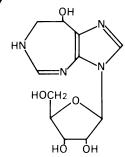
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AAAS Calendar 1515 Massachusetts Avenue, NW Washington, D.C. 20005

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1 DECEMBER 1978

## Personnel Placement

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#### **POSITIONS WANTED**

Biologist/Manager. Ph.D. Six plus years of experience involving aquatic project management, consult-ing, aquaculture, and bioassay as administrator and scientist. Seeks new position. Box 357, SCIENCE.

Immunologist/Experimental Rheumatologist. Ph.D. microbiology. Experience in animal models of ar-thritis and inflammation, endotoxins, host resistance to endotoxins, anti-inflammatory agents, and aging research. Postdoctoral training. Publications. Seeks research, teaching, or industrial position. Box 370, SCIENCE. X

Lipid Biochemist. Ph.D. with active and funded research program, extensive research experience in lipid enzymology, purification of lipids and lipid car-riers, 20 plus publications; seeks industry or institute research position. Box 366, SCIENCE. 12/1, 8

Ph.D. Neurophysiologist/Electrophysiologist with experience in histology for light and electron micros-copy and tissue culture of neurons. Desires graduate and/or undergraduate teaching position with oppor-tunities for research and development of student re-search programs. Salary and rank negotiable. Box 361, SCIENCE. X

Ph.D. Pharmacologist, Pharmacist. Experienced in animal pharmacology and toxicology, clinical drug investigations, pharmacy, regulatory compliance, biomedical writing, professional services, NIH grants and contracts, and teaching. Box 367, SCI-ENCE. X

Research Assistant. M.D. 1970. Surgical experience with research experience in biochemistry, physiolo-gy, pathology, and electron microscopy work. Seeks a research assistant position. Box 362, SCIENCE. x

Scientific Photographer. Ten years of still photogra-phy experience at large university. Good biological background includes master's degree. Especially in-terested in biological and agricultural fields. Box 350, SCIENCE. 12/1, 15

#### **POSITIONS WANTED**

Ph.D., M.V.Sc., M.Sc. (Pharmacology), D.V.M. (Gold Medalist). Published 35 papers, three review articles, 12 abstracts in the field of autonomic-, auto-coid-, smooth muscle-, immunopharmacology. Pres-ently visiting professor at the University of Montre-al, Canada. Looking for a suitable faculty (teaching/ research) position. Available 1 June 1979. Salary ne-gotiable. Box 369, SCIENCE. X

Protein Chemist/Immunochemist, Ph.D. 1968, Expertise in coagulation, fibrinolysis, kinine, fibrin-ogen structure. Versatile experience on isolation, purification, chemical analysis by modern biochemi-cal and immunological techniques including radioim-munoassay. Will relocate. Box 364, SCIENCE. X

Synthetic Organic Chemist. Ph.D. 1971. Five years of industrial experience in controlled drug and pesti-cide release via microencapsulation and films. Seeks industry, government, or academia. Box 359, SCI-ENCE.

Systems Ecologist. Recent Ph.D. Teaching and re-search experience at major universities. Strong pub-lishing record in aquatic, wetland, and systems ecol-ogy. Seeking research/teaching relocation. Box 365, SCIENCE. X

Technician. Ph.D. with 4 years of experience seeks laboratory technician job in mycology, plant taxonomy, or ecology. Box 368, SCIENCE. X

Vertebrate Paleontologist. Ph.D. Eight years as de-partment head in major African museum. Pub-lications. Teaching experience. Seeks museum/aca-demic position. Box 363, SCIENCE. 12/1, 8 12/1,8

#### **POSITIONS OPEN**

ANATOMISTS (two). Assistant professor level. Ph.D. or M.D. with postdoctoral research experi-ence who shows evidence of developing an active research program. Research area open but some research program. Research area open but some preference given to developmental and cell biology, pulmonary and reproductive biology. Teaching re-sponsibility confined to one semester. New Jersey Medical School has moved to new health science campus and the department has new facilities with well-equipped laboratories. Salaries are highly com-petitive. One position available in the spring. Appli-cations from women and minority conditates are an petitive. One position available in the spring. Appli-cations from women and minority candidates are en-couraged. Interested individuals should submit cur-riculum vitae before 15 January 1979 to: Dr. Anthony V. Boccabella, Chairman, Department of Anatomy, College of Medicine and Dentistry of New Jersey, New Jersey Medical School, 100 Bergen Street, Newark, N.J. 07103. Affirmative Action/Equal Opportunity Employer.

#### TWO ANATOMY POSITIONS

Associate and assistant professors with research in-Associate and assistant processors with research in-terest in reproductive biology or cell biology to teach in gross anatomy or histology/embryology. Send curriculum vitae, publication list, description of re-search interests, and names and addresses of three references to: Dr. Harold Brody, Department of Ana-tomical Sciences, Schools of Medicine and Dentistry, State University of New York at Buffalo, 317 Farber Hall, Buffalo, New York 14214.

An Equal Opportunity/Affirmative Action Employer

ASSISTANT. A postdoctoral position is available immediately to study the control of plasmid gene ex-pression. Applicants must have a Ph.D. in biochem-istry and several years of experience in enzymology, microbiology, and in the handling of nucleic acids. Salary: \$13,500. Send curriculum vitae and two let-ters of reference to: Dr. D. Dubnau, Public Health Research Institute, 455 First Avenue, New York, N.Y. 10016 10016.

#### An Equal Opportunity Employer

BIOLOGY. ASSISTANT PROFESSOR. Offer courses in genetics, cell biology, and introductory biology, 12 semester hours. Ph.D. required; consid-eration given to candidates in final stages of dis-sertation; college teaching experience desired; broad biological background. \$12,000 to \$14,500. Send ré-sumé and three letters of reference to: Dr. Stuart Goff, Assistant Dean of Sciences, Keene State College, Keene, N.H. 03431. Deadline: 8 January 1979. Af-firmative Action/Equal Opportunity Employer.

#### POSITIONS OPEN

## AQUATIC ECOLOGIST FOR ENVIRONMENTAL STUDIES

Ph.D. or equivalent in ability and experience, to su-pervise ongoing study of the effects of a coastal pow-er generating station on mysid shrimps. Duties in-clude overseeing five technicians in field collections and laboratory work, planning research, analyzing data, and writing technical reports and scientific pa-pers. Experience with plankton or crustacean popu-lation biology desirable. Salary from \$20,000 to \$24,000 plus fringe benefits. Send résumé and names of three referees to: of three referees to:

Marine Ecological Consultants of Southern California 533 Stevens Avenue, Suite D-57 Solana Beach, California 92075

University of South Carolina seeks Ph.D. ARCHE-OLOGIST for associate director, Institute of Arche-ology and Anthropology. Minimum of 5 years of research experience in North American archeology and 3 years of administrative experience. Position is three-fourths administrative and one-half research in a full-time research facility conducting contract ar-cheology, environmental impact studies, research grants, and statewide inventory in prehistoric, his-toric, and underwater programs. Deals with public, federal, state, and local agencies and is a part of uni-versity community. Hard money university position. An Equal Opportunity/Affirmative Action Employer. Salary competitive. Send application and curriculum vitae to: Robert L. Stephenson, Institute of Archeolo-gy and Anthropology, University of South Carolina, Columbia, South Carolina 29208.

ASSISTANT PROFESSOR, Ph.D. or M.D., with experience in electrophysiological and anatomical research in the central nervous system, to collaborate with group conducting electrophysiological and clin-ical research in the physiology and physiopathology of the vestibular system. ASSISTANT PROFESSOR, Ph.D. or M.D., with ex-

ASSISTANT PROFESSOR, Ph.D. or M.D., with ex-perience in sensory physiology, to collaborate with research group working on the physiology and anat-omy of the inner ear and related sensory organs. Send curriculum vitae to: Vicente Honrubia, M.D., Division of Head and Neck Surgery, University of Cal-ifornia at Los Angeles, Los Angeles, Calif. 90024. An Equal Opportunity/Affirmative Action Employer.

#### ASSISTANT PROFESSOR-BIOLOGY/HEALTH

Damavand College, a college for women in Tehran, Iran, has a possible opening in introductory bi-ology and health, beginning 23 August 1979. Instruction is in English. Teaching experience in health is preferred. Please send curriculum vitae and three recommendations to: **Dr. John F. Moore, Chairman**, Department of Biology, Damavand College, P.O. Box 1326, Tehran, Iran.

## ASSISTANT PROFESSOR OF GENETICS WASHINGTON STATE UNIVERSITY

Tenure-track position for geneticist with potential to develop an outstanding research program and with interest in teaching at the graduate level and in an introductory genetics course. Applicants with re-search in cellular or molecular plant biology includ-ing cell culture are particularly sought, but those in other areas of research will also be seriously consid-ered ered.

ered. Screening of applicants will begin on 15 January 1979. Curriculum vitae, description of research plans, and three letters of reference should be sent to: Dr. Andris Kleinhofs, Search Committee Chair-man, Genetics Program, Washington State Universi-ty, Pullman, Wash. 99164. The University is an Equal Opportunity/Affir-mative Action Employer. Applications from mem-bers of minority groups, women, and/or handi-capped persons are encouraged.

### NORTHWESTERN UNIVERSITY Department of Geological Sciences

A new, regular assistant professorship is available September 1979. All applicants with strong quan-titative backgrounds in the geological sciences should forward, as soon as possible, their curricu-lum vitae, list of publications, and a statement of re-search interests and goals to: E. H. Timothy Whitten, Chairman Department of Geological Sciences Northwestern University Evanston, Illinois 60201 Northwestern University is an Equal Opportunity/ Affirmative Action Employer.

The SECTION OF CELL BIOLOGY, Yale University Medical School, invites applications for two positions of ASSISTANT PROFESSOR available on 1 July 1979 or earlier. One of these positions could be converted to a position of associate professor (without tenure).

Candidates with research interests in the structure, biochemistry, and function of cellular mem-branes, in membrane interactions in exocytosis and endocytosis, in memorane interactions in exocytosis and endocytosis, in memorane biogenesis, or in the mor-phology and chemistry of cell surfaces will be fa-vored, but outstanding candidates with other inter-ests will be also considered.

ests will be also considered. The new assistant professors will be expected to participate in the teaching of cell biology-histology to medical students, especially in the teaching of a histology laboratory to small groups of students. Previous experience in laboratory teaching is not re-quired, but would be welcome. Participation in the teaching of graduate students is also expected. For the possible position of associate professor an adethe possible position of associate professor, an adequate background in cell biology-histology is required.

Those interested should send applications to: Dr. G. E. Palade, Section of Cell Biology, Yale University Medical School, 333 Cedar Street, New Haven, Conn. 06510, before 15 February 1979. Curriculum vitae, a list of publications, a summary of current research interests, and the names of three references should accompany the application. Yale University is an Equal Opportunity/Affir-mative Action Employer.

Applications are invited for appointment as AS-SISTANT PROFESSOR in the Environmental Engi-neering Program. Specialization in biological or physical processes in water and wastewater treat-ment is desired. Duties will include teaching in both graduate and undergraduate courses as well as de-velopment of an active program of research and scholarship. Send curriculum vitae and list of three references to: Dr. Josenb S. Devinny. Search Comscholarship. Send curriculum Vitae and list of three references to: Dr. Joseph S. Devinny, Search Com-mittee, BHE 213, University of Southern California (USC), University Park, Los Angeles, Calif. 90007. USC is an Equal Opportunity/Affirmative Action Employer.

ASSISTANT PROFESSOR OF HEMATOLO-GY/ONCOLOGY and ASSISTANT PROFES-SOR OF ENDOCRINOLOGY/METABOLISM The Department of Pediatrics, University of Massachusetts Medical School, is seeking candidates at the assistant professor level Qualifications include strong research inter-ests with capabilities in teaching and patient care, and with Board-certification in pediatrics and subspecialty Boards where applicable Send curriculum vitae and names of three ref-erences to: James B. Hanshaw, M.D., De-partment of Pediatrics, University of Massachusetts Medical School, 55 Lake Ave-nue North, Worchester, Massachusetts 01605. An Equal Opportunity/Affirmative Action Employer.

#### ASSISTANT PROFESSOR, IMMUNOLOGY

Immunologist/immunogeneticist required at assistant Immunologist/immunogeneticist required at assistant professor (and postdoctoral fellow) level to join oth-ers in a medical school immunology group. Special research strengths of this group are a good HLA lab-oratory (international workshop standard), com-plement allotyping, collaborative relationships with the blood bank, biochemical genetics, cytogenetics and with clinical investigators, plus the availability of large families. Our group is also involved in teach-ing, in a clinical immunology diagnostic laboratory, and with a transplantation program. For more inforand with a transplantation program. For more infor-mation please write, preferably sending detailed cur-Handbard Charles and Construction of the second construction o

ASSISTANT PROFESSOR-WILDLIFE ECOL ASSISTANT PROFESSOR—WILDLIFE ECOL-OGY. Tenure-track, 12-month position starting 1 July 1979. Research, advising, teaching wildlife con-servation, wildlife habitat management; 75 percent teaching, 25 percent research. Requires Ph.D. in wildlife or related ecological area. Prefer person in-terested in mammalian research, quantitative ecol-ogy, and habitat management. Send inquiries to: J. J. Dinsmore, Department of Animal Ecology, Iowa State University, Ames, Iowa 50011. An Affirmative Action/Equal Opportunity Employer.

1 DECEMBER 1978

#### POSITIONS OPEN

#### ASSOCIATE SCIENTIST

D.V.M. positions available for tumor immunologist with virology or immunochemistry background. Ap-plicants must have several years of experience in re-search of immune mechanism in laboratory animals. Salary range: \$12,000 to \$15,000. Submit replies to: Box 373, SCIENCE

BIOCHEMIST—To direct lipid analysis laboratory, teach lipid metabolism, and conduct research in lipid transport and atherosclerosis. This is a full-time, tenure-possibility position. Assistant professor with postdoctoral experience preferred, but extensive ex-perience in the field would qualify for instructorship. perience in the field would qualify for instructorship. Salary commensurate with education and experi-ence. Send curriculum vitae and letters of recom-mendation to: Dr. Peter Kuo, Department of Medi-cine, College of Medicine and Dentistry of New Jer-sey, Rutgers Medical School, P.O. Box 101, Piscataway, N.J. 08854. Equal Opportunity/Affir-mative Action Employer, M/F.

The Department of Biochemistry, Wayne State University School of Medicine, Detroit, Mich. 48201, invites applications for a FACULTY POSITION. The successful applicant should be experienced in pro-tein crystallography and will be expected to teach graduate and medical students. Rank will be at the qualifications. Please send curriculum vitae and names of three references to: Dr. D. Tsernoglou at the above address. The University is an Affirmative Action Employer.

