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versities take display rate for all advertising. **Display (Positions Open, Market Place, and so forth):** \$5.80 per millimeter; \$145 minimum charge, per in-sertion (covers 25 millimeters on single column; 25 mil-limeters equals 10 lines of 50 spaces per line). No charge for use of box number. No agency commission for ads under 103 millimeters (4 inches). No cash dis-count. Prepayment required for foreign advertising. Pur-chase orders and billing information required for all oth-er ads. er ads.

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POSITIONS WANTED

Anatomist/Human and Comparative. Ph.D. 1970; 8 years of medical school teaching experience (gross, histology, embryology, comparative anatomy). Has NSF grant for fish anatomy, physiology, ecology. Desires anatomy or biology faculty position. Box 73, SCIENCE.

Behavioral Pharmacologist/Physiological Psycholo gist. Ph.D. in psychology, 1973. Associated with pharmacology department for last 4 years. Research and teaching experience in experimental narcotic ad-diction, EEG-behavior relationships, and experi-mental analysis of behavior. Several publications and presentations reflecting multidisciplinary approach. Box 74, SCIENCE.

Biochemist-Enzyme Technologist, Ph.D. Experi-Biochemist—Enzyme Technologist, Ph.D. EXperi-ence in enzyme technology (enzyme immunoassay systems, enzyme reactors, enzyme therapy systems development), protein chemistry, analytical bio-chemistry, molecular biology. Broad research, teaching, supervisory experience. Seeking academ-ic, industrial, or governmental position. Reply to: P. Guire, 703 West 109 Terrace, Kansas City, Missouri 64114; telephone: 816-942-7461. X

Oncologist. ABIM, MO. Medical school faculty with administrative health care experience; desires relocation. Preference: medical school interested in developing cancer program. Box 64, SCIENCE. 3/10.17

Physiologist/Anatomist, Ph.D., desires return to full-Physiologist/Anatomist, Ph.D., desires return to ful-time academic position. Teaching competence in hu-man physiology, anatomy, histology, general zool-ogy, and biology. Excellent rapport with students. Publications and administrative experience. Inter-ested in colleges and universities where primary em-phasis is on excellence in teaching, but with chance to do some research. Box 75, SCIENCE.

Quantitative Plant Ecologist. Ph.D. 1963; 4 years of Quantitative Plant Ecologist. Ph.D. 1963; 4 years of American postdoctoral training in multivariate sta-tistical analysis. Teaching interests: population and community ecology; statistical methods and com-puter applications in ecology and taxonomy. Spe-cialization: quantitative analysis and description of vegetation. Academic position with teaching and re-search or applied position in United States/Canada sought. R. Gittins, Biogeography and Geomorphol-ogy, Research School of Pacific Studies, Australian National University, Box 4, Canberra, A.C.T., 2600 Australia. X Australia.

10 MARCH 1978

POSITIONS OPEN

ANATOMISTS

The Department of Anatomy invites applications for two faculty positions at the assistant professor level. Teaching responsibilities will be in either gross anatomy or neuroanatomy. Applicants should hold the Ph.D. or M.D. degree and preference will be shown to those with postdoctoral experience. Appli-cants should be strongly committed to research and be prepared to train graduate students at the mas-ter's and Ph.D. level. Successful applicants will be appointed to the faculty of the School of Medicine and of the College of Science and Engineering. Send curriculum vitee and three letters of recom-

Send curriculum vitae and three letters of recommendation to: Search Committee, Department of Anatomy, Wright State University, Dayton, Ohio 45435. Applications should be completed by 1 April 1978. Wright State University is an Equal Opportu-nity/Affirmative Action Employer.

Faculty position in AQUACULTURE. Assistant or associate professor; 20 percent teaching; 80 percent research. Ph.D. in a specific area of fisheries biology, with strong background in larval rearing of fish with species endemic to the Sacramento River, California, and interest in developing research and teaching in fish aquaculture. Interest in species other than salmonids preferred. Teaching at both undergraduate and graduate levels expected. Applicants should submit résumé, publication list, letter de-scribing interests, three letters of reference, and for recent Ph.D.'s, undergraduate and graduate tran-scripts, to: Graham A. E. Gall, Associate Director, Aquaculture, Department of Animal Science, Univer-sity of California, Davis, Calif. 95616 prior to 30 April 1978. Position available 1 July 1978. The University of California is an Equal Opportunity/Affirmative Action Employer.

AQUACULTURE POSITIONS University of California, Davis

Faculty positions in a developing aquaculture program. Appointments in the Department of Animal Science, positions housed at Bodega Marine Laboand teaching related to the development of aquacul-ture is essential. INVERTEBRATE PHYSIOLOGY: and reaching related to the development of adjuacti-ture is essential. INVERTEBRATE PHYSIOLOGY: assistant professor, 20 percent teaching and 80 per-cent research; supervise a marine program. Ph.D. in an appropriate discipline and expertise in larval physiology, endocrinology, or behavioral physiolo-gy of marine invertebrates. Teaching at both under-graduate and graduate levels expected. PATHOLO-GY: research position, assistant or associate level and lecturer. Ph.D. in fish or invertebrate pathology and interest in research in marine, aquatic-animal pathology and providing diagnosis and treatment re-gimes for other aquaculture units. Supervision of graduate students expected. Applicants should sub-mit résumé, letter describing qualifications, pub-lication list, three letters of reference, and copies of transcripts to: Wallis H. Clark, Jr., Director, Aqua-culture, Dean's Office, College of Agricultural and Environmental Sciences, University of California, Da-vis, Calif. 95616 prior to 15 April 1978. Position available 1 July 1978. The University of California is an Equal Opportunity/Affirmative Action Employer. an Equal Opportunity/Affirmative Action Employer.

ASSISTANT DIRECTOR OF NEW DRUG DEVELOPMENT MICROBIOLOGIST—Ph.D.

Pfizer Pharmaceuticals seeks an assistant director of and Scientific Affairs at the New York headquarters. The responsibilities include:

- Participation in managing Clinical Research Programs (protocol design, investigator selection, monitoring data collection, and interpretation),
- Monitoring preclinical studies to assure protocol adherence and accuracy of reported results,
- Screening research proposals for scientific inter-est to Pfizer and potential medical value, and
- Reviewing preclinical and clinical data of drugs undergoing licensing evaluation for accuracy, completeness, and scientific quality.

Qualified candidates will have at least 2 years of demonstrated experience in an approved clinical microbiological program in addition to the Ph.D. degree

Send curriculum vitae, including salary require-ments in strictest confidence, to: Manager, Profes-sional Placement, Pharmaceuticals Personnel, Pfizer, Inc., 235 East 42 Street (5th floor), New York, New York 10017.

An Equal Opportunity Employer, M/F

POSITIONS OPEN

ASSISTANT DIRECTOR AND ASSOCIATE RESEARCH SCIENTIST GREAT LAKES AND MARINE WATERS CENTER THE UNIVERSITY OF MICHIGAN

Applicants should have a Ph.D. in engineering or the natural sciences with research experience in phys-ical oceanography, water quality, or coastal processes. Must have experience in research administration and demonstrated ability to develop and manage ma-jor research grants and contracts. Submit résumé to:

> Dr. A. M. Beeton Chairman, Search Committee Great Lakes and Marine Waters Center University of Michigan 2200 Bonisteel Boulevard Ann Arbor, Michigan 48109

The University of Michigan is a non-discriminatory, Affirmative Action Employer.

