciences, public health microbiology (laboratory practices), occupational and environmental health sciences, or in related areas. Academic appointment in an appropriate academic unit. Salary open. Send curriculum vitae and names of three references to: **Martin Barr, Ph.D., Acting Vice President for Health Affairs, Wayne State University, Detroit, Michigan 48202.** Wayne State is an Affirmative Action/Equal Opportunity Employer.

## ECOLOGY POSITION

The University of Alabama in Huntsville seeks an ecologist (Ph.D.) with capability in botany and environmental science for September 1980 at the assistant professor level (tenure-earning). Supervision of master's-level graduate students and an active research program will be expected. Application deadline is 1 March 1980 for letter of application, résumé, transcripts, and names and telephone numbers of three references. Send materials to: **Chairman of Ecology Search Committee, Department of Biology, The University of Alabama in Huntsville, Huntsville, Alabama 35807.** The University of Alabama in Huntsville is an Affirmative Action/Equal Opportunity Institution.

### EXPERIMENTAL PATHOLOGIST

Opportunity available for individual with a professional degree (D.V.M. or M.D.), well-trained in anatomic pathology (Board-certified or Board-eligible desired) to contribute to the experimental pathology efforts of the Lovelace Inhalation Toxicology Research Institute. The Institute has a strong multidisciplinary team research effort involving scientists in physical, biophysical, and medically related fields including D.V.M. and M.D. pathologists and D.V.M.s in other areas. The Institute, which is heavily oriented to comparative animal experimentation, is addressing significant problems concerning the effects of airborne toxic materials on man and his environment. The successful candidate will be expected to design and implement both independent and collaborative research on inhaled toxicants and to conduct histopathologic examination of a wide range of species and organ systems with primary emphasis on evaluation of respiratory disease. Salary and starting date negotiable. Submit résumé to: **Personnel Unit, Lovelace Inhalation Toxicology Research Institute, P.O. Box 5890, Albuquerque, N.M. 87115, or telephone (collect) 505-264-9431.** An Equal Opportunity/Affirmative Action Employer, M/F.

## POSITIONS OPEN

### DIRECTOR, WATER RESOURCES RESEARCH CENTER UNIVERSITY OF MARYLAND COLLEGE PARK

Position requires administration of Water Resources Research Center (WRRC) and commitment to water-related research and scholarship in a scientific discipline. The director shall be the chief administrative officer of the WRRC and shall be responsible to the provost of the Division of Agricultural and Life Sciences for the quality of research conducted through the center. Candidates must be eligible for appointment at the rank of professor in a department of the College Park campus, should have demonstrated ability to work with people and to conduct and direct water-related research, and should be experienced and successful in obtaining extramural fund support.

Send résumé and names of five references to:

**Glenn W. Patterson**  
Chairman, Department of Botany  
University of Maryland  
College Park, Md. 20742

by 15 January 1980.

*An Equal Opportunity/Affirmative Action Employer*

### DIRECTOR, GRAY FRESHWATER BIOLOGICAL INSTITUTE

Applicants must have an internationally recognized research program dealing with fundamental biological processes pertinent to freshwater environments. The specific area of research is open, but preference will be given to those candidates whose research involves a combination of molecular and ecological perspectives. The applicant must have substantial integrative and administrative skills. He/she will be expected to hire at least one more permanent faculty member and to attract to the institute visiting scholars and postbaccalaureate students. It is expected that the overall research effort at the Gray Institute will be developed by the successful applicant in a fashion that takes advantage of existing, unique strengths in molecular approaches to freshwater research while building bridges to ecological, limnological, and other researchers throughout the University of Minnesota. Skill at participating in, or otherwise fostering, effective interaction with the public for educational and fund-raising purposes is also desired.

Applications and nominations (including curriculum vitae, names of references, and a list of publications) should be sent to: **Office of the Dean, College of Biological Sciences, University of Minnesota, 1475 Gortner Avenue, St. Paul, Minn. 55108.**

*An Equal Opportunity Educator and Employer*

**DIRECTOR, Laboratory for Plasma and Fusion Energy Studies.** The University of Maryland at College Park invites applications and nominations for the position of director of the Laboratory for Plasma and Fusion Energy Studies. Candidates for the position should have a distinguished reputation in research, the ability to lead in further developing the programs of the newly established laboratory, and be highly qualified for appointment as a tenured professor in a relevant department of physical science or engineering. The prospective appointment date is on or about 1 July 1980; applications received by 1 March 1980 will receive full consideration. Inquiries, nominations, and applications should be addressed to: **Dr. Robert O. Harger, Chairman of the Search Committee, Electrical Engineering Department, University of Maryland, College Park, Maryland 20742.** The University of Maryland is an Equal Opportunity/Affirmative Action Employer.

### ELECTRON MICROSCOPY DEPARTMENT OF BIOLOGICAL SCIENCES COLUMBIA UNIVERSITY

Technician to oversee operation and maintenance of electron microscope facility consisting of Siemens and Zeiss EM scopes. Duties will include 50 percent of time instructing faculty, staff, and students in the operation of the scopes. Balance of time will involve work in an ongoing research project in invertebrate neuroanatomy. Requires B.S./B.A. with a major in biology and at least 3 to 4 years of experience. Tissue preparation, sectioning, and photomicrography required. Freeze-fracture, scanning techniques, and autoradiography desirable. Excellent salary and fringe benefits. Send résumé to: **Professor Eduardo Macagno, Department of Biological Sciences, 1003B Fairchild, Columbia University, New York, New York 10027.** Columbia University is an Equal Opportunity Employer which encourages application from qualified minority groups and women.

**THE CHINESE UNIVERSITY  
OF HONG KONG**  
Faculty of Medicine

Applications are invited for the following post:

Director of the Animal House

tenable at this new medical school. The Animal House of the Faculty of Medicine will ultimately become the Main University Animal House.

**Qualifications**

Applicants should be qualified veterinary surgeons, preferably with relevant experience in the management of animal house in academic/research institutions.

**Date of Assumption of Duty**

The appointee is expected to assume duty by 1st January 1981 to supervise installation of facilities. Teaching in this Faculty will commence in the fall term of 1981.

**Conditions of Service**

Salary: HK\$105,540-141,780 per annum by 8 increments. (Exchange rate approximately US\$1 = HK\$5) Terms of service include long leave, superannuation benefits (University 15%, appointee 5%), medical and housing benefits and for overseas appointees, passage benefit as well.

**Application Procedure**

Application forms and further information on the Faculty and the scope of the job are obtainable from the Personnel Section, The Chinese University of Hong Kong, Shatin, N.T., Hong Kong. Closing date of application is 31st March, 1980.

**FACULTY POSITIONS OPEN  
COLLEGE OF AGRICULTURAL  
SCIENCES AND FOODS  
KING FAISAL UNIVERSITY  
HOFUF, SAUDI ARABIA  
Academic Year 1980-1981**

The expanding College of Agricultural Sciences and Foods of King Faisal University invites inquiries from qualified applicants for the 1980-1981 academic year in the following fields: **Agronomy, Horticulture, Beekeeping, Poultry Science, Biology, Chemistry, Physics, Botany, Biochemistry, Agricultural Extension, Plant Pathology, Agricultural Economics, Animal Science, Animal Ecology, Dairy Science, Agricultural Engineering, and Water Resources and Climatology.**

**PREREQUISITES:** Master's or equivalent degree; practical and/or teaching experience. Knowledge of Arabic is helpful but not required. Language of instruction is English. Positions available September 1980; interviews scheduled with the dean in Houston, London, and Ottawa in April/May 1980.

**SALARY RANGES:** Approximate annual U.S. equivalent: professor, \$25,469 to \$33,965; associate professor, \$22,779 to \$28,973; assistant professor, \$18,570 to \$27,487; and lecturer, \$11,611 to \$16,035. Salaries are paid monthly in Saudi riyals. Substantial increase in these salaries is being considered for 1980-1981.

**BENEFITS:** Free, furnished accommodations; substantial educational allowance for up to four children. Air tickets to and from Saudi Arabia once per year for family of four. Sixty-day paid summer holiday; yearly bonus; overweight allowance. No Saudi income tax. Contracts are for 1 year and are renewable.

Send curriculum vitae with current telephone number and the names, addresses, and telephone numbers of three references to:

**Dr. Hussein M. Elarosi**  
Dean, College of Agricultural Sciences and Foods  
King Faisal University

c/o Saudi Arabian Educational Mission, 2221 West Loop South, Houston, Texas 77027;

OR

c/o P.O. Box 2, Sudbury-on Thames, Middlesex TW16 5JP England.

4 JANUARY 1980

**FACULTY OF MEDICINE  
KUWAIT UNIVERSITY  
CHIEF TECHNICIAN  
ELECTRON MICROSCOPE UNIT**

Applications are invited for the appointment of Chief Technician in the Electron Microscope Unit. The E.M. unit is equipped with JEOL 100CX and JSM 35 electron microscopes. The appointee will be responsible to the Director of the Unit for coordinating the use of the Unit, undertaking routine maintenance and emergency repairs of microscopes and ancillary equipment, performing all phases of specimen preparation for SEM and TEM and darkroom work, preparing orders for supplies and equipment, and training technical and academic staff. He will also be expected to participate in research programmes.

Applicants should possess a F.I.M.L.S. or B.Sc in Biology, or equivalent qualification, and have fifteen years' experience, including training, in electron microscopy work. Salaries will be in the range KD 450-512 per month (KD1=£1.6; US\$ 3.6 approx.). There is no income tax in Kuwait and currency is freely transferable without restriction. Free, furnished, air-conditioned accommodation is provided and electricity and water supplied free of charge. Sixty days paid annual leave for each completed year of employment, and annual, economy class return air tickets to the country of citizenship or permanent residence are provided for the appointee, spouse and three dependent children. Free medical treatment is available under the State Health Service.

Applications in duplicate should be submitted to the Dean, Faculty of Medicine, University of Kuwait, P.O. Box 24923 Safat, Kuwait with detailed curriculum vitae, recent passport photograph, and the names of three referees.

**FACULTY OF MEDICINE  
KUWAIT UNIVERSITY  
CHIEF TECHNICIAN  
DEPARTMENT OF PATHOLOGY**

Applications are invited for the appointment of Chief Technician in the Department of Pathology. Applicants should possess a degree in the biomedical sciences with a major in histotechnology, or the FIMLS in histotechnology, or an equivalent qualification, and have fifteen years' experience, including training, in laboratory work. Proficiency in all histological techniques, including a working knowledge of histochemistry, and museum techniques is required. The successful applicant will be expected to have administrative responsibility for ordering laboratory equipment, take an active role in the training and supervision of the technical staff, and to assist the chairman with budgeting and departmental accounts.

Salaries will be in the range KD450-512 per month (KD1=£1.6; US\$ 3.6 approx.). There is no income tax in Kuwait and currency is freely transferable without restriction. Free, furnished, air-conditioned accommodation is provided, and electricity and water supplied free of charge. Sixty days paid annual leave for each completed year of employment, and annual economy class return air tickets to the country of citizenship or permanent residence are provided for the appointee, spouse and three dependent children. Free medical treatment is available under the State Health Service.

Applications in duplicate should be submitted to *The Dean, Faculty of Medicine, University of Kuwait, P.O. Box 24923 Safat, Kuwait* with detailed curriculum vitae, recent passport photograph, and the names of three referees.

99

## POSITIONS OPEN

### ENTREPRENEUR

Wanted, the president for a new company creating products utilizing monoclonal antibodies. Prefer background in this technology and in business. Contact: **Robert F. Johnston**, Pretty Brook Road, Princeton, N.J. 08540; telephone: 609-924-3131.

### FACULTY POSITION UNIVERSITY OF WATERLOO

**EPIDEMIOLOGIST** at assistant to professor level. Ph.D., M.D., or equivalent, and substantive interests in the biological mechanisms underlying disease processes as applied to primary/secondary disease prevention. Applicants should have an established research record and be willing to teach one or more of the following at the undergraduate and graduate level: epidemiology, disease process, and community health. The Department of Health Studies has active, interdisciplinary programs which focus on the study of health behavior, determinants of risk factors, health behavior modification, and evaluation of health behavior change programs. Appointment to start, pending funding, 1 September 1980 or sooner. Apply to: **J. A. Best, Ph.D., Chairman, Department of Health Studies, University of Waterloo, Waterloo, Ontario, Canada N2L 3G1.**

### FACULTY POSITIONS AVAILABLE

The Department of Applied Science at New York University (NYU) will appoint one or more new faculty members, effective 1 September 1980.

The department offers undergraduate and graduate degrees in energy science and atmospheric science. Additionally, the department is heavily engaged in research in these two areas at their two research centers: (i) Westbury, L.I., and (ii) Washington Square.

Applicants must show a strong background in research in one or more of the following disciplines:

**Assistant or Associate Professor**—Climate modelling, atmospheric chemistry, boundary layer meteorology, air/sea interactions, pollution dispersion, environmental wind tunnel testing, and instrumentation.

**Associate or Full Professor**—Solar and wind energy; coal gasification and liquefaction; magnetohydrodynamics; power generation; controlled thermonuclear fusion; material scientist in the area of hydrogen storage systems and transportation; fuel cells, photovoltaic cells.

Letters of recommendation and applications should be sent to: **Professor Victor Zakkay, Chairman, Department of Applied Science, New York University, Barney Building, 26-36 Stuyvesant Street, New York, N.Y. 10003.** NYU is an Equal Opportunity/Affirmative Action Employer.

### FACULTY POSITION: Comparative Epidemiology

Candidate will join a faculty group of five epidemiologists who have research interests in clinical and serologic epidemiology; comparative environmental health, nutrition, and toxicology; and animal production. Candidate will share responsibility for the teaching of D.V.M. and Ph.D. students in epidemiology. Applicants should hold a D.V.M., M.D., D.D.S., and/or Ph.D. degree, and must have demonstrated achievement in research as evidenced by active publication record and a sustained research program funded by competitive grant support. Title and salary negotiable. Send curriculum vitae, personal bibliography, and references to: **Dr. R. H. Cypess, Department of Preventive Medicine, New York State College of Veterinary Medicine, Cornell University, Ithaca, N.Y. 14853.** Affirmative Action/Equal Opportunity Employer.

### UNIVERSITY OF CHICAGO FACULTY POSITION IN PLANT CELL BIOLOGY

The Department of Biology invites applicants for a faculty appointment from individuals with research interests in cell or molecular biology of plants. Applicants should have demonstrated aptitude to develop an independent research program and willingness to participate with others in courses in cell biology and modern plant biology. Send curriculum vitae, bibliography, and reference names and addresses to: **Dr. Hewson Swift, Department of Biology, University of Chicago, 1103 East 57 Street, Chicago, Illinois 60637.**

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

## POSITIONS OPEN

**VISITING FACULTY POSITION(S).** One-year, part-time appointment beginning 1 September 1980. Ph.D. or equivalent in chemistry or closely related discipline required. Particularly suitable for faculty on sabbatical leave or other partially self-supported individuals. Some teaching required and cooperative interaction with Montana State University research faculty expected. Area open. Complete curriculum vitae, publication list, and letter of recommendation addressing abilities and accomplishments in research and/or teaching should be sent to: **Peggie Riley, Secretary, Visiting Faculty Search Committee, Chemistry Department, Montana State University, Bozeman, Montana 59717.** Telephone: 406-994-4801. Deadline for receipt of completed applications is 10 February 1980.

*Montana State University is located in an exceptional outdoor recreational area of the Northern Rocky Mountains and is an Equal Opportunity/Affirmative Action Employer.*

### FACULTY POSITIONS COLLEGE OF MEDICINE UNIVERSITY OF KENTUCKY

The University of Kentucky, College of Medicine, invites applications for faculty positions in basic science departments. The University of Kentucky recognizes a specific responsibility to insure that the search does not overlook qualified candidates who are women or members of ethnic minority groups. Salary is negotiable based on qualifications and experience. The following disciplines are encouraged to submit applications:

- **Anatomy**—Three faculty positions at the assistant and associate professor level with expertise in neuroendocrinology and neuroanatomy preferred.
- **Behavioral Science**—Two postgraduate fellowships supported by a grant from the National Institute of Mental Health.
- **Pharmacology**—Two faculty positions at the assistant professor level with expertise in neuropsychopharmacology, receptor pharmacology, autonomic pharmacology, and cardiovascular pharmacology.

Submit curriculum vitae to:

**Karen Jenkins  
Special Assistant to the Dean  
College of Medicine  
University of Kentucky  
800 Rose Street  
Lexington, Kentucky 40536**

*The University of Kentucky is an Equal Opportunity Employer.*

The University of Texas Medical Branch at Galveston, Texas, is seeking a **HEALTH PHYSICIST** to conduct the radiation safety program for a large medical center. The applicant should have a M.S. degree in health physics or a related field and several years of pertinent experience in a medical institution. Teaching experience is highly desirable. Salary is negotiable, depending on qualifications. We are an Equal Opportunity/Affirmative Action Employer, M/F/H. Reply to: **Personnel Office, P.O. Box 146, University of Texas Medical Branch, Galveston, Texas 77550, attention: Leo Wade, Jr., Ph.D.**

### IMMUNOLOGIST—ASSISTANT PROFESSOR

Applications are invited for a tenure-track position beginning in September 1980, with research interests in cellular immunology and teaching responsibilities in immunology and pathogenic bacteriology. Ph.D. degree with a strong background in microbiology is required and postdoctoral experience preferred. Send curriculum vitae and names of three references to: **Dr. Dale Jackson, Chairman, Department of Biology, The University of Akron, Akron, Ohio 44325.** The University of Akron is a consortium member of the Northeastern Ohio Universities College of Medicine. Deadline for receipt of applications is 1 February 1980.

**INSTRUCTOR OF BIOCHEMISTRY.** To teach biochemistry and collaborate in research localizing and characterizing cytoskeletal elements and contractile proteins in brain subcellular fractions. Experience with  $Ca^{2+}$ , synaptosomal, or muscle biochemistry desirable. Send curriculum vitae and names of three references by 31 January 1980 to: **Dr. Joseph A. Babitch, Chemistry Department, Texas Christian University, 2900 South University Drive, Fort Worth, Texas 76129.** Texas Christian University does not discriminate on the basis of race, creed, color, national origin, sex, age, or handicap. Women and minorities are encouraged to apply.

## POSITIONS OPEN

### FISHERIES SCIENTIST/SYSTEMS ANALYST

The Department of Marine Biology, Texas A & M University at Galveston, and the Department of Wildlife and Fisheries Science, Texas A & M University at College Station, announces a teaching/research position. The appointment will be a 9-month, tenure-track appointment at assistant/associate professor level. Duties include teaching courses in population dynamics, biostatistics and/or aquatic ecosystems modeling, advising undergraduate students, directing M.S. and Ph.D. students, developing research programs in area of expertise and assisting in administrative aspects of a dynamic department. Ph.D. in fisheries science or closely related field required. Preference given to applicants with interests in analysis and management of marine fisheries communities and in fisheries population dynamics. Salary and rank are commensurate with experience. Applications received through 15 February 1980. Submit curriculum vitae, three letters of recommendation, publication list, and statement of research interests to: **Head, Department of Marine Biology, Texas A & M University at Galveston, Galveston, Texas 77550.**

*An Equal Opportunity/Affirmative Action Employer*

### GENETICIST

Tenure-track position commencing August 1980. Applicants should have postdoctoral training (or equivalent experience) in genetics and will be expected to develop an active research program. Although we are particularly interested in a eukaryotic geneticist emphasizing molecular and developmental approaches to problems, other research areas will also be considered. Person will teach general genetics, a more advanced course, and will train graduate students. Rank and salary commensurate with training and experience. Curriculum vitae (including a résumé of teaching and research experience), list of publications, description of future research plans, and the names and addresses of three references should be sent by 25 January to: **Genetics Search Committee, School of Life Sciences, The University of Nebraska-Lincoln, Lincoln, Nebraska 68588.** Affirmative Action/Equal Opportunity Employer. Applications from women and minorities are encouraged.

**GEOLOGIST.** Full-time faculty appointment beginning September 1980 to develop a support program for environmental sciences and maintain collection. Field orientation desirable. Should expect to teach introductory, historical, and environmental geology as part of teaching load. Please send résumé, including references, by 1 March 1980 to: **Dr. Peter M. Fichte, Coordinator, Division of Science and Mathematics, Nason College, Springvale, Maine 04083.**

**HEAD, DEPARTMENT OF PATHOLOGY.** Applications are invited for the **Chair in Pathology** for the Schools of Medicine and Dental Medicine. Candidates are expected to have strong academic backgrounds and leadership ability. Curriculum vitae and bibliographies should be sent to: **Dr. Robert L. Volle, Associate Dean, University of Connecticut School of Medicine, Farmington, Conn. 06032.** An Equal Opportunity Employer.

**INTERDISCIPLINARY RESEARCH SCIENTIST.** The Institute of Ecology (TIE) seeks a biological scientist with ten or more years of postdoctoral experience and a substantial publication record. Training or experience in air pollution or acid rain effects on plants is desirable. Apply by 18 January 1980 to: **Dr. Orie L. Loucks, Science Director, The Institute of Ecology, Holcomb Research Building, Butler University, Indianapolis, Indiana 46208.**

**MASS SPECTROSCOPIST, UNIVERSITY OF MICHIGAN.** Duties include instrument maintenance and supervision of mass spectrometry laboratory, including high and low resolution, magnetic and quadrupole instruments, and complete data system. Opportunities for collaborative and developmental research. Prefer M.S. or Ph.D. in chemistry with mass spectroscopy or instrument experience, or advanced degree in electronics with strong background in instrument applications, maintenance and design. Salary range: \$15,400 to \$24,500, depending upon qualifications and experience, plus an excellent fringe benefit package. Position available immediately. Send curriculum vitae and three letters of recommendation or telephone: **The University of Michigan, Office of Professional and Administrative Staff Services, 1020 Literature, Science and the Arts Building, Ann Arbor, Mich. 48109; telephone: 313-763-2371, attention: J. T. Groves.** A nondiscriminatory, Affirmative Action Employer.



## COMBATING THE #1 KILLER

The SCIENCE  
Report on  
Heart  
Research

JEAN L. MARX and  
GINA BARI KOLATA

\$17.00 casebound

\$ 7.50 paperbound

10% discount to AAAS members

Send name, address and remittance to

**AMERICAN ASSOCIATION  
FOR THE ADVANCEMENT  
OF SCIENCE**

Department B-6  
1515 Massachusetts Avenue, NW  
Washington, D.C. 20005

### NEW GRADUATE PROGRAM IN ENVIRONMENTAL HEALTH POLICY AND MANAGEMENT HARVARD SCHOOL OF PUBLIC HEALTH

A two-year program leading to the degree of Master of Science in Health Policy and Management is now in its fifth year at the Harvard School of Public Health. The program builds upon an established interdisciplinary core curriculum in Health Policy and Management, which includes quantitative methods, economic analysis, the political economy of environmental regulation, and management. A special curriculum "track" in environmental health policy and management emphasizes the application of these skills to practical problems of environmental planning, public investment, and pollution control. Depending upon his or her background and objectives, a student can design a program of electives involving further work in decision theory and policy analysis, management, and environmental science and engineering. The deadline for completed applications is February 1, 1980. As a matter of policy, Harvard does not discriminate in the admission treatment of students on the basis of race, sex or handicap.

For further information contact:

Paula Lichter  
Administrative Assistant  
Graduate Program in HP&M  
577 Huntington Avenue  
Boston, MA 02115  
(617) 732-1087

## Senior Toxicologist

Our Fortune 100 chemical industrial leader, headquartered in Northern New Jersey, has a demanding and rewarding opening for a knowledgeable toxicologist, skilled in group interactions, who wants the exposure to the most advanced areas of research in the industry.

Drawing upon your experience in design, implementation and monitoring premanufacturing toxicity studies, you will supervise short and long-term animal safety studies, handle all facets of data collection, and evaluation and reporting of data. Good interpersonal relationships are important, since there is interaction and idea sharing with other groups in project teams.

We can provide the excellent salary that your experience requires, as well as the finest company benefits and overall working environment. Please send us your resume, detailing background and salary history, to the following address:

**Box 6, SCIENCE**

An Equal Opportunity Employer

### RESEARCH POSITIONS AVAILABLE REPRODUCTIVE TOXICOLOGIST

The Laboratory of Reproductive and Developmental Toxicology of the National Institute of Environmental Health Sciences has both postdoctoral and permanent positions available for qualified research scientists. One of the available positions is for a mid-career scientist as a Section Leader. The research efforts of this Laboratory are directed toward understanding mechanisms of reproductive and developmental toxicity. Studies from the whole animal to the molecular level are utilized to develop more effective and rapid test procedures to predict toxicity. Environmental factors are assessed for their potential to affect humans.

Interdisciplinary research efforts are currently being expanded. Special emphasis is being placed on understanding the cellular mechanisms of reproductive toxicity and application of short-term biochemical or culture tests to predict toxicity. The incumbent would be expected to become involved in some of the following studies:

- Short-term tests of reproductive capacity; validation of interspecies *in vitro* fertilization as a laboratory indicator of human sperm functionality.
- Various factors affecting testicular toxicity such as the blood-testis barrier, chemical biotransformation mechanisms and DNA repair capability of spermatogenic cells.
- Cellular and molecular mechanisms involved in reproductive toxicology.
- Semen analysis and other predictors of reproductive toxicity.
- Routine reproductive toxicology.

Salary is competitive and commensurate with education and experience. If interested, please send a curriculum vitae and the names of two references by January 28, 1980 to: Robert L. Dixon, Ph.D., Chief, Laboratory of Reproductive and Developmental Toxicology, NATIONAL INSTITUTES OF HEALTH, Public Health Service, National Institute of Environmental Health Sciences, P.O. Box 12233, Research Triangle Park, NC 27709.

Equal Opportunity Employer

## POSITIONS OPEN

### INFORMATION SCIENTIST

The Florida Institute of Phosphate Research, an agency of the state of Florida, has a challenging opportunity for an information scientist. The applicant must have a B.A. or B.S. degree in a scientific or engineering discipline. In addition, 3 years of relevant job experience and/or graduate training in the information sciences is required.

This individual will be responsible for establishing and administering the Information Clearing House and Library of the Institute and coordinating the public dissemination of the Institute's printed material.

Application deadline: 31 January 1980. Please submit detailed résumé to: **Dr. D. P. Borris, Executive Director, Florida Institute of Phosphate Research, P.O. Box 877, Bartow, Florida 33830.**

*Equal Opportunity/Affirmative Action Employer*

The Johns Hopkins Medical School, Department of Cell Biology and Anatomy, invites applications for junior and senior faculty positions available in July 1980. We are particularly interested in applicants with distinguished research experience in one of these areas:

**NEUROANATOMY**—Neuroanatomy or neurocytology combining morphological studies with physiology, immunology, biochemistry, or genetics. Teaching in medical neuroscience.

**CELL BIOLOGY**—Structure and function of membranes or the nucleus. Teaching in medical or graduate cell biology.

**HUMAN ANATOMY**—Functional anatomy and/or evolution of primates. Teaching in medical anatomy.

Ph.D. or M.D. required. Level of appointment dependent upon qualifications. Submit résumé and names of references to: **Dr. Thomas D. Pollard, Director, Department of Cell Biology and Anatomy, The Johns Hopkins University School of Medicine, 725 North Wolfe Street, Baltimore, Maryland 21205.** Applicants will be considered without regard to race, religion, sex, or national origin. The Johns Hopkins University is an Equal Opportunity/Affirmative Action Employer.

National land conservation organization seeks **LAND STEWARD** for its Western Region to prepare and implement stewardship plans for its 80 plus Western nature preserves, both by supervising the six field staffs and working directly in the seven unstaffed Western states. Qualifications: applicant should be a "generalist" with academic or professional background in land use planning/natural science; business, management and administrative experience desirable; preferably a Westerner with knowledge of Western eco-systems; ability to work with very diverse groups of people; willingness to travel approximately 10 days per month in the West. Salary: \$16,000 to \$25,000. Send résumés to: **H. P. Little, 425 Bush Street, 5th Floor, San Francisco, Calif. 94108.** *Equal Opportunity Employer.*

### SYDNEY, AUSTRALIA THE UNIVERSITY OF NEW SOUTH WALES CENTRE FOR BIOMEDICAL ENGINEERING LECTURERS (Reference 1242)

Two positions available from February 1980. Appointee will teach postgraduate students undertaking master of biomedical engineering course and augment current biomedical engineering research programs. The broad teaching areas are mass transfer and fluid mechanics aspects of artificial organs, biomaterials, biomechanics, drug kinetics, medical instrumentation, biomedical applications of microprocessors, physiological modelling, radiation physics, computing and statistics. Successful applicants should have a strong research background in one or more biomedical engineering fields such as artificial organs (kidney, liver, heart), biomaterials, biomechanics, cardiology, and/or orthopaedic implants/appliances.

The appointments are for a fixed period of 3 years. Further information from: **Associate Professor Peter C. Farrell [(02) 662.3710], The University of New South Wales.**

Salary per annum: A\$16,291 to A\$21,401. Commencing salary per annum: A\$16,291 to A\$21,401. Commencing salary according to qualifications and experience. Applications close 18 January 1980.

Write to or telephone: **Academic Staff Office [(02) 663.0351], P.O. Box 1, Kensington, N.S.W. 2033, Australia** for full information about conditions of employment and method of application.

## POSITIONS OPEN

**MAMMALIAN PHYSIOLOGISTS AND BIOPHYSICISTS.** Positions open for the 1980-1981 academic year in the areas of cardiovascular physiology, renal physiology, gastrointestinal physiology, endocrinology, reproductive physiology, and respiratory physiology at King Faisal University College of Medicine in Dammam, Saudi Arabia. Ph.D. and/or M.D. and at least 2 years of teaching experience. Salaries are highly competitive and benefits are excellent. Language of instruction is English. Send complete curriculum vitae with telephone numbers and three references to: **Dr. Tawfiq Tamimi, Dean, College of Medicine, King Faisal University, c/o Saudi Arabian Educational Mission, 2221 West Loop South, Houston, Texas 77027.**

### MATERIALS SCIENTIST

A major museum of art is seeking a materials scientist or inorganic chemist to assist in the development of a program for research facilities at the museum. Ph.D. or D.Sc. in one of the above fields preferred.

The successful applicant will join a laboratory devoted to the history of technology in works of art and will participate in the study of objects in the museum's collection.

**Box 1, SCIENCE**

### OPPORTUNITY IN CANADA Medical Consultant

## (Hazardous Substances)

\$38,900 to \$45,200

In this opportunity with the MINISTRY OF LABOUR, reporting directly to the chief, occupational health medical services, you will monitor and evaluate the medical surveillance programs for persons exposed to toxic substances in industry; assist in the development of new laboratory techniques and methodology for the evaluation and monitoring of the effects of toxic substances; liaise with field staff of the branch and provide advice to industry and others; some research in conjunction with the occupational health laboratory may be undertaken. Location: Toronto, Ontario.

Qualifications: licensed or confirmed eligibility for registration as a medical practitioner by the OCPSP; DIH or equivalent; experience in postgraduate work in the field of pharmacology or industrial toxicology. Please submit application/résumé by 30 January 1980, quoting file LB181/79, to: **Ministry of Labour, Personnel Branch, 400 University Avenue, 2nd Floor, Toronto, Ontario, Canada M7A 1T7.**

*Equality of Opportunity for Employment*

**Medical Geneticist.** (M.D.) for state-funded faculty position. Growing department has comprehensive teaching program; clinical activities extend to 31 counties in Alabama and adjoining Florida and Mississippi areas under state and federal sponsorship. Position offered is compatible with various clinical and research interests. Apply to: **W. Wrotecki, M.D., Department of Medical Genetics, University of South Alabama Medical Center, Mobile, Ala. 36617. Telephone: 205-476-6305.** *Equal Opportunity Employer.*

**MICROBIOLOGIST,** Ph.D. preferred, instructor or assistant professor, tenure-track. Salary negotiable. Full-time college teaching experience required. To teach basic bacteriology and develop a course in mycology and/or virology. Starting date: 1 August 1980. Deadline for receiving applications, including curriculum vitae, three letters of recommendation, and official transcripts is 15 February 1980. Apply to: **Dr. Ralph E. Sharp, Chairman, Search Committee, Department of Biology, Middle Tennessee State University, Murfreesboro, Tennessee 37132.** *An Equal Opportunity/Affirmative Action Employer.*

### POSTDOCTORAL POSITION NAVAL POSTGRADUATE SCHOOL

Computer simulation studies of atom and molecule ejection from clean and reacted single crystal surfaces. Experimentalist is preferred. Background in ion-bombardment physics desirable. Computation experience not required. Send résumé and two letters of reference to: **Professor Don E. Harrison, Jr., Department of Physics and Chemistry, Naval Postgraduate School, Monterey, Calif. 93940.** Position available 1 April 1980. The search will continue until the position is filled. *The U.S. Government is an Affirmative Action/Equal Opportunity Employer.*

## POSITIONS OPEN

### NEUROBIOLOGIST

**ASSISTANT PROFESSOR,** Ph.D., tenure-track; 15 August 1980. Postdoctoral experience desirable. Research interests in neural basis of behavior. Teaching responsibilities include courses in biology and physiology and graduate course in neurobiology. Send by 15 February, curriculum vitae, reprints, and three letters of reference to:

**Robert Patterson, Chairman  
Search Committee  
Department of Zoology  
Arizona State University  
Tempe, Arizona 85281**

*Affirmative Action/Equal Opportunity Employer*

### NEUROBIOLOGIST Cornell University, Ithaca, N.Y.

Section of Neurobiology and Behavior invites applications for tenure-track position in cellular or molecular neurobiology. Applicants with postdoctoral experience preferred. Candidates should send curriculum vitae and a statement of research interests. Three letters of reference, requested by candidate, should be sent directly to the Search Committee by 31 January 1980. Send applications to:

**T. R. Podleski, Chairman  
Langmuir Laboratory  
Cornell University  
Ithaca, New York 14850**

*Cornell University is an Equal Opportunity/Affirmative Action Employer.*

Position open for a **PATHOLOGIST—DIRECTOR OF HEMATOLOGY LABORATORY** in the Department of Pathology, Northwestern University Medical School, and Northwestern Memorial Hospital, Chicago, Illinois. Full-time academic appointment; rank dependent on level of experience and scholarly development. An active research program obligatory. Send résumé to: **Dante G. Scarpelli, M.D., Ph.D., Professor and Chairman, Department of Pathology, Northwestern University Medical School, 303 East Chicago Avenue, Chicago, Ill. 60611.** *Equal Opportunity/Affirmative Action Employer*

**PLANT ANATOMIST.** Applications are invited for a position in developmental or systematic anatomy, available August 1980. Rank open. Duties will include development of a strong research program and teaching at graduate and undergraduate levels. Preference given to candidates with a broad background in modern anatomical techniques. Salary will be commensurate with rank and experience. Applicants should forward a statement of research objectives and teaching interests, current curriculum vitae, and the names and addresses of four references by 15 March 1980 to: **Dr. W. L. Klarman, Chairman, Search Committee, Department of Botany, University of Maryland, College Park, Md. 20742.**

*Equal Opportunity/Affirmative Action Employer*

**POSTDOCTORAL FELLOW.** Position available immediately for recent Ph.D. in biochemistry, molecular or cell biology to study molecular aspects of cell differentiation in culture or nucleic acids. Please send résumé to: **Dr. S. E. Polakis, Department of Biological Chemistry, University of Maryland, School of Medicine, 660 West Redwood Street, Baltimore, Md. 21201.** *The University of Maryland is an Affirmative Action/Equal Opportunity Employer.*

**POSTDOCTORAL POSITION** available for recent Ph.D. in biochemistry or microbiology to study membrane protein biosynthesis induced by plasmids and bacteriophage. The work involves a combination of gene isolation and protein purification techniques. Competitive salary. Send curriculum vitae and names of three references to: **Dr. D. H. Duckworth, Department of Immunology and Medical Microbiology, Box J-266, J. Hillis Miller Health Center, Gainesville, Florida 32610.** *Equal Opportunity/Affirmative Action Employer.*

### POSTDOCTORAL POSITION

Applications are invited for an opening requiring a strong background in biochemistry and previous experience with cell biology and tissue culture techniques. Research involves studies of cell surface glycolipids in normal and transformed cells, of the regulation of glycosyltransferase activity, and of the mechanisms of action of tumor promoters. Competitive salary, available immediately. Send curriculum vitae and names of two references to: **Dr. C. C. Sweeley, Department of Biochemistry, Michigan State University, East Lansing, Michigan 48824.**

*An Equal Opportunity/Affirmative Action Employer*

# Faculty of Medicine KUWAIT UNIVERSITY

## MEDICAL SCIENCE AND CLINICAL APPOINTMENTS

Applications are invited for the following appointments in the Faculty of Medicine:

**ANATOMY**—Associate professor. Candidates should have areas of specialisation in electron microscopy. The successful candidate's responsibilities will include directorship of the E.M. Unit which is equipped with scanning and transmission microscopes.

Assistant or associate professor. Preference will be given to candidates who have experience in teaching the anatomical disciplines to allied health students. The successful candidate will be responsible for coordinating allied health teaching in the Department of Anatomy.

**COMMUNITY MEDICINE**—Assistant or associate professors in epidemiology (2 posts).

Assistant or associate professor in public health. Preference for these posts will be given to suitable candidates who speak Arabic.

**MEDICINE**—Associate professor in nephrology.

Associate professor in neurology.

**OBSTETRICS AND GYNAECOLOGY**—Associate professor or professor, and assistant professor (2 posts).

Assistant professor or associate professor. Scientist gynaecologist conversant with the practical aspects of gynaecologic endocrinology and hormone assay. A biochemist with extensive experience in these areas may apply and, if appointed, would also be expected to undertake some teaching in the Department of Biochemistry.

**PATHOLOGY**—Assistant and associate professors (2 posts). Candidates should have experience in academic pathology, particularly in anatomic and histopathology. The successful candidates will have responsibilities in diagnostic pathology at the teaching hospital.

**PHARMACOLOGY**—Professor. Candidates should be medically qualified.

**PHYSIOLOGY**—Associate professor or professor in neurophysiology.

Assistant or associate professor in general physiology. Preference will be given to candidates with specialisation in one of the following areas: cardiovascular, gastro-intestinal, muscle physiology, haematology.

**PSYCHIATRY**—Associate professor or professor. Preference will be given to suitable candidates who speak Arabic.

**SURGERY**—Associate professor or professor in orthopaedic surgery.

Associate professor in E.N.T. surgery.

Assistant or associate professor in plastic, reconstructive and burn surgery.

Assistant or associate professor in general surgery with special interest in traumatology.

Assistant professor in surgical research.

Applicants for surgical posts should have at least 5 years clinical and teaching experience in their respective specialties.

### CONDITIONS OF APPOINTMENT

Applicants should possess a Ph.D., or higher professional qualification in their respective medical or surgical specialty, and have conducted and published research in their field. Professors should have 14 years' experience, 4 as an associate professor or its equivalent, i.e. senior lecturer or reader. Associate professors should have 9 years' experience, 4 as an assistant professor or its equivalent i.e. lecturer.

**SALARIES:** Total monthly salaries will be within the following scales according to qualifications and experience (1KD=£1.60; US\$3.6 approx.).

Professors with clinical appointments: KD 880-1045 (8 increments).

Professors medically or non-medically qualified with medical science appointments: KD 826-982 (8 increments).

Associate professors with clinical appointments: KD 725-890 (8 increments).

Associate professors medically qualified with medical science appointments: KD 680-836 (8 increments).

Associate professors non-medically qualified: KD 650-800 (8 increments).

Assistant professors with clinical appointments: KD 570-735 (8 increments).

Assistant professors medically qualified with medical science appointments: KD 534-690 (8 increments).

Assistant professors non-medically qualified: KD 510-660 (8 increments).

**CLINICAL SUPPLEMENTS:** In addition to the above university salaries there will be a monthly clinical supplement paid by the Ministry of Public Health for medical school staff with clinical service commitments. These are:

Professor and chairman—KD 250

Professor—KD 200

Associate professor—KD 150

Assistant professor—KD 100

**GRATUITY:** There is a gratuity of one month's basic salary for each year employed payable on termination of contract.

**HOUSING:** Suitably furnished, air-conditioned accommodation, electricity and water are provided free of charge.

**MEDICAL CARE:** Free, comprehensive treatment is available in Kuwait under the State Health Service.

**TRAVEL:** Air tickets are provided from the country of recruitment for the appointee, spouse and up to 3 dependent children under 20 years. Thereafter return air tickets are issued annually to the country of citizenship or permanent residence. On termination of contract, tickets are provided to the country of recruitment. A baggage and freight allowance is also provided. In addition, travel expenses for attending one scientific meeting a year are paid by the University.

**VACATION:** Sixty days paid annual leave and various official holidays.

**EDUCATION:** This is provided free in state schools where the instruction is in Arabic. Staff who have to send their children to non-Arabic schools in Kuwait will have the tuition fees of up to a maximum of three met by the University.

**TAXATION:** There is no income tax in Kuwait. Currency is freely transferable without restriction.

**METHOD OF APPLICATION:** Curriculum vitae in duplicate, which should include the names of three referees, personal particulars, qualifications with dates, career history, teaching experience, research accomplishments and, where appropriate, clinical experience should be sent to the **Dean, Faculty of Medicine, University of Kuwait, P.O. Box 24923 Safat, Kuwait** to arrive no later than 31st January 1980.

## POSITIONS OPEN

### UNIVERSITY OF CALIFORNIA, IRVINE

Several positions available for **POSTDOCTORAL FELLOWS**, beginning summer 1980, in the Center for Pathobiology. Recent Ph.D. required, preferably in the area of cell biology, developmental biology, or genetics. Candidates to work on problems of pattern formation, determination, morphogenesis, and stem cell differentiation in hydra (with Dr. H. R. Bode), *Drosophila* (with Dr. P. J. Bryant), or amphibians (with Dr. S. V. Bryant). *The University of California is an Affirmative Action Employer*. Arrange for three letters of reference to be sent, and submit résumé and brief description of research interests and experience to: **Dr. S. V. Bryant, Center for Pathobiology, University of California, Irvine, Irvine, California 92717.**

Three **POSTDOCTORAL POSITIONS** are available in the Cooperative Institute for Marine and Atmospheric Studies (CIMAS) for research in climate related ocean variability. Applications are encouraged particularly from persons interested in numerical ocean modeling, statistical processing of satellite and conventional data, and the relevant aspects of boundary layer dynamics. Salary dependent on background and qualifications. CIMAS is located on the marine campus of the University of Miami next to the NOAA Atlantic Oceanographic and Meteorological Laboratories. Close cooperation is maintained with both NOAA and university scientists. Please send résumé, names of three references, and statement of interests to: **E. B. Kraus, Director, CIMAS, 4600 Rickenbacker Causeway, Miami, Fla. 33149.**

**POSTDOCTORAL POSITIONS, BIOCHEMISTRY.** Two positions to study: (i) oxidative phosphorylation and (ii) glycerophosphate acyltransferases in mitochondria and microsomes in cultured cells and transplantable tumors. Laboratory training in membrane biochemistry and RIA technique [position (i)] and in lipid biochemistry and mammalian cell culture [position (ii)] desirable. Salary: \$12,000 to \$14,000. Please send curriculum vitae, names of three references, and statement of interests to: **M. E. Pullman, The Public Health Research Institute, 455 First Avenue, New York, N.Y. 10016.**

**POSTDOCTORAL POSITION** in molecular endocrinology. Available March 1980 or thereafter. Biochemistry Ph.D. with strong background in membrane protein isolation and studies of interaction between peptide hormones and adenylate cyclase will be helpful, but not required. Send résumé and letters of reference to: **Dr. S. N. Nayfeh, Department of Biochemistry, University of North Carolina School of Medicine, Chapel Hill, N.C. 27514. Equal Opportunity/Affirmative Action Employer.**

**POSTDOCTORAL POSITION** for recent Ph.D. in biochemistry to study **biochemistry of human cancers**. Start anytime between January and September 1980. Numerous collaborative opportunities are available in a large, interdisciplinary Comprehensive Cancer Center. Salary: \$12,000 to \$14,000. Send curriculum vitae to: **Dr. Thomas G. Pretlow, Departments of Pathology and Biochemistry, University of Alabama Medical Center, Birmingham, Ala. 35294. An Affirmative Action/Equal Opportunity Employer.**

**POSTDOCTORAL POSITION** in neurotoxicology, available 1 July 1980, to investigate functional changes imposed by neurotoxic substances which provide models of neurological disorders. Electrophysiology experience essential; familiarity with neuropathology and/or neurochemistry desirable. Send résumé, together with three names of references, to: **H. E. Lowndes, Ph.D., Associate Professor, Department of Pharmacology, MSB, Room 1617, COLLEGE OF MEDICINE AND DENTISTRY OF NEW JERSEY—New Jersey Medical School, 100 Bergen Street, Newark, N.J. 07103. Equal Opportunity/Affirmative Action Employer, M/F.**

**POSTDOCTORAL POSITIONS** (three) available immediately. Two positions (**fellowships**) supported by NIH Training Grant (National Research Service Awards) are for M.D. or Ph.D. interested in basic cancer chemotherapy, clinical cancer chemotherapy and biology, or cancer drug development. Third position (**research associate**) supported by an NIH grant is for the study of cancer-related tight-binding inhibitors. Send (within 1 month) curriculum vitae, area of interest, and the names of two references to: **Dr. Sungman Cha, Brown University, Box G, Providence, R.I. 02912. Telephone: 401-863-3114. An Equal Opportunity/Affirmative Action Employer.**

## POSITIONS OPEN

**POSTDOCTORAL POSITIONS.** Two positions to investigate structural-conformational-functional aspects of cytochromes and resonance Raman spectroscopy of heme systems. Strong physical-biochemical background with experience in computer use and electronics desirable. Duration of positions is 2 to 3 years with salary of \$10,000 to \$16,000 per year, depending upon experience. Send curriculum vitae with three letters of recommendation to: **Professor Yash P. Myer, Department of Chemistry, State University of New York at Albany, Albany, N.Y. 12222.**

### POSTDOCTORAL POSITION

**CELLULAR IMMUNOLOGY.** Position available for 2 years, for recently qualified Ph.D. or M.D. for studies on role of lymphocyte membrane IgD. Send curriculum vitae and names of three references to: **Dr. John A. van Boxel, Department of Medicine, Johns Hopkins University, School of Medicine at the Good Samaritan Hospital, 5601 Loch Raven Boulevard, Baltimore, Maryland 21239.**

**POSTDOCTORAL/RESEARCH ASSOCIATE.** Research with cell cultures on molecular mechanisms of cancer, cell growth and inhibition of growth. Bibliography: *Proc. Natl. Acad. Sci. U.S.A.* 74, 3791 (1977) and *Biochem. Pharmacol.* 28, 1971 (1979). Send curriculum vitae and names of three references to: **Dr. E. S. Canellakis, Department of Pharmacology, Yale University, New Haven Conn. 06510. Yale University is an Equal Opportunity/Affirmative Action Employer.**

### RESEARCH ASSISTANT PROFESSOR

Ph.D. to develop monoclonal antibodies as probes of macrophage activation and for use in selective depletion of mononuclear phagocytes in vivo. Experience with macrophages, hybridoma technique, and liquid bone marrow culture essential. Salary negotiable. Should be willing to provide own support after 1 year. Reply with curriculum vitae, description of applicable experience, salary requirements, and names of three references by 1 February 1980 to: **Dr. Stephen W. Russell, Department of Pathology, University of North Carolina School of Medicine, Chapel Hill, North Carolina 27514. An Equal Opportunity/Affirmative Action Employer.**

**RESEARCH ASSOCIATE—Immunologist,** Ph.D. knowledgeable in the methodologies of humoral and cell-mediated immunity to study the effects of gut-derived antigens in human and experimental liver disease. Experience in cell culture and biochemical procedures necessary. Salary from \$20,000 per annum. Send curriculum vitae, reprints, and three letters of recommendation to: **Dr. H. Gans, VA Medical Center, Danville, Illinois 61832. An Equal Opportunity Employer.**

**RESEARCH ASSOCIATE IN STEROID METABOLISM—**Postdoctoral position available immediately to study mechanism of action of aldosterone and regulation of aldosterone metabolite synthesis. Use of HPLC, in vitro synthetic techniques, and animal physiology desirable. Send curriculum vitae and three letters of recommendation to: **Dr. David J. Morris, Department of Laboratory Medicine, The Miriam Hospital, 164 Summit Avenue, Providence, R.I. 02906. A Brown University-affiliated hospital.**

### SCIENTIFIC ASSISTANT TO THE PRESIDENT

We need a generalist capable of providing scientific advice and insight in areas of customer and professional relations, information systems, product and market planning, quality control and communications.

The selected candidate must possess high academic credentials in the sciences, excellent communications skills, and a thorough understanding of how scientists and researchers use information and literature.

Send curriculum vitae, salary requirements, and references to:

**S. Lazerow, Senior Vice President, Administration  
Institute for Scientific Information  
3501 Market Street  
Philadelphia, Pa. 19104**

## POSITIONS OPEN

**RESEARCH ASSOCIATE.** Pharmacology of CNS control of cardiovascular system. Experience in cardiovascular measurements and sympathetic nerve recording in rats and cats. Starting date: January 1980. **Dr. E. Mills, Department of Pharmacology, Box 3813, Duke University Medical Center, Durham, N.C. 27710. Telephone 919-684-4276. Duke University is an Equal Opportunity/Affirmative Action Employer.**

## RESEARCH ASSOCIATE HARVARD MEDICAL SCHOOL

Postdoctoral position available 1 February 1980 for 2 years. Studies on the mechanism of drug-induced changes in membrane phospholipid metabolism in the nervous system. Background in adrenergic receptors, enzymology, ion movements, lipid chemistry desirable; minimum salary: \$14,500.

Send curriculum vitae and references to: **Dr. George Hauser,**

McLean  
Hospital



115 Mill Street  
Belmont, Mass. 02178  
An Equal Opportunity Employer

### UNIVERSITY OF CALIFORNIA, RIVERSIDE

The Black Studies Program at the University of California, Riverside, seeks a **SOCIAL SCIENTIST** with the Ph.D. degree who has research and teaching interests in child psychology, human development, social psychology, the black family, or educational testing, especially as these areas pertain to Afro-Americans. A tenure-track appointment in Black Studies and either the Psychology or Sociology Department will be made at the assistant professor rank. Please send letters of application with curriculum vitae to: **David H. Warren, Dean, College of Humanities and Social Sciences, University of California, Riverside, California 92521.**

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

### STAFF ASSOCIATE

Seeking recent postdoctorals for staff positions in laboratories devoted to broad research program in developmental cell biology in comprehensive cancer center. Research programs include cellular genetics and development, tumor immunology, viral oncology, and chemical carcinogenesis. The research training experience will generally entail a 2-year commitment. Salary negotiable and dependent on postdoctorate level. Send curriculum vitae to:

**Business Manager  
Cancer Center/Institute of Cancer Research  
Columbia University  
701 West 168 Street  
New York, New York 10032**

*An Equal Opportunity/Affirmative Action Employer*

**SYSTEMATIC ENTOMOLOGIST.** Applications are invited for position of **Assistant Curator** in the Division of Insects, Field Museum of Natural History; specialist in *Coleoptera* preferred. Career-track, full-time appointment, with both research and curatorial responsibilities to begin August 1980. Applicants must have Ph.D. with primary interest in and commitment to an active research program in systematic entomology and the curation of a major entomological collection. Other duties may include participation in exhibition and education functions of Field Museum. Opportunities exist for work with graduate students. Salary dependent on qualifications and experience. Send curriculum vitae, description of research experience, future plans, reprints of publications, and letters from three referees by 1 February 1980 to: **Dr. Robert F. Inger, Chairman, Search Committee, Department of Zoology, Field Museum of Natural History, Roosevelt Road at Lake Shore Drive, Chicago, Illinois 60605. An Equal Opportunity Employer.**



# RESEARCH AGRONOMIST

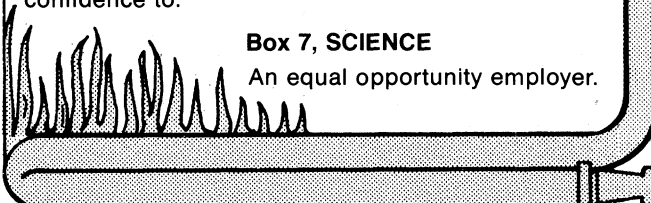
An expanding division of a major chemical corporation seeks an individual with a Master's Degree in Weed Science, Agronomy or related field, and training in weed science.

Your responsibilities will include greenhouse and preliminary field evaluation of herbicide candidates in the areas of selective weed control in crops, perennial weed control, and total vegetation control; and working closely with synthetic chemists in developing structure/activity relationships of lead compounds. You will also be evaluating factors affecting performance of herbicide candidates; and determining candidate compounds with competitive products. These programs will be developed for advanced field testing and require the ability to work with a minimum of supervision and communicate effectively with multi-levels of management.

We offer a salary commensurate with your experience and an excellent benefits package. For prompt consideration, please send your resume in confidence to:

**Box 7, SCIENCE**

An equal opportunity employer.



**FDA  
BUREAU OF MEDICAL DEVICES  
SEEKS  
DIRECTOR, DIVISION OF GASTRO/UROLOGY  
AND GENERAL USE DEVICES  
DIRECTOR, DIVISION OF CLINICAL  
LABORATORY DEVICES**

Applications are being invited from scientists, physicians, and engineers who have management potential or experience to plan, coordinate, and evaluate the activities of a multidisciplinary staff of professional scientists and engineers. These activities include classifying medical devices into one of three regulatory categories, identifying the areas where standards need to be developed, reviewing scientific data submitted to FDA by industry and making recommendations on the safety and efficacy of medical devices, and providing scientific/medical expertise to scientists in the medical device field.

Candidates for the position of **Director, Division of Gastro/Urology and General Use Devices**, must have research and development and/or laboratory experience concerned with modification, application, and evaluation of medical devices, including hemodialyzers and others generally used in the hospital. Candidates for the **Director, Division of Clinical Laboratory Devices**, position must have research and development and/or clinical laboratory experience concerned with design, modification, evaluation and/or use of in vitro diagnostic products and instrumentation with primary concern for diagnostic testing rather than some other area of medical research. Applicants for either position must also have experience which clearly demonstrates that they have the ability to establish and maintain collaborative/cooperative relationships with scientists in other government agencies, industry, and academia; experience which demonstrates the ability to provide leadership and direction to a multidisciplinary staff of Ph.D.-level scientists engaged in the review and evaluation of research data related to medical devices; recognition as an authority in the field of medical devices, as evidenced by publications in scientific journals, requests for consultation, presentation of papers at scientific meetings, offices held in professional societies, and honors/awards received for scientific achievements.

Both positions have permanent Civil Service status. Salaries range from \$34,713 to \$50,113 (GS-14/15), depending upon qualifications. Candidates will be evaluated on the basis of their professional training and demonstrated accomplishments. U.S. citizenship required.

Applicants should submit extensive curriculum vitae or résumé to: **Division of Personnel Management, Room 1442, FDA: Bureau of Medical Devices, 8757 Georgia Avenue, Silver Spring, Maryland 20910.**

*An Equal Opportunity Employer, M/F*

## BIOGEN S.A.

a young company engaged in basic and applied research in the field of molecular biology and microbiology, and with the objective of utilizing the potential of genetic engineering for the production substances of commercial and medical interest in such areas as health care, agriculture and energy, is inviting applications for its *Research Laboratory in Geneva, Switzerland*:

—*Research Manager*, for a person of

- outstanding scientific level in the field of molecular biology and microbiology,
- with proven ability in the coordination and administration of the activities of a research laboratory,
- sense of human relations, as well as capacity for organization, are required.

—*Nucleic Acid Chemist*, with good experience in recent technologies for the synthesis of DNA.

In both cases, salary (including fringe benefits) will be competitive and in accordance with competence and experience. Send curriculum vitae (with a description of previous experience and a list of publications) to BIOGEN Laboratory, 3 Route de Troinex, 1227 Geneva, Switzerland.

### AAAS Memberships and Subscriptions

- Whenever you write us about your membership or subscription, please attach a **Science** address label to ensure prompt service.

- **Mail to:** Membership and Subscription Records, AAAS, 1515 Massachusetts Ave., NW, Washington, D.C. 20005.

- ☐ **Change of Address:** Please provide 6 weeks' notice. Paste an address label from a recent issue in the space provided. Print new address below.

- ☐ **Query:** If you have a question, place your address label here and attach this form to your letter.

- **To join or subscribe:** Mail this form with your payment, mark the appropriate boxes, and print your name and address in the space below. (For renewals, attach label.)

- ☐ **Membership rates** (individual only)
  - ☐ \$34 USA ☐ \$46 Canada, PUAS ☐ \$49 Foreign
  - ☐ \$74 Air-surface delivery via Holland

- ☐ **Subscriber rates**
  - ☐ \$70 USA ☐ \$82 Canada, PUAS ☐ \$85 Foreign
  - ☐ \$110 Air-surface delivery via Holland

**ATTACH  
LABEL  
HERE**

- ☐ Payment enclosed ☐ Bill me later

Name Please print

Address

City State Zip

**MV1**

## POSITIONS OPEN

### STAFF ASSOCIATE Department of Microbiology, Columbia University

Recent or expecting Ph.D. interested in immunology to study myeloma proteins and hybridomas and antibody specificity. Background in carbohydrate and/or protein chemistry desirable. Send curriculum vitae, dates of availability, and names of three references familiar with laboratory skill and creative ability to: Professor Elvin A. Kabat, Department of Microbiology, Columbia University College of Physicians and Surgeons, 701 West 168 Street, New York, N.Y. 10032. An Equal Opportunity/Affirmative Action Employer.

## CALL FOR PAPERS

### CALL FOR PAPERS ON THE RESEARCH SYSTEM FOR 1980's PUBLIC POLICY ISSUES

A \$1000 HONORARIUM will be awarded for original papers discussing public policy implications of prospective changes in institutions which support and perform research in the United States and of possible shifts in relationships among those institutions. Papers will be selected on basis of a brief prospectus submitted before 15 February, and will be presented to a professional science policy seminar in Washington, D.C., then published in seminar proceedings. Support for this activity is provided by NSF. For further information, write or telephone:

Dr. John M. Logsdon  
Graduate Program in Science,  
Technology and Public Policy  
George Washington University  
Washington, D.C. 20052  
Telephone: 202-676-7292

## SYMPOSIUM

### AGING AND HUMAN VISUAL FUNCTION ... human needs, scientific issues, and research opportunities in the coming decades ...

will be held in Washington, D.C., 31 March to 1 April 1980. Topics will include:

- General considerations (demographic aspects—methodological concerns—concepts of aging—disease versus normal change),
- Ocular changes,
- Changes in visual functions,
- Perceptual changes,
- Neurological and circulatory aspects, and
- Human factors (quality of life—environmental design—compensatory approaches).

For further information, contact: Dr. Key Dismukes, Study Director, National Academy of Sciences—National Research Council Committee on Vision, 2101 Constitution Avenue, NW, Washington, D.C. 20418. Telephone: 202-389-6505.

## DOCTORAL PROGRAMS

### Ph.D. IN ENGINEERING AND PUBLIC POLICY

The Department of Engineering and Public Policy at Carnegie-Mellon University offers an interdisciplinary, research-oriented Ph.D. for persons with an undergraduate degree in engineering or the mathematical or physical sciences. Persons with more advanced training or experience are especially welcome. Some financial support is available. Contact:

Engineering and Public Policy  
Carnegie-Mellon University, 30912  
Pittsburgh, Pa. 15213

### UNIQUE DOCTORAL PROGRAM IN BIOLOGY OR SCIENCE EDUCATION

Looking for a unique doctoral program in biology or science education designed to meet individual needs, and to foster discipline competencies and teaching skills? Look into the programs offered at Ball State University. Fellowships available for 1980-1981 academic year. Contact: Dr. Thomas Mertens, Department of Biology, Ball State University, Muncie, Ind. 47306.

## TRAINING PROGRAM

### NEUROBEHAVIORAL SCIENCES POSTDOCTORAL POSITIONS

Applications are invited for an interdisciplinary neuropsychobiological research training program. The program objectives are to facilitate the development of investigators who are familiar with integrated concepts of neurobiology and behavior as well as their individual anatomical, biochemical, pharmacological, physiological, psychological, or clinical specialties. In addition to the intensive research experience in one or more laboratory disciplines, the conceptual basis of neurosciences as it relates to an understanding of the normal and maladaptive development of human neurobiology and behavior is emphasized in a series of seminars and symposia. Deadline for receipt of completed applications is 15 February 1980. For further information and application forms contact: Dr. Everett Ellinwood, Neurobehavioral Sciences Research Training Program, Duke University Medical Center, P.O. Box 3870, Durham, N.C. 27710.

## FELLOWSHIPS

**GRADUATE FELLOWSHIPS IN PHARMACOLOGY** (\$5040 per year) available to all qualified predoctoral students admitted to the Ph.D. Program in Pharmacology at the University of Alabama in Birmingham beginning September 1980. Research opportunities include: autonomic, biochemical, endocrine and cardiovascular pharmacology, carcinogenesis, and environmental toxicology. Apply by 1 March 1980 to: Graduate Committee, Department of Pharmacology, University of Alabama in Birmingham, Birmingham, Alabama 35294. Women and minorities are encouraged to apply.

### QUEEN'S UNIVERSITY DEPARTMENT OF BIOCHEMISTRY KINGSTON, ONTARIO, CANADA POSTDOCTORAL RESEARCH/ TEACHING FELLOWSHIP

A postdoctoral research/teaching fellowship is available in the Department of Biochemistry, Queen's University, Kingston, Ontario. The position carries the rank of lecturer with a starting salary of \$16,000. The initial appointment is for 1 year but is renewable for a second year. The successful applicant will be responsible for teaching an undergraduate laboratory course to science students (nine contact hours per week). Research facilities will be available in association with one of the laboratories within the two major research groups in the department—protein structure/enzymology or nucleic acid structure/molecular biology. Applicants should submit complete curriculum vitae and names of three references. Closing date for applications is 15 February 1980.

Forward applications to:

Dr. John H. Spencer  
Department of Biochemistry  
Queen's University  
Kingston, Ontario, Canada K7L 3N6

### Université du Québec à Montréal Département des Sciences Biologiques POSTDOCTORAL FELLOWSHIP

Applications are invited for postdoctoral fellowship for the study of the ecological control of nuisance aquatic plants.

Candidates are invited from good experimentalists with knowledge of plant ecology and physiology, preferably with experience in aquatic plants. Tenure is 2 years, with appointment as soon as possible. Salary: \$15,000 per annum. Send curriculum vitae to: Dr. F. Sarhan, Département des Sciences Biologiques, Université du Québec à Montréal, Montréal, Québec, Canada H3C 3P8.

### FELLOWSHIPS IN HEALTH COMPUTER SCIENCES

Predoctoral and postprofessional NIH fellowships for training in the application of computers in health fields are available starting 1 July 1980. Predoctoral candidates should have a master's degree in the natural sciences; health professionals should have at least a B.A. or equivalent professional degree. Applicants who are U.S. citizens or permanent residents should send curriculum vitae, transcripts, professional objectives, and three letters of recommendation by 8 February 1980 to: Dr. Lynda Ellis, Box 511 Mayo Building, University of Minnesota Medical School, Minneapolis, Minn. 55455.

An Equal Opportunity/Affirmative Action Employer

## FELLOWSHIPS

**UNIVERSITY OF HAMBURG, GERMANY  
POSTDOCTORAL FELLOWSHIP IN RECOMBINANT DNA RESEARCH** to study replication and expression of chemically synthesized DNA in bacteria. The applicants must have experience in the construction of plasmid or/and phage vectors and cloning of DNA in bacteria. It is of advantage to have performed experiments on the expression of recombinant DNA in bacteria. The position is at least for 2 years. Salary is about DM 45,000 per annum. Applications, together with curriculum vitae, list of publications, and the names of two referees, should be sent to: Professor Dr. H. Köster, Institut für Organische Chemie und Biochemie, Universität Hamburg, Martin-Luther-King-Platz 6, D-2000 Hamburg 13, Federal Republic of Germany.

Seven POSTDOCTORAL FELLOWSHIPS positions are available in the fall of 1980 for research in estuarine lagoon and nearshore continental shelf waters. Research areas include algal systematics and ecology, zooplankton ecology and behavior, invertebrate development, benthic community ecology, sedimentary processes, biogeochemistry, and hydrocarbon pollution. Deadline for application is 7 April 1980. Request information brochure and application packet from: Dr. Marsh J. Youngbluth, Postdoctoral Program, Harbor Branch Institution, Inc., RR 1, Box 196-A, Fort Pierce, Fla. 33450. The Institution admits students of any race, color, age, sex, national and ethnic origin.

## ASSISTANTSHIPS

**GRADUATE ASSISTANTSHIPS IN LIFE SCIENCES** up to \$5300 per year are available for master's (thesis) and Ph.D. candidates with research interests in animal, aquatic, physiological and plant ecology, bacterial and physiological genetics; medical microbiology; comparative, endocrine, and sensory physiology; cellular biology; immunobiology; medical technology; mycology; neurobiology; parasitology; and virology. Research fellowships from NIH- and NSF-supported faculty research grants are available. Contact: Chairperson, Department of Life Sciences, Indiana State University, Terre Haute, Indiana 47809, for applications and information. Indiana State University is an Equal Opportunity/Affirmative Action Employer.

## TRAINEESHIPS

### TRAINEESHIPS

Applications are invited for a POSTDOCTORAL TRAINEESHIP IN REPRODUCTIVE BIOLOGY at the University of California at Davis. These appointments are open to U.S. citizens, U.S. nationals, or permanent residents who have in their possession a permanent visa at the time of appointment. The appointments are funded by the NIH and are subject to the National Research Service Act (Public Law 93-348). The traineeships are organized around research in one of the laboratories of the nine participating faculty members from five departments. For further information, contact: Dr. Allen C. Enders, Department of Human Anatomy, University of California at Davis, School of Medicine, Davis, Calif. 95616. An Equal Opportunity Employer.

**NIH POSTDOCTORAL RESEARCH TRAINEESHIPS IN ENDOCRINOLOGY, METABOLISM, AND DIABETES.** Positions are available under guidance of eight faculty members in six basic and clinical departments. One available immediately; others 1 July 1980. For further information, write or telephone: Dr. D. C. Collins, Emory School of Medicine, 69 Butler Street, SE, Atlanta, Ga. 30303. Telephone: 404-588-3529.

### PREDOCTORAL AND POSTDOCTORAL TRAINING IN MOLECULAR VIROLOGY

Several predoctoral and postdoctoral traineeships are available for qualified applicants through NIH training grants. Preceptors include: Drs. J. C. Bennett, D. H. L. Bishop, R. W. Compans, E. Hunter, E. Lamon, J. Lebowitz, J. Mole, and J. P. Segrest. Research areas include: virus structure, genetics and replication, and viral immunology and membrane biology. Send applications and inquiries to: Dr. R. W. Compans, Department of Microbiology, University of Alabama Medical Center, Birmingham, Alabama 35294. An Affirmative Action/Equal Opportunity Employer.

**WESTERN ILLINOIS  
UNIVERSITY  
Macomb, Illinois 61455  
DEAN OF THE COLLEGE  
OF ARTS AND SCIENCES**

The University invites applications for the position of Dean of the College of Arts and Sciences. The Dean of the College is its chief executive officer and is responsible to the President and to the Provost and Academic Vice President of the University for the administration of that College

**Qualifications:**

- Ph.D. in an arts and sciences field
- full time college or university teaching experience
- scholarly publications
- demonstrated administrative ability

Salary is dependent upon qualifications. The position is open as of July 1, 1980. Applications must be received by February 1, 1980. Send application, including at least three letters of recommendation and curriculum vitae to:

Mary Rengo Murnik, Chairman  
Search Committee  
Department of Biological Sciences  
Western Illinois University  
Macomb, Illinois 61455

*Western Illinois University is an equal  
opportunity affirmative action employer.*

**RESEARCH POSITIONS  
AVAILABLE  
EXPERIMENTAL TERATOLOGIST**

The Laboratory of Reproductive and Developmental Toxicology of the National Institute of Environmental Health Sciences has both postdoctoral and permanent positions available for qualified research scientists. One of the available positions is for a mid-career scientist as Section Leader. The research efforts of this Laboratory are directed toward understanding mechanisms of reproductive and developmental toxicity. Studies from the whole animal to the molecular level are utilized to develop more effective and rapid test procedures to predict toxicity. Environmental factors are assessed for their potential to affect humans.

Interdisciplinary research efforts are currently being expanded. Special emphasis is being placed on understanding the cellular mechanisms of developmental toxicity and application of short-term biochemical or culture test to predict toxicity. The incumbent would be expected to become involved in some of the following studies:

- Short-term tests for teratogenicity including cell aggregation, embryoid body-teratoma, organ cultures, and postimplantation embryos in culture. Attempts are being made to couple these systems with enzymes which biotransform chemicals.
- Various maternal-fetal factors which affect embryotoxicity.
- Cellular and molecular mechanisms involved in teratogenesis.
- Routine teratology.

Salary is competitive and commensurate with education and experience. If interested, please send a curriculum vitae and the names of two references by January 28, 1980, to: Robert L. Dixon, Ph.D., Chief, Laboratory of Reproductive and Developmental Toxicology, NATIONAL INSTITUTES OF HEALTH, Public Health Service, National Institute of Environmental Health Sciences, P.O. Box 12233, Research Triangle Park, NC 27709. Equal Opportunity Employer.

**NATIONAL INSTITUTES OF HEALTH**

**Research Scientist  
Ph.D.  
Pharmaceutical  
Sciences**

Wyeth Laboratories Inc. has an opening in the Exploratory Pharmacy Section for a Ph.D. with a background in physical pharmacy. The responsibilities include conducting studies on medicinal agents of known activity to define their pharmaceutical and biopharmaceutical properties. This position offers an opportunity for exploratory research with encouragement to publish results.

We are located in an attractive Philadelphia Suburb, offering a competitive starting salary, a comprehensive benefits plan, and growth opportunities. Send resume and salary requirements to:

**WYETH LABORATORIES**

P.O. Box 8299  
Phila., PA 19101

Equal opportunity  
employer, M/F/H

**Wyeth**

**ESCUELA DE MEDICINA**

**UNIVERSIDAD AUTONOMA DE CIUDAD JUAREZ**

**PROGRAMA ESPECIAL PARA DOCTORADOS (Ph.D.-M.D.)**

APARTADO POSTAL 231 TELEFONO 2-75-60 CD. JUAREZ, CHIH., MEXICO

The Universidad Autonoma de Ciudad Juarez School of Medicine has established an additional route to the M. D. qualification whereby selected candidates who already hold a Ph. D. degree in biological, physical, or engineering science can enter an accelerated course of study. Social sciences may be considered provided there is a strong background in the physical, chemical, or biological sciences.

The Ph.D.-M.D. Program is now considering applications for the 6th Class which will commence sessions on June 2, 1980. Successful students will complete the M.D., training within 25 months. Social service of 12 months will be required and probably be devoted to research and clinical service.

**LANGUAGE:**

Spanish Language instruction will be given during April to September 15, 1980

**APPLICATIONS:**

The Special Program is not using agencies for registration so, inquiries for the Ph.D.-M.D. Program and requests for standard application forms must be addressed directly to:

ELIAS ABBUD ABBUD, M.D.  
Chairman, Admissions Committee  
LUIS RAUL ABBUD ABBUD, C. P. A.  
Administrator  
Universidad Autonoma de Cd. Juarez  
Apartado Postal 231  
Ciudad Juarez, Chih., MEXICO

The Admissions Committee will not accept applications postmarked after March 31, 1980.

**TUITION AND FEES:**

Tuition is \$6,000 for each of the two academic segments. Spanish Language tuition is \$600. Fees include a registration fee of \$15 and an application fee of \$50. The application fee must accompany each application and is non-refundable. Checks should be made payable to the Universidad Autonoma de Ciudad Juarez School of Medicine Ph.D.-M.D. Program.

# Will there ever be another TV series as worthwhile as Sesame Street?

Yes, thank goodness. It starts Monday, January 14.

Joan Ganz Cooney and her Children's Television Workshop saw a way 10 years ago to teach kids, using the medium kids love best. The happy result was *Sesame Street*.

Does anyone have to be told *Sesame Street* went on to become one of the most successful TV shows ever?

Now Joan Cooney and the Workshop are ready with a new series every bit as significant as *Sesame Street*. It's called

*3-2-1 Contact*. It will be on PBS stations Mondays through Fridays.

*3-2-1 Contact* is about science. If you just said *ugh*, maybe it's because you grew up without a show like this, which is a pity. And a national problem.

Thousands of bright and inquisitive youngsters start their school years with a natural interest in the sciences. But they get turned off before they ever reach junior high school. Thousands of scientists and engineers are lost to America in the process. *3-2-1 Contact* will keep curiosity alive in 8-to 12-year olds by bringing

the same excitement to science and technology that *Sesame Street* brought to the child's first recognition of letters and numbers.

The National Science Foundation, The U.S. Department of Education, and the Corporation for Public Broadcasting all contributed sizable sums to help put *3-2-1 Contact* on the air.

So did we.

Our motives are simple. We invest nearly a million-and-a-half dollars a day in scientific research and development to keep our

Otis elevators, Pratt & Whitney Aircraft jet engines, Carrier air conditioners, Sikorsky helicopters and other high-technology products the best in their fields—and to create new and still better products. The United Technologies \$2 million grant for this show is part of our investment in the future. We're pleased to make it.

And we're happy to invite you and your 8-to 12-year old friends to watch *3-2-1 Contact*. See your local TV listings for the broadcast schedule.



**UNITED  
TECHNOLOGIES**

Hartford, CT 06101