#### BIOCHEMIST

Position available in our research products division for a Ph.D. with extensive experience in enzyme purification and nucleic acids chemistry. Send reply with curriculum vitae to:

S. Rabbani ENZO BIOCHEM, INC. 300 Park Avenue South New York, N.Y. 10010

#### BIOCHEMIST

Postdoctoral positions available immediately for studies on the primary structures of isoferritins from normal and malignant cells and on rate limiting as-pects of their biosynthesis. Send résumé to: Dr. James W. Drysdale, Department of Biochemistry and Pharmacology, Tufts University School of Medicine, 136 Harrison Ayenue, Boston, Mass. 02111. Tufts is an Affirmative Action Employer

### SCHOOL OF NATURAL SCIENCES AND MATHEMATICS

BIOLOGY ASSISTANT/ASSOCIATE PROFESSOR, tenure-track, for August 1979. Ph.D. in zoology and teaching experience at college level required. Application deadline: 1 January 1979.

Application procedure – apply to: Dean of the School of Natural Sciences and Mathematics, Slippery Rock State College, Slippery Rock, Pa. 16057. The position requires submission of a résumé, transcript, and three letters of recommendation to be received by the application deadline indicated. Slippery Rock is an Affirmative Action/Equal Opportunity Employer.

#### **CELL BIOLOGIST**

The Department of Biology at the University of Cali-fornia at Riverside has a faculty position at the level of assistant professor available 1 September 1979. Primary teaching responsibilities will be in the area of cell biology both at the undergraduate and gradu-ate levels. Candidates must have postdoctoral expe-rience and show evidence of ability to initiate and sustain a productive high quelty measure herearcem rience and show evidence of ability to initiate and sustain a productive high quality research program. The department is especially interested in can-didates with research experience in biochemical, ge-netic and/or electron microscopical approaches to the study of cell ultrastructure, morphogenesis, cell surfaces, and cell interactions. Applicants should provide curriculum vitae, reprints, and a brief de-scription of research and teaching interests. Addi-tionally, a local three forther to head discription of research and teaching interests. Addi-tionally, at least three letters of support should be sent. The University of California is an Equal Op-portunity/Affirmative Action Employer. Applications are invited from all qualified individuals, especially women and members of minority groups. Send ap-relications to: plications to:

W. L. Belser Chairman of the Search Committee Department of Biology University of California Riverside, Calif. 92521

#### POSITIONS OPEN

**BIOLOGY—BOTANY.** 1 September 1979. Assistant professor (preferred) or instructor; doctorate for as-sistant professor; consider ABD instructor level. Specialization: botany (field botany, plant anatomy, Specialization: botany (held botany, plant anatomy, general botany, ecology); also general introductory courses. Seek flexibility in teaching areas and ap-proach in undergraduate, innovative curriculum in liberal arts setting. Expected salary: \$13,000 to \$13,500; 9 months; specific dependent upon qualifi-cations and doctorate. College is small, coeduca-tional, 4-year, with approximately 1300 students. Department has five full-time members, plus one balf time avaragine 80 to 100 undorgraduate meiors. half-time, averaging 80 to 100 undergraduate majors. Contact: Dr. Inez Hull, Chairperson, Biology Depart-ment, Whittier College, Whittier, California 90608. An Equal Opportunity Employer.

The Emergency Care Research Institute (ECRI) has positions for **BIOMEDICAL ENGINEERS** as **HEALTH DEVICES** and risk management project  $\infty$ officer

- fficers.
  HEALTH DEVICES project officers test and evaluate medical devices and systems, investi-gate equipment hazard, and provide consulta-tion to the health care community. We publish a monthly journal, HEALTH DEVICES, which is used by more than 2500 hospitals.
  Risk management project officers develop and implement our Technology Risk Assessment Program to which over 80 health care facilities currently subscribe.

Applicants should have a bachelor's or master's engineering degree and be able to express them-selves effectively and concisely both verbally and in writing. Experience in a health care facility is desirable

For more information, contact: Harvey Kostinsky at ECRI, telephone: 215-825-6000.

## BIOMEDICAL ENGINEER/BIOPHYSICIST/ PHYSIOLOGIST

Ph.D. with postdoctoral and independent research experience required to investigate collaboratively ei-ther the microcirculation or physical regulators of the cells in the connective tissues supporting teeth. Academic rank and salary consistent with experi-ence. Enquiries to: Dr. A. H. Melcher, MRC Group in Periodontal Physiology, 4384 Medical Sciences Building, University of Toronto, Toronto, Ontario, Canada M5S 148.

BIOSTATISTICIAN—Epidemiology Program, Can-cer Center of Hawaii, beginning 1 February 1979. Applicant must have Ph.D. with at least 3 years of experience in related postdoctoral biomedical re-search. Some experience in computer programming and data file manipulations is desirable. Responsibil-ities include initiation of research activities, as well as collaboration with epidemiologists and clinicians in their research work. An interest in extending ap-plied statistical methodologies in epidemiological cancer research is desirable. Salary negotiable. Send curriculum vitae and three references to: Chairman, Search Committee, Epidemiology Program, Cancer Center of Hawaii, Biomedical Sciences, D-102, Hono-lulu, Hawaii 96822. The University of Hawaii is an Equal Opportunity/Affirmative Action Employer. BIOSTATISTICIAN-Epidemiology Program, Can-

#### CHAIRPERSON IN BIOLOGY

Rank open, tenure-track, to begin 1 July or 1 Sep-tember 1979. Chairperson will be expected to lead the department toward increased emphasis in molecular, cellular, and developmental biology. Teaching competence in animal physiology and one of the fol-lowing: developmental biology, cell biology, or ge-netics. In addition, the chairperson will be expected netics. In addition, the chairperson will be expected to develop an active program of research involving students. Established record of quality in teaching and research and potential for administrative lead-ership essential. Send résumé, transcripts, and three letters of recommendation by 1 February 1979 to: Henry Woodard, Chairman, Search Committee, Be-loit College, Beloit, Wisconsin 53511. Beloit College is an Equal Opportunity/Title IX Employer, M/F.

Position open. Experienced ELECTRON MICROS-COPY TECHNICIAN. Must have training and expe-rience to be capable of administering departmental EM laboratory and of training of other technical per-sonnel and graduate students in EM technology. Salary will be commensurate with qualifications. Con-tact: Earl G. Hamel, Jr., Department of Anatomy, University of Alabama in Birmingham, University Station, Birmingham, Alabama 35294. The Universi-ty of Alabama in Birmingham is an Equal Opportu-nity/Affirmative Action Employer.

#### CHAIRPERSON Department of Biological Sciences North Texas State University

Nominations and applications are invited for chairperson of a 23-member department within a growing university of 17,000 students, adjacent to the Dallasuniversity of 17,000 students, adjacent to the Dallas-Fort Worth Metroplex. Initial appointment is for 4 years, but may be renewed for one additional 4-year term. Candidates should provide evidence of ongo-ing scholarly achievements in teaching and research, and have the ability to provide administrative lead-ership in developing and managing department and interdisciplinary programs. The area of research ex-pertise is open and rank and salary are negotiable. Send curriculum vitae and five letters of support be-fore 1 January 1979 to:

Dr. David R. Redden, Chairman, Search Committee Department of Biological Sciences North Texas State University Denton, Texas 76203

An Equal Opportunity/Affirmative Action Employer

## CHAIRMAN OF DEPARTMENT OF MATHEMATICS AND STATISTICS STEPHEN F. AUSTIN STATE UNIVERSITY

Applications invited for position of chairman of De-partment of Mathematics and Statistics. Stephen F. Austin is a state-supported, multidisciplinary univer-Austin is a state-supported, multidisciplinary univer-sity enrolling approximately 10,500 students. Lo-cated in Nacogdoches, Texas, a town of approxi-mately 30,000, Stephen F. Austin offers a wide range of bachelor's and master's degrees and one doctorate

Department has faculty of 21, 12 doctorate; it offers B.S. and M.S. degrees in pure mathematics, mathe-matics teaching, and statistics. Chairman retiring af-ter extended period of service.

Qualifications include: Earned doctorate.

- 2) Proven leadership and administrative capability, and
- 3) Demonstrated teaching excellence, research accomplishments, and other qualifications for appointment at a senior rank.

Salary: competitive, 12-month appointment. Duties begin in fall semester of 1979. Letter of application, résumé, three letters of recommendation, and place-ment credentials postmarked by 15 February 1979.

# Dr. R. G. Dean Chairman of Search Committee Department of Mathematics and Statistics Stephen F. Austin State University Nacogdoches, Texas 75962

An Affirmative Action/Equal Opportunity Employer

University of Texas Southwestern Medical School (Dallas) invites application for CHAIRPERSON, De-partment of Pharmacology. The department is re-sponsible for teaching medical and graduate students general and molecular pharmacology and for con-ducting research. Candidates are expected to have demonstrated investigative excellence recognized at a national level, academic leadership, and a high de-oree of administrative ability. gree of administrative ability.

Send application, including curriculum vitae and bibiography, to: Search Committee, Department of Microbiology, Southwestern Medical School, Dallas, Texas 75235. The University of Texas is an Equal Opportunity/Affirmative Action Employer.

## DIRECTOR OF NONPROFIT ORGANIZATION

The trustees of the Bureau of Social Sci-ence Research, a 30-year-old nonprofit so-cial science research organization in Wash-ington, D.C., invite applications for director. Desired qualifications include advanced degree in one of the behavioral sciences; a dis-tinguished record of research contributions; familiarity with academic and nonacademic familiarity with academic and nonacademic institutions and agencies involved in social research, private and public funding agencies, social science associations, and policy bodies; ability to plan and promote re-search programs; and experience in the ad-ministration of social science research oper-ations. ations.

Atlons. Please send applications and nominations by 28 February 1979 to: Search Committee, Bureau of Social Science Research, 1990 M Street, NW, Washington, D.C. 20036. An Equal Opportunity/Affirmative Action Employer

#### POSITIONS OPEN

#### LINCOLN COLLEGE New Zealand CHAIR IN ENTOMOLOGY (Agricultural Zoology)

The Council of Lincoln College, University Col-lege of Agriculture, invites applications for the chair in entomology, resulting from the impending retire-ment of Professor R. A. Harrison.

Applicants should hold an advanced degree in science or agricultural science and have an established record of research and/or teaching in some branch of agricultural zoology

The successful applicant will be appointed as head of department and will be responsible to the college principal for the administration of the department.

The appointment will be made within the existing range of professorial salaries, NZ\$23,012 to NZ\$29,188 per annum, the commencing salary being determined by the College Council.

Expenses of appointment reimbursed up to speci-fied limits. New Zealand government superannuation is available.

Further details and general conditions of appoint-ment are obtainable from: Secretary General, Associ-ation of Commonwealth Universities (Appointments), 36 Gordon Square, London WCIH OPF, England, or from the Registrar of the University.

Applications close on 15 January 1979.

## UNIVERSITY OF GLASGOW CHAIR OF GENETICS

Applications are invited for the chair of genetics which will become vacant on 1 March 1979.

Further particulars may be had from: Sec-retary of the University Court, Room 18, The University of Glasgow, Glasgow, G12 8QQ, Scotland, with whom applications (15 copies) giving the names and addresses of three referees, should be lodged on or before 15 De-cember 1978.

In reply please quote Ref. No. 4268CS

CLINICAL BIOCHEMIST, M.D.-Ph.D., or chemical pathologist, to direct biochemistry laboratories ical pathologist, to direct biochemistry laboratories in a modern, progressive, university-affiliated de-partment of pathology and laboratory medicine. There are two or three additional doctoral positions in biochemistry, one M.S., and approximately 30 medical technicians. There is a simultaneous faculty appointment at Northwestern University. Teaching opportunities include residents in pathology and lab-oratory medicine, medical, and medical technician students. Effective liaison with the clinical staff is verv important. Previous academic and administravery important. Previous academic and administra-tive experience is required. Interested candidates please send curriculum vitae, a statement of personplease send curriculum vitae, a statement of person-al goals, and names of three references to: H. Friede-rici, M.D., Department of Pathology and Laboratory Medicine, Evanston Hospital, 2650 Ridge Avenue, Evanston, Ill. 60201. Equal Opportunity/Affirmative Action Employer.

## DIRECTOR, LOS ANGELES COUNTY NATURAL HISTORY MUSEUM

Applications are invited for the position of direc-tor, Los Angeles County Natural History Museum, which includes the satellite Page Museum of La Brea Discoveries.

Candidates should have a record of research or scholarly achievement, preferably a Ph.D. degree in either of a field of natural science (life or earth sci-ences) or history. Administrative experience in a museum or a similar institution is required. Ability

museum or a similar institution is required. Ability to secure endowments and grants is expected. The candidate must work with diverse governances and deal effectively with the public. The director is responsible to the museum Board of Governors, a private support Foundation Board of Trustees, and the elected Board of Supervisors of Los Angeles County. The director supervises 200 plus full-time employees including 43 curatorial per-conned. Principal divisions in the muceum are earth sonnel. Principal divisions in the museum are earth sciences, life sciences, history, education, and exhibitions

Salary will depend upon experience and qualifications.

tions. Send inquiries or applications (with two copies of résumé) to: Ed N. Harrison, Chairman of the Search Committee and President of the Board of Governors, Los Angeles County Natural History Museum, 900 Exposition Boulevard, Los Angeles, California 90007. The Museum is an Equal Opportunity/Affirmative Action Employer.

#### POSITIONS OPEN

## DEAN, NATURAL SCIENCES AND MATHEMATICS UNIVERSITY OF MASSACHUSETTS AMHERST

AMHERST Academic, administrative, and fiscal responsibility for Departments of Biochemistry, Botany, Chemis-try, Computer and Information Science, Geology/ Geography, Mathematics/Statistics, Microbiology, Physics/Astronomy, Polymer Science and Engineer-ing, and Zoology. Departmental spokesman to chan-cellor and vice-chancellor for academic affairs, Am-herst campus. Established scientist or mathemati-cian. Administrative experience, funding-source knowledge, concern for instructional and research excellence, fiscal and personnel decisiveness, sensi-tivity to changing educational scene. Academic ap-pointment in appropriate department. The university is state-supported, with 18,000 undergraduates and 5,000 graduates. Nominations and/or applications of qualified candidates with curriculum vitae and three references by 1 January 1979 to: Chairman, Search Quanted candidates with conneution what and three references by 1 January 1979 to: Chairman, Search Committee, c/o Vice-Chancellor for Academic Af-fairs, 362 Whitmore Building, University of Massa-chusetts, Amherst, Mass. 01003. An Affirmative Ac-tion/Equal Opportunity Employer.