ASSISTANT OR ASSOCIATE PROFESSORSHIP available by 1 July 1978 for teaching and conducting research on functional properties of food constitu-ents. Investigations will emphasize scientific prinents. Investigations will emphasize scientific prin-ciples underlying the role of constituents and their interactions in producing desirable properties in foods. Specific research programs will depend upon the expertise and interests of the candidate. Teach-ing responsibilities include coordinating laboratory courses on principles of food composition and prop-erties. Requirements include a Ph.D. degree in an area pertinent to food science (biophysics, biochem-istry, chemistry, physics, food science, nutrition, or a related field) and a demonstrated interest in food science. Send curriculum vitae transcripts of undera related field) and a demonstrated interest in food science. Send curriculum vitae, transcripts of under-graduate and graduate work, and publications to: **Professor T. A. Nickerson, Chairman, Search Com-mittee, Department of Food Science and Technology, University of California, Davis, California 95616.** At least three persons should be requested to send let-ters of recommendation. Applications must be re-ceived by 1 May 1978. An Equal Opportunity/Af-firmative Action Employer.

ASSISTANT OR ASSOCIATE PROFESSOR LABORATORY ANIMAL/ COMPARATIVE PATHOLOGY

An opening will be created in the Pathology De-partment for a Board-certified or Board-eligible vet-erinary pathologist, whose interests and training are in the field of experimental pathology. Experience in the use of laboratory animals in research and in dis-ease and environmental influences affecting such use is bibly desirable. The successful candidate will be is highly desirable. The successful candidate will be expected to participate in the usual departmental ac-tivities and to develop a strong teaching and re-search program in an area of laboratory animal/comparative pathology.

Specifically, the position encompasses teaching responsibilities in general pathology and special pa-thology, as well as selected courses in the Graduate School; it involves developing a laboratory through which the principles and techniques of experimental pathology can be applied to investigative programs and diagnostic problems; it requires rotation through the diagnostic process and surgical services with the attendant responsibility of overseeing the training of the pathology residents; it provides an opportu-nity for collaborative multidisciplinary research within the department; and it requires an active research interest and effort in diseases of animals with particular reference to those commonly used in research.

Salary and rank are dependent upon background and experience.

Applicants should send curriculum vitae, personal bibliography, and references to: Dr. Robert M. Lew-is, Chairman, Department of Pathology, New York State College of Veterinary Medicine, Cornell Univer-sity, Ithaca, New York 14853.

Affirmative Action/Equal Opportunity Employer

ASSISTANT PROFESSOR—GEOLOGY. Structural geologist/petrologist with Ph.D. to teach mineral-ogy, structural geology, and field methods to upper division undergraduates. Environmental interests desirable. Appointment begins September 1978 pending approval of funds. Send curriculum vitae and names of three references by 30 June 1978 to: Chairperson, Earth Sciences, Florida International University, Tamiami Campus, Miami, Florida 33199. An Equal Opportunity/Affirmative Action Employer. A member of the State University System of Florida.

ASSISTANT PROFESSOR wanted by 1 July 1978 for teaching and conducting research in cryoscience and technology, emphasizing investigation of the fundamental scientific principles of the frozen state and application of such principles to improving frozen food quality. Requirements include a Ph.D. degree pertinent to food science (biophysics, biochemistry, botany, chemistry, engineering, food science, physics, or a related field) and an interest in food science. Send curriculum vitae, transcripts of undergraduate and graduate work, and publications to: Professor W. D. Brown, Chairman, Search Committee, Department of Food Science and Technology, University of California, Davis, California 95616. At least four persons should be requested to send letters of recommendation. Applications must be received by 1 May 1978. An Equal Opportunity/Affirmative Action Employer.

Southern Illinois University at Edwardsville, School of Dental Medicine, invites applications for a fulltime faculty position of ASSISTANT PROFESSOR OF ANATOMY available 1 July 1978 in the Department of Biomedical Sciences. Ph.D. degree in anatomy, experienced in professional and graduate teaching in the human health sciences and a demonstrated research interest required.

Southern Illinois University at Edwardsville is an Affirmative Action/Equal Opportunity Employer and is working to meet specific needs of handicapped members of the University community.

Applications will be received until 15 April 1978. Send curriculum vitae to: Dr. Vasil Vasileff, Acting Dean, Southern Illinois University at Edwardsville, School of Dental Medicine, Edwardsville, Illinois 62026.

The Biology Department has a tenure-track position available at the ASSISTANT PROFESSOR level starting August 1978 in plant membrane biology or plant pathology. The appointee will be expected to teach a general botany course, and contribute to undergraduate and graduate training in an area of research specialization. The appointee is also expected to undertake a vigorous research program. Applicants should have a Ph.D. in botany or related area. Send curriculum vitae, transcripts, a brief statement of teaching and research interests, and have three letters of recommendation sent to: Dr. Kathryn Wilson, Search and Screen Committee, Department of Biology, Indiana-Purdue University at Indianapolis, 1201 East 38 Street, Indianapolis, Ind. 46205. The deadline is 1 April 1978. An Equal Opportunity/Affirmative Action Employer.

ASSISTANT TO ASSOCIATE PROFESSOR OF BI-OLOGY, fall 1978. Ph.D. to teach nursing microbiology, cell physiology, and genetics. Should be a generalist with interest in teaching. Research appreciated. Submit curriculum vitae, three letters of reference, and transcripts to: Personnel Office, University of Guam, P.O. Box EK, Agana, Guam 96910. Equal Opportunity/Affirmative Action Employer

ASSISTANT PROFESSOR OF

ASSISTANT PROFESSOR OF BIOLOGICAL CHEMISTRY

The Department of Biological Chemistry, Harvard Medical School, invites applications for two positions of assistant professor. Candidates should have a strong background in biochemistry and/or molecular biology.

Application should include your curriculum vitae, bibliography, a short summary of research goals, and the names of three professional persons acquainted with your work.

Send applications, for receipt by 10 April 1978, to: Dr. Charles C. Richardson Chairman, Search Committee Department of Biological Chemistry Harvard Medical School Boston, Massachusetts 02115

Boston, Massachusetts 02115 Harvard University is an Equal Opportunity Employer with an Affirmative Action Program, and it encourages applications from women and members of minority groups.

BIOLOGY FACULTY. Tenure-track position to teach undergraduate and graduate courses in area of immunology or hematology; also undergraduate courses in microbiology and general education. Doctorate or near completion of degree required. Appointment at rank of assistant professor (\$14,256 to \$17,136) depending on qualifications and experience. Contact: Dr. J. D. Crum, Dean, School of Natural Sciences, California State College, 5500 State College Parkway, San Bernardino, Calif. 92407. An Equal Opportunity/Affirmative Action Employer.

POSITIONS OPEN

ASSISTANT/ASSOCIATE PROFESSOR OF PATHOLOGY

A new and exciting position in an academic setting. Applicants should have an interest in research and service pathology. Attractive salary and benefit package. Should be Board-eligible or -certified. Forward curriculum vitae to:

Dr. Richard B. Middleton Associate Dean for Basic Sciences and Chairman of the Search Committee of Pathology COLLEGE OF MEDICINE AND DENTISTRY OF NEW JERSEY New Jersey School of Osteopathic Medicine

New Jersey School of Osteopathic Medicine P.O. Box 55 Piscataway, New Jersey

An Equal Opportunity/Affirmative Action Employer

ASSISTANT PROFESSOR OF PATHOLOGY with research background in malignant soft tissue tumors, blood platelets, electron microscopy, and cell tissue culture. M.D. degree and Board-certification required. Prior to 31 March 1978, direct curriculum vitae and three letters of reference to: J. W. Grisham, M.D., Chairman, Department of Pathology, University of North Carolina, Chapel Hill, N.C. 27514.

ASSISTANT PROFESSOR OF PATHOLOGY with specialization in pulmonary pathology. M.D. degree and Board-certification required. Research, teaching, and service. Prior to 31 March 1978, direct curriculum vitae and three letters of reference to: J. W. Grisham, M.D., Chairman, Department of Pathology, University of North Carolina, Chapel Hill, N.C. 27514.



Full-time opening for **BIOLOGIST** in liberal arts college in up-state New York. Physiologist who can teach clinical physiology course for students in health-related programs, or microbiologist with knowledge of epidemiology. Ph.D. and teaching experience required; administrative experience desirable. Assistant or associate professor rank; salary commensurate with experience. Send letter of application (including references) and professional cur-

commensurate with experience. Send letter of appication (including references) and professional curriculum vitae to: Chairman, Biology Department, Nazareth College of Rochester, 4245 East Avenue, Rochester, New York 14610. Equal Opportunity Employer POSITIONS OPEN

ASSISTANT RESEARCHERS

One position to study cerebellar stimulation influences on cerebellum and on experimental epilepsy. Candidate must have prior experience in bioengineering, electrophysiology, and primate neurosurgery.

The other position to study physiologic and pharmacologic mechanisms of hind-brain influences on the hippocampus. Candidate must have extensive experience with chronic intracellular recordings in monkeys and cats and in analysis of the effects of electrical stimulation and of pharmacologic agents on hippocampal neuronal firing. These positions are nontenured and will commence 1 July 1978. Address correspondence to: Myrna Beltman, Brain Research Institute, University of California, Los Angeles, California 90024. An Equal Opportunity/Affirmative Action Employer.

ASSOCIATE DEAN, College of Veterinary Medicine and Biomedical Sciences, Colorado State University (CSU). Responsibilities are principally in management of the academic and research affairs of the college which include undergraduate, graduate, and professional veterinary education. Applicants must have an earned doctoral degree (D.V.M. and/ or Ph.D. or equivalent), demonstrated academic leadership qualities and university teaching and research experience of high quality. Salary and starting date negotiable. Deadline for application is 15 April 1978. Send curriculum vitae and names of three or more references to: Dr. Max R. Zelle, Chairman of Search Committee, Department of Radiology and Radiation Biology, Colorado State University, Fort Collins, Colo. 80523. CSU is an Equal Opportunity/Title IX Employer. Equal Opportunity Office: 314 Student Services Building.

ASSOCIATE PROFESSOR-MICROBIOLOGY

Responsibilities include teaching of medical virology to medical and dental students and the conduct of independent research in pathogenic virology. Address inquiries to: Alexis Shelokov, M.D., Chairman, Department of Microbiology, The University of Texas Health Science Center at San Antonio, San Antonio, Texas 78284. Equal Opportunity/Affirmative Action Employer.

BIOCHEMIST

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

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

BIOCHEMISTRY

Applications are invited for a faculty position available at the assistant professor level. A Ph.D. or M.D. degree and 2 years of postdoctoral experience are required. Strong interests in the teaching of medical students and in the development of independent and collaborative research programs are required. Salary is negotiable depending on rank and experience. Applicants should submit curriculum vitae, a brief description of research interests, and three letters of recommendation to: Dr. Joseph G. Cory, Department of Biochemistry, 12901 North 30 Street, University of South Florida College of Medicine, Tampa, Florida 33612.

An Affirmative Action/Equal Opportunity Employer

San Diego State University announces the establishment of the E. F. F. COPP CHAIR OF BIO-CHEMISTRY. The search committee seeks an outstanding scientist whose research interests lie in the areas of diabetes and carbohydrate metabolism with special emphasis on hormone receptors, cell membranes, or mechanism of hormone action. Salary is highly competitive and negotiable. Applications should be submitted with curriculum vitae by 1 April 1978 to: Copp Chair Search Committee, Department of Chemistry, San Diego State University, San Diego, Calif. 92182. An Affirmative Action/Equal Opportunity/Title IX Employer.

SCIENCE, VOL. 199

BIOLOGY. Position open for Ph.D. with training in developmental biology and some area of plant biol-ogy, preferably plant physiology. Duties will include teaching in introductory and non-majors courses. In-structor or assistant professor. Salary and fringe benefits competitive. Send application, curriculum vitae, and three letters of recommendation by 1 April 1978 to: Sister Linda Kulzer, Acting Vice Presi-dent for Academic Affairs, College of Saint Benedict, Saint Joseph, Minn. 56374. Equal Opportunity Em-ployer in compliance with Title IX.

CELLULAR-MOLECULAR BOTANIST with research interest preferably in fungi, algae, or in pho-tosynthesis. Teaching responsibilities in interdepartmental biology program and in the department. To be filled at assistant professor level requiring Ph.D. be niled at assistant professor level requiring Ph.D. or equivalent, with postdoctoral experience desir-able. Send curriculum vitae and statement of re-search interest and teaching experience, transcripts, and provide three letters of reference by 15 April to: D. C. Glenn-Lewin, Department of Botany and Plant Pathology, Iowa State University, Ames, Iowa 50011. An Equal Opportunity Employer.

ENDOWED CHAIR— PROFESSOR/DIRECTOR, BIOMEDICAL ENGINEERING AND SCIENCE INSTITUTE

Drexel University invites nominations and applications for the position of Ernest N. Calhoun Professor of the Biomedical Engi-neering and Science Institute. This gener-ously endowed chair is designed for a pro-ductive scholar with established records of leaching and research, and having strong leadership and interest in directing the uni-versity's Institute for Biomedical Engineer-ing and Science. This multidisciplinary insti-tute is comprised of 13 full-time faculty from the various colleges of 15 full-time faculty from the various colleges of the university, and of-fers programs leading to the master's and doctorate degrees in biomedical engineering and science. Over 50 students are enrolled in the institute programs. The institute also has close academic/research relationships with Philadelphia area medical schools.

Interested applicants should submit their curriculum vitae and names of five references. Drexel University is an Equal Opportunity Employer.

Send application material to:

Dr. Hun H. Sun, Chairman Search Committee for Calhoun Professor/ Director Biomedical Institute Drexel University 7-412 Philadelphia, Pa. 19104

CHEMISTRY FACULTY POSITION

Visiting assistant professor. Ph.D. with specialty in Visiting assistant professor. Ph.D. with specialty in analytical-inorganic or physical-inorganic. Teach and direct student research in ACS-accredited un-dergraduate program at small, liberal arts college. One-year position beginning 1 September 1978, with possibility of extension. Send résumé, under-graduate and graduate transcripts, and three letters of recommendation to: Dr. Robert W. Ridgway, Chairman, Department of Chemistry, Rollins Col-lege, Winter Park, Florida 32789. The deadline for applicants is 1 April 1978. An Affirmative Action/ Equal Opportunity/Title IX Employer.

CLINICAL CYTOGENETICIST: Ph D cyto-CLINICAL CYTOGENETICIST: Ph.D. cyto-geneticist to operate diagnostic cytogenetics and clinical tissue culture laboratory at Milwaukee Chil-dren's Hospital, a major affiliate of The Medical Col-lege of Wisconsin. Faculty appointment at instructor or assistant professor level. Apply to: Chairman, De-partment of Pediatrics, The Medical College of Wis-consin, 1700 West Wisconsin Avenue, Milwaukee, Wisconsin 53233.

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Affirmative Action/Equal Opportunity Employer

CLINICAL PATHOLOGIST to join two pathologists in Department of Pathology Laboratories in center with general acute hospital operating 160 beds and medical group of 70 doctors. As assistant to chair-man responsible for administration of Clinic Labora-tories, approved in 1977 by C.A.P. and J.C.A.H. Af-filiated with local medical school for resident and fel-Initial with local field school for resident and re-low training. Located in metropolitan area of 375,000 population, with advantages of Southwest living. Contact: David J. Ottensmeyer, M.D., Medi-cal Director, Lovelace-Bataan Medical Center, 5200 Gibson Boulevard, SE, Albuquerque, New Mexico 87108. Telephone: 505-842-7073.

SCIENTISTS SOLAR ENERGY RESEARCH

The Solar Energy Research Institute, located in Golden, Colorado has several positions available in the Biological and Chemical Conversion Branch, Research Division.

Branch programs, both in-house and contract, are concerned with the broad spectrum of biological and chemical processes for conversion and storage of solar energy.

SR. SCIENTIST/BIOMASS PRODUCTION AND CONVERSION

PhD or equivalent with 5 or more years experience to direct in-house research programs and conduct thorough assessment of national and world-wide activities in this area.

SR. SCIENTIST/PLANT BIOCHEMISTRY

PhD in biochemistry or biology with 5 or more years experience in stabilization of biological systems, photosynthetic carbon metabolism, electron transport and membrane phenomena.

STAFF SCIENTIST/THERMOCHEMICAL CONVERSION OF BIOMASS

PhD in physical chemistry, mechanical or chemical engineering with 0-5 years post-doctoral experience. Will carry out laboratory studies of biomass conversion process kinetics and mechanisms and interpret experimental results through models.

STAFF SCIENTIST/ELECTROCHEMISTRY

PhD in physical or inorganic chemistry or chemical engineering with 0-5 years post-doctoral experience. Will carry out research programs in solar-relevant areas of electrochemistry. Background in fuel-cell or battery systems highly desirable.

STAFF SCIENTIST/ORGANOMETALLIC SYNTHESIS

PhD in inorganic or physical organic chemistry with 0-5 years postdoctoral experience. Will synthesize and characterize molecular systems as models for photochemical conversion of solar energy. Additional experience in kinetics, spectroscopy or electrochemistry highly desirable.

STAFF SCIENTIST/PHOTOSYNTHESIS

PhD in microbiology or biochemistry with 0-5 years post-doctoral experience in genetic selection of photosynthetic organisms, immobilized enzyme technology and photobiological hydrogen production.

Qualified persons are invited to submit detailed resumes, in confidence, by April 1, 1978 including professional and personal references, publications, and salary history to:

D. J. Burke, Manager Personnel Services THE SOLAR ENERGY RESEARCH INSTITUTE A Division of Midwest Research Institute 1536 Cole Boulevard Golden, Colorado 80401 An Equal Opportunity Employer M/F

Possible position in CHEMISTRY, lecturer rank, for academic ear 1978–1979 with the Freshman Honors Program. Requirements: Ph.D., evidence of under-graduate teaching excellence, willingness to work in multidisciplinary projects, and qualifications for honors program. Typical semester teaching load is 7 hours, which includes one honors course in in-troductory chemistry each semester and will usually also involve independent study supervision, tutori-als, or interdisciplinary courses. Appointees will have advisement responsibilities. One-year contract will be with the Freshman Honors Program in Do-ver, not with the Department of Chemistry. Salary competitive. Equal Opportunity/Affirmative Action Employer. Contact: Dr. Norman Derby, Freshman Honors Program, University of Delaware, Dover, Del. 19901 19901

DEAN School of Sciences and Health Professions Old Dominion University

Administrator to provide dynamic leadership to a major academic school in a state-supported urban university. The School of Sciences and Health Prouniversity. The School of Sciences and Health Pro-fessions includes the Departments of Biological Sci-ences, Chemical Sciences, Community Health Pro-fessions, Dental Hygiene, Mathematical and Com-puting Sciences, Nursing, Physics and Geophysical Sciences, Psychology, and the Institute of Oceanog-raphy. Degree programs offered at the bachelor's, master's, and doctoral level. The school has respon-sibility for two of the university's areas of interest. sibility for two of the university's areas of interest: marine/environmental studies and health professions, and makes significant contributions to emphasis areas of public administration, urban studies, and urban education.

Requirements: doctorate, teaching and administra-tive experience in an institution of higher education, and demonstrated ability for leadership in the areas of teaching, research and community service. It is desirable that candidates be familiar with scientific disciplines and health professions. Salary is open and competitive.

Old Dominion University, located in Norfolk, Va., a metropolitan area with a population of more than 1 million, has approximately 14,000 students registered in on-campus credit courses, a strong commitment to off-campus credit work, to non-credit ac-tivities, and to research.

Send résumés and references by 27 March 1978 to: Send resumes and references by 27 March 1978 to: Dr. Marvin E. Wyman, Associate Provost for Re-search and Sponsored Programs, Old Dominion Uni-versity, Norfolk, Va. 23508. An Affirmative Action/ Equal Opportunity Employer.

PACIFIC STUDIES PROGRAM UNIVERSITY OF HAWAII, MANOA

DIRECTOR AND ASSOCIATE PROFESSOR. Posi-tion is half-time on an 11-month basis, commencing approximately 1 July 1978. It involves program ad-ministration, including a Pacific Islands Studies Cen-ter; chairmanship of the graduate program and the offering of a graduate seminar; and research coordi-nation. Applicants should possess a Ph.D. degree and academic experience sufficient to qualify for as-sociate rank, including a record of research con-cerned with the Pacific area (Pacific Islands, Austra-lia, and New Zealand). A disciplinary focus within the social sciences and with additional experience in the humanities and natural sciences is desirable. Ap-plications, including a résumé and list of references, should be sent to: Professor C. S. Ramage, Depart-ment of Meteorology, University of Hawaii, 2525 Cor-rea Road, Honolulu, Hawaii 96822. Application deadline is 31 March 1978. **DIRECTOR AND ASSOCIATE PROFESSOR.** Posi-

An Affirmative Action/Equal Opportunity Employer

TWO FACULTY POSITIONS. (i) Vertebrate Anatomist-Histologist. Tenure-track position at assistant professor level. Ph.D. and demonstrated excellence as a teacher required. Course responsibilities in-clude vertebrate morphology, histology, and basic als a teacher loquined recomposition of the second second

DIRECTOR CANCER CONTROL PROGRAMS

This senior-level position requires an exceptional in-dividual capable of taking complete responsibility for the development and operation of a cancer control program in a large metropolitan area and the sur-rounding 12-county region. Activities would include rounding 12-county region. Activities would include professional education, development of working relationships with the region's health systems agencies, and community outreach/coordination. The individual selected must have experience in pro-gram planning, administration, budgeting, and com-munity liaison. Exposure to NCI-funded programs is a definite asset. An advanced degree in an appropri-ate social science is required. In addition, a mini-mum of 5 years of significant experience is required. Qualified applicants should send a detailed curricu-lum vitae to: **Box 77, SCIENCE.**

ECOLOGIST. The Department of Biology at North-ern Michigan University is seeking applications for a 1-year temporary position at the assistant professor level beginning 21 August 1978. Candidates will be expected to teach courses in ecology and either inhold the doctoral degree.

Closing date for applications is 1 April 1978. Send curriculum vitae, transcripts, and two letters of rec-ommendation to: Dr. J. Kirwin Werner, Head, De-partment of Biology, Northern Michigan University, Marquette, Mich. 49855.

Northern Michigan University is an Equal Opportunity Employer and actively seeks applications from all qualified persons whatever their age, color, handicap, national origin, race, religion, or sex.

ECOLOGIST. Assistant professor to teach ecology. botany, and human ecology and team-teach in-troductory biology at a women's liberal arts college. Broad background in zoology and botany with re-search in some aspect of plant ecology. Ph.D. re-quired; teaching experience desirable. Please send résumé, transcripts (informal acceptable), and have three letters of recommendation sent by 1 April to: three letters of recommendation sent by 1 April to: Dr. J. W. Edwards, Biology Department, Salem Col-lege, Winston-Salem, N.C. 27108.

Florida State University wishes to hire an **EXPERI-MENTAL PSYCHOLOGIST** for a regular tenure-track position at the level of assistant professor be-ginning September 1978. We would like someone ginning September 1978. We would like someone who has an active research program in human visual perception and who will provide a link between existing faculty strengths in the physiological bases of vision and in human memory. Teaching duties will include undergraduate and graduate courses in per-ception and human information processing. Nomi-nations and applications are invited. Include curricu-lum vitae and, if possible, copies of representative publications. Send to: **Dr. Darryl Bruce, Department of Psychology. Florida State University. Tallabasee**. of Psychology, Florida State University, Tallahassee, Florida 32306. Equal Opportunity/Affirmative Action Employer

FACULTY POSITIONS IN PHYSIOLOGY

The Department of Physiology and Biophysics, University of Iowa, College of Medicine, invites appli-cations from individuals having the Ph.D. or M.D. degree and at least 1 year of postdoctoral experience for non-tenure faculty positions at the associate level. Candidates should be prepared to participate in the medical and graduate training activities of the dethe medical and graduate training activities of the de-partment and conduct research in neurophysiology, membrane physiology, cardiovascular physiology, or cellular endocrinology. Please send curriculum vitae, including bibliography and brief description of research interests, teaching experience, and career objectives, with names of at least three references, to: Dr. Robert E. Fellows, Department of Physiology and Biophysics, University of Iowa, College of Medi-cine, Iowa City, Iowa 52242. The University of Iowa is an Equal Opportunity Employer.

GRANT COORDINATOR

Assist medical and other health professions faculty in securing grant support for research training and other sponsored activities. Administer awards in conformity with appropriate laws and regulations, university liaison with sponsoring agencies. Degree in life, health, and related sciences required. Grant administration experience desirable. Salary: \$15,786 to \$19,000. Send curriculum vitae and references to: To \$19,000. Send curriculum vitae and references to: Dr. A. R. Macon, Associate Provost for Research, Of-fice of Research, University of South Carolina, Co-lumbia, S.C. 29208. Applications not accepted after 15 April 1978. An Affirmative Action/Equal Opportu-tion Employee nity Employer.

POSITIONS OPEN

FACULTY POSITION IN BIOCHEMISTRY

Department of Chemistry at University of Southern Mississippi seeks a **BIOCHEMIST** for tenure-track position beginning 1 September 1978. Assistant or associate professor rank, depending on qualifica-tions. Competitive salary. Ph.D. required, post-doctoral experience preferred. Excellence in gradu-te and undergraduate teaching required. Vicorrous doctoral experience preferréd. Excellence in gradu-ate and undergraduate teaching required. Vigorous research program expected. Applications should in-clude curriculum vitae, complete transcripts, de-scription of research and teaching interests, and three letters of reference to be sent to: Dr. John H. Bedenbaugh, Chairman, Chemistry Department, Box 43, University of Southern Mississippi, Hattiesburg, Mississippi 39401. Deadline: 7 April 1978. An Equal Opportunity/Affirmative Action Employer.

FACULTY POSITIONS BIOCHEMISTRY AND BIOPHYSICS

Tenure-track positions are available at the assistant/associate professor level for individuals with postdoctoral experience and whose research inter-ests may include: biochemical endocrinology, mem-branes, and cell surfaces; structure and regulation of branes, and cell surfaces; structure and regulation of the genetic apparatus including differentiation, mo-lecular genetics, and recombinant DNA research; or macromolecular interactions including protein struc-ture and function. Candidates qualified to teach gen-eral biochemistry are preferred. Applications, in-cluding a curriculum vitae, short description of re-search interests, and names of three individuals from whom we may request latter of recommendation whom we may request letters of recommendation should be sent by 1 May 1978, to: Dr. R. W. Bern-lohr, Department of Biochemistry and Biophysics, The Pennsylvania State University, 108 Althouse Lab-oratory, University Park, Pennsylvania 16802. An Affirmative Action/Equal Opportunity Employer

DEPARTMENT OF BOTANY UNIVERSITY OF TENNESSEE, KNOXVILLE

FACULTY POSITION—GENETICIST/CYTOGE-NETICIST. Applications are invited for a tenure-track position as assistant professor of botany, ef-fective January 1979, or possibly 1 September 1978. The successful candidate will be expected to teach undergraduate courses in genetics and a graduate course in cytogenetics, to cooperate with other fac-ulty members in offering graduate courses and semi-nars in related disciplines, and to participate from time to the teaching of other basic denarttime to time in the teaching of other basic depart-mental courses such as general botany and biology. He/she will be expected to develop a vigorous, inde-pendent research program and to seek extramural research support. The particular research area is flexible, but it should complement the interests of other faculty members, in general, and of those in genetics and cytology, in particular. A Ph.D. degree is required. Postdoctoral research and/or teaching Is required. Postdoctoral research and/or teaching experience is desirable but not necessary. Send cur-riculum vitae and the names and addresses of three references to: Dr. Patricia L. Walne, Department of Botany, University of Tennessee, Knoxville, Tenn. 37916. Applications will be accepted until 27 March 1978 or until position is filled. The University of Ten-nessee, Knoxville, is an Equal Opportunity/Affirm-ative Action/Title IX/Section 504 Employer.

UNIVERSITY OF MICHIGAN MEDICAL SCHOOL

FACULTY POSITIONS available in newly established Department of Family Practice. One of these positions will include responsibilities as director of the Family Practice Clinic. Applicants must be dip-lomates of the American Board of Family Practice or eligible for such certification. Rank and salary commensurate with qualifications and experience. Ex-cellent fringe benefits are available. This is a unique opportunity for individuals who would enjoy the opportunity for individuals who would enjoy the challenge of originating high caliber educational pro-grams in family practice at an institution which is committed to excellence. Applicants should send curriculum vitae and three references to: **Box 76**, SCIENCE. A nondiscriminatory, Affirmative Action Employer

GEOLOGIST. Ph.D. required. Assistant professor, tenure-track position beginning fall 1978. Specialty in soft-rock economic geology with interest in coal in soft-rock economic geology with interest in coal and ability to teach introductory, economic, struc-tural, geomorphology, and stratigraphy-sedimenta-tion courses. Position is approved but contingent up-on funding. Send résumé, by 31 March 1978, to: Dr. Frank A. Butler, Physical Sciences Programs, North-ern Kentucky University, Highland Heights, Ken-tucky 41076 (in the Greater Cincinnati area). An Af-fermative Action/Eval Opportunity Employer firmative Action/Equal Opportunity Employer

FACULTY POSITION IN ATMOSPHERIC SCIENCES

The Department of Atmospheric Sciences, University of California, Los Angeles (UCLA), has a non-tenure faculty position opening, starting 1 July 1978. The candidate must have a Ph.D. in atmo-

non-tenure faculty position opening, starting 1 July 1978. The candidate must have a Ph.D. in atmospheric sciences and a strong background in the general area of atmospheric dynamics. Preferred areas of the candidate's specialization are:

Cloud dynamics with an emphasis on interaction with cloud microphysics;
Turbulent transfer with an emphasis on application to the interactions between the atmosphere and oceans or to the transport and diffusion of atmospheric pollutants; and
Dynamics of large-scale atmospheric disturbances with an emphasis on the study of transport processes and energy propagation.

The candidate will be expected to teach undergraduate and graduate level courses in atmospheric dynamics and possibly in cloud physics depending on his or her specialty. Applicants should submit résumés, including a list of publications and the names of three references, to: Chairman, Department of Atmospheric Sciences, University of California, Los Angeles, California 90024. UCLA is desirous of receiving applications from minorities and women candidates as well as from other qualified persons. UCLA is an Equal Opportunity/Affirmative Action Employer.

DEPARTMENT OF RADIOLOGICAL SCIENCES UNIVERSITY OF CALIFORNIA, IRVINE

The Department of Radiological Sciences at the University of California, Irvine, invites applications for a full-time position in GASTROINTESTINAL RADI-OLOGY at assistant professor level. Applicants a tuil-time position in GASTROINTESTINAL RADI-OLOGY at assistant professor level. Applicants should be Board-certified radiologists with special training in G.I. radiology. Preference will be given to candidates with training in radiological research. In addition to the clinical service the successful appli-cant will be responsible for the academic aspects of G.I. radiology and will be expected to develop a strong research program and to take a vigorous part in resident training. The successful candidate will be strong research program and to take a vigorous part in resident training. The successful candidate will be based at the VA Hospital, Long Beach (chief of radi-ology, Dr. Henry Pribram), and will be appointed to the faculty of the University of California, College of Medicine, Irvine. Applications from all qualified candidates are welcome; minorities and women are encouraged to apply. Applications, including a biog-raphy and copies of any publications, should be sent to:

> Eric N. C. Milne, M.B., Ch.B., F.F.R. Professor and Chairman Department of Radiological Sciences University of California, Irvine College of Medicine Irvine, California 92717

Closing date: 15 April 1978.

DEPARTMENT OF RADIOLOGICAL SCIENCES UNIVERSITY OF CALIFORNIA, IRVINE

The Department of Radiological Sciences at the University of California, Irvine, invites applications for a full-time position in **URORADIOLOGY** at assistant or associate professor level. Applicant should be Board-certified in diagnostic radiology with special bor associate professor lever. Applicant should be Board-certified in diagnostic radiology with special training in uroradiology, preferably at a university medical school; applicant must have experience in interventional uroradiology, interest in the problems of spinal cord injury patients, and be prepared to de-velop a research program in uroradiology. The post will include responsibility for the clinical operation of the Uroradiological Division and teaching at un-dergraduate and resident levels. The successful can-didate will be based at the VA Hospital, Long Beach (chief of radiology, Dr. Henry Pribram), and will be appointed to the faculty of the University of Califor-nia, College of Medicine, Irvine. The residency pro-gram in radiological sciences is completely in-tegrated between the University of California, Irvine Medical Center, the VA Hospital, Long Beach, and Memorial Hospital, Long Beach. Applications, from all qualified candidates are welcome; minorities and women are encouraged to apply. Applications, which must include a short biography and copies of any publications, should be sent to: **Eric N. C. Milne, M.B., Ch.B., F.F.R.**

Eric N. C. Milne, M.B., Ch.B., F.F.R. Professor and Chairman Department of Radiological Sciences University of California, Irvine College of Medicine Irvine, California 92717 Closing date: 15 April 1978.

10 MARCH 1978

POSITIONS OPEN

POSITIONS OPEN

UNIVERSITY OF BRITISH COLUMBIA FACULTY POSITION IN BIOCHEMISTRY

Applications are invited for the position of assistant professor of biochemistry in the Faculty of Medicine, University of British Columbia. Appointment at a higher rank may be possible. The successful applicant will have a major responsibility for the development and teaching of a course in human biochemistry primarily for medical students. In addition, the person will be expected to develop a vigorous research program. A Ph.D. or M.D. and postdoctoral training are minimal requirements. Starting date is September 1978 or as soon thereafter as possible. This position is advertised subject to funds being made available.

Applications and the names of three references should be sent before 15 May 1978 to: Head, Department of Biochemistry UNIVERSITY OF BRITISH COLUMBIA

Vancouver, British Columbia, Canada V6T 1W5

ECOLOGY POSTDOCTORALS (TWO

Positions available immediately for a **physiological plant ecologist** and a **systems ecologist** for integrated studies of grass physiology and modeling of an East African grazing ecosystem where large ungulates are major herbivores. The physiological ecologist will be responsible for studies of the effects of soil water responsible for studies of the effects of soil water and foliage clipping on gas exchange, growth, and assimilate distribution in grasses; previous experi-ence with IRGA, radioisotopes, or root growth physiology is desirable. The systems ecologist will be responsible for developing a grazing ecosystem model; some knowledge of Box's statistical methods for defining response surfaces is desirable. Starting salaries are \$12,000 annually; continuation beyond 1 year is contingent upon mutual consent. Send cur-riculum vitae and three letters of evaluation to: **Pro**fessor S. J. McNaughton, Biological Research Labo-ratories, 130 College Place, Syracuse, New York 13210 by 15 April 1978. Syracuse University is an Equal Opportunity/Affirmative Action Employer.

FACULTY POSITIONS. Program in Environmental Chemistry in the Department of Environmental Health Sciences, The Johns Hopkins University, School of Hygiene and Public Health, invites applications for faculty positions at the assistant profes-sor level. The program deals with the study of mo-lecular mechanisms of the effects of toxic chemicals and physical agents on biological systems. The posi-tions are open to environmental chemists, radiation tions are open to environmental chemists, radiation biologists and chemists, photobiologists, and photo-chemists. Recent Ph.D.'s with exceptional qualifica-tions and promise for research and teaching at the graduate level are required. Applications should be sent to: Dr. Shih Yi Wang, Room 4116, The Johns Hopkins University, 615 North Wolfe Street, Balti-more, Maryland 21205. The Johns Hopkins Universi-ty is an Equal Opnortunity/differentive Action Femty is an Equal Opportunity/Affirmative Action Employer.

Ph.D., INORGANIC CHEMISTRY, to join our **Ph.D.**, **INORGANIC CHEMISTRY**, to join our Chemical Nitrogen Fixation Research group. Expe-rience in the synthesis and characterization of transi-tion-metal complexes helpful. Excellent research fa-cilities, benefits, and working conditions. Salary commensurate with experience and qualification. Apply with résumé and three references to:

Dr. Ocleris Simpson, Program Director Nitrogen Fixation P.O. Box 5744 Fort Valley State College Fort Valley, Georgia 31030 Position open until filled.

An Equal Opportunity/Affirmative Action Employer

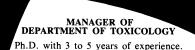
INVERTEBRATE ZOOLOGIST, Ph.D., probable opening at an undergraduate liberal arts college, be-ginning in September 1978. Candidates are sought whose experience is broad, but whose special inter-est may lie in marine biology adaptivities of the whose experience is broad, but whose special inter-est may lie in marine biology, adaptational physiolo-gy, or field-oriented work. Teaching duties include offerings in invertebrate zoology and other fields re-lated to the candidate's interests and participation in an introductory course in biology. Opportunity for research. Rank: assistant professor. Send curricu-lum vitae, statement of interests, three letters of ref-erence, and transcripts by 31 March 1978 to: Dr. Robert E. Savage, Chairman, Department of Biology, Swarthmore College, Swarthmore, Pa. 19081. An Equal Opportunity Employer.

MEDICAL COLLEGE OF OHIO DEPARTMENT OF PHARMACOLOGY

Applications are invited for two faculty positions (i) For one we seek a **cardiovascular pharmacologist** (rank open) with an established research program. (ii) The other is at the level of instructor or assistant professor. Preference will be given to those with re-search interests in **endocrinology** and **metabolism**. The successful candidate for this position will be ex-pected to collaborate initially in an ongoing research rogram, and will be encouraged to develop an independent research project.

pendent research project. Both candidates must be qualified to participate in the teaching of medical and graduate students. Please send curriculum vitae and names of refer-ences to: Dr. A. Askari, Department of Pharmacolo-gy, Medical College of Ohio, C.S. #10008, Toledo, Ohio 43699.

An Equal Opportunity Employer



Ph.D. with 3 to 5 years of experience. Prefer Board-certification in veterinary toxicology or pathology. Will staff and supervise toxicology department, set up and direct in vitro methods for mutagenecity screening.

INHALATION TOXICOLOGIST

One to 2 years of experience in acute, subacute, and chronic toxicology. Ph.D. preferred.

Both positions will write proposals and technical reports, interfacing with clients and other in-house technical groups at our Life Sciences Division in New Iberia, La. Excellent benefits include generous vacation and sick leave provi-sions, group life, hospitalization, and major medical insurance, TIAA-CREF retirement program, and liberal house-hold and personal relocation allowances. Send résumé to: Send résumé to:

Personnel Manager GULF SOUTH RESEARCH INSTITUTE 8000 GSRI Avenue Baton Rouge, La. 70808 Equal Opportunity Employer, M/F

MOLECULAR BIOLOGIST WITH EXPERTISE IN BIOCHEMICAL PHYSIOLOGY. Applications are invited for a regular faculty position at the assistant professor level starting September 1978. Completed Ph.D. required. Teaching responsibilities include ad-Ph.D. required. Teaching responsibilities include ad-vanced courses in molecular biology and biochemi-cal physiology and participation in a cell biology course. Research facilities available include labora-tories well equipped for structural and physico-chemical studies of proteins. Please send résumé and arrange to have three letters of recommendation sent by 1 April 1978 to: Molecular Biology Search Committee, Department of the Biological Sciences, mith College Northermeton Mass 01663 Smith College, Northampton, Mass. 01063.

POSITIONS OPEN



MEDICAL MICROBIOLOGY/ MEDICAL MICROBIOLOGY/ PATHOLOGY and GENERAL ACADEMIC PATHOLOGY UCR/UCLA PROGRAM IN BIOMEDICAL SCIENCES

The University of California, Riverside/Los Angeles, Program in Biomedical Sciences, which offers an accelerated M.D. curriculum jointly between the University of California, Jointly between the University of California, Riverside, and the UCLA School of Medi-cine, has two openings for ASSISTANT **PROFESSORS**. Teaching responsibilities for one position will be divided between **medical** one position will be divided between medical microbiology and general pathology. The oth-er position will involve participation togeth-er with clinical pathology faculty in the pre-sentation of pathology in courses on disease mechanisms. Applicants are expected to de-velop an independent research program and to qualify for a joint appointment with the biology or biochemistry graduate faculty. *The University of California is an Affirm-ative Action/Equal Opportunity Employer*. Applications, including a curriculum vitae and names of references, should be sent to: Dr. Evert A. Notemann

Dr. Ernst A. Noltmann Associate Dean and Director Program in Biomedical Sciences University of California, Riverside Riverside, California 92521

NEUROANATOMIST—POSTDOCTORAL POSI-TION at Harvard Medical School, Department of Neurology, available July 1978. Salary range \$10,000 to \$13,200. Projects will be related to the cortico-cortical connections of the monkey brain with spe-cial emphasis on the interactions between sensory association areas and limbic structures. Experience with autoradiographic and horseradish peroxidase techniques would be an advantage. Additional intertecnniques would be an advantage. Additional inter-est in transmitter histochemistry and/or pharmacolo-gy is desirable. Send letter of application, curricu-lum vitae, and the names of two references to: Ma-rek-Marsel Mesulam, M.D., Neurological Unit, Beth Israel Hospital, 330 Brookline Avenue, Boston, Mas-sachusetts 02215.

NEUROBIOLOGY. Research assistant professor and/or postdoctoral fellow in area of membrane biol-ogy and/or surface chemistry of neurons and glial cells. Candidates will participate in research on nerve regeneration. Curriculum vitae and three let-ters of recommendation should be sent to: **Dr. D. J.** Lyman, Department of Bioengineering, University of Utah, Salt Lake City, Utah 84112, not later than 31 March 1978. An Equal Opportunity Employer.

PHARMACOLOGISTS WANTED

Ph.D. with training and experience in analytical chemistry and pharmacokinetics. Applicant should be familiar with assay of drugs and drug metabolites using HPLC, GLC techniques and have interests in teaching, and basic and clinical research.

Ph.D. with background in neurochemistry, biochemistry, or psychopharmacology.

Faculty positions are tenure-track; they involve medical and graduate student teaching. Postdoctoral experience preferred. Salaries negotiable.

Apply to: Donald S. Robinson, M.D., Professor and Chairman, Department of Pharmacology, Marshall University, School of Medicine, Huntington, West Virginia 25701.

NEUROBIOLOGIST

The Department of Physiology is seeking a neu-robiologist at the assistant professor level. Prefer-ence will be given to individuals whose work relates to the function of the central nervous system. The position permits considerable time for research; op-portunities exist for graduate and medical student

Please send curriculum vitae, bibliography, and the names and addresses of three references to:

Chairman, Neurobiologist Search Committee Department of Physiology Yale University School of Medicine 333 Cedar Street New Haven, Conn. 06510

Applications from women and members of minor-ity groups are encouraged. An Equal Opportunity/ Affirmative Action Employer.

Applications should be received before 30 March 1978.

UNIVERSITY OF OKLAHOMA COLLEGE OF MEDICINE

Applications are solicited for faculty positions in **PATHOLOGY**: (refer to #103) assistant-associate **professor**—electron microscopist in molecular pathology; (#104) associate **professor**—function primarily in service capacity but also entails teaching and research responsibilities.

Applicants should send curriculum vitae identifying Apprearies 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, Oklahoma 73190. We are an Equal Opportunity Employer.

PHARMACOLOGIST

The University of South Carolina, School of Med-The University of South Carolina, School of Med-icine, invites applications for faculty positions in its recently established Department of Pharmacology. Candidates should have a Ph.D. and/or M.D. degree and postdoctoral experience. Candidates should de-sire involvement in a growing department and have a commitment to teaching medical students and to an independent research procerne. Pank and calary are independent research program. Rank and salary are negotiable.

Preference will be given to those applicants with a cellular or biochemical approach to pharmacology, although outstanding and broadly experienced indi-viduals in all areas will be considered. Interested in-dividuals should send their curriculum vitae and the names of three references to:

Dr. Donald O. Allen, Chairman Department of Pharmacology University of South Carolina Columbia, South Carolina 29208

An Equal Opportunity/Affirmative Action Employer

PHYSICAL OCEANOGRAPHER

Faculty position open at the assistant or associate professor level for a physical oceanographer in the Department of Oceanography, Florida State Univer-sity. Primary emphasis is placed on a candidate's training in fluid mechanics, ability to contribute new training in fluid mechanics, ability to contribute new ideas and experience in physical oceanography. The position is available in September 1978, although an earlier starting date is possible. Please direct in-quiries to: Dr. G. L. Weatherly, Search Committee, Department of Oceanography, Florida State Universi-ty, Tallahassee, Fla. 32306; telephone: 904-644-6700. We encourage applications from women and minor-ity groups; Florida State University is an Equal Op-portunity/Affirmative Action Employer.

POSITIONS OPEN

Ph.D. or M.D., with interest in immunology, transplantation biology, and hematology, wanted for staff position. Clinical and/or research background in marrow transplantation desirable. *Equal Opportu*nity Employers. Address application to:

Rainer Storb, M.D. Fred Hutchinson Cancer Research Center 1124 Columbia Street Seattle, Wash. 98104

PHYSICAL OCEANOGRAPHER

The Department of Oceanography of Texas A & M University solicits applications for an aca-demic faculty position in physical oceanography be-ginning in the fall semester of 1978. Appointment will be made at the level of assistant professor. Salary will be commensurate with experience. Applicants are invited to submit a curriculum vitae, one-page summary of research interests, and three letters of recommendation to:

Dr. Worth D. Nowlin, Jr. Dr. worth D. Nowin, Jr. Department of Oceanography Texas A & M University College Station, Texas 77843 Telephone: 713-845-7211

Texas A & M University is an Equal Opportunity/ Affirmative Action Employer.

PHYSICAL OCEANOGRAPHY POSTDOCTORAL

Postdoctoral position in physical oceanography available immediately in a challenging research pro-gram concerning continental shelf circulation. Appligram concerning continental shelf circulation. Appli-cants should have a Ph.D. degree in physical ocean-ography and expertise in numerical modeling and data analysis. Field experience with standard ocean-ographic equipment will be helpful. Salary \$14,000 to \$16,600 a year. Applicants should submit a ré-sumé and names of three references to: Dr. Y. Hsueh, Department of Oceanography, Florida State University, Tallahassee, Fla. 32306. Florida State University is an Equal Opportunity/Affirmative Ac-tion Employer.

POSTDOCTORAL APPOINTMENT available im-mediately. Qualified individual with experience in cell biology and/or glycoprotein chemistry is pre-ferred. The primary aim is the study of glycoprotein metabolism during cell differentiation. Send résumé and references to: Dr. A. E. Chung, Department of Biological Sciences, University of Pittsburgh, Pitts-burgh, Pennsylvania 15261. An Equal Opportunity/ Affirmative Action Employer.

POSTDOCTORAL POSITION

Postdoctoral position available immediately in a stimulating and challenging research environment. Participation in ongoing preclinical as well as clinical psychopharmacology research, with particular em-phasis on the involvement of cholinergic mecha-nisms in psychiatric disorders. Experience with GC/ nisms in psychiatric disorders. Experience with GC/ MS methodology and enzyme techniques useful. Appointment is for a minimum of 2 years. Salary range: \$11,000 to \$13,000, depending on experience. Please send curriculum vitae and names of three ref-erences to: Israel Hanin, Ph.D., Associate Professor of Psychiatry, WPIC, University of Pittsburgh School of Medicine, 3811 O'Hara Street, Pittsburgh, Pa. 15261. An Equal Opportunity/Affirmative Action Employee. Employer.

POSTDOCTORAL OR RESEARCH ASSOCIATE POSTDOCTORAL OR RESEARCH ASSOCIATE POSITION available immediately for research in bi-ology of mineralized tissues. Experience in autoradi-ography, morphometry, and tissue culture pre-ferred. Salary: \$11,000, plus benefits. Send curricu-lum vitae and two letters of reference to: Dr. Webster S. S. Jee, Radiobiology Laboratory, Building 522, University of Utah, College of Medicine, Salt Lake City, Utah 84112.

POSTDOCTORAL POSITIONS

Two postdoctoral positions available immediately in a fully equipped laboratory for research related to chemical carcinogenesis in primary cultures of he-patocytes. Background in tissue culture or chemical patocytes. Background in tissue culture or chemical carcinogenesis or nucleic acid and protein separa-tion techniques is desirable. Interested persons should submit curriculum vitae, two letters of rec-ommendation, and reprints or preprints of publica-tions to: George Michalopoulos, M.D., Ph.D., Jones Center for Cancer Research, Duke University Medical Center, P.O. Box 3156, Durham, North Carolina 27710. Duke University is an Equal Opportunity/Af-firmative Action Employer. firmative Action Employer.

CSIRO POSTDOCTORAL RESEARCH FELLOW MOLECULAR AND CELLULAR BIOLOGY UNIT NORTH RYDE, NEW SOUTH WALES

CSIRO has a broad charter for research into primary and secondary industry areas. The organization has approximately 7,000 employees, 2,300 of whom are research and professional scientists, located in divisions and sections throughout Australia.

out Australia. GENERAL: the newly established unit forms, with part of the Division of Ani-mal Production, the CSIRO Genetics Research Laboratories. Its objective is the study of basic mechanisms of molecular genetics and cellular biology and their applications to problems of human welfare, animal production, and industry. The unit has 10 research scientists with some 21 support staff and 15 site service staff. The unit is well equipped for its present activities in molecular biology and has facilities for small animal research. It has close working relations with other Divisions of Applied Organic Chemistry, Food Research, Protein Chemistry, and Animal Production; University, Canberra. The laboratory is situated in a pleasant suburban location close by other CSIRO establishments and Mac-quarie University. quarie University.

DUTIES: to work on the chemistry of mutagenesis, or DNA breakage and re-DUTIES: to work on the chemistry of mutagenesis, or DNA breakage and re-pair, or the isolation, characterization and sequencing of DNA/RNA associated with the differentiation and evolution projects of the unit. The fellow would be expected to collaborate with one of the existing groups in the unit which are studying DNA breakage and repair, cellular differentiation, molecular evolution of influenza virus, and antigenic diversity. Experience with the enzymology of DNA replication or degradation, of recombinant DNA technology, or of nucleic acid sequencing, or in some similar area, would be an advantage.

SALARY: research scientist or senior research scientist: A\$14,506 to A\$21,134 per annum (U.K.£8,703 to U.K.£12,680; U.S.\$16,536 to U.S.\$24,092). TENURE: the appointment will be for a fixed term of 3 to 5 years.

FARE AND ALLOWANCES: fares and allowances payable can include: • Special living allowance to offset cost of temporary accommodation,

• Return air fares for appointee, spouse, and dependent children,

Baggage allowances.

FURTHER INFORMATION: for further information please contact: Dr. G. W. Grigg, Officer-in-Charge of the Unit.

Please send applications with full details of experience and qualifications to:

The Officer-in-Charge Molecular and Cellular Biology Unit P.O. Box 184 North Ryde, N.S.W. 2113, Australia

by 31 March 1978.

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MATHEMATICAL STATISTICIAN

The National Institute of Environmental Health Sciences, National Institutes of Health, Public Health Service, invites applications for the position of Mathematical Statistician. This position will be located in the Biometry Branch (David G. Hoel, Chief) where the incumbent will be involved in full time basic research relating to environmental health problems. Areas of current Branch research include population genetics, mutagenesis, mