Personnel Placement

POSITIONS WANTED

Cell/Molecular Biologist, Ph.D. 1970, postdoctoral for 3 years, senior investigator research institute for 4 years; looking for something different and chal-lenging, not necessarily in straight research. Publicaienging, not necessarily in straight research. Publications, supervisory experience, university teaching for 3 years, fellowships. Current interests: molecular/genetic mechanisms, eukaryotic cell regulation, and neoplastic growth. Broad experience in bacterial and tissue culture, enzymology, amino acid and nucleic acid biochemistry, genetics. Prefers West, Southwest. Box 401, SCIENCE.

Clinical Chemist: Ph.D. biochemist seeks post-doctoral position in clinical chemistry to qualify for board exam. Box 391, SCIENCE.

Electrophysiologist/Neurobiologist, M.D., publications, grants, teaching experience; seeks or research position. Box 392, SCIENCE.

Ph.D. Entomologist/Biologist; broad background with strength in systematics of aquatic indicators and population dynamics; publications limited by teaching responsibilities; desires teaching/research/ curatorial. Box 398, SCIENCE.

Experimental Surgeon (cardiovascular), D.V.M., Ph.D., 8 years of experience. Seeks academic, industrial, or governmental position. Recum, 40350 Seven Mile Road, Northville, Michigan 48167. X

Immunochemist; Ph.D. biochemistry, M.S. physiology. Strong background in protein chemistry, radio-assays, fluorescent techniques, subcellular fractionation, IgG receptor isolation, affinity chromatography. Three-year postdoctoral at leading cancer center, publications. Desires research position in area of immune-regulation, suppression of T cell response. Box 397, SCIENCE.

Immunopharmacologist, Ph.D., Polish Academy of Sciences, 1972, United States, 1973–1974. Publications. Seeking research position with medical or industrial market in United States, Canada, or Western Europe. Box 399, SCIENCE.

M.D., M.Sc. (Biology), seeking postdoctoral post or academic/industrial position in medical, nutritional, and biological field. Available immediately. Dr. Hsu, Apartment 5, 125 Clayton Street, San Francisco, California 94117.

Pharmacologist—D.D.S., Ph.D. 1973, D.D.S. 1977. Currently American Cancer Society Fellow (oral medicine). Experience in teaching and clinical and laboratory research; seeking academic and/or research position. Interests include the immunology and pharmacology of ulcerative oral mucosal diseases, oral cancer, and peridontal disease. Available 1 July 1978. Box 362, SCIENCE. X

Ph.D., 1975, in entomology; minors in biology and bacteriology; wide range of teaching experience; 2 years of administration; interests in environmental biology, science education, parasitology; seeks administration/teaching/research. Box 400, SCIENCE.

POSITIONS OPEN

The Biology Department of Boston University invites applicants for three tenure-track ASSISTANT PROFESSOR positions in: (i) TERRESTRIAL PLANT ECOLOGY/PHYSIOLOGY, (ii) INSECT ECOLOGY/BEHAVIOR, and (iii) LOWER VERTE-BRATE PHYSIOLOGICAL ECOLOGY. Post-doctoral experience is required and a strong interest in ecological and/or evolutionary interactions between taxa; use of biochemical data desirable. A vigorous research program is expected. Teaching involves participation in introductory, upper-level, and graduate courses. Please submit a curriculum vitae, including a statement of teaching and research interests, and three letters of recommendation no later than 31 December 1977 to: Ecology Search Committee, Biology Department, Boston University, Boston, Mass. 02215. Boston University is an Equal Opportunityl/Affirmative Action Employer. The Biology Department of Boston University in-

POSITIONS OPEN

DEPARTMENT OF OPHTHALMOLOGY OF WAYNE STATE UNIVERSITY

The department is seeking applications from ACA-DEMIC OPHTHALMOLOGISTS (M.D.), for appointments in neuro-ophthalmology and other academic subspecialties of ophthalmology. Demonstrated ability to perform basic and/or clinical research is essential. Please send curriculum vitae to: Chairman, Department of Ophthalmology, Wayne State University School of Medicine, 540 East Canfield, Detroit, Michigan 48201. An Equal Opportunity/Affirmative Action Employer.

ACADEMIC POSITION: Department of Chemistry of the University of Nebraska-Lincoln seeks to add one Ph.D. organic chemist as a tenure-track assistant professor beginning September 1978. The position involves teaching on both undergraduate and graduate levels, and the development of a high-quality research program. A curriculum vitae, including a list of publications, a being acquired frequency in the control of the program. of publications, a brief account of research interests, three letters of recommendation, and copies of graduate and undergraduate transcripts should be sent to: Professor C. J. Michejda or Professor R. D. Rieke, Department of Chemistry, University of Nebraska, Lincoln, Neb. 68588. The closing date for applications is 15 December 1977. University of Nebraska is an Affirmative Action/Equal Opportunity Employer.

FACULTY POSITIONS AVAILABLE ANATOMISTS

Two positions available 1 July 1978 at the assistant professor level. Applicants must have Ph.D. degree professor level. Applicants must have Ph.D. degree in anatomy, or equivalent as well as demonstrated ability to teach either gross anatomy, histology, embryology, or neuroanatomy. Preference will be given to candidates with records of research accomplishment in cell biology, immunology, or neuroscience. Applicants should submit curriculum vitae, brief description of future research plans, and names and addresses of three references the dresses of three references to:

Dr. Ronald L. St. Pierre, Chairman
Department of Anatomy
The Ohio State University
4072 Graves Hall
333 West 10th Avenue
Columbus, Ohio 43210

The Ohio State University is an Affirmative Action/ Equal Opportunity Employer

ANATOMIST

Neuroanatomist, associate or assistant professor. Candidates must have a doctorate in anatomy, or equivalent, and have demonstrated competent research and teaching abilities. The primary teaching responsibility will be in a human neuroanatomy course for medical students. The department has well-equipped research facilities and a developing graduate program. Rank and salary depend on qualifications. Position open summer of 1978. Application deadline: 15 February 1978. For further information send curriculum vitae to: Dr. William G. Seliger, Chairman, Department of Anatomy, School of Medicine, Texas Tech University, Lubbock, Texas 79409.

An Equal Opportunity Employer

An Equal Opportunity Employer

UNIVERSITY OF OKLAHOMA College of Medicine

Applications are solicited for faculty position in the following department: ANATOMICAL SCIENCES. (#25) Assistant professor-M.D. or Ph.D., responsible for research and teaching, especially in neuroanatomy.

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

AQUATIC BIOLOGIST

A leading environmental consultant has a position available for an aquatic biologist with a Ph.D. and 2 to 3 years experience. Responsibilities will include the design and execution of studies to evaluate impact of water quality parameters on aquatic commu-

Requirements include a knowledge of environmental regulations and a demonstrated writing ability. Please send résumé with salary history to: George Kenoyer, Box 1899, Pittsburgh, Pa. 15230.

An Equal Opportunity Employer, M/F

POSITIONS OPEN

Faculty position in ANIMAL BREEDING AND GENETICS. Assistant, associate, or professor rank, 50 NETICS. Assistant, associate, or professor rank, 50 percent teaching, 50 percent research. Ph.D. in genetics or animal breeding, with strong background in quantitative genetics, and interest in livestock improvement. Teaching responsibilities will include both undergraduate courses in animal genetics, and contribution to livestock production courses. Research responsibilities in cattle (beef and/or dairy) breeding with approximative for research with laborations. breeding, with opportunities for research with laboratory animals. Applicants should submit résumé, ratory animals. Applicants should submit resume, transcripts, publication list, other pertinent information, and three letters of reference to: G. E. Bradford, Department of Animal Science, University of California, Davis, Calif. 95616, prior to 15 December 1977. Position available 1 January 1978; can be held open to September 1978. The University of California is an Equal Opportunity/Affirmative Action Employer

ASSISTANT PROFESSOR OF BIOCHEMISTRY UNIVERSITY OF IOWA

The Department of Biochemistry expects to make an appointment at the assistant professor level on 1 July 1978. Applicants should hold a Ph.D. and/or M.D. degree. Preference will be given to candidates who have had postdoctoral training with demonstrated productivity and promise in biochemistry.

The University of Iowa is an Equal Opportunity Employer; women and members of minority groups are specifically encouraged to apply.

Please send a curriculum vitae including your bibliography, a brief description of anticipated future research directions, and three letters of reference by 1 December 1977 to:

Dr. Charles A. Swenson Chairman, Search Committee Department of Biochemistry College of Medicine The University of Iowa Iowa City, Iowa 52242

ASSISTANT PROFESSOR OF BIOLOGICAL SCIENCES

The Department of Biological Sciences of the University of Southern California is examining applications from qualified researchers in the areas of membrane biophysics. While preference will be given to those experienced in electrophysiology, applications in any related area will be considered. Promotion to tenure will depend upon establishing an outstanding program of research and teaching. A curriculum vitae, a statement of research interests, copies of relevant publications, and three letters of recommendation should be sent by 1 December 1977 directly to: William O. McClure, Department of Biological Sciences, University of Southern California 90007. The University of Southern California is an Affirmative Action/Equal Opportunity Employer. Minority and women candidates are encouraged to apply. The Department of Biological Sciences of the Uni-

DEPARTMENT OF BOTANY UNIVERSITY OF CALIFORNIA, BERKELEY

Applications are invited for an anticipated opening at the level of ASSISTANT PROFESSOR IN BOTANY. The teaching and research interests of the candidates should be in the area of plant physiology. The successful candidate will teach courses in plant physiology, contribute to the teaching of general biology or botany and develop a graduate research program.

program.
Applicants should send a curriculum vitae (including relevant course work), bibliography with copies of publications, and a summary of teaching and research objectives to: W. M. Laetsch, Chairman, Search Committee, Department of Botany, University of California, Berkeley, California 94720. Applicants should also send to the chairman of the Search Committee three letters of reference. The review of applications will be begin 1 December 1977. Women and minorities are urged to apply. The University of California is an Equal Opportunity/Affirmative Action Employer. Employer.

ASSISTANT PROFESSOR OF PHYSICAL CHEMISTRY

Tenure-track position in active department for September 1978. Research, graduate, and undergraduate teaching; general, analytical and physical chemistry. Submit curriculum vitae, names of references, and supporting documents to: Professor E. M. Pearce, Head, Chemistry Department, Polytechnic Institute of New York, 333 Jay Street, Brooklyn, N.Y. 11201 by 1 December 1977. Equal Opportunity Employer.

ASSISTANT PROFESSOR OF CHEMISTRY-JAN-UARY 1978. The Texas Woman's University offers a tenure-track appointment in biochemistry. An undergraduate degree in chemistry, postdoctoral experience, a vigorous interest in biochemical research, rience, a vigorous interest in biochemical research, and teaching experience are required. Salary competitive nationally. All applicants should submit a résumé, a statement of research interests, and have three letters of reference sent directly to: Dr. James E. Johnson, Acting Chairman, Department of Chemistry, The Texas Woman's University, Box 23973 TWU Station, Denton, Texas 76204. Texas Woman's University is an Affirmative Action/Equal Opportunity Employer.

ASSISTANT PROFESSOR OF CHEMISTRY. A regular appointment is anticipated effective 1 July 1978. Excellent opportunity for someone interested in a career which emphasizes both research and undergraduate teaching. Applicants must have a Ph.D. and be able to teach inorganic chemistry and other courses in the curriculum. Please send a résumé and courses in the curriculum. Please send a resume and brief description of your research and teaching ideas to: Chairman, Department of Chemistry, Amherst College, Amherst, Massachusetts 01002. Transcripts and three letters of recommendation must also be received by 5 December 1977 if your application is to be considered. Amherst College is an Equal Opportunity/Affirmative Action Employer tunity/Affirmative Action Employer.

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

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

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

Professor Albert R. Meyer Chairman, Computer Science Search Committee MIT, NE43-515 Cambridge, Mass. 02139

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

ASSISTANT PROFESSOR OF PHYSIOLOGY

We invite applications from highly qualified indi-We invite applications from highly qualified individuals with a commitment to research and teaching. We are especially interested in those with a background in renal or respiratory physiology. Teaching responsibilities are for medical students in human medical physiology and graduate students in area of specialty. Applicants must have a Ph.D., 2 years postdoctoral experience, and potential for carrying out an independent research program. Applications close 31 December 1977. Applicant should send a curriculum vitae and a brief description of anticipated future research directions and direct that three letters of recommendation be sent to: Joseph D. Weltetters of recommendation be sent to: Joseph D. Welty, Ph.D., Section on Physiology, Division of Biochemistry, Physiology and Pharmacology, The University of South Dakota School of Medicine, Vermillion, S.D. 57069. letters of recommendation be sent to: Joseph D. Wel-

Equal Education and Employment Opportunity/Affirmative Action Institution

CHAIRPERSON, DEPARTMENT OF SURGERY

The University of California, Davis, is seeking the most highly qualified individual to become chairperson of its Department of Surgery on 1 January 1978. Candidates must be at the associate or full professor level and have substantial background in academic surgery, with interest and experience in patient care, teaching, research, and administration. The University is an Equal Opportunity/Affirmative Action Employer. Interested persons should submit letters summarizing their qualifications and curriculum vitae at the earliest possible time to: Paul R. Lipscomb, M.D., Chairperson, Search Committee, University of California, Davis, Professional Building, 4301 X Street, Sacramento, California 95817.

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POSITIONS OPEN

DEPARTMENT OF BIOLOGY THE UNIVERSITY OF CALGARY ASSISTANT PROFESSORS IN PLANT BIOLOGY

Applications are invited from plant biologists committed to excellence in undergraduate and graduate teaching and research. It is anticipated that two appointments will be made as of 1 July 1978.

One position will involve teaching of plant community ecology and taxonomy of vascular plants and establishment of a research program. The other position will involve teaching of plant anatomy and a research program in experimental plant anatomy. Initial appointments will be made for 3 year terms. Current salary floor for assistant professors is \$17,800 per annum.

Applicants should submit a curriculum vitae and ask three referees to send letters of reference to: Dr. John H. Williamson, Head, Department of Biology, The University of Calgary, Calgary, Alberta, Canada, T2N 1N4 by 1 February 1977.

ASSISTANT RESEARCHER

To conduct experimental and theoretical research on the interaction of electric and magnetic fields with neural tissue. We desire a person who has a Ph.D. neural tissue. We desire a person who has a Ph.D. with a physics background, experience with invertebrate neurophysiology, electrophysiology, and competence to develop theoretical models of plasma membrane structure/function relations. This is a nontenured position funded for 10 months and will commence 1 December 1977. Address correspondence to: M. Beltman, Brain Research Institute, University of California, Los Angeles, California 90024. An Equal Opportunity/Affirmative Action Employer.

BIOCHEMIST-MOLECULAR BIOLOGIST

The Department of Biochemistry is seeking a fac-The Department of Biochemistry is seeking a faculty member with research interests in the area of the molecular biology of mammalian systems. Applicants should forward a curriculum vitae with complete bibliography, summary of future research interests, and the names of three references no later than 15 November 1977 to: Dr. Eugene G. Sander, Chairman, Department of Biochemistry, West Virginia University School of Medicine, Morgantown, W. Va. 26506. West Virginia University is an Affirmative Action/Equal Opportunity Employer. tive Action/Equal Opportunity Employer.

BIOCHEMIST with experience in isolating messenger RNA for human gamma globulin chains. Submit curriculum vitae and names of three references to

Box 405, SCIENCE

BIOLOGIST, ASSISTANT PROFESSOR. We are seeking an individual with a broad background in biseeking an individual with a broad background in biology to teach the zoology portion of a large general biology course as well as to develop and conduct a research program. Reply with résumé and three letters of recommendation to: Dr. Howard Passmore, Search Committee, Department of Zoology, P.O. Box 1059, Rutgers University, Piscataway, N.J. 08854. Rutgers University is an Equal Opportunity/Affirmative Action Fundager tive Action Employer.

CHIEF, **ENVIRONMENTAL CONTROL** AND RESEARCH LABORATORY

An individual is being sought to head a comprehensive safety program in a large, multi-faceted cancer research center. Program scope includes surveillance and regulation of the use of oncogenic viruses, recombinant DNA molecules and other biological materials, chemical carcinogens and other hazardous chemicals, and radiological materials. Also included are research programs related to the safe use of hazardous biological and chemical materials.

The successful candidate will have an advanced degree and ten or more years of experience in safety management, environmental chemical research, and environmental biological research.

Resumes, including salary history and salary requirements, should be addressed to M.L. Knill, Recruitment Manager, Litton Bionetics, Inc., FREDERICK CANCER RESEARCH CENTER, P.O. Box B, Frederick, MD 21701.

An Equal Opportunity Employer M/F

POSITIONS OPEN

BIOCHEMIST required to work on lung growth and development. Research experience in cyclic nucleotide field is desirable. Two-year appointment. Submit curriculum vitae including the names and addresses of two referees to: Dr. W. M. Thurlbeck, Professor and Head, Department of Pathology, University of Manitoba, Health Sciences Centre, 700 William Avenue, Winnipeg, Manitoba, Canada R3E 0Z3. BIOCHEMIST required to work on lung growth and

CELL AND DEVELOPMENTAL BIOLOGY

The Department of Biology of Boston University invites applications for two positions at the assistant professor level beginning January or September 1978 in the general areas of:

1) CELL BIOLOGY/CELL PHYSIOLOGY, and

2) DEVELOPMENTAL BIOLOGY

The establishment of an active research program is The establishment of an active research program is expected. Teaching at the introductory, advanced, and graduate levels is required. Teaching experience, postdoctoral training, and significant publications preferred. Submit curriculum vitae, pertinent publications, and at least three letters of recommendation to arrive by 28 November 1977 to: Department of Biology, Boston University, Chairman, 2 Cummington Street, Boston, Mass. 02215. The University is an Equal Opportunity/Affirmative Action Employer Employer.

CHAIRMAN, Department of Pathology. The University of Missouri Medical Center is recruiting for a chairman and professor of the Department of Pathology. The position includes (i) directing pathology ogy. The position includes (1) directing pathology teaching program in a major medical school plus responsibilities for the house staff program in a major paramedical training program; (ii) directing and operating a full-service specialty oriented clinical laborations. erating a full-service specialty oriented clinical laboratory in the 500-bed university hospital, plus providing professional service and direction for a 450-bed Veterans Administration hospital; and (iii) directing and expanding a research program. Candidate must be M.D. Send curriculum vitae to: Dr. B. J. Campbell, Chairman, Pathology Search Committee, University of Missouri Medical Center, Columbia, Missouri 65201. An Equal Opportunity/Affirmative Action Employer.

CHAIRMAN DEPARTMENT OF BIOLOGICAL SCIENCES

The Department of Biolocial Sciences is seeking a chairman for appointment in June or August 1978. Candidates should have the Ph.D. and should demonstrate competence in teaching, administration, and research. Experience in development and administration of grants is essential.

The department staff includes 14 faculty and 2 technicians serving some 1600 students each semester. Students served include 220 biology majors, 150 agriculture majors, and 15 M.S. graduate students.

Applications from candidates should be received no later than 16 December 1977. Curriculum vitae, three or more references, and preliminary supportthree or more references, and preliminary supporting information such as reprints of significant publications should be forwarded to: Dr. William Davies, Chairman, Department of Biological Sciences, Indiana University-Purdue University at Fort Wayne, 2101 Coliseum Boulevard East, Fort Wayne, Indiana 46805. Indiana University-Purdue University at Fort Wayne is an Equal Opportunity/Affirmative Action Employer Employer.

CHEMICAL ENGINEER UNIVERSITY OF ARIZONA

A regular faculty position in the Department of A regular faculty position in the Department of Chemical Engineering is available. The rank will depend on the background and experience of the individual. Strong research interests and teaching ability are required. Applications received before 1 December 1977 will be given preference. Please send curriculum vitae and list of three references to: Dr. Joseph F. Gross, Head, Department of Chemical Engineering, University of Arizona, Tuscon, Arizona 85721. The University of Arizona is an Equal Opportunity/Affirmative Action/Title IX/Section 504 Employer.

CHEMISTRY. Assistant professor-analytical Ph.D., CHEMISTRY. Assistant professor-analytical Ph.D., preferably with postdoctoral experience, to establish a strong research group, develop and teach undergraduate and graduate courses. Experience in the application of electronics and computer interacing for data acquisition is desirable. Minimum salary \$13,000 for 9 months. Send curriculum vitae, brief research plans, and names of three references to: John Gordon, Acting Chairman, Department of Chemistry, Kent State University, Kent, Ohio 44242. An Equal Opportunity/Affirmative Action Employer.

CHAIRMAN DEPARTMENT OF PHARMACOLOGY

The University of Florida College of Medicine seeks a distinguished individual to succeed Dr. seeks a distinguished individual to succeed Dr. Thomas H. Maren as professor and chairman of pharmacology. Applications from and nominations of individuals possessing the M.D. and/or Ph.D. are requested. Applicants should have an outstanding record of accomplishment in research and a clear commitment to both medical and graduate education.

Applications should include curriculum vitae, bibliography, and names of at least four references, and should be sent to:

Dr. Kenneth I. Berns Dr. Kenneth I. Berns Chairman, Pharmacology Search Committee Box J-266, JHMHC University of Florida Gainesville, Florida 32610

prior to 1 December 1977.

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

CHIEF AQUATIC ECOLOGIST. Administrative duties, project management, preparation of proposals and presentation of Q & E's. Technical duties include environmental impact analysis and assessments, report preparation and review. Broad aquatic background and past management experience. Minimum of Ph.D. in applied ecology (\$20,000 to \$27.000)

AQUATIC ECOLOGIST. Generalist with broad capabilities in life sciences including ecology, air and water resources, planning and socioeconomics. Must have a good understanding of regulations and experience in the planning, coordination, and management of environmental assessments. Minimum of M.S. and 5 years' experience (\$18,000 to \$24,500).

TERRESTRIAL ECOLOGIST. For wetland and wildlife ecology studies. Must have experience in field surveys of plants and animals, environmental impact assessments, report writing, and subproject management. Minimum of M.S. and 3 years' experience or Ph.D. (\$15,000 to \$20,000).

ENVIRONMENTAL SCIENCE AND ENGINEERING, INC. P.O. Box 13454 Gainesville, Florida 32604

An Equal Opportunity Employer

FACULTY POSITION IN CYTOGENETICS

CYTOGENETICIST, assistant professor of genetics for appointment effective 1 July 1978. Training in genetics and molecular biology essential. Responsibilities include undergraduate and graduate instruction in cytogenetics and evolution. Research interests may center on chromosomes and/or chromatin structure, genome organization, and gene expression or gene regulation in eucaryotes. A research program balanced between fundamental and applied problems in agriculture is desired. Send curriculum vitae, reprints, brief statement of research plans, and three letters of reference to:

The Search Committee
Department of Genetics
345 Mulford Hall
University of California
Berkeley, California 94720

Deadline for complete applications is 31 December 1977. The University of California is an Equal Opportunity Employer. Women and minority applicants are welcome

DIVISION ADMINISTRATOR CALIFORNIA INSTITUTE OF TECHNOLOGY

The Division of Geological and Planetary Sciences invites applications for the position of division administrator to assist the division chairman in coordinating administrative services. Responsibilities include budget preparation and control, personnel functions, liaison with the support services for facilities must be supported by the properties of the control of the ties maintenance and planning, an annual research report, purchasing, and other assistance to the chair-man and faculty as required.

Degree in an earth science or closely related scientific field required plus experience in administration or accounting, including supervisory background. Ability to interface well with faculty, students, and off is a proceeding the students.

staff is a necessity.

Please respond with résumé to: B. Kamb, Chairman, Division of Geological and Planetary Sciences, California Institute of Technology, Pasadena, California 91125. An Equal Opportunity Employer, M/F.

POSITIONS OPEN

DIRECTOR OF PRODUCT DEVELOPMENT

We are seeking a Ph.D. level microbiologist preferably with business training in marketing and production. The position will report directly to the executive vice president and will be responsible for the management and direction of all product development efforts for research and diagnostic products in the field of microbiology and related disciplines. Top pay, incentive programs, and generous employ-ee benefits.

Reply in confidence with résumé and salary requirements to:

Frank E. Ohl Director, Industrial Relations The Mogul Corporation P.O. Box 200 Chagrin Falls, Ohio 44022

ORAL BIOLOGY DIRECTOR COLUMBIA DENTAL SCHOOL

Candidates should have doctorate degrees in dentistry and a basic biological science and significant scholarly and research contributions in oral biology well as considerable administrative experience

Candidates should be prepared to reorganize and develop the research and teaching programs of the division, teach in oral biology and basic science courses, develop a research training program, and participate in curricular development and adminis-

Send curriculum vitae to: Dr. Irwin D. Mandel, Director, Division of Preventive Dentistry, School of Dental and Oral Surgery, Columbia University, 630 West 168 Street, New York, N.Y. 10032.

Equal Opportunity/Affirmative Action Employer, M/F

ENDOCRINOLOGIST. The Department of Zoology has a faculty position, preferably at the assistant professor level, in comparative, systems, or neuroendocrinology. Applicants should have a widely based interest in endocrinology and will be expected nology and a graduate course in general endocri-nology and a graduate course in a specialty area. Applicants must also have demonstrated ability to carry out original research and have had postdoctoral experience. The appointment will not be in the area of perience. The appointment will not be in the area of reproductive endocrinology, which is already well represented on campus. Those wishing to apply should send curriculum vitae and a one-page summary of research interests to: Antony Stretton, Department of Zoology, University of Wisconsin, Madison, Wisconsin 53706 before 1 December 1977. An Equal Opportunity Employer.

ENTOMOLOGIST

Assistant professor to conduct research on the ecology of soil insects. Applicant must have Ph.D. in entomology or related field. Completed applications will be accepted until 31 December 1977. Send cur-riculum vitae, transcripts, thesis summary, reprints, and names of at least three sources of reference to: Dr. H. H. Neunzig, Chairman of Search Committee, Department of Entomology, North Carolina State University, Raleigh, North Carolina 27607. Equal Opportunity/Affirmative Action Employer.

Loyola College has a position available for a full-time FACULTY MEMBER with expertise in the area of microbiology. Applicants will be expected to teach general microbiology and participate in team-taught botany and zoology courses. A normal teaching load is two courses per semester and two January term courses every 3 years. Duties include committee participation and student advising, and research is encouraged. Faculty research facilities will be available in a new building which is scheduled for completion in summer 1978. The Ph.D. is required but advanced doctoral candidates will be considered. Interested amplicants should forward copies of ered. Interested applicants should forward copies of all transcripts, names of three referees, and curriculum vitae to: Dr. Charles R. Graham, Jr., Department of Biology, Loyola College, 4501 North Charles Street, Baltimore, Md. 21210. Loyola College is an Equal Opportunity/Affirmative Action Employer.

FISHERIES BIOLOGIST

M.S. or Ph.D. Immediate employment for study of western Venezuelan continental margin. Laboratory on Isla de Margarita. Conversational Spanish desirable. Applications from all qualified candidates welcome. Send résumé, bibliography, and three letters of recommendation to: Hno. Gines, Fundacion La Salle de Clencias Naturales, Apdo. 8150, Caracas, Vancavales Venezuela.

POSITIONS OPEN

FACULTY POSITION IN ENVIRONMENTAL PHILOSOPHY, ETHICS, AND HISTORY University of California, Berkeley College of Natural Resources Department of Conservation and Resource Studies

A position as assistant professor will be available 1 January 1978. Teaching (70 percent) responsibilities include courses on the history of resource use and value judgments and ethical considerations as and value judgments and ethical considerations as they affect the exploitation, use, and conservation of environmental resources. The candidates will also be asked to participate in other teaching programs and advise majors in the department. The research and graduate teaching responsibilities will be assigned to the Division of Biological Control and will be within a wide latitude to develop historical and be within a wide latitude to develop historical and contemporary factual foundations for the rational and ethical management of renewable environmental resources. Applicants should have a Ph.D. and should submit (before 5 January 1978) full curriculum vitae, list of publications, and three or more letters of reference to:

Professor Donald L. Dahlsten Department of Conservation and Resource Studies University of California Berkeley, California 94720

The University of California is an Equal Opportunity/Affirmative Action Employer. Women and minority candidates are urged to apply.

The Department of Biological Sciences at Stanford University is seeking qualified applicants for TWO FACULTY POSITIONS at the non-tenured level in the general areas of cellular and developmental biology. The successful candidates should have demonstrated independent research capabilities and are expected to participate in both under-graduate and graduate teaching programs in the department, as well as to carry out an active research program. Preference for one of the positions may be given to a person whose research activities are in botanical systems. Nominations or curriculum vitae should include the names of three references and can should include the names of three references and can be sent to: Robert T. Schimke, Search Committee Chairperson, Department of Biological Sciences, Stanford University, Stanford, California 94305. Stanford University is an Equal Opportunity/Af-firmative Action Employer.

UNIVERSITY OF CHICAGO

The Department of Anatomy invites applications for THREE FACULTY POSITIONS for an expanded program in evolutionary morphology and related fields. We are seeking people with research interests in such areas as: experimental functional anatomy, strength and architecture of biological materials, mathematical and analog modeling, ecological physiology, and interfaces of morphology/behavior, development/evolution.

The University of Chicago is an Equal Opportu-The University of Chicago is an Equal Opportunity Employer; women and members of minority groups are specifically encouraged to apply. Please sent résumés, including a statement of research goals, by 30 November and arrange to have three letters of recommendation sent to: Dr. I. Radinsky, Anatomy Department, University of Chicago, 1025 East 57th Street, Chicago, Ill. 60637.

The Department of Neurobiology at Stanford University School of Medicine invites applications from qualified individuals for TWO FACULTY POSI-TIONS at the assistant professor level available 15 September 1978. Preference may be given to applicants with interests in functional neuroanatomy or cants with interests in functional neuroanatomy or CNS neurophysiology. Applications, including curriculum vitae and the names of three references, should be addressed to: The Chairman, Department of Neurobiology, Stanford University School of Medicine, Stanford, Calif. 94305. Stanford is an Equal Opportunity Employer and welcomes nominations of women and minority group members and applications from them. tions from them.

Sacramento-University of California, Davis, partment of Psychiatry has openings for GENERAL PSYCHIATRY FACULTY. Department operates three community mental health clinics as setting for three community mental health clinics as setting for education and scientific programs for all mental health disciplines. Equal Opportunity Employer. Women and minorities encouraged to apply. Write: Joe P. Tupin, M.D., Division of Mental Health, Sacramento Medical Center, 2315 Stockton Boukevard, Sacramento, California 95817. Positions available immediately. Applications accepted to 1 July 1978. Salary negotiable.

UNIVERSITY OF SOUTH CAROLINA SCHOOL OF MEDICINE DEPARTMENT OF MICROBIOLOGY

The University of South Carolina School of Medicine invites applications for FACULTY POSITIONS in its recently established Department of Micro-

Candidates should desire involvement in a grow ing department and have a commitment to the teach-

ing of medical students.

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

Correspondence should be addressed to:

Roderick Macdonald, Jr., M.D. Dean, School of Medicine University of South Carolina Columbia, South Carolina 29208

An Affirmative Action/Equal Opportunity Employer

FACULTY POSITION IN NUTRITION or nutriional biochemistry. Preference will be given to candidates who would qualify for the rank of professor but applicants at lower ranks will also be considered. The successful applicant will be expected to cooperate effectively with faculty in the Colleges of Agriculture, Medicine, and Liberal Arts. Position is approximately 70 percent research, 30 percent teaching, with an option to teach in an area of choice. ing, with an option to teach in an area of choice. Send applications including a curriculum vitae, complete list of publications, and the names of three references to: Dr. Darrel E. Goll, Nutrition and Food Science, University of Arizona, Tucson, Arizona 85721. Position is available immediately. The University of Arizona is an Equal Opportunity/Affirmative Action/Title IX, Section 504 Employer.

GENETICIST Department of Genetics and Regional Primate Research Center UNIVERSITY OF WASHINGTON

Faculty candidates sought particularly in population genetics or immunogenetics. Through joint appointment as core staff scientist of Primate Center, appointee's research activities would include, but not be limited to, identification and exploitation of rebe limited to, identification and exploitation of re-search opportunities provided by a very large, long-established colony of nonhuman primates. A re-search program interrelating human and nonhuman primate genetics would be particularly welcome. Pri-mary selection criteria: history of scientific excel-lence and promise of continued research of highest scientific and academic standard. Send letter of ap-lication, curriculum wites, and three personal refer plication, curriculum vitae, and three personal references to: Douglas M. Bowden, M.D., Chairman, Search Committee, Regional Primate Research Centre SJ-50, University of Washington, Seattle, Wash. 98195. Telephone: 206-543-1430. Affirmative Action Equal Opportunity Employer.

The Applied Earth Sciences Department at Stanford University is seeking a GEOLOGIST to design and lead a teaching and research program in the geological and geophysical aspects of exploration for petroleum and related fossil fuels. This faculty position requires experience in areas such as: (i) modern concepts of depositional systems, (ii) structural analysis of on- and offshore basins, (iii) geological interpretation of seismic records. (iv) participation in reysis of one and offsiole dashis, (iv) participation in re-pretation of seismic records, (iv) participation in re-cent exploration programs, and (v) economic ap-praisal of energy resources. Send curriculum vitae and references to: Chairman, Search Committee, De-partment of Applied Earth Sciences, Stanford Univer-sity, Stanford, California 94305.

IMMUNOLOGIST-MICROBIOLOGIST

Full-time tenure track position available September 1978. Ph.D. required prior to appointment. Postdoctoral research and teaching experience helpful. Successful candidate will be expected to develop a strong research program preferably in the area of immunological mechanisms or host parasite relations. Teaching responsibilities include advanced undergraduate courses in immunology and/or pathogenic bacteriology. Opportunity exists for developing additional specialty courses. Assistant professor salary range: \$14,256 to \$17,136 for 9 months. Affirmative Action/Equal Opportunity/Title IX Employer.

Applicants should submit curriculum vitae and three letters of reference to: Search Committee, Department of Microbiology, San Diego State University, San Diego, Calif. 92182, preferably by 15 December

POSITIONS OPEN

ICHTHYOLOGIST, Ph.D. or equivalent, to serve as ASSISTANT CURATOR OF FISHES in the Departnent of Zoology. Duties include the curation of a arge, worldwide systematic collection of fishes; conduct of an active research program; and partici-pation in the museum's education and exhibit programs. Salary dependent upon qualifications. To apply send résumé to: Hymen Marx, Search Committee Chairman, Division of Amphibians and Reptiles, Field Museum of Natural History, Chicago, Illinois 60605. Field Museum of Natural History is an Equal Opportunity Employer

IMMUNOLOGIST/VIROLOGIST. Ph.D./M.D. with postdoctoral experience for a faculty appointment beginning I July 1978. Duties include participation in the educational programs of the Medical Center and of the Graduate School and in independent research. Research experience in and plans for continued work on either animal virology or immunology are required. By 15 January 1978 send a curriculum vitae, three references, and an outline of professional and research interests to: William D. Sawyer, M.D., Chairman, Department of Microbiology and Immunology, Indiana University School of Medicine, 1100 West Michigan Street, Indianapolis, Ind. 46202. An Affirmative Action/Equal Opportunity Employer.

MARINE ECOLOGISTS

Candidates are sought for the following two posi-

SENIOR MARINE ECOLOGIST—To assist in planning and integrating an ecological study of the influence of a power plant on a coastal marine ecosystem in San Diego County, California.

MARINE ECOLOGIST-To study the influences of this power plant on kelp (*Macrocystis*) beds.

Candidates for both positions should have a Ph.D. involving general quantitative ecological training.

This is an independent study funded through the California Coastal Commission; it deals with all aspects of the marine environment.

Positions open as of I January 1978. Salary and rank commensurate with qualifications and experience. Applications with curriculum vitae and details of training and experience in research should be sent to: Dr. Joseph H. Connell, Chairman, Marine Review Committee, Department of Biological Sciences, University of California, Santa Barbara, Calif. 93106. Applications must be received before 15 December 1977.

An Equal Opportunity/Affirmative Action Employer

MEDICAL ONCOLOGIST (junior). An appointment as assistant professor is available to a laboratory investigator-clinician to join a major academic program. Candidate should have independent investigative capability and be board qualified in medical oncology. Stanford is an Equal Opportunity Employer Stanford is an Equal Opportunity Employer and welcomes nominations of women and minority group members and applications from them. Send résumé, which will be treated confidentially, to: Dr. Saul A. Rosenberg, Chief, Division of Oncology, Stanford University School of Medicine, Stanford, Calif. 94305.

MICROBIOLOGIST-IMMUNOLOGIST. One-vear appointment at instructor level (sabbatical replacement). Available January 1978 at USC School of ment). Available January 1978 at USC School of Dentistry. Applicant should have Ph.D. and/or D.D.S. and ability to teach general and oral microbiology. Opportunity to undertake research program also available. Salary approximately \$12,000. Send curriculum vitae and three letters of reference to: Dr. Steven Schonfeld, Department of Microbiology and Immunology, School of Dentistry, University of Southern California, Los Angeles, Calif. 90007. Equal Opportunity/Affirmative Action Employer.

NATURAL RESOURCES PLANNER

An international consulting firm in New York metropolitan area is seeking, for its interdisciplinary department of environmental planning and socioeco-nomic studies, an individual with a minimum of 6 years experience in natural resources development years experience in natural resources development planning, environmental impact analysis, land use and vegetation mapping and photo interpretation. Ph.D. or M.S. in natural resources planning, geography, forestry, or terrestrial ecology with some consulting experience preferred. Salary negotiable. Send résumé to:

Box 404, SCIENCE

POSITIONS OPEN

MOLECULAR NEUROBIOLOGIST. Assistant promolecular Neurobiologist. Assistant professorship in department centered on neurobiology and behavior. Establishment of an independent research program is expected. Teaching will be in molecular biology and an area of specialization. Minority and women candidates are urged to apply. Send curriculum vitae immediately to: Dr. M. J. Welss, Search Committee, Department of Biology, Livingston College, Rutgers University, New Brunswick, N.J. 08903. N.I. 08903.

NEUROPHYSIOLOGIST. The Biological Sciences Department, California State Polytechnic Universi-Department, California State Polytechnic University, announces a faculty position beginning spring or fall 1978. The successful applicant will participate in undergraduate instruction in physiology and develop a graduate course in neurophysiology. Applicants should show evidence of strong research potential. Ph.D. required. Send curriculum vitae to: Dr. P. Castro, Biological Sciences Department, California State Polytechnic University, Pomona, California 91768. Equal Opportunity Employer.

ORGANIC CHEMIST-Experienced in analysis of natural products to work on mucopolysaccharides Interested candidates should forward their résumé to: Director of Personnel, SIDNEY FARBER CANCER INSTITUTE, 35 Binney Street, Boston, Massachusetts 02115. An Equal Opportunity/Affirmative Action Employer.

PLANT BIOLOGIST KENYON COLLEGE

The Department of Biology is seeking a person trained in the botanical sciences to teach a portion of the introductory biology lecture course and courses in plant biology, plant physiology, and teach or direct research in molecular biology. Ph.D. required. Research opportunities available. Rank open, salary dependent on qualifications. Send letter of application, curriculum vitae, transcripts, and three letters of recommendation to: Search Committee, Department of Biology, Kenyon College, Gambier, Ohio 43022 before the 30 November 1977 closing date. An Equal Opportunity Employer. ed in the botanical sciences to teach a portion of the Equal Opportunity Employer.

POSTDOCTORAL POSITION. Positions are available to study the molecular mechanism of adhesion of a variety of normal and virus-transformed mammalian cell lines grown in tissue culture. Candidates should have a Ph.D. in a biomedical science and plan should have a rh.D. in a biomedical science and plan to spend 2 to 3 years in our program. Please send curriculum vitae plus three letters of recommenda-tion to: Dr. Lloyd Culp, Department of Microbiology, Case Western Reserve University, School of Medicine, Cleveland, Ohio 44106.

POSTDOCTORAL POSITION in enzymology, glycoproteins, and lipids. Send résumé and three letters of recommendation by 15 December 1977, to: P. E. Kolattukudy, Department of Agricultural Chemistry, Washington State University, Pullman, Wash. 99164. An Affirmative Action/Equal Opportunity Employer.

POSTDOCTORAL POSITION available immediately for research in the biochemical mechanism of car-diac hypertrophy. Work with whole animal systems and mouse heart explants. Skills in measurement of nucleic acid synthesis and accumulation, cyclic AMP and cyclic AMP-dependent protein kinase as-says helpful. Salary \$10,000 per year. Send résumé and references to:

Professor Diane H. Russell
Department of Pharmacology
Arizona Health Sciences Center
Tucson, Arizona 85724
An Equal Opportunity/Affirmative Action/Title X
Employer.

RESEARCH TECHNOLOGIST: M.S. in biological sciences is preferred; however B.S. with extensive laboratory experience will also be considered. Applicant should be familiar with histochemistry (special states) cial stains), electron microscopy (transmission and scanning), and autoradiographic techniques. Knowledge of the nervous tissues is highly desirable. Person will be joining active research group to engage in neuropathology research at the National Center for Toxicological Research. Starting annual salary is ap-proximately \$12,400 with excellent fringe benefits. Interested personnel should send résumé and three letters of reference to: University of Arkansas for Medical Sciences, Pathology Services Project (Code 16), N.C.T.R., Jefferson, Arkansas 72079. An Equal Opportunity/Affirmative Action Employer.

AUSTRALIAN INSTITUTE OF MARINE SCIENCE

The Australian Institute of Marine Science is a statutory authority established in 1972. Its functions are to carry out research in marine science, to assist other persons and institutions engaged in research in this field and to disseminate information relating to marine science. The Institute has recently relocated to a newly constructed \$12 million headquarters complex located at Cape Ferguson, 50 kilometres south of Townsville. Applications are invited for the following positions.

SCIENTIFIC

MARINE POLLUTION-BIOCHEMIST OR
NATURAL PRODUCTS CHEMIST

Duties: This scientist will conduct a basic research
program and be responsible for the organic analytical section of the Marine Pollution Group, which has cal section of the Marine Pollution Group, which has ongoing interests in biological detoxification mechanisms and the accumulation of anthropomorphic pollutants. Qualifications: A Ph.D. degree or equivalent qualifications in biochemistry or natural products chemistry, with proven research ability is required. Preference will be given to applicants with post-doctoral experience. Salary: Within the salary range of research scientist/senior research scientists. of research scientist/senior research scientist (A\$14,292 to A\$20,822), dependent on qualifications and experience.

CORAL REEF ECOLOGY-BENTHIC INVERTEBRATE ECOPHYSIOLOGIST

Duties: This scientist will conduct a basic research program on the nutrition of coral reef ecosystems, program on the nutrition of coral reef ecosystems, particularly on the routes and mechanisms by which nutrients are utilized and/or recycled within the reef ecosystem. Qualifications: A Ph.D. or equivalent qualification in invertebrate ecophysiology, with proven research ability, is required. Experience in coral reef ecosystems would be a decided advantage. Preference will be given to applicants with postdoctoral experience. Salary: Within the range of research scientist/senior research scientist (A\$14,292 to A\$20,822), dependent on qualifications and experience. and experience.

Applications giving details of qualifications, experience, personal particulars, and the names of three professional referees are invited, and should be forwarded to: The Director, Australian Institute of Marine Science, P.M.B. No. 3, M.S.O., Townsville, Queensland 4810, Australia. Closing date: 26 November 1977.

BIOPHYSICIST, PHYSICAL OR SURFACE CHEMIST—PH.D.

The Ames Company Division of Miles Laboratories, Inc., a manufacturer of clinical information systems, has an excellent opportunity for a Research Scientist to join a multi-disciplinary group developing new technology for in-vitro clinical chemical diagnostics.

We would prefer the candidate with one or two years of post-doctoral experience. However, a new Ph.D. will be considered. This person should have a background in colloid phenomena, absorption from solution, characterization of micellar and macromolecular solutions of biopolymers.

Located in Elkhart, Indiana, a community of 50,000 population, we offer excellennt recreational and educational facilities as well as convenient accessibility to the Chicago area. Excellent starting salary commensurate with experience plus a superior benefits program. Relocation expenses paid by the company. Please send complete resume, publication list and salary requirements in confidence to my attention.

> Curtis A. Brown, Senior Placement Representative, Dept. 851



MILES LABORATORIES, INC.

ELKHART, INDIANA 46514

An Equal Opportunity Employer

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DIRECTOR OF THE INSTITUTE OF TECHNOLOGY LIBRARIES

The University of Minnesota is seeking applicants for the newly created position of director of the In-stitute of Technology Libraries. This is one of seven stitute of Technology Libraries. This is one of seven key administrative positions in the University of Minnesota Libraries, Twin Cities campus. Under the general direction of the director of University Libraries, the director of the Institute of Technology Libraries is responsible for administering the operations, services, and resources of the seven physically separate libraries which serve the bibliographic and informational needs of the University's Institute and informational needs of the University's Institute of Technology. These include the arthitecture, of Technology. These include the artificture, chemistry, engineering, geology, mathematics, mines and metallurgy, and physics libraries. Together, they have an operating budget of over \$600,000 (including salaries and wages, acquisitions, and supplies and expense) and a staff of 26 FTE, including 8 professionals.

Applicants for the position must have demonstrated skills in leadership, planning, and interpersonal relations. They must possess the M.L.S. or its appropriate equivalent as well as significant applicable experience in a major university library. An educational background in the physical sciences or mathematics is desirable. Knowledge of academic programs and the ability to work effectively with faculty and academic administrators are essential. Applicants should be able to meet the requirements of a plicants should be able to meet the requirements of a university libraries faculty appointment at the rank of associate professor or professor.

of associate professor or professor.

The minimum starting salary is \$22,500. Applicants should send a detailed résumé to: Donalda Burnham, Chairperson of the Search Committee for the Director of the Institute of Technology Libraries, Engineering Library, 128 Lind Hall, 207 Church Street, SE, Minneapolis, Minn. 55455.

The University of Minnesota is committed to the policy that all persons shall have equal access to its programs, facilities, and employment without regard to race, creed, color, sex, or national origin.

The closing date for receipt of applications is 15 December 1977.



TOXICOLOGY/BIOCHEMISTRY/ BIOSTATISTICS/ PUBLIC HEALTH

Equitable Environmental Health, Inc., (EEH) is a multidisciplinary consulting company conducting research for both governmental and industrial clients. The company is engaged in applied research including the evaluation and control of health and safety hazards both in the workplace and in the general environment.

EEH currently has several nonlaboratory positions open for individuals with Ph.D. degree and 0-3 years experience in PHAR-MACOLOGY, TOXICOLOGY, BIOCHEMISTRY, PHYSIOLOGY OR PUBLIC HEALTH; or with Master's degree and 3-4 years of experience in PUBLIC HEALTH OR INDUSTRIAL WOLFILE. TRIAL HYGIENE. These positions will involve plant visits and critical evaluation of literature in toxicology, biochemistry, analytical chemistry and industrial hygiene. Experience in occupational health and safety is desired but not essential.

Applications are also invited from BIOSTATISTICIANS with Ph.D. degree and 0-2 years experience or Master's degree and 2-4 years of experience in analyzing paid miples in details. epidemiologic data

We are located in Rockville, Maryland, just outside Washington, D. C. Salary will be commensurate with candidate's background and experience. These positions offer excellent professional growth opportunities in a rapidly expanding company.

Please send resume and salary history

Hasmukh Shah, Ph.D. Equitable Environmental Health, Inc. 6000 Executive Blvd.—Suite 308 Rockville, Maryland 20852

An Equal Employment Opportunity Em-

POSTDOCTORAL FELLOWSHIPS IN PATHOBIOLOGY UNIVERSITY OF PITTSBURGH SCHOOL OF MEDICINE

Research opportunities are offered to candidates interested in a variety of fields of biodidates interested in a variety of fields of biomedical research. In order to maximize the interdisciplinary nature of the research projects, a trainee will work jointly with a member of the Department of Pathology and with a member of the Departments of Anatomy and Cell Biology, Biochemistry, Microbiology, or Physiology. Some of the major areas of research include: (a) immunogenetics, (b) immunology and genetics of reproduction, (c) regulation of DNA synthesis in malignant and normal cells, (d) somatic cell genetics, (e) metabolism of carbohydrates in normal and transformed cells, (f) chemical carcinogenesis, (g) temperature chemical carcinogenesis, (g) temperature sensitive virus mutants in neurological infec-tions, (h) pathogenesis of Hemophilus in fluenza infections and the genetics of suscep-tibility, (i) intestinal ion transport and its alteration by hormones and bile slats, (j) pathogenesis and physiology of inflammatory bowel disease, (k) biochemistry of carbohydrates in congential storage diseases, and (l) biochemical, ultrastructural and immunochemical studies on cell membranes with particular emphasis on cell surface anti-

gens.

The program is administered by a committee composed of R. E. Basford (biochemistry), Thomas J. Gill III (pathology, chairman), Christopher C. Widnell (anatomy and cell biology), and Julius S. Youngner (microbiology). Stipends, travel, and supplies will be provided by an NIH Training Grant in Pathobiology. Applications indicating the area of research interest should be sent to: Dr. Thomas J. Gill III, Department of Pathology. University of Pittsburgh School of Mediogy, University of Pittsburgh School of Medicine, Pittsburgh, Pa. 15261 by 1 February 1978. The decisions will be made by 1 April 1978 for the academic year beginning 1 July 1978. An Equal Opportunity/Affirmative Action Furthern

POSTDOCTORAL POSITION

Available 1 December 1977 for research on isolation and characterization of membrane-bound enzymes of Golgi apparatus. Recent Ph.D. in biochemistry of Golgi apparatus. Recent Ph.D. in biochemistry with experience in protein isolation and/or protein chemistry preferred. Opportunity to learn cell fractionation and enzymology. Send curriculum vitae and two letters of reference to: Dr. Becca Fleischer, Department of Molecular Biology, Vanderbilt University, Nashville, Tenn. 37235. An Affirmative Action/ Equal Opportunity Employer.

POSTDOCTORAL POSITION. Research on the ge-POSTIOCTORAL POSITION. Research on the genetic activity and ecological impact of mutator factors in natural populations of *Drosophila*. Experience in electron microscopy useful. Position open 1 January; 1½-year program; salary to \$12,000. Send curriculum vitae and statement of research interests by 1 December to: Dr. James N. Thompson, Jr., Zoology Department, University of Oklahoma, Norman, Oklahoma 73019. An Affirmative Action/Equal Opportunity Employer. portunity Employer.

POSTDOCTORAL POSITION IN SOLID EARTH GEOPHYSICS

Immediate I-year opening, renewable for a second year. Candidate should have interest in the internal constitution and dynamics of the earth with special strength in computer simulation of three dimensional, variable viscosity, geophysical fluid dynamics models, and a background in plate tectonics and geology. Assignments will be in the geophysical interpretation of gravity data, general inverse problems, and upper mantle models. Please send a résumé, publication list, statement of research interests, and the names of three references to: E. M. Gaposchkin, Smithsonian Astrophysical Observatory, 60 Garden Street, Cambridge, Mass. 02138. An Equal Opportunity Employer.

POSTDOCTORAL POSITION available. Photosynthesis research (photochemistry and photobiology). Involves rapid kinetic spectroscopy, luminescence, EPR, and so forth. Instrumentation experience helpful. Résumé and three references to: **Dr. Bacon** Ke, Charles F. Kettering Research Laboratory, Yellow Springs, Ohio 45387.

The Department of Geography-Meteorology at Kansas University has a REGENTS' PROFESSORSHIP available beginning fall 1978. This academic chair is the most prestigious and most demanding at the University. Current Regents' professors are outstanding scholars and recognized leaders in chosen fields. Ph.D. required or its equivalent in experience or distinction. Research interests in energy and related fields. Experience in developing funded programs and teaching skills especially at graduate level necessary. Applications close I December 1977. Contact: Glen Marotz, Department of Geography, University of Kansas, Lawrence, Kansas 66045. Telephone: 913-864-4276. An Equal Opportunity/Affirmative Action Employer. Qualified people of all races encouraged to apply. races encouraged to apply

SCIENTISTS NEEDED OVERSEAS

Smithsonian Institution-Peace Corps Environmental Program seeks scientists for 2-year Peace Corps volunteer assignments in natural resources and envivolunteer assignments in natural resources and environmental programs in Africa, Asia, Latin America, and the Pacific. People with degrees from B.S. to Ph.D. needed for wide variety of projects in watershed and range management, forestry, fisheries and marine science, soil science, entomology, and related fields. Write to: Smithsonian-Peace Corps Environmental Program, Department S-5, Smithsonian Institution, Washington, D.C. 20560.

State of Colorado seeks a STATE HISTORIC PRESERVATION OFFICER. This position is appointed by the governor and serves as an officer of the State Historical Society. The general duties are the management of cultural resources in Colorado with respect to the National Historic Preservation Act of 1966 and so forth, and the legal and fiscal duties of SHPO administration in compliance and grants. The deadline for application receipt is 15 November 1977, and the proposed date of appointment is 1 December 1977. For further information contact: Bruce Ripneteau, State Archaeologist, 1300 Broadway, Den-Rippeteau, State Archaeologist, 1300 Broadway, Denver, Colorado 80203. Equal Opportunity/Affirmative Action Employer.

POSITIONS OPEN

rustiductioral Position in molecular endocrinology: position available immediately to study hormonal regulation of hepatic gluconeogenesis. Experience in protein chemistry and enzyme purification techniques desirable. Starting salary \$12,000. Send curriculum vitae, statement of research interest, and two letters of reference to: Dr. Simon J. Pilkis, Department of Physiology, Vanderbilt University School of Medicine, Nashville, Tennessee 37232. An Equal Opportunity Employer. POSTDOCTORAL POSITION in molecular endocri-

PSYCHOLOGIST WITH SCHOLARLY INTEREST IN WOMEN'S STUDIES

Cornell University has an opening for a tenured faculty member in the Department of Psychology who would also serve as half-time director of the Womwould also serve as nair-time director of the women's Studies Program. Candidates must have an excellent record of research productivity in any area of psychology, and a demonstrated scholarly interest in women's studies. Administrative experience desirable. Salary negotiable. Position starts 1 July 1978. Candidates should send curriculum vitae and samples of their scholarly work to: ples of their scholarly work to:

Women's Studies Search Committee
Department of Psychology
Uris Hall
Cornell University
Library N. V. 14962 Ithaca, N.Y. 14853

Cornell is an Equal Opportunity/Affirmative Action

STAFF SCIENTIST POSITION

Needed immediately: scientist with interest in or

Needed immediately: scientist with interest in or experience with chemical carcinogen interaction with membrane lipids-nucleic acid adducts. Post-doctoral experience preferred but not mandatory; however, postdoctoral experience is necessary to be appointed at staff scientist level.

Preference will be given to individuals with strong organic chemistry/biophysics-biochemistry backgrounds. Salary negotiable depending on background. Contact: Dr. Robert A. Floyd, Oklahoma Medical Research Foundation, 825 Northeast 13th Street, Oklahoma City, Oklahoma 73104; telephone 405-235-8331, ext. 370.

Equal Opportunity/Affirmative Action Employer

Equal Opportunity/Affirmative Action Employer

TECHNOLOGY AND PUBLIC POLICY

The Department of Engineering and Public Policy of Carnegie Institute of Technology and the Schools of Urban and Public Affairs and Humanities and Social Science, Carnegie-Mellon University, have one or more joint faculty openings: (1) for applied social scientists interested in doing collaborative policy research with engineers, or (2) for engineers interested in doing collaborative policy research with engineers, or (2) for engineers interested search with engineers, or (2) for legitler's interested in doing collaborative policy research with social scientists. Problem areas of interest include social impacts of computers and telecommunications, product liability and safety, electric power load management, retrospective technology assessmanagement, retrospective technology assess-ment, and energy and environmental systems. Desir-able areas of skill include decision analysis, opti-mization techniques, organizational analysis, and regulatory process and law. Send résumé with list of publications to: Barbara Lydon, Assistant Head, En-gineering and Public Policy (Sc), Carnegie-Mellon University, Pittsburgh, Pennsylvania 15213.

COURSES

The Marine Biological Laboratory Woods Hole, Massachusetts

announces

OPTICAL MICROSCOPY AND PHOTOMICROGRAPHY in the BIOMEDICAL SCIENCES

a residential laboratory course 12 to 18 March 1978

This concentrated program is intended primarily for scientists and physicians who require theoretically based training and experience in modern light microscopy. Among the topics to be discussed and practiced will be bright- and dark-field, phase and modulation contrast, high extinction polarized light and differential interference microscopy, fluorescence, and color and black-and-white photomicrography, and cinemicrography. The instructor-inrescence, and color and black-and-white photomicrography and cinemicrography. The instructor-inchief will be Robert Day Allen of Dartmouth College. Additional information and application materials may be obtained from the Director of Admissions, Marine Biological Laboratory, Woods Hole, Mass. 02543; telephone 617-548-3705. The Marine Biological Laboratory admits students of any race, color, and national or ethnic origin.

ASSOCIATESHIPS

POSTDOCTORAL RESEARCH ASSOCIATESHIPS

NAVAL MEDICAL RESEARCH INSTITUTE BETHESDA, MARYLAND 20014 SPONSORED BY

The Naval Medical Research and Development Command in association with The National Research Council

Competitive applications are now being accepted for the year starting 1 October 1978. The areas of re-search include behavioral sciences, biochemistry, biophysics, dental sciences, environmental stress, cellular immunology, immunogenetics, microbiology, parasitology, pathology, toxicology, and underwater biomedical research. Annual salary is approximately \$17,000.

Application forms and information booklet can be

The National Research Council Associateship Office (JH 606N) 2101 Constitution Avenue, NW Washington, D.C. 20418

Details about the scientific programs, list of research advisers, and research proposals can be obtained by writing directly to:

Dr. A. Ahmed, Chairman
Postdoctoral Research Associateship Committee
Naval Medical Research Institute Bethesda, Maryland 20014

Deadline for completed applications should be no later than 15 January 1978.

An Equal Opportunity Employer

PROGRAMS

PROFESSIONAL PROGRAM: DOCTOR OF OP-PROFESSIONAL PROGRAM: DOCTOR OF OP-TOMETRY (O.D.). Accelerated program of two cal-endar years specifically designed for the Ph.D. in the sciences to earn the O.D. degree. Excellent opportu-nities in health-related teaching and research; oppor-tunity for an independent professional career. Pro-gram starts June 1978. Division of Vision Sciences, The New England College of Optometry, 424 Beaco, Street, Boston, Mass. 02115. Telephone: 617-261-3430, ext. 34.

DOCTORAL PROGRAM IN PROBLEMS OF TECHNOLOGY AND PUBLIC POLICY

The Department of Engineering and Public Policy at Carnegie-Mellon University offers an interdis-ciplinary research-oriented Ph.D. for persons with an undergraduate degree in engineering or the mathematical or physical sciences. Persons with more adchiadical or physical sciences. Persons with more advanced training or experience are especially welcome. Some financial support is available. Contact: Engineering and Public Policy, Graduate Program (GSE) Carnegie-Mellon University, Pittsburgh, Pa. 15213.

THE MOUNT DESERT ISLAND BIOLOGICAL LABORATORY SALSBURY COVE, MAINE

Announces 15 February 1978 as the deadline for applications for research space for the summer season of 1978. Facilities for 30 research groups during the summer, and additional groups in fall and spring are available. Research is limited to flora and fauna of available. Research is inflicted to find a did additional to the region. For further information about facilities and fees write: Dr. Richard M. Hays, Albert Einstein College of Medicine, 1300 Morris Park Avenue, Bronx, N.Y. 10461, or telephone: 212-430-3158.

STUDENT FELLOWSHIPS available for U.S. citizens and permanent residents toward Ph.D. in pharmacology. Diversified training related to the pharmacological and biochemical basis for drug action with emphasis on cancer therapeutics, inhibition of nucleic acid, protein and membrane components, enzyme activity regulation, coenzyme action and inhibition, basis for selective toxicity, pharmacokinetics and drug metabolism in animals and cells, medicinal chemistry of nucleosides, carbohydrates and antifolates, immunotherapy, immunosuppression, experimental chemotherapy, molecular pharmacology, endocrine pharmacology and metabolic regulators, hematology, and preclinical and clinical pharmacology. Stipends are \$3900 per annum. Write to: E. Mihich, M.D., Chairman, Graduate Pharmacology Program, Roswell Park Memorial Institute, Buffalo, N.Y. 14263. STUDENT FELLOWSHIPS available for

The Outer Continental Shelf Environmental Assessment Program (OCSEAP) of NOAA, U.S. Dept. of Commerce, plans, funds, and manages studies in support of runds, and manages studies in support or oil and gas development for Alaska. OC-SEAP is recruiting candidates for short term scientific assignments of up to two years. Only employees of local or State governments (including District of Columbia, Puerto Rico, and U.S. possessions), or institutions of higher learning, who can obtain a two year leave are eligible to apply. tain a two year leave are eligible to apply. Persons will remain as employees of their respective organizations during the assignment period. Base salary range is \$20,442 to \$37,347 per annum. Salary determination based on candidate's current salary, qualifications, and nature of assignment. Reimbursement for salary, travel, benefits, cost of living adjustment for Alaska positions, moving expenses, etc. negotiable with the parent organization.

BERING SEA STUDY COORDINATOR and GULF OF ALASKA COORDINATOR (2 positions)

Reviews all ongoing and planned studies, writes an improved plan for OCSEAP studies which is tailored to deriving a conceptual model of the Bering Sea or Gulf of Alaska as a system, and interacts with other agencies and OCSEAP-funded in-vestigators to obtain the data needed in an accurate and timely manner. Although not in a supervisory role, these two persons will have the support of scientific staff assigned to monitor the contract performance of investigators, data managers, procurement, logistics specialists and an integration contractor. Candidates should have a Ph.D. in earth science or environmental biology, experience in aquatic field research, and a background in a related environmental science. Positions located in Juneau, Alaska.

INFORMATION SYNTHESIZER AND INTEGRATOR

The 25 million dollar annual Alaskan marine environmental studies effort of OC-SEAP is producing a large data volume in the form of reports, maps, figures, and other derived data as well as digital data on other derived data as well as digital data on magnetic tape. This position is to achieve a better definition, refinement, and specification of the 162 such products that have been defined on an interim basis. Will work with data management people, programmers, contractors, field researchers in all disciplines of marine studies, an interdisciplinary scientific staff, and with those with will execute the second of the se who will eventually use the products. Will lead a review of the data going into the data base and planned data products coming out as to user needs, cost, formats, timing, and effectiveness. The objective of this task is derivation and implementation of a cata-log and schedule of an optimum set of in-tegrated data products. Candidates should have a master's degree or higher in earth science or environmental biology, and a background in a related environmental science so as to promise an integrative approach to production of information products from the program. Position is located in Boulder, Colorado.

If interested, obtain further information

ni interested, obtain further information by contacting Ms. Straight, NOAA Person-nel, U.S. Dept. of Commerce, 3100 Marine, Boulder, CO 80302, telephone (303) 499-1000, ext. 6585.

NOAA is an Equal Opportunity Employer

DIRECTOR LABORATORY ANIMAL **RESOURCES**

Searle Laboratories, the pharmaceutical division of G.D. Searle & Co., located in a northern suburb of Chicago, has an opening for a Director, Laboratory Animal Resources. This position assumes responsibility for all operations of the laboratory animal care for our R&D function including animal care personnel, physical facilities/equipment and the clinical care of animals.

We seek a D.V.M. who is ACLAM eligible with prior laboratory animal management experience.

For confidential consideration, submit your curriculum vitae complete with salary requirements to:

Larry Kedzior

SEARLE LABORATORIES

SEARLE

P.O. Box 5110 Chicago, III. 60680

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The School of Public and Environmental Affairs provides graduate and undergraduate degree programs, as well as research, professional, and technical services on the Bloomington, Indianapolis, Northwest (Gary), South Bend, and Fort Wayne campuses of Indiana University. Recruiting is under way for the 1978–1979 academic year for the areas listed below. If any location is unacceptable to you, please indicate. All applicants should have a Ph.D. or other appropriate terminal degree. Salary and appointment level dependent upon qualifications and experience. Interested applicants should send a curriculum vitae to the address listed below no later than 1 February 1978.

Dr. W. G. Meinschein Associate Dean for Academic Affairs School of Public and Environmental Affairs 400 East 7th Street Bloomington, Ind. 47401

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The Lamont-Doherty Geological Observatory of Columbia University invites scientists interested in any field of the earth and planetary sciences to apply for the following fellowships.

Two postdoctoral fellowships, each awarded for a period of 1 year (extendable to 2 years in special instances) beginning in September 1978, with a stipend of \$13,500 per annum. Completed applications are to be returned by 15 February 1978. Application forms may be obtained by writing to: the Administrator, Lamont-Doherty Geological Observatory, Palisades, New York 10964.

Award announcements will be made 31 March 1978.

POSTDOCTORAL AWARDS IN OCEAN SCIENCE AND ENGINEERING

Applications invited for 1-year postdoctoral scholar awards from new and recent doctorates in fields of biology, chemistry, engineering, geology, geophysics, mathematics, meteorology, physics, as well as oceanography. Recipients of awards are selected on a competitive basis, with primary emphasis placed on research promise.

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SUMMER RESEARCH FELLOWSHIPS FOR BLACKS AND OTHER MINORITIES AT THE

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POSTDOCTORAL FELLOWSHIPS for candidates POSTDOCTORAL FELLOWSHIPS for candidates with training in lipid biochemistry and special interest in one of the following areas: prostaglandins and related compounds (candidate should be familiar with GC-MS techniques); nutritional biochemistry; fatty acid enzymology; neurochemistry; microbial enzymology; lipid-lipid and lipid-protein interactions studied by nuclear magnetic resonance. Write to: The Hormel Institute, University of Minnesota, Austin, Minn. 55912. An Equal Opportunity/Affirmative Action Employer.

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POSTDOCTORAL FELLOWSHIP-BOVINE RE-PRODUCTIVE ENDOCRINOLOGY. Applications are invited from Ph.D. graduates with a strong background in steroid biochemistry, expertise in steroid radioimmunoassay and tissue receptor assay procedures. Stipend is \$11,000 per year. For details write: Dr. Fuller W. Bazer, Department of Animal Science, Livestock Pavilion-Archer Road, University of Florida, Gainesville, Florida 32611. An Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL FELLOW-Immediate opening POSTDOCTORAL FELLOW-Immediate opening for person with experience in pulmonary biochemistry or immunology. Research involves proteinase; antiproteinase balance and relationship to human and experimental emphysema. Send applications including curriculum vitae to: Dr. George Weinbaum, Albert Einstein Medical Center, York and Tabor Roads, Philadelphia, Pa. 19141. Equal Opportunity Employer.

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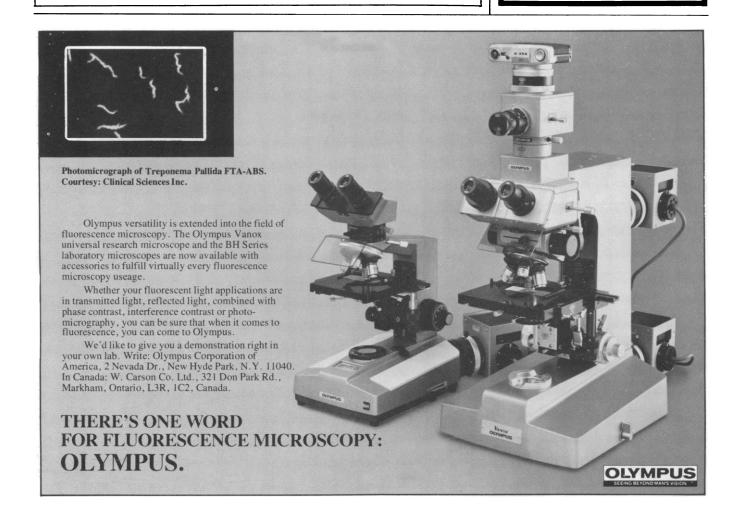
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