#### DEAN, ALLIED HEALTH SCIENCES UNIVERSITY OF HEALTH SCIENCES/ THE CHICAGO MEDICAL SCHOOL

Dean sought for School of Related Health Sciences Dean sought for School of Related Health Sciences in small, private university devoted to educating health professionals; master's programs in physical therapy, immunohematology, and health services administration; baccalaureate programs in physical therapy, medical technology, and radiological sci-ences. Qualifications: doctorate, experience in allied ences. Qualifications: doctorate, experience in allied health administration, teaching, and curriculum de-velopment. Send résumé by 1 February 1979, to: Jean M. Alberti, Ph.D., Chairperson, Dean's Search Committee, University of Health Sciences/The Chi-cago Medical School, North Chicago VA Hospital, Building 51, North Chicago, Illinois 60064. Affir-mative Action/Equal Opportunity Employer.

## DEAN/DIRECTOR THE OHIO STATE UNIVERSITY, MANSFIELD CAMPUS

The dean/director gives leadership to developing, promoting, and supporting the academin to developing, promoting, and supporting the academic programs and research opportunities, is responsible for pre-paring and administering the Ohio State University (OSU) budgets for the Mansfield Campus, and serves as the principal liaison representative of the university and the North Central Technical College which is located on the same campus. The appointee must have an earned doctorate, must receive an ap-pointement to a senior faculty rank and must have which is located on the same campus. The appointee must have an earned doctorate, must receive an ap-pointement to a senior faculty rank, and must have appropriate prior administrative experience. Teach-ing experience and evidence of scholarship are strongly preferred. The OSU Mansfield Campus, one of four regional campuses of The Ohio State University, is located in Mansfield, Ohio, a city of approximately 57,000 (15 percent minority) popu-lation. The attractive 600-acre campus has 42 full-time faculty, approximately 1100 regular students, and a \$12 million physical plant. Academic offerings include 2-year programs in most disciplines, bac-calaureate degree and graduate programs in elemen-tary education, and many courses for nontraditional students. Appointment on a 12-month basis begins on or before 1 July 1979. Salary is competitive and commensurate with qualifications. Applications with curriculum vitae and three letters of reference must be received on or before 29 December 1978. Send to: John T. Mount, Vice President for Regional Campus-es, The Ohio State University, 1050 Carmack Road, Columbus, Ohio 43210. An Equal Opportunity/Af-firmative Action Employer.

DIRECTOR, VISIBILITY LABORATORY AND PROFESSOR, SCRIPPS INSTITUTION OF OCEANOGRAPHY. Senior scientist with experi-ence in environmental optics, remote sensing, and image processing to lead extramurally funded re-search division employing 30 and to teach graduate courses related to the marine environment. Split ap-pointment: two-thirds faculty, one-third research. Salary to approximately \$40,000 for 11 months, de-pending on qualifications. Send curriculum vitae by Salary to approximately \$40,000 tor 11 months, de-pending on qualifications. Send curriculum vitae by 30 December to: Professor W. H. Munk, A-025, Visi-bility Laboratory Search Committee, Institute of Geophysics and Planetary Physics, University of Cali-fornia, San Diego, Calif. 92093. The University of California, San Diego, is an Equal Opportunity/ Affirmative Action Employer.

### DEAN OF ADVANCED PROFESSIONAL STUDIES AND RESEARCH SEARCH REOPENED

This is a new position available 1 July 1979 or ear-lier. Initial efforts are to be directed toward developlier. Initial efforts are to be directed toward develop-ment of a major center for research, scholarship, professional studies, and public service. The dean will direct the center and coordinate research and related activities. The dean will maintain research involvement, assist personnel in preparing proposals for external funding, and be responsible for manage-ment of grants and contracts. Qualifications include earned doctorate, administrative experience with grant management, proven research ability, and demonstrated effectiveness in obtaining grants. The salary range will be \$32,000 to \$37,000. salary range will be \$32,000 to \$37,000

Send application, curriculum vitae, and three writ-ten recommendations before 8 January 1979 to:

## **Dr. Gordon Thomas** Search Committee Eastern New Mexico University Portales, New Mexico 88130

An Equal Opportunity/Affirmative Action Employed

DIRECTOR, ADDICTION STUDIES PROGRAM. Administrative and teaching-research position, asso-ciate/full professor level. Addiction studies is a 2-year, multiract course of study leading to M.S. Ph.D./equivalent required with demonstrated com-petence in administration, clinical experience, repetence in administration, clinical experience, re-search expertise, grantsmanship, and teaching ex-cellence at graduate level. Send curriculum vitae, representative publications, names of three refer-ences, and cover letter stating why this program would be of interest to: Chair, Search Committee, Addiction Studies, Health Sciences Center, University of Arizona, Tucson, Arizona 85724. An Equal Oppor-tunity/Affirmative Action/TitleIX/Section 504 Employer.

## ECONOMIC GEOLOGY, CRYSTAL CHEMISTRY, CHEMICAL GEOLOGY THE JOHNS HOPKINS UNIVERSITY

The Department of Earth and Planetary Sciences of Johns Hopkins University anticipates making a nontenured appointment in economic geology, crystal chemistry, or chemical geology, starting Sep-tember 1979. Applicants should have a demon-strated capacity for innovative research in one of these areas and an ability to relate his/her specialty to geological problems. Duties will include graduate and undergraduate teaching and supervision of graduate research. Applications should include a complete résumé and the names of at least two refer-ees and should be sent to: Dr. George W. Fisher Chairman, Department of Earth and Planetary Sci-ences, Johns Hopkins University, Baltimore, Md. 21218. The Department of Earth and Planetary Sciences ences, 21218.

Johns Hopkins is an Equal Opportunity Employer

## GEOPHYSICAL FLUID MECHANICS THE JOHNS HOPKINS UNIVERSITY

The Department of Earth and Planetary Sciences at Johns Hopkins University anticipates making a nontenured faculty appointment in the area of atmo-spheric or oceanic dynamics, starting September 1979. Candidates should have a demonstrated capacity for innovative research, an interest in a wide range of areas of geophysical fluid mechanics, and an ability to teach at both graduate and undergraduate levels. Applications should include a complete ré-sumé, list of publications, and names of at least two referees, and should be sent to: Dr. George W. Fish-er, Chairman, Department of Earth and Planetary The Johns Hopkins University, Baltimore Md. 21218

Johns Hopkins is an Equal Opportunity Employer

Applications are invited for a FACULTY POSITION in occupational therapy—physical dysfunction com-ponent—to begin 1 July 1979. Preference will be giv-en to Ph.D. applicants having an interest in collabo-rating with occupational therapists to develop and conduct research related to physical disabilities. Re-search opportunities in the medical school's ex-cellent facilities are available. Appointee will be ex-pected, in addition, to develop and teach graduate courses and act as M.S. theses adviser. Send cur-riculum vitae, reprints, a statement of research plans, and three references to: Dr. Ruthan Kannegie ter, Program in Occupational Therapy, Washington University, 4567 Scott Avenue, St. Louis, Missouri 63110. An Equal Opportunity/Affirmative Action Employer. Applications are invited for a FACULTY POSITION

1 DECEMBER 1978

#### POSITIONS OPEN

#### SIMON FRASER UNIVERSITY BRITISH COLUMBIA, CANADA DEPARTMENT OF BIOLOGICAL SCIENCES ENTOMOLOGIST

The Department of Biological Sciences invites applications for a tenure-track position in entomology. The successful applicant will be expected to develop a strong research programme and to participate in the teaching programme at both the undergraduate and graduate level including courses in the master of and graduate level including courses in the master of pest management programme. Candidate must have a Ph.D. degree in entomology or related subjects; preference may be given to individuals with teaching and research experience in agricultural pest manage-ment. The position is available, subject to budgetary constraints, from 1 September 1979. The initial ap-pointment is for a period of 2 years, renewable. Sal-ery will decard on experience the base solary for ary will depend on experience; the base salary for the assistant professor rank currently is \$18,604 per anniim

Applications, including an up-to-date curriculum vitae, reprints of published research, and the names of three referees, should be sent to: Dr. M. Mac-kauer, Chairman, Department of Biological Sciences, Simon Fraser University, Burnaby, British Columbia, Canada, V5A 186. Deadline for receipt of appli-cations is 31 January 1979 or when position is filled.

Committee on Oceans and Atmosphere (NACOA), Department of Commerce, GS-1301-17/18, \$47,500 per annum. NACOA reviews the progress of antiper annum. NACOA reviews the progress of nation-al efforts in atmospheric, coastal zone, and marine areas and reports annually to the President and the Congress. The committee also reviews the mission and activities of the National Oceanic and Atmo-spheric Administration (NOAA) and reports to the Secretary of Commerce. The executive director directs the staff of scientists and administrative personnel which expand the committee Qualifica personnel which supports the committee. Qualifica-tions: applicants must be highly qualified by experitions: applicants must be highly qualified by experi-ence and training in one or more areas in marine or atmospheric science and technology and must have demonstrated executive and leadership capability. As permanent representative of NACOA in Wash-ington, incumbent must be articulate, dynamic, and able to deal responsibly with all levels of govern-ment, the public, and academia. Applicants should submit a Federal Personal Qualifications Statement (SF171) by 15 December to: NOAA, Personnel Di-vision, AD411, 6001 Executive Boulevard, Rockville, Marvland 20852. attention: Larry Salas. Maryland 20852, attention: Larry Salas.

## FACULTY-POSTDOCTORAL POSITION An assistant professor/postdoctorate research asso-ciate position is available. Responsibilities include full-time teaching for one semester each year; balance of year spent on research on interaction of cytoplasmic proteins with plasma membranes. Ap-pointment is for 2 years with starting salary of \$12,000. Send résumé and two letters of recommen-dation to: Dr. Bruce Jacobson, Department of Bio-chemistry, University of Massachusetts, Amherst, Mass. 01003. An Affirmative Action/Equal Opportu-nity Employer.

THREE FACULTY POSITIONS—Two associate or THREE FACULTY POSITIONS – Two associate or full professors in organic chemistry or related chem-ical research area. One tenure-track assistant profes-sor in analytical chemistry. Applicants for the ten-ured associate or full professorships should have an established research program of high quality and be experienced teachers at the undergraduate and graduate level. Applicants for all positions must be com-mitted to excellence in research and teaching. A complete curriculum vitae, which includes a docu-mented summary of past accomplishments and fu-ture research plans, should be submitted to: Dr. Chemistry Department, State University of New York at Buffalo, Acheson Hall, Buffalo, New York 14214. Qualified female and minority applicants are en-couraged to apply. Deadline for applications is 31 January 1979.

The State University of New York at Buffalo is an Equal Opportunity/Affirmative Action Employer.

### UNIVERSITY OF MICHIGAN MEDICAL SCHOOL

Seven FACULTY POSITIONS available at the in-Sector FACOBIA FORMATIONS level in the Department of Ophthalmology of the University of Michigan Medical School and Affiliated Hospitals. Reply to: Box 371, SCIENCE. Code 300F0, 400F0, 500F0, 600F0, 700F0, 800F0, 900F0. A nondiscriminatory, Affirmative Action Employer.

#### **POSITIONS OPEN**

#### FACULTY POSITION Thaver School of Engineering **Dartmouth** College

Applications are invited for a faculty position at the assistant professor level in the area of biomedical and electrical engineering, beginning September 1979. Applicants should have a background in sys-tems theory and electrical engineering and be pre-pared to teach courses in these areas at both under-graduate and graduate levels. Additional information will be suft upon request will be sent upon request. Interested applicants should submit a résumé and

Alleast three references to: Professor Calman Gold, Thayer School of Engineering, Dartmouth College, Hanover, N.H. 03755. Closing date for applications is 1 February 1979. Dartmouth College is an Equal Opportunity/Affirmative Action Employer and en-courages applications from women and members of minority arguing. minority groups.

#### FACULTY POSITION Thayer School of Engineering Dartmouth College

Applications are invited for a faculty position at the assistant professor level in applied mechanics and mechanical design beginning September 1979. The successful applicant will be required to establish The successful applicant will be required to establish an applied, experimental research program, teach courses at both the undergraduate and graduate lev-els, and advise masters and doctoral students in these areas. Industrial experience is desired, but it is not a requirement. Qualified individuals should send their résumé and a list of three references to: Profes-sor Kenneth A. Jones, Thayer School of Engineering, Dartmouth College, Hanover, N.H. 03755. Closing date for applications is 1 February 1979. Dartmouth College is an Equal Opportunity/Affirmative Action Employer and encourages applications from women and members of minority groups.

#### FACULTY POSITION AVAILABLE

Physiologist, visiting professor, spring term, 1979, 6month appointment only. Salary negotiable and competitive. Preferably senior with broad experi-ence in clinical physiology. Duties: to serve as teaching resource individual to medical school. Send curriculum vitae and three names of reference by 1 January 1979, to: Chairman, Biology Department, University of Missouri-Kansas City, 5100 Rockhill Road, Kansas City, Missouri 64110. The University of Missouri is an Equal Opportunity Employer.

## FACULTY POSITION IN PHYSICAL OCEANOGRAPHY OR QUANTITATIVE ECOLOGY

A faculty position in physical oceanography or quan-titative ecology is vacant at the Port Aransas Marine Laboratory of the University of Texas Marine Science Institute.

The faculty position is in the Department of Marine Studies of the University of Texas at Austin, with residence and research activities at the Port Aransas Marine Laboratory.

The successful applicant will be expected to develop a broad-based program in physical oceanography or quantitative ecology and train graduate students.

Send curriculum vitae and names of three references to: Chairman, Faculty Search Committee, Port Aransas Marine Laboratory, University of Texas Ma-rine Science Institute, Port Aransas, Texas 78373. An Equal Opportunity/Affirmative Action Employer.

#### FACULTY POSITION IN CELL BIOLOGY

Assistant professorship open for a cell biologist with specific training in protein biochemistry and ul-trastructural approaches to the analysis of cell structrastructural approaches to the analysis of cell struc-ture and function: for example, microtubules, micro-filaments, or membrane structure. Candidates must have a Ph.D. or M.D., a minimum of 2 years of post-doctoral training, and demonstrated productivity in original research. The successful candidate will be expected to establish a strong independent research program and train graduate students. Under-graduate-graduate student teaching responsibilities include advanced cell biology. Applicants should send curriculum vitae, bibliography, a brief descrip-tion of future research and teaching interests, career objectives, and names of three referees by 15 Janu-ary 1979 to: Dr. Susan A. Gerbi, Cell Biologist Search Committee, Division of Biology and Medicine, Brown University, Providence, Rhode Island 02912. Brown University is an Affirmative Action/Equal

Brown University is an Affirmative Action/Equal Opportunity Employer.

GENETICS PROGRAM COORDINATOR and GE-NETIC ASSOCIATES. The Michigan Department of Public Health is establishing a statewide genetic dis-ease program. Seeking a program coordinator with a Ph.D. in human genetics and 3 years of experience relating to the delivery of genetic disease services. Salary range: \$20,000 to \$25,000. Seeking four ge-netic associates with a master's degree in genetic counseling and 1 year of experience in activities re-lating to genetic diseases. Salary range: \$13,700 to \$17,000. Send résumé by 15 December 1978 to: R. G. Rice, M.D., Chief, Bureau of Personal Health Services, Michigan Department of Public Health, P.O. Box 30035, Lansing, Michigan 48909. An Equal Opportunity Employer.

## GEOLOGICAL OCEANOGRAPHY POSTDOCTORAL POSITION

Applications are invited for a research associate (postdoctoral) position in the Department of Ocean-ography, University of Washington, to carry out the-oretical or experimental research on continental shelf sediment transport processes and near bottom physical oceanography in conjunction with ongoing programs. Ph.D. required. Background in geological oceanography, coastal physical oceanography, and boundary layer fluid mechanics is desirable. Send complete résumé and four letters of reference to: Dr. Dora P. Henry, Chairman, Faculty Recruitment Committee, Department of Oceanography, WB-10, University of Washington, Seattle, Wash. 98195. Deadline is 1 February 1979. The University of Washington is an Equal Opportunity/Affirmative Ac-tion Employer.

## TEXAS A & M UNIVERSITY DEPARTMENT OF GEOLOGY

At least three openings at the assistant and associate professor level will be available for September 1979. Salary and rank are dependent upon experience; Ph.D. degree is required. Special areas of interest are: high or low temperature geochemistry, sedi-mentology, mineralogy-petrology, engineering geol-ogy, hydrology, or remote sensing. Send résumé and three letters of reference to: Dr. Robert Stanton, Geology Department, Texas A & M University, Col-lege Station, Texas 77843. An Affirmative Action/ Equal Opportunity Employer.

### DEPARTMENT OF **MEDICAL GENETICS Faculty of Medicine** THE **UNIVERSITY OF BRITISH** COLUMBIA

Applications are invited for the headship of the De-partment of Medical Genetics in the Faculty of Medicine. Curriculum vitae, together with the names of three referees, should be forwarded to: Dr. David S. Lirenman, Chairman, Selection Committee for the Headship of Medical Genetics, Associate Dean and Director, Continuing Medical Education, Wood-ward I.R.C. Building, University of British Colum-bia, Vancouver, British Columbia, Canada V6T 1W5, before 15 January 1979. before 15 January 1979.

CHEMISTRY DEPARTMENT HEAD—Nomina-tions and applications are invited for the position of head of the Department of Chemistry, Kansas State University (KSU), effective 1 July 1979. Candidates should have demonstrated excellence in research and teaching with a proven record of external re-search funding. The successful applicant would be expected to carry out an active research program complementing present programs, be an effective administrator of the department (20 faculty in analyt-ical, inorganic, organic, and physical chemistry), and give leadership in developing new programs and proposed construction. Applications must include curriculum vitae, summaries of research, and names of three reference persons. Nominations and com-pleted applications must be made by 1 January 1979 to: Dr. R. N. McDonald, Department of Chemistry, Kansas State University, Manhattan, Kansas 66506; telephone: 913-532-6680. KSU is an Affirmative Ac-tion/Equal Opportunity Employer. tion/Equal Opportunity Employer

#### POSITIONS OPEN

#### IMMUNOLOGIST/MICROBIOLOGIST

Assistant professor position for Ph.D. with post-doctoral experience in immunology. Candidate must be able to conduct an active research program com-plementing departmental interests in molecular and cellular biology. Teaching obligations include courses in immunology and a course in basic micro-biology. Starting date: fall 1979. Salary open. Send curriculum vitae and names of three references to: Chairman, Search Committee, Department of Botany and Microbiology, 770 Van Vleet Oval, Norman, Oklahoma 73019, by 1 March 1979. The University of Oklahoma is an Equal Opportunity Employer.

#### INSECT ECOLOGY

The Department of Ecology and Evolutionary Biology, University of California, Irvine, invites appli-cations for a faculty position in insect ecology. Pref-erence will be given to persons active in experimenerence will be given to persons active in experimen-tal research with phytophagous insects and with skills in such areas as population ecology, nutrition, physiology, biochemistry, and population genetics. The position begins July 1979 at assistant or associ-ate professor rank. All qualified candidates are wel-come; women and minorities are encouraged to ap-ply. Send curriculum vitae, publications, statement of interest and qualified in and the letters diof interest and qualifications, and three letters di-rectly from references to:

# Dr. Peter R. Atsatt Chair of the Search Committee Department of Ecology and Evolutionary Biology University of California Irvine, California 92717

The closing date for applications is 15 February 1979.

**INSECT GENETICIST-RESEARCH LEADER.** To assume leadership of an established research group investigating insects of agricultural and veterinary investigating insects of agricultural and veterinary importance. Salary based on qualifications and expe-rience. GS-13/14 level position. For information, contact: L. E. LaChance, Director, Metabolism and Radiation Research Laboratory, P.O. Box 5674, State University Station, Fargo, N.D. 58105. Telephone: 701-237-5771, extension: 5401. For application forms, contact: James Knox, North Central Region Administrative Office, USDA/SEA/AR-1, 2000 West Pioneer Parkway, Peoria, Ill. 61614. An Equal Op-portunity Employer. portunity Employer.

#### **INVERTEBRATE ZOOLOGIST**

A tenure-track position will be available in fall 1979 in the Department of Biology at the assistant professor level.

Applications must have the Ph.D. degree or equivalent with: (i) some postdoctoral experience in their area of expertise, (ii) the ability to establish an indesufficient to teach an upper level undergraduate course in invertebrate zoology with fieldwork. The department desires applications from individ-uals with active research interests in field-oriented

invertebrate zoology in the area of either physiology or ecology

Interested applicants should submit complete curriculum vitae and three letters of reference to: Chair-man, Search Committee, Department of Biology, Box Tenn. 37235.

An Equal Opportunity/Affirmative Action Employer

MEDICAL TECHNOLOGIST-ASCP St. Catherine Hospital, located 30 miles southeast of Chicago loop, has an immediate day opening in the Chicago loop, has an immediate day opening in the Chemistry Department for an individual with experi-ence in instrumentation. We offer an excellent salary and benefit package. Please send résumé to: St. Catherine Hospital 4321 Fir Street East Chicago, Ind. 46312 Equal Opportunity Employer, M/F

#### POSITION

A position is available in the Department of Bio-chemistry, University of Oregon Health Sciences Center, for a postdoctoral fellow to pursue research on specific problems related to metabolism of sulfur amino acids in brain and other tissue. The salary range for this current position is \$14,000 per year, depending on experience and other qualifications. Send résumé and the names and addresses of three references to: Dr. J. H. Fellman, Department of Bio-chemistry, University of Oregon Health Sciences Cen-ter, 3181 S.W. Sam Jackson Park Road, Portland, Oregon 97201. Oregon 97201.

#### POSITIONS OPEN

#### MAMMALIAN CYTOGENETICIST

The Biology Division at the Oak Ridge National Laboratory has an opening for a mammalian cyto-geneticist to assume a research associate position. Candidate must have training or research experience equivalent to a Ph.D. in the field of mammalian mu-tagenesis and cytogenetics, including character-ization of the various stages of mouse spermatogene-sis. Particular attention will be given to individuals with a combination of research skills in meiotic and mitotic characteria. mitotic chromosome technique, in vivo DNA repair assays, translocation, dominant lethal and specific assays, transiocation, dominant ieriai and specific locus tests, and molecular dosimetry procedures in germ cells. Salary: \$1450 to \$1750 per month. Send résumé to: Union Carbide Corporation, Nuclear Di-vision, Oak Ridge National Laboratory, Employee Relations, P.O. Box X, Oak Ridge, Tennessee 37830. An Equal Opportunity Employer.

#### MAMMALOGIST

Cornell University is seeking an assistant professor (tenure-track) to teach a one-semester course in mammalogy every year and to participate in an in-troductory vertebrate biology course in alternate years. Additional duties include participating in graduate-level courses and could include curating the mammal collection. We are particularly inter-ested in applicants with interests in PALEOBIOL-OGY, SYSTEMATICS, or PHYSIOLOGY, but mammalogists with other specializations are also in-vited to apply. Interested applicants should send their curriculum vitae, copies of representative pub-lications, a letter outlining future research plans, and the names of three references to: Chairperson, Mam-malogy Search Committee, Section of Ecology and Systematics, Langmuir Laboratory, Cornell Universi-ty, Ithaca, N.Y. 14853. Applications must be re-ceived by 15 February 1979. Cornell University is an Equal Opportunity/Affirmative Action Employer. Minority and women candidates are encouraged to apply. Cornell University is seeking an assistant professor apply.

MARINE FINFISH AQUACULTUR-IST. Ph.D. to conduct basic research programs. Send résumé and references to: Director, N.Y. Ocean Science Laboratory, Montauk, N.Y. 11954. An Equal Opportunity/Affirmative Action Employer.

MEDICAL EDUCATION. MEDICAL EDUCATION. Academic research-teaching position available in Department of Re-search in Medical Education. Preference given to in-dividual with established research record in area of medical behavioral ecology. Responsibilities in-clude: (i) teaching in a recently established Ph.D. program, and (ii) organizing and directing health-care research and health-care research training in naturalistic environments. Academic rank and sal-ary commensurate with training and experience. Academic research-

Send résumé to: Richard E. Gallagher, Ph.D., Direc-Send resume to: Richard E. Galagner, Ph.D., Direc-tor, Division of Educational Services and Research, Wayne State University School of Medicine, Detroit, Mich. 48201. Wayne State University is an Equal Opportunity/Affirmative Action Employer.

# NEUROANATOMIST DEPARTMENT OF PHYSIOLOGY-ANATOMY UNIVERSITY OF CALIFORNIA BERKELEY

Invites applications and nominations for the position of assistant professor of anatomy which will become available 1 July 1979. The successful candidate must be able to assume primary teaching responsibility for be able to assume primary teaching responsibility for one undergraduate and one graduate neuroanatomy course in alternate years, and to participate in the department's teaching program in the anatomical sciences. Preference will be given to applicants with two or more years of postdoctoral training and re-search competence in developmental and/or func-tional anatomy of the nervous system. Candidates will be evaluated on the basis of their dedication to excellence in teceparty and their can excellence in teaching and research, and their ca-pacities to develop a vigorous and independent repacities to develop a vigorous and independent re-search program in neurobiology. Interested individ-uals should reply by letter, explaining their qualifica-tions, with current curriculum vitae and a list of three more persons who could act as referees, to: Search Committee, Department of Physiology-Anato-my, 2549 Life Sciences Building, University of Cali-fornia, Berkeley, California 94720. Deadline for ap-plications and nominations: 1 January 1979. The University of California is an Affirmative Action Em-ployer. ployer.

MICROBIOLOGIST or BIOCHEMIST to do re-search in mitochondrial biogenesis and membrane biochemistry and to coordinate a course in micro-biology for nurses. Rank and salary dependent upon qualifications. Send curriculum vitae to: Dr. Morton M. Weber, St. Louis University Medical Center, c/o Personnel Services, 3556 Caroline Street, St. Louis, Mo. 63104.

Equal Opportunity/Affirmative Action Employer, M/F/H

#### MOLECULAR BIOLOGIST

A tenure-track assistant professor is being sought for fall 1979. The successful candidate will be expected to initiate and maintain a vigorous research program on molecular aspects of cellular differentiation, eu-karyotic gene regulation, or a closely related area. Teaching of an undergraduate course and a graduate course in the area of specialty is expected. Sub-stantial initial research support will be provided. Deadline for receiving applications is 31 January 1979. Send curriculum vitae, three letters of recommendation, statement of future research objectives, and publications to: Michael R. Felder, Molecular Bi-ologist Search Committee, Department of Biology, University of South Carolina, Columbia, S.C. 29208. The University of South Carolina is an Equal Oppor-tunity/Affirmative Action Employer.

## NEUROSCIENCES PROGRAM UNIVERSITY OF OREGON

The University of Oregon intends to make three appointments in a new Interdisciplinary Program in Neuroscience. Two positions will be in the Biology Department and one in the Chemistry Department. Department and one in the Chemistry Department. Although junior positions are envisaged, applications from more senior candidates will be considered. Applicants should have an active research program as well as an interest in training students. Qualified persons should contact: Chairman, Neuroscience Search Committee, Department of Biology, Univer-sity of Oregon, Eugene, Oregon 97403. Application deadline is 15 February 1979. The University of Oregon is an Equal Opportunity/Affirmative Action Employer. Employer.

Recent Ph.D. with background in photochemistry of Recent Ph.D. with background in photochemistry of seawater and organic reactions needed to develop research program on photochemical processes in the ocean with special reference to organic compound and metal reactions. Send résumé and names of three references to: Dr. James Carpenter, RSMAS, University of Miami, 4600 Rickenbacker Causeway, Miami, Florida 33149. Application deadline 31 De-cember 1978. An Equal Opportunity/Affirmative Ac-tion Employer. tion Employer.

## DEPARTMENT OF PHARMACOLOGY SCHOOL OF MEDICINE CASE WESTERN RESERVE UNIVERSITY

The Department of Pharmacology has faculty po-sitions available at all levels. Postdoctoral research experience is required. The primary qualification is the potential of the applicant to establish a strong, independent research program. The area of research is open, but particular consideration will be given to persons whose interest is in molecular pharmacolo-gy, membrane structure and function, and/or immu-nopharmacology. New faculty will also be expected to actively participate in the teaching activities of the department. department.

Applications should include curriculum vitae, re-Applications should include curriculum vitae, re-prints of up to three recent publications, the com-plete addresses of at least three references, and a brief description of future research interests. Submit to: Dr. M. E. Maguire, Faculty Recruitment Com-mittee, Department of Pharmacology, School of Medi-cine, Case Western Reserve University, Cleveland, Ohio 44106.

The University is an Equal Opportunity/Affir-mative Action Employer.

**POSTDOCTORAL POSITION.** Biochemist to study **POSTDOCTORAL POSITION.** Biochemist to study the interaction of membrane-active chemicals with biological membranes. Research background in membrane or protein biochemistry desirable. Salary up to \$12,500. Send curriculum vitae and names of three references, before 15 December 1978, to: Dr. **Terry L.** Miller, Department of Agricultural Chemis-try and Environmental Health Sciences Center, Ore-gon State University, Corvallis, Oregon 97331. An Equal Opportunity/Affirmative Action Employer, in compliance with Section 504 of the Rehabilitation Act of 1973.

1 DECEMBER 1978

#### POSITIONS OPEN

## UNIVERSITY OF OKLAHOMA COLLEGE OF MEDICINE

Applications are solicited for faculty positions in: **PHARMACOLOGY** (#135)—Assistant professor; re-sponsibilities include: teaching medical, dental, al-lied health, and graduate students, conducting inde-pendent cardiovascular research. Requirements: Ph.D. in pharmacology or M.D. and 1 or 2 years of postdoctoral training required. **PHYSIOLOGY** (#137)—Associate professor or professor; responsi-bilities include: teaching and research in cardiovas-cular, neural, or renal physiology. Requirements: cular, neural, or renal physiology. Requirements: Ph.D. or M.D. and two or more years of postdoctoral training

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

#### BERKELEY-PHYSICS

The Physics Department of the University of Cali-fornia, Berkeley, expects during the next 2 years to be making one or two appointments at the assistant professor level. Preferred areas of research are asprofessor level. Preferred areas of research are as-trophysics, atomic and plasma physics, condensed matter physics, nuclear physics, and particle phys-ics, with some priority given to theoretical con-densed matter physics, experimental plasma phys-ics, and theoretical particle physics. Applicants should write before 1 February 1979, to: Chairman of the Physics Department, University of California, Berkely, Calif. 94720, giving curricu-lum vitae, publication list, and references. The Uni-versity of California is an Affirmative Action Em-plaver.

ployer.

PLANT ECOLOGIST. Assistant or associate professor level. Ph.D. required. Candidates may have re-search interests in either terrestrial or aquatic habitats, but should have a broad background in ecology with particular emphasis on physiological aspects. Duties include undergraduate and graduate teaching, development of a research program, and training of graduate students. Curriculum vitae, reprints, a summary of future research plans, and three letters of recommendation should be sent to:

Dr. Jan Savitz Chairman, Search Committee Biology Department Loyola University of Chicago 6525 North Sheridan Road Chicago, Illinois 60626

An Equal Opportunity/Affirmative Action Employer

PLANT ECOLOGY. The Biology Department, Uni-PLANT ECOLOGY. The Biology Department, Uni-versity of Utah, seeks applications for a regular fac-ulty position in whole plant biology, emphasis in physiological (biochemical) ecology or evolutionary ecology. Rank and salary will be negotiable accord-ing to experience. Interested applicants should sub-mit curriculum vitae, a summary of professional goals, and names of three people who have agreed to give references. Candidates should also include re-prints/preprints of no more than two papers which best represent their research achievements and in-terests. We are specifically seeking candidates with best represent their research achievements and in-terests. We are specifically seeking candidates with a broad biological interest, who show exceptional achievement and/or promise in both research and teaching. Send applications before 14 January 1979 to: Dr. William R. Gray, Chairman, Faculty Recruit-ment Committee, Biology Department, University of Utah, Salt Lake City, Utah 84112. An Equal Opportu-tiol/Affirmation Action Employer nity/Affirmative Action Employer

#### POSTDOCTORAL APPOINTMENTS

The Ames Laboratory of the U.S. Department of Energy has a number of vacancies for postdoctoral fellows in the fields of chemistry, physics, metallur-gy, and engineering. The appointments would be for 1 year, renewable for a second year if mutually agreeable. In some instances there may be a possi-bility for continued employment beyond the 2-year postdoctoral appointment if circumstances warrant. Interested persons should submit a complete ré-sumé, along with the names and addresses of three professional references. to: professional references, to:

Ames Laboratory Personnel Office 127 Spedding Hall Iowa State University Ames, Iowa 50011 An Equal Opportunity Employer

#### POSITIONS OPEN

#### PLANT ECOLOGIST

The University of California, Berkeley, Depart-ment of Botany, invites applications for a tenure-track assistant professor position (pending final bud-getary approval), beginning with the 1979-1980 aca-demic year. The research interests of the candidate should be in physiological plant ecology but a broad base in ecology is essential. Teaching at all levels (undergraduate and graduate) may be anticipated, including a contribution to general biology or bot-any.

Applicants should send curriculum vitae, state-Applicants should send curriculum vitae, state-ment of research and teaching objectives, relevant reprints and manuscripts, to: H. G. Baker, Chairper-son, Ecologist Search Committee, Department of Bot-any, University of California, Berkeley, California 94720. Applicants should also arrange for at least three letters of reference to be sent to the same ad-trass. The closing data for receint of emplications. dress. The closing date for receipt of applications will be 15 January 1979.

The University of California is an Affirmative Action Employer.

#### POPULATION BIOLOGIST

The Department of Biology at the University of California at Riverside invites applications for a faculty position in population biology beginning 1 Septem-ber 1979. Candidates must show evidence of ability ber 1979. Candidates must show evidence of ability to initiate and sustain a productive, high-quality re-search program and show enthusiasm and skill in teaching at both the undergraduate and graduate lev-els. Teaching duties would include an introductory population biology course and a graduate field course. Appointment will be made at the assistant professor level. Applicants should send curriculum vitae, statement of teaching and research interests, reprints, and letters from three referees. The Univer-sity of California is an Equal Opportunity/Affir-mative Action Employer. Applications are invited from all qualified individuals, especially women and members of minority groups. Send applications to: Irwin W. Sherman, Chairman

Irwin W. Sherman, Chairman Department of Biology University of California Riverside, California 92521

#### **POPULATION BIOLOGIST**

**POPULATION BIOLOGIST** The Department of Biology of Princeton Universi-ty is seeking applicants for a position at the assistant professor level. Preferential consideration will be given to candidates whose interests overlap and complement those of existing members of Prince-ton's population biology group: Gould, Horn, May, and Terborgh. Appropriate areas are: the ecology and adaptive behavior of animals and plants, popu-lation dynamics, sociobiology, and biogeography. Field experience and a wide ranging interest in orga-nisms are desirable qualifications. Evidence of ex-ceptional promise in research is essential. Teaching duties will consist of one undergraduate and one graduate level course and counseling students in re-search. Applicants should send curriculum vitae, a three letters of recommendation to: Dr. John Ter-borgh, Department of Biology, Princeton University, Princeton, New Jersey 08540. Equal Opportunity/Af-firmative Action Employer, M/F.

#### POSTDOCTORAL FELLOW

Laboratory with active program in the study of hormone receptor/antibody interactions has an opening for an individual with experience in hor-mone receptor separation and purification. Although funds for the position at the M.R.C. Canada Post-doctoral Fellowship rate of \$13,000 are available, the successful candidate would be encouraged and as-sisted in applications for his/her own fellowship sup-port. Applications should include curriculum vitae and previous research experience. The applicant and previous research experience. The applicant should request three referees to send letters of sup-port to: Dr. N. R. Farid, Faculty of Medicine, Memo-rial University of Newfoundland, Health Sciences Centre, 300 Prince Phillip Drive, St. John's, New-foundland, Canada A1B 3V6.

**POSTDOCTORAL OPPORTUNITIES** now avail-able for behavioral studies on effects of both drugs and toxic substances on schedule-controlled behavand toxic substances on schedule-controlled benav-ior and on cardiovascular functions. Background in chemistry, toxicology, pharmacology, physiology, or behavior. Send curriculum vitae and names of three references to: W. H. Morse, Laboratory of Psy-chobiology, Harvard Medical School, 25 Shattuck Street, Boston, Mass. 02115.

**POSTDOCTORAL PHYSIOLOGIST** The Divisions of Nuclear Medicine and Cardiology at the University of California, Los Angeles, School of Medicine, are seeking a postdoctoral physiologist with primary interest in myocardial metabolism. The position involves research for the noninvasive mea-surement of myocardial metabolism by means of position empiricipe tomography and redioenting la surement of myocardial metabolism by means of positron emission tomography and radioactive la-beled metabolic indicators. Applicants should sub-mit curriculum vitae and names of three references to: Laboratory Personnel Officer, Laboratory of Nu-clear Medicine and Radiation Biology, 900 Veteran Avenue, Los Angeles, California 90024. An Equal Op-portunity/Affirmative Action Employer.

The Division of Nuclear Medicine, Department of Internal Medicine, at the University of Michigan, has a **POSTDOCTORAL POSITION** available for an individual with a Ph.D. in biochemistry or pharma-cology. Applicants with experience in protein chem-istry and enzymology are preferred. The post-doctoral scholarship, sponsored by NIH, is part of an ongoing program in cancer research training in an ongoing program in cancer research training in nuclear medicine. The individual will have an oppor-tunity to interact with biochemists, nuclear pharma-cists, organic chemists, and physicians. The re-search involves the development of tissue-specific enzyme inhibitors as potential imaging agents. The position is available immediately and the appoint-ment is up to 3 years. Candidates should send cur-riculum vitae, a summary of pertinent experience, and names of three individuals who may be con-tacted for references to: Dr. Michael C. Tobes, W5614 University of Michigan Hospital, Division of Nuclear Medicine, Ann Arbor, Michigan 48109. A nondiscriminatory, Affirmative Action Employer.

POSTDOCTORAL POSITION. Available immediately. Research associate with Ph.D. is being sought to participate in a study of the regulation of hepatic of carbohydrates and lipids is desirable. Send cur-

riculum vitae and names of references to: Dr. Stanley Blumenthal VA Medical Center Irving Avenue and University Place Syracuse, New York 13210

#### Department of Developmental and Cell Biology University of California, Irvine POSTDOCTORAL POSITIONS-available immedi-

ately

Neurobiologists (two), to study neuronal specificity able. Contact: **H. Koopowitz** or **R. Josephson**.

Cell biologist, to study the biology and immunology of tumor metastasis; will involve the development of animal models. Contact: G. Nicholson.

**Cell immunologist**, to work on project developing monoclonal cell lines. Contact: **M. Berns.** 

Applications from all qualified candidates are wel-come; minorities and women are encouraged to apply.

## Department of Developmental and Cell Biology University of California, Irvine Irvine, California 92717

Two POSTDOCTORAL POSITIONS, available immediately: interaction of combined modalities of hy-perthermia, chemotherapeutic agents, and ionizing radiation on cell kinetics and cell survival in synchronous marmalian cells in culture, and in Chinese hamster normal and tumor tissues in vivo. Backhamster normal and tumor tissues in vivo. Back-ground in radiation biology, hyperthermia, or mam-malian cell culture required. Salary commensurate with experience, renewable for 2 or 3 years. Please send résumé and names of three references to: Dr. D. B. Leeper, Laboratory of Experimental Radiation Oncology, Department of Radiation Therapy, Thom-as Jefferson University Hospital, Philadelphia, Pa. 19107. An Equal Opportunity/Affirmative Action Employer. Employer

POSTDOCTORAL POSITION IN MEMBRANE PROTEIN BIOCHEMISTRY available immediately. PROTEIN BIOCHEMISTRY available immediately. The project involves biochemical studies of cell sur-face proteins that regulate immune responses. A working knowledge of biochemical techniques such as electrophoresis and peptide mapping is required. Some immunology background preferred. Two-year salary and benefits guaranteed. Send curriculum vitae and three letters of reference to: Dr. Jack Sil-ver, Department of Cellular and Developmental Im-munology, Scripps Clinic and Research Foundation, 10666 North Torrey Pines Road, La Jolla, California 92037. An Equal Donortunity. Employee. 92037. An Equal Opportunity Employ

#### **POSITIONS OPEN**

#### POSTDOCTORAL POSITION Neurobiology

**RESEARCH ASSOCIATE** position for 1 to 3 years **RESEARCH ASSOCIATE** position for 1 to 3 years available to start immediately or in the next 9 months for Ph.D. or M.D. with background or inter-est in neurobiology to work on abnormal physiology (blood flow, axonal transport, deoxyglucose metab-olism, ultrastructural changes, conduction, and so forth) induced in the optic nerve by intraocular pres-sure, cerebrospinal fluid pressure, transection of ax-ons, or other insults simulating human disease. In-cludes work on primates, but can include experi-ments in other species, other nerves, or in vitro studies to answer questions relevant to glaucoma ments in other species, other nerves, or in vitro studies to answer questions relevant to glaucoma, papilledema, or optic atrophy. Facilities for angiog-raphy, autoradiography, fluorescence microscopy, intracellular recording, electron microscopy, and so forth available. Stipend: \$10,000 to \$15,000, depend-ing on background. Send curriculum vitae to: Dr. Douglas R. Anderson, Department of Ophthalmology, Bascom Palmer Eye Institute, University of Miami School of Medicine, P.O. Box 016880, Miami, Florida 33101. Eaual Opportunity/Affirmative Action Em-33101. Equal Opportunity/Affirmative Action Employer

POSTDOCTORAL POSITION IN BIOMECHAN-ICS. Position available for a person with a strong background in cardiovascular physiology and elas-ticity theory to develop mathematical models in the area of cardiac mechanics. Salary: \$12,000. Investiators of cardiac mechanics. Satary, \$12,000. Investi-gators with current funding are also encouraged to apply. Send résumé to: Dr. Israel Mirsky, Depart-ment of Medicine, Harvard Medical School and Peter Bent Brigham Hospital, 721 Huntington Avenue, Bos-ton, Mass. 02115. Harvard University is an Equal Opportunity/Affirmative Action Employer.

**POSTDOCTORAL POSITION** in physiology or biochemistry for research on  $CO_2$  kinetics in red cells and the functional relationship between hemo-globin and carbonic anhydrase. Please send curricu-lum vitae and names of three references to: Dr. D. N. Silverman, University of Florida College of Medicine, Box J-267 JHMHC, Gainesville, Florida 32610.

## POSTDOCTORAL POSITION IN MOLECULAR VIROLOGY

Postdoctoral position available anytime after 1 January 1979. Research concerning the molecular virolo-gy of herpesviruses. Applicants should have experience in biochemistry and virology. Salary open. Send curriculum vitae and names of three references to: Dr. Albert S. Kaplan, Department of Micro-biology, Vanderbilt University, School of Medicine, Nashville, Tenn. 37232. An Equal Opportunity/Af-firmative Action Employer.

**POSTDOCTORAL POSITION** available immediate-POSTDOCTORAL POSITION available immediate-ly for candidate capable of independent research and with experience in collagen biochemistry. The posi-tion is for 2 years with a starting salary of \$11,500 to \$12,500. Send curriculum vitae with names of three references to: Dr. F. W. Keeley, Research Institute, The Hospital for Sick Children, 555 University Ave-nue, Toronto, Canada M5G 1X8.

POSTDOCTORAL POSITIONS. Biosynthesis of al-POSTDOCTORAL POSITIONS, Biosynthesis of al-kaloids and antibiotics, stereochemistry of enzyme reactions. Applicants should have experience in or-ganic synthesis. Experience in one of the following desirable: (i) tracer methods, (ii) enzymology, and (iii) plant tissue culture. Starting salary: \$9,500 to \$10,000. Send curriculum vitae and names of two references to: Dr. Ronald Parry, Department of Chemistry, Rice University, Houston, Texas 77001.

POSTDOCTORAL POSITIONS (two) available now for biochemists/cell or molecular biologists to study the synthesis and assembly of cell wall components in algae and the isolation/characterization of mRNA In algae and the isolation/characterization of mKNA during wheat seed development. Salary dependent upon experience. Send résumé and names of refer-ences by 15 December to: Dr. Ralph S. Quatrano, Department of Botany, Oregon State University, Cor-valis, Ore. 97331. An Equal Opportunity/Affirmative Action Fundowar Action Employer.

**POSTDOCTORAL POSITIONS:** one position in-volves research to be carried out at the Oak Ridge National Laboratory, the other at the University of Tennessee. Both involve studies of coal organic structure and reactivity. Available immediately. Send résumé and three letters of recommendation to: John Larsen, Department of Chemistry, Universi-ty of Tennessee, Knoxville, Tenn. 37916.

An Equal Opportunity/Affirmative Action Employer.

#### POSITIONS OPEN

POSTDOCTORAL POSITION available for re-POSTDOCTORAL POSITION available for re-search in immunochemistry (general area of immu-noglobulin structure and effector functions with bio-chemical-biophysical orientation). Some participa-tion in teaching medical and graduate students. Research productivity should be demonstrated. Sal-ary: current NIH stipend level. Curriculum vitae and names of three references to: Dr. Jeffrey L. Winkelhake Department of Microbiology The Medical College of Wisconsin P.O. Box 26509 Milwaukee, Wis. 53226

POSTDOCTORAL POSITIONS. Veterans Adminis-tration Medical Center (VAMC) is inviting appli-cations from postdoctoral-level scientists to assist with research programs in the areas of: (i) molecular mechanisms of chemical mutagenesis and carcino-genesis, and (ii) metabolism of chemical toxicants. Applicants should have training in chemistry, phar-macology, or biochemistry. Interested persons should send curriculum vitae and three names for reference to: Dr. K. D. Straub, ACOS for Research, VAMC, 300 East Roosevelt Road, Little Rock, Ark. 72206.

POSTDOCTORAL POSITION now open for freshwater biologist to conduct field and lab-oratory work on the benthos of oligotrophic oratory work on the benthos of oligotrophic lakes. Familiarity with macrophyte and algal taxonomy, in situ productivity techniques, and SCUBA certification are desirable. Work will require residence at our field labo-ratory during part of the year. This position will contribute to the Adirondack Lakes Project, an integrated study of aquatic eco-systems in a region affected by acid precipi-tation. Submit curriculum vitae, publications list, and three professional references to: Dr. George R. Hendrey, Department of Energy and Environment, Building 318, Brookhaven National Laboratory, Associated Universities, Inc., Upton, New York 11973. An Equal Opportunity Employer, M/F

POSTDOCTORAL POSITION-Available immediately for individual with background in physiology or biochemistry. Studies involved cardiac dynamics, or biochemistry. Studies involved cardiac dynamics, myocardial mechanics, coronary artery dynamics, cardiac muscle protein chemistry. Funding accord-ing to NIH postdoctoral guidelines. Applicants must be U.S. citizens or have permanent or immigrant visa. Contact: **Rita A. Carey, Ph.D., Cardiology Sec-**tion, **Temple University Health Sciences Center, 3400 North Broad Street, Philadelphia, Pa. 19140.** An Equal Opportunity/Affirmative Action Employer.

## MIT POSTDOCTORAL AND PREDOCTORAL RESEARCH POSITIONS

Several positions are available for research in ge-Several positions are available for research in ge-netic toxicology with emphasis on mechanisms of chemical mutation of human cells. Strong back-ground in chemistry is desired of predoctoral re-searchers, and molecular biology of postdoctoral re-searchers. Please send résumés to: Professor Wil-liam G. Thilly, Room E18-666, Massachusetts Insti-tute of Technology, Cambridge, Mass. 02139. MIT is an Equal Opportunity Employer.

POSTDOCTORAL RESEARCH ASSOCIATE, Ph.D. or M.D. with a strong background in cellular immunology and experience in B and T cell biologi-cal assay and enumeration techniques. Salary: \$19,600; up to 3-year appointment. Please send cur-riculum vitae and names of three references to: Per-sonnel-Reference #67, New York State Institute for Basic Research in Mental Retardation, 1050 Forest Hill Road, Staten Island, New York 10314. Affir-mative Action/Equal Opportunity Employer, MIF/IH.

The Department of Psychological Sciences at Pur-The Department of Psychological Sciences at Pur-due University has an opening for a FULL PROFES-SOR OF PSYCHOBIOLOGY in 1979. We are look-ing for an established investigator who has already made a contribution to the study of the relation be-tween brain and behavior. Investigators who now hold the rank of associate or full professor (or the equivalent) are eligible to apply. Please send curricu-lum vitae and three letters of recommendation to: Dr. Gerald S. Wasserman, 1291 Cumberland Avenue, West Lafagette, Indiana 47906. Purdue University is an Equal Opportunity/Affirmative Action Employer

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#### WATER RESOURCES CENTER is seeking applicants for

**SOIL SCIENTIST**, Ph.D in soil physics, soil science, or related field. Significant training and experience in field and laboratory techniques, particularly determination of hydrologic parameters of vadose zone. Knowledge of theoretical aspects of vadose zone transport phenomena, including numerical methods. Appreciation for agricultural aspects (irrigation, drainage, and so forth) of soil science, soil chemistry, and vadose zone as link between surface water and groundwater.

WATER RESOURCES ENGINEER, Ph.D in civil engineering, hydrology, or water resources engineering, Minimum of 3 years of research experience in related field.

HYDROGEOLOGIST (geothermal), Ph.D or M.S. in hydrogeology, geophysics, geology, engineering, or related fields. Experience in or knowledge of various field techniques including geophysical techniques, exploratory drilling and heat flow measurements, and well logging.

WATER RESOURCE ECONOMIST, Ph.D in resource economics or closely related field. Engineering background desirable. Training in modeling, systems analysis, operation research, simulation, and econometrics. Three years of experience in resource economics research including water resource modeling. Published in refereed journals.

ENVIRONMENTAL ENGINEER, Ph.D in civil or environmental engineering. Minimum of 3 years of experience in water and wastewater quality control, water reuse, and water quality modeling and management.

All positions require ability to independently conduct research, secure grant and contract funding, and qualify for security clearance, and excellent oral and written skills in English. Teaching interests desirable. Salary dependent upon qualifications and experience. Send application, referencing position itile, postmarked by 15 January 1979 to: T. Harrison, Desert Research Institute, University of Nevada System, P.O. Box 60220, Reno, Nevada 89506. Affirmative Action/Equal Opportunity Employer.

Or O

#### SUPERVISORY RESEARCH PHYSICIST GS-1310-15

#### Salary: \$38,160 to \$47,500 per annum

This is a career Civil Service position. Serves as head, Physics Division, responsible for the management and coordination of 45 personnel engaged in physics research. Areas of research are thin film physics, electron structure of solids, radio-frequency microwave technology, quantum optics and semiconductors, advanced optics technology, quantum surface dynamics, and physical optics. Candidates should have national recognition in one or more of these areas and possess an advanced degree or equivalent in the physical sciences. Work site located in a small desert community close to Sierra Nevada recreation areas.

Applicants should send an SF-171, Personnel Qualifications Statement, or résumé to:

#### NAVAL WEAPONS CENTER China Lake, Calif. 93555 Attention: Civilian Personnel Department Code 092-381-5

If you are interested in more information on this position, please telephone (collect): Joe Helgerson at 714-939-2514.

An Equal Opportunity Employer

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SHELF SEDIMENT DYNAMICS PROGRAM

LETTERS OF INTENT are solicited for the initial phase of a long-range study of sediment dynamics of the continental shelf. A general plan for a Shelf Sediment Dynamics Program has been developed by an ad hoc committee and the preliminary phase for the preparation of a scientific proposal has been funded by NSF/IDOE.

Scientific goals of the Shelf Sediment Dynamics Program include the theoretical and quantitative investigation of modern sedimentary processes and the quantification of depositional facies development for interpreting the sedimentary record of continental shelves. The primary emphasis during the initial phase of the program will be on in situ measurements of near-bottom flow and particle fluxes at a selected site on a U.S. coast. Concurrent, and supporting physical oceanographic, sedimentologic, and stratigraphic measurements are also encouraged. Relevant theoretical and laboratory studies of sediment transport mechanics and sediment-organism interactions will be considered as well. Copies of the preliminary plan of the program are available (see below).

Investigators interested in participating in the program must submit a LETTER OF INTENT outlining a 2-year study related to the goals of the program. Submissions should not exceed five pages, including a tentative budget. In addition, curriculum vitae should be attached. The closing date is 15 January 1979. Letters of intent will be reviewed by the ad hoc committee and a panel of external reviewers. Investigators selected will be invited to provide detailed proposals for inclusion in the coordinated proposal by 15 March 1979. It is anticipated that funding will be available in June 1980.

Direct all inquiries, requests for the Program Plan, and Letters of Intent to: Professor Richard W. Sternberg, Department of Oceanography WB-10, University of Washington, Seattle, Washington 98195, telephone: 206-543-7932.

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#### CSIRO RESEARCH SCIENTIST/POSTDOCTORAL RESEARCH FELLOW (TWO POSITIONS) DIVISION OF ATMOSPHERIC PHYSICS ASPENDALE, VICTORIA

CSIRO has a broad charter for research into primary and secondary industry areas. The organization has approximately 7000 employees, 2400 of whom are research and professional scientists, located in divisions and sections throughout Australia.

#### FIELD: Dynamical Meteorology/Dynamical Oceanography.

**GENERAL**: the Division of Atmospheric Physics is engaged in research in three broad areas: dynamical meteorology, radiation, and climate and atmospheric chemistry. The dynamical meteorology programme comprises individual research projects on a variety of topics including large-scale atmospheric circulations, the dynamics of stratified and rotating fluids, convection, mixing and entrainment, the atmospheric boundary layer and air/surface interaction. The programme also includes studies on the effects of regional and topographic factors on weather and climate and the circulations in the waters surrounding Australia.

Wherever possible the approach to these topics combines analytical, numerical, and laboratory modelling techniques, and field experiments. The division has an active and well-equipped geophysical modelling laboratory and, in addition to local computers, has access to the CSIRO's CYBER network. Interaction with the Australian Government Bureau of Meteorology, the Australian Numerical Meteorology Research Centre, and the CSIRO Divisions of Cloud Physics and of Fisheries and Oceanography is encouraged.

**DUTIES:** to conduct appropriate theoretical and experimental research on topics concerning the large-scale dynamics of the atmosphere or dynamical oceanography relevant to the Southern Hemisphere weather and climate.

QUALIFICATIONS: applicants should have a strong background in geophysical fluid dynamics and a Ph.D. or equivalent qualification, and postdoctoral experience demonstrating a high level of ability in self-motivated and original research.

SALARY: research scientist or senior research scientist: A\$14,829 to A\$21,543 per annum. Outstandingly qualified scientists should not be deterred from applying as appointment at a higher level would be considered.

**TENURE:** one appointment will be of indefinite tenure. For the other either an indefinite or a fixed-term appointment may be negotiated. Both carry superannuation benefits.

Applications stating full personal and professional details, the names of at least two referees, and quoting reference number 420/352 should reach:

The Chief Division of Atmospheric Physics P.O. Box 77 Mordialloc, Victoria 3195 Australia

by 30 December 1978.

1 DECEMBER 1978

IGT is a national leader in energy research. Due to steady growth the following positions are open:

## biochemical sanitary engineer

MS with experience in methane fermentation or cellulose decomposition. Design and operation of fermenters for hands on research on conversion of biomass to methane via fermentation. Must be willing to locate in California.

## microbiologist

MS/PhD with experience in anaerobic fermentation processes including methane genesis and/ or degradation of cellulose biomass.

We offer attractive starting salaries commensurate with experience, excellent benefits, and an outstanding opportunity for advancement. Interview and relocation expenses paid for candidates outside of the Chicago area.

Please send resume with salary requirements to:



Ms. A. Pruss INSTITUTE OF GAS TECHNOLOGY IIT CENTER 3424 S. State St. Chicago, IL 60616 an equal opportunity employer m/f

#### POSTDOCTORAL RESEARCH ASSOCIATE

Recent Ph.D. in biochemistry to work in the area of protein phosphorylation-dephosphorylation reac-tions in glycogen metabolism. Specific projects in-volve the isolation and characterization of protein phosphatases of liver and skeletal muscle. Send curriculum vitae and names of three references to: Dr. E. Y. C. Lee, Department of Biochemistry, University of Miami, Box 016129, Miami, Florida 33101.

An Affirmative Action/Equal Opportunity Employer

**POSTDOCTORAL RESEARCH POSITION** available for study of the immunology of experimental leprosy. Candidates should have background in immunology but knowledge of leprosy is not required. Campus housing available: Apply to: Dr. M. J. Lef-ford, Trudeau Institute, Inc., P.O. Box 59, Saranac Lake, NY, 12983. Affirmative Action/Equal Oppor-tunity Employer.

POSTDOCTORAL RESEARCH TRAINING IN EN-**DOCRINOLOGY** in the Departments of Medicine and Biochemistry for M.D.'s and Ph.D.'s. Areas of research include hormones and hypertension, cal-cium homeostastis, neuroendocrinology, peptide bornone receptors, steroid hormone receptors, in-sulin action, oral administration of peptides, and others. Apply to: P. Mulrow, M.D., Department of Medicine, Medical College of Ohio, C.S. #10008, To-ledo, Ohio 43699. We are an Equal Opportunity Employer, M/F.

#### POSTDOCTORATE

Biochemist/chemist/pharmacologist. Recent Ph.D. in chemistry, biochemistry, or pharmacology to per-form research into the metabolism and mechanism of action of colon specific carcinogens.

Salary in mid-teens range. Experience in HPLC, GC, MS, and NMR desirable. Send curriculum vitae and reference to:

Dr. E. S. Fiala Division Molecular Biology Naylor Dana Institute for Disease Prevention American Health Foundation Dana Road Valhalla, N.Y. 10595

An Equal Opportunity Employer, M/F

## UNIVERSITY OF MICHIGAN MEDICAL SCHOOL

Position available for **PROFESSOR** (chief, ambula-tory care) in the Department of Internal Medicine. Responsibilities include patient care, administration, and teaching with opportunities for health services research. Reply to: **Box 372**, **SCIENCE**. Code 6100B0. A nondiscriminatory, Affirmative Action Fundows: Emplover

YALE, DEPARTMENT OF PSYCHIATRY. Available 1 July 1979, associate director of a research ward. Board-eligible, experience in neurobiologic psychiatric research. Send curriculum vitae and names of three references to: Stephen Fleck, M.D., Department of Psychiatry, Yale University, 25 Park Street, New Haven, Conn. 06519.

An Equal Opportunity/Affirmative Action Employer

The DEPARTMENT OF PSYCHOBIOLOGY, University of California, Irvine, is seeking candidates for an assistant research series position for January 1979. Candidates must have a Ph.D. with extensive experience in electron microscopy and/or immuno-cytochemistry. Duties include direction of a large departmental histological facility. Work will be done in collaboration with faculty members with the pos-sibility of independent research. Candidates should sonity of independent research. Candidates should send curriculum vitae, summary of research experi-ence, and have three letters of recommendation sent to: Gary S. Lynch, Chair, Department of Psycho-biology, University of California, Irvine, Irvine, Cali-fornia 92717.

All qualified candidates are welcome: women and minorities are encouraged to apply.

QUANTITATIVE EXPERIMENTAL BIOLOGIST. QUANTITATIVE EXPERIMENTAL BIOLOGIST. Assistant professorships—1 July or 1 September 1979. Preference to applicants with active research interests. Minimum of 2 years of postdoctoral expe-rience. Successful applicants expected to develop vigorous research program and teach undergraduate and graduate programs. Send résumé, research in-terests, and three references to: Dr. Frank M. Fish-er, Jr., Biology Department, Rice University, Box 1892, Houston, Texas 77001. Equal Opportunity/ Affirmative Action Employer.

#### POSITIONS OPEN

**PSYCHOPHARMACOLOGY/NEUROCHEMISTRY** PSYCHOPHARMACOLOGY/NEUROCHEMISTRY A tenure-track position at the assistant professor level is available starting 1 September 1979. Appli-cants should be prepared to pursue an organized program of research and participate in both graduate and undergraduate instructional programs. Excel-lence of credentials in psychopharmacology/neu-rochemistry will be the primary consideration. Indi-viduals who also have a background in behavior ge-netics and animal behavior are especially encouraged to apply. Please send curriculum vitae, publications, and three letters of recommendation to: Psychopharmacology Search Committee, Depart-ment of Psychology, University of Texas at Austin, Austin, Texas 78712. An Affirmative Action/Equal Opportunity Employer. Opportunity Employer.

## REED COLLEGE PSYCHOLOGY DEPARTMENT

The Department of Psychology at Reed College is seeking a psychologist to fill a 1-year appointment for the academic year 1979–1980 as visiting assistant or associate professor in psycholinguistics and com-puter instruction. We seek a person who will teach upper division courses in psycholinguistics half-time, and will spend half-time instructing faculty in social science, biology, and psychology to use the computer for experimental simulation and process modeling (for example, simulating behavioral situa-tions, modeling ecological, psychological and social processes, and data analysis). This might be accom-plished through a faculty study group, and by using The Department of Psychology at Reed College is processes, and data analysis). This might be accom-plished through a faculty study group, and by using already developed programs from other colleges in order to familiarize our faculty with the unusual op-portunities presented by our new computer facility. Anyone interested in this position should send a let-ter of application, curriculum vitae, three letters of recommendation, and reprints of publications to: Carol F. Creedon, Professor and Chairperson, Search Committee, Psychology Department, Reed College, Portland, Oregon 97202. Reed College is an Equal Opportunity Employer.

**RESEARCH ASSISTANT**. Research involving mo-lecular genetics of muscle development. Experience in quantitative biochemistry involving isolation and purifications of proteins on nucleic acids required. Background in immunochemistry useful. Educational level at master's or equivalent in experience. Per-son should be career oriented to the pursuit of scienson should be career oriented to the pursuit of scheme rific research in an exciting atmosphere. Send ré-sumé, letters of reference, and salary requirements to: Dr. Henry F. Epstein, Department of Neurology, Baylor College of Medicine, 1200 Moursund Avenue, Houston, Texas 77030.

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**RESEARCH ASSISTANT PROFESSOR** and post-doctoral positions (non-tenure-track) are available to study the structure and function of mitochondrial membranes. Appointment is for a minimum of 2 years. Applicants should send curriculum vitae and the names of three references to: Dr. Ronald R. Fish-er, Chairman, Department of Chemistry, University of South Carolina, Columbia, South Carolina 29208. *An Affirmative Action/Equal Opportunity Employer.* 

#### RESEARCH ASSOCIATE IN VIROLOGY

Professional assistant with responsibilities in the supervision of well-established laboratory, studying the molecular biology of papovaviruses, especially viral genome expression in transformed cells. A min-imum of 2 years of postdoctoral experience is required. Readiness to learn or knowledge of French essential. Canadian experience preferred. Salary ranging from \$13,735 to \$23,635, according to expe-

POSTDOCTORAL FELLOW IN VIROLOGY

Studies on the integration, excision and ex-pression of the viral genome in polyoma transformed cells. Canadian experience preferred.

Appointments tenable from 1 April 1979. Send ap-plications to: Dr. Pierre Bourgaux, Département de microbiologie, Faculté de médecine, Université de Sherbrooke, Sherbrooke, Québec, Canada J1H 5N4.

**RESEARCH ASSOCIATE** position for 2 years is REDEARCH ASSUCIATE position for 2 years is available immediately to work in the area of meta-bolic regulation of liver carbohydrate metabolism in newborns of diabetic animals. Starting salary: \$11,000 to \$12,000, depending upon training and ex-perience. Send curriculum vitae to: Dr. M. S. Patel, Department of Biochemistry, School of Medicine, Case Western Reserve University, Cleveland, Ohio 44106. An Equal Opportunity/Affirmative Action Employer. Employer.

#### POSITIONS OPEN

### Position available—YERKES REGIONAL PRIMATE RESEARCH CENTER

**REPRODUCTIVE BIOLOGY**-Position available REPRODUCTIVE BIOLOGY—Position available early 1979 for a Ph.D., preferably with background in endocrinology. Position involves independent and collaborative research into primate reproduction with emphasis on the great apes. D.V.M. (or equivalent) degree an advantage. Candidates will be ex-pected to qualify for joint appointment with a university department. Sond curriculum vitae, names of three references, and description of research inter-ests by 30 December to: Dr. Kenneth Gould, Yerkes Regional Primate Research Center, Emory Universi-ty, Atlanta, Ga. 30322. Emory University is an Equal Opportunity/Affirmative Action Employer.

**RESEARCH ASSOCIATE POSITION** available im-RESEARCH ASSOCIATE POSITION available im-mediately. Pharmacologist/pathologist, Ph.D., to study effects of algal toxins on organ systems of lab-oratory animals. Salary: \$14,000 to \$17,000, 12 months, on NIH grant. Send résumé and three let-ters of recommendation to: Dr. J. Wutoh, Principal Investigator, University of Maryland, Eastern Shore, Princess Anne, Md. 21853. An Equal Opportunity Employee Employer.

The University of California, San Francisco, Radiologic Imaging Laboratory has openings for a RE-SEARCH SPECTROSCOPIST, an RF ENGINEER, and an IMAGE PROCESSING PROGRAMMER to and an IMAGE PROCESSING PROGRAMMER to participate in research in nuclear magnetic reso-nance imaging. Send résumés to: University of Cali-fornia, San Francisco, Radiologic Imaging Laborato-ry, 400 Grandview Drive, South San Francisco, Calif. 94080.

SCIENTIST, SEM experience. One-year contract with possibility of permanent employment. B.S. minimum. \$17,000 to \$25,000 negotiable.

Contact: Barry McCabe, Dade County Crime Laboratory, 1320 N.W. 14 Street, Miami, Fla. 33125; telephone: 305-547-7332.

SENIOR EDITORIAL STAFF (chief deputy to edi-tor) for *Technology Review*, Massachusetts Institute of Technology (MIT) magazine of science, engineering, and policy for semi-technical and professional audience. Should have strong background in science and/or technology plus 3 to 5 years of writing and editing experience for nontechnical audiences (magazine preferred). Résumés and samples to: MIT Personnel Department (Position A78-70), 400 Main Street, Cambridge, Mass. 02139. An Equal Opportunity/Affirmative Action Employer.

SENIOR SCIENTIST—ECOLOGIST. The Institute for Desert Research, Ben-Gurion University, is seeking a senior scientist to head and direct the deseeking a senior scientist to head and direct the de-velopment of a Desert Ecosystem Research Unit at its Sede-Boqer Campus. Candidates with research interests in ecology and/or eco-physiology and with experience in administration will be given prefer-ence. The appointment will be made at the senior lecturer/professorial level and the salary set accord-ingly. Applications, including complete curriculum vitae and the names and addresses of three refer-ences, should be sent, no later than 1 January 1979 to: **Professor A. Richmond. Institute for Desert Re**to: Professor A. Richmond, Institute for Desert Research, Ben-Gurion University, P.O. Box 653, Beer Sheva 8420, Israel. Applications will be kept strictly confidential.

#### STRUCTURAL BIOLOGIST

STRUCTURAL BIOLOGIST The Department of Biological Sciences, Carnegie-Mellon University, invites applications from individ-uals whose research interests include the use of bio-chemical and biophysical techniques to study biolog-ical structures. The candidate should have post-doctoral experience. The position is at the assistant or associate professor level. Responsibilities include teaching at the undergraduate and graduate level, and carrying out an active research program. The applicant should forward curriculum vitae, three or more letters of reference, and a brief résumé of re-search plans to: Search Committee (A), Department of Biological Sciences, Carnegie-Mellon University, 400 Fifth Avenue, Pittsburgh, Pa. 15213. Carnegie-Mellon University is an Equal Opportunity/Affir-mative Action Employer. Please respond by 15 De-cember 1978. cember 1978.

The Department of Geology and Geophysics of the University of Utah announces the following faculty openings:

#### STRUCTURAL GEOLOGIST-TECTONOPHYSICIST JUNIOR LEVEL

The candidate should be well versed in the theory and use of modern techniques in structural geology and tectonophysics and should be willing to conduct field studies. We are looking for a person prepared to join a developing research program in regional tectonics. The position requires teaching at the undergraduate and graduate level, the supervision of graduate students and the pursuit of research in structural geology and/or tectonophysics. Ph.D. degree required.

#### SEDIMENTARY GEOLOGIST SENIOR LEVEL (Contingent Upon Funding)

SENIOR LEVEL (Contingent Upon Funding) Applications are invited from individuals with interests in the area of sedimentology and/or stratigraphy of marine or transitional deposits. Additional interests in either tectonic aspects of sedimentary processes or chemical sedimentology would be desirable but not essential. The applicant should be an effective teacher at all levels and should have an established reputation for excellence in research. Ph.D. degree required.

#### ORE DEPOSITS GEOLOGIST SENIOR LEVEL (Contingent Upon Funding)

Applications are invited from individuals with interests in the general area of ore genesis. Exploration experience is desirable. Applicants should have a strong theoretical background and an established research and publications record. The applicant must be qualified to teach graduate and undergraduate courses and to direct M.S. and Ph.D. thesis research. Ph.D. degree required.

For each of the above positions an applicant should submit a letter of application, a résumé, an expression of teaching and research interests, and the names of five professional references to: Dr. S. H. Ward, Chairman, Department of Geology and Geophysics, University of Utah, Salt Lake City, Utah 84112. Applications should be marked as STRUC-GIST, or ORE DEPOSITS GEOLOGIST. Applications should be submitted prior to 1 March 1979. The University of Utah is an Equal Opportunity/ Affirmative Action Employer.

#### CONCERCICULUM CONCERCICULUI CO

#### DIRECTOR

#### DIVISION OF SPONSORED RESEARCH

The University of South Florida, Tampa, Florida, is seeking applications for the position of director, Division of Sponsored Research, with an expected starting date of 1 September 1979. South Florida is one of the three doctoral-level institutions in the Florida State University System, with 20,600 undergraduate and 2,400 graduate students and a 1,000 member faculty.

The director of sponsored research reports directly to the vice president for academic affairs and works coordinately with the college deans. The salary is negotiable according to qualifications and experience, with a minimum beginning annual salary of \$36,000. Tenure-earning appointment in an appropriate academic department is available, subject to normal approval processes.

The director of sponsored research is the university's principal administrative officer regarding all grants and contracts for research and other scholarly projects. The incumbent should have had previous experience in the administration of grant- or contract-supported research and personal work experience involving contact with granting agencies at all levels of government, especially federal, and with private funding sources. The director provides informational and other support services to faculty members seeking support for their scholarly activities, administers a budget intended to stimulate faculty scholarly activity, chairs a faculty members and administrative and support personnel during the actual performance of sponsored projects.

Apply and submit curriculum vitae to: H. D. Kimmel, Search Committee Department of Psychology University of South Florida Tampa, Florida 33620

Deadline for receipt of application is 15 January

1979. The University of South Florida is an Affirmative

Action/Equal Opportunity Employer.

#### Engineer

#### INHALATION TOXICOLOGY ENGINEER

Position available for individual with B.S. and 5 years or M.S. and 3 years experience in Environmental, Chemical or Mechanical Engineering. Direct experience in Inhalation Toxicology and Associated Chamber Design/Operation is important but not essential. Must have knowledge of particle sizing, air flow dynamics in chambers, aerosol generation and mode of presentation of the vapor phase. Will be responsible for the overall operation of chambers.

For further information, send resume including salary history, in confidence to:

NORTHROP SERVICES, INC. P.O. Box 12313 Research Triangle Park, North Carolina 27709

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### MERRELL RESEARCH CENTER PHARMACOLOGISTS ANTI-INFLAMMATORY

This opening calls for a qualified individual to lead a group effort in identifying new therapeutic compounds for the treatment of rheumatoid arthritis. Must be oriented toward the development of new animal models which would define new mechanisms of action.

Requirements would ideally include: • at least 3 to 5 years of experience, preferably industrial, • immunological background applicable to this area, and • keen interest in identifying and developing new compounds.

#### AUTONOMIC PHARMACOLOGY

This opening calls for a Ph.D. level research pharmacologist to conduct investigations on the autonomic nervous system with a view to developing new therapeutic compounds. Requirements would ideally include: • up to 2 years of postdoctoral, • familiarity with a number of in vivo and in vitro techniques, • good foundation in bioassay principles involving pre- and postsynaptic receptors, and • use of radiotracer techniques.

Merrell Research Center, in Cincinnati, offers excellent starting salaries and fringe benefits.

Reply in confidence, including curriculum vitae, to: Dr. Richard C. Ursillo Department of Pharmacology

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Salary is competitive and benefits are attractive. Send full particulars of experience and earnings record to: Mr. R. Benthien, Research Division Personnel,

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1 DECEMBER 1978

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#### STAFF ASSOCIATE

Seeking postdoctoral Ph.D. or M.D. for laboratory devoted to molecular genetics and developmental cell biology. Salary dependent on postdoctoral level. To begin on or after 1 July 1979.

Send curriculum vitae, résumé, and names of three referees who have direct knowledge of candidate to: **Deputy Director of Administration** Cancer Center/Institute of Cancer Research 701 West 168 Street New York, New York 10032

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#### TOXICOLOGIST

Expanded emphasis in environmental health re-search makes tenure-track position available imme-diately for broadly trained toxicologist. Opportunity diately for broadly trained toxicologist. Opportunity to develop strong graduate research activities in area of specialty and interact in multidisciplinary re-search. Ph.D. in toxicology, pharmacology, or other pertinent field. Prior academic/postdoctoral experi-ence desired. Academic rank and salary commensu-rate with qualifications. Send résumé and three ref-erences to: Dr. Karen Yarbrough, Box 5165 Southern Station, University of Southern Mississippi, Hat-tiesburg, Miss. 39401. Telephone: 601-266-7269. Equal Opportunity/Affirmative Action Employer.

#### GRADUATE STUDY

### PREDOCTORAL POSITIONS IN PHARMACOLOGY

The Department of Pharmacology, Loyola Universi-ty Stritch School of Medicine, has positions avail-able in its training program leading to the degree of doctor of philosophy. The research interests of the doctor of philosophy. The research interests of the faculty include neuropharmacology, drug abuse, be-havioural pharmacology, biochemical pharmacolo-gy, and toxicology. Tuition fees and stipends are available for successful applicants. The program commences on 9 July 1979; applications must be completed by 1 February. Further information may be obtained from: Dr. G. Henderson, Department of Pharmacology, Loyola University Stritch School of Medicine, 2160 South First Avenue, Maywood, Illi-nois 60153.

GRADUATE ASSISTANTSHIPS IN LIFE SCI-ENCES are available for M.A. and Ph.D. candidates with research interests in animal, aquatic, physiolog-ical, and plant ecology; bacterial and physiological ical, and plant ecology; bacterial and physiological genetics; cardiac, comparative, endocrine, and sen-sory physiology; cellular biology; immunobiology; mycology; neurobiology; parasitology; and virology. Contact: Chairman, Department of Life Sciences, In-diana State University, Terre Haute, Indiana 47809, for applications and information. Indiana State Uni-versity is an Equal Opportunity/Affirmative Action Employer.

#### PROGRAMS

THE ROCKEFELLER FOUNDATION ANNOUNCES TWO INTERNATIONAL PROGRAMS

at the BELLAGIO STUDY AND CONFERENCE CENTER Bellagio (Como), Italy

International conferences—Small conferences or working groups focusing on topics or problems of international significance.

Scholars in residence-An opportunity for scholars to work for approximately 4 weeks on individual projects.

The foundation provides the facilities of the center. located about 40 miles north of Milan, on a com-petitive basis to residents and conference organizers. It normally does not pay for related costs, such as transportation, of the participants in these two programs. For more information, write:

Susan E. Garfield, Coordinator Bellagio Study and Conference Center The Rockefeller Foundation 1133 Avenue of the Americas New York, New York 10036

#### PROGRAMS

## POSTDOCTORAL TRAINING PROGRAM IN ENVIRONMENTAL AND INDUSTRIAL TOXICOLOGY

Thomas Jefferson University has designed a unique 2-year program for holders of the Ph.D. in chemis-try, biology, and related fields beginning July 1979. Program includes course work, research training, methodology, toxicologic evaluation, and field expe-rience in industrial laboratories. It leads to the M.S. rience in industrial laboratories. If leads to the M.S. (professional) degree in toxicology. A limited num-ber of positions provide postdoctoral level stipends (\$10,000 per year, plus tuition and health insurance). Program is also open to applicants sponsored by in-dustrial firms. Apply to: R. C. Baldridge, Dean, Col-lege of Graduate Studies, Thomas Jefferson Universi-ty, Philadelphia, Pa. 19107. Telephone: 215-928-8982.

#### TRAINEESHIPS

NIH PREDOCTORAL TRAINEESHIPS IN THEO-RETICAL BIOLOGY, NEUROSCIENCE, AND PHYSIOLOGY. Predoctoral traineeships for gradu-ate study in theoretical biology, neuroscience, and physiology through the Graduate Groups of Anato-my, Biochemistry, Biology, Physiology, Psychology and others are available beginning 1 July 1979. Send inquiries to: Dr. R. E. Forster, Department of Physi-ology, University of Pennsylvania School of Medicine, Philadelphia, Pa. 19104. Equal Opportunity Employer.

### TRAINING IN PSYCHOSOCIAL EPIDEMIOLOGY, UNIVERSITY OF ILLINOIS AT THE MEDICAL CENTER, SCHOOL OF PUBLIC HEALTH

PREDOCTORAL AND POSTDOCTORAL TRAIN-EESHIPS leading to advanced degrees in public health are available for 1979 in a new NIMH-sup-ported program in psychosocial epidemiology. Per-sons applying for this program must be firmly committed to long-term career goals involving academic or professional positions which entail a major comwitten to research in psychosocial epidemiology. For further information write to: Leo Levy, Ph.D., Director, Project in Psychosocial Epidemiology, School of Public Health, University of Illinois at the Medical Center, P.O. Box 6998, Chicago, Illinois 60680.

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#### FELLOWSHIPS

## POSTDOCTORAL RESEARCH FELLOWSHIPS IN HUNTINGTON'S DISEASE

Applications are invited for a 1-year postdoctoral Applications are invited for a 1-year postdoctoral fellowship in clinical and/or basic research in studies relating to problems of Huntington's Disease. Appli-cants must have professional degree of M.D. or Ph.D. Candidates are welcomed whose field of inter-est is one of the following areas: basic sciences, in-cluding neuroscience, biochemistry, molecular biol-ory, pathology, and pharmeology, or from such ogy, pathology, and pharmacology, or from such clinical specialties as neurology, psychiatry, and hu-man genetics. Fellowship stipend is \$13,000. The felman genetics. Fellowship stipend is \$13,000. The fel-lowship may be done at any institution with ade-quate facilities. Application deadline is 15 January 1979. Awards will be announced by 15 February 1979, for fellowship to begin 1 July 1979. Send cur-riculum vitae and bibliography, at least two letters of recommendation, and a proposed research program to: The National Huntington's Disease Association, Suite 501, 1441 Broadway, New York, N.Y. 10018.

POSTDOCTORAL FELLOWSHIP. Immediately available for recent graduate to work on phospholip-id metabolism in smooth muscle. Send curriculum vitae and references to: Dr. Ata Abdel-Latif, Depart-ment of Cell and Molecular Biology, Medical College of Georgia, Augusta, Ga. 30901. An Equal Opportu-nity/Affirmative Action Employer.

POSTDOCTORAL FELLOWSHIP available in 1979 POSTDOCTORAL FELLOWSHIP available in 19/9 for Ph.D. or M.D. in the field of neuroendocrinolo-gy/neurochemistry. Successful applicant will join ongoing research in normal and tumor biosynthesis of peptide hormones, particularly of vasopressin, oxytocin, and neurophysins. Send curriculum vitae and names of three referees to: Dr. William G. North and Dr. Heinz Valtin, Department of Physiology, Dartmouth Medical School, Hanover, N.H. 03755.

#### **FELLOWSHIPS**

#### POSTDOCTORAL POSITION

Available for research on preimplantation mamma-lian embryos. Studies are on the biochemistry of embryo development as well as on micromanipulation of the embryo to alter differentiation. Apply with curriculum vitae to: R. L. Brinster, Laboratory of Reproductive Physiology, School of Veterinary Medi-cine, University of Pennsylvania, Philadelphia, Penn-sylvania 19104.

POSTDOCTORAL FELLOWSHIP IN CLINICAL IMMUNOLOGY. Program includes studies on (i) purine metabolism and immunodeficiency disease, and (ii) pharmacologic control of the immune re-sponse. Available 1 July 1979. Reply to: John H. Vaughan, M.D., and Dennis A. Carson, M.D., Re-search Institute of Scripps Clinic, 10666 North Torrey Pines Road, La Jolla, California 92037.

## POSTDOCTORAL FELLOWSHIP IN PATHOLOGY OF MEMBRANES AND ORGANELLES

NIH traineeship available immediately for research NIH traineeship available immediately for research in diabetes at the level of the pancreatic islet cell. Position offers interdisciplinary training in cell sur-face immunochemistry, cell culture, and elec-trophysiological and biochemical aspects of stimu-lus-secretion coupling in the pancreatic islet cells. Only U.S. citizens or permanent residents will be considered. Applications consisting of a statement of research interests curriculum vitae and there ref. considered: Applications consisting of a statement of research interests, curriculum vitae, and three ref-erences, should be sent to: Dr. C. S. Pace, Diabetes Research and Training Center, University of Alabama Medical School, Birmingham, Ala. 35294. An Equal Opportunity/Affirmative Action Employer.

POLYMER SCIENCE AND ENGINEERING, UNI-VERSITY OF MASSACHUSETTS AT AMHERST. Research fellowships will be awarded in 1979-1980 for studies toward a Ph.D. degree in the Polymer for studies toward a Ph.D. degree in the Polymer Science and Engineering Department. Each fellow-ship will pay \$5200 per year. The stipends are in-come-tax free and include a tuition waiver. Research and course programs are available in polymer syn-thesis, characterization, morphology, rheology, physics, and engineering. Applications by qualified students with a first degree in chemistry, physics, materials science, or engineering should be made to: **Professor Richard J.** Farris, Polymer Science and En-gineering, University of Massachusetts, Amherst, Massachusetts 01003. An Equal Opportunity/Affir-mative Action Employer.

POSTDOCTORAL FELLOWSHIP IN CANCER ETIOLOGY. Postdoctoral fellowships in cancer etiology are available at the Medical College of Vir-ginia/Virginia Commonwealth University. Training will include cellular pharmacokinetics, tumor immu-nology and immunotherapy, tumor virology, and molecular biology. Training methods include indi-vidualized research, lectures, courses, seminars, and conferences. Only U.S. citizens or foreign na-tionals with permanent resident or immigrant visas will be considered. Send inquiry with brief résumé to: Dr. Page Morahan or Dr. Robert Taub, Cancer Etiology Training Grant, Program Co-Directors, De-partments of Microbiology and Medical Oncology, P.O. Box 273, Medical College of Virginia, Rich-mond, Va. 23298. POSTDOCTORAL FELLOWSHIP IN CANCER

POSTDOCTORAL FELLOWSHIP AVAILABLE IN OPHTHALMOLOGY/BIOMEDICAL ENGINEER-ING. Subject of research is the mathematical analy-sis of strabismus. Applicant should be familiar with mechanics, vector algebra, and computer program-ming. A knowledge of strabismus is helpful but not necessary. Inquiries to: Dr. David A. Robinson, De-partment of Ophthalmology, The Johns Hopkins Hos-pital, 601 North Broadway, Baltimore, Md. 21205.

GRADUATE TRAINING IN PHARMACOLOGY. Research training and course work leading to the Ph.D. degree and realistically designed for career opportunities in this expanding field are offered. Maopportunities in this expanding field are offered. Ma-jor departmental research programs include: molec-ular, cardiovascular, renal, and nervous system pharmacology; the toxicology of therapeutic and en-vironmental agents including drugs of abuse; clinical pharmacology. A limited number of fellowships of fering stipend and tuition are available. Early appli-cation for August 1979 is advised. Apply to: Director of Graduate Studies, Department of Pharmacology and Therapeutics, Medical School, State University of New York at Buffalo, 127 Farber Hall, Buffalo, N.Y. 14214. An Equal Opportunity/Affirmative Action Employer.

### ENVIRONMENTAL SCIENTIST

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We are seeking an individual whose primary responsibilities will entail developing research programs and managing research contracts to achieve comprehensive assessment of alternative energy related technologies, establishing cost-benefit relationships, assessing impacts of regulations on technologies. Will act in liaison capacity with industry and government.

Candidates must have a PhD or equivalent in environmental economics, engineering, operations research, or an environmental discipline. A strong interest in environmental policy and impact assessment is required. Prefer two years experience managing or performing research in an environmental discipline. EPRI is a private non-profit R&D organization dedicated to developing technologies in environmentally acceptable ways. Please submit resume with salary history and requirements to Ms. Rosemary Dinelli.



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#### LINCOLN COLLEGE (University College of Agriculture) New Zealand

#### CHAIR IN HORTICULTURE

The Council of Lincoln College, University College of Agriculture, invites applications for the position of Professor of Horticulture and Head of the Department of Horticulture, Landscape and Parks. This Chair has become vacant on the appointment of Professor T. M. Morrison to the position of Director of the Queensland Agricultural College.

Applicants should hold an advanced degree in a field appropriate to any of the responsibilities of the Department which cover horticultural sciences, production, management, parks and recreation, and landscape architecture, and should have an established record in teaching and/or research.

The successful applicant will be appointed as Head of Department and will be responsible to the College Principal for the administration of his Department. Previous administrative experience will therefore be taken into consideration.

The appointment will be made within the existing range of professorial salaries, NZ\$23,012-NZ\$29,188 per annum, the commencing salary being determined by the College Council. Academic salary scales are at present under review.

Expenses of appointment reimbursed up to specified limits. New Zealand Government Superannuation is available.

Further details and General Conditions of Appointment are obtainable from the Secretary General, Association of Commonwealth Universities (Appts), 36 Gordon Square, London WC1H OPF, or from the Registrar of the College.

Applications close on 15 January 1979. Please quote Vacancy No. 78/60.



The National Hesearch Council will make approximately 250 awards for researchin federal laboratories in 1979. The Research Associateship programs provide scientists and engineers opportunities for post doctoral research in fields of:

ATMOSPHERIC & EARTH SCIENCES CHEMISTRY ENGINEERING ENVIRONMENTAL SCIENCES LIFE SCIENCES MATHEMATICS PHYSICS SPACE SCIENCES

Some programs are restricted to U.S. citizens. For information on specific research opportunities, program details, and application materials, write, giving research area of interest, to:

Associateship Office (JH 608-S3) NATIONAL RESEARCH COUNCIL 2101 Constitution Avenue, N.W. Washington, D.C. 20418

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## STAFF FELLOWSHIP

The National Institute of Environmental Health Sciences, National Institutes of Health, Public Health Service, invites applications for a two year appointment under the Staff Fellowship Program. The incumbent will participate in the research program of the Prostaglandin Group, Laboratory of Pulmonary Function and Toxicology, Intramural Research Program. The research program is studying the biosynthesis and metabolism of prostaglandins and related substance by pulmonary tissue and blood vessels as related to pulmonary and cardiovascular diseases. The position requires a Ph.D. or equivalent in either Biochemistry, Chemistry, Pharmacology or Physiology. Only candidates with experience and publications in the field of prostaglandins or lipid will be considered.

Salary range \$15,120 to \$28,823 per annum depending on qualifications. Letters of application with curriculum vitae, bibliography, and names and addresses of two references should be mailed by December 22, 1978, to:

> D. Wayne Brooks Personnel Office, NIEHS NATIONAL INSTITUTES OF HEALTH P.O. Box 12233 Research Triangle Park, NC 27709

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### - J. ROBERT OPPENHEIMER RESEARCH FELLOWSHIP-

In addition to our Laboratory's regular postdoctoral program, a special postdoctoral research fellowship will become available beginning about June, 1979. Named in honor of the first Director of the Los Alamos Scientific Laboratory, the program is intended to foster continuing interactions between the Laboratory and recent recipients of doctoral degrees who show clear and definite promise of becoming outstanding leaders in scientific research.

Appointments are considered in the physical sciences, the natural sciences, mathematics, and engineering.

The one to three year appointments carry an annual salary of \$25,000.00.

Closing date for the competition is December 31, 1978.

Inquiries should be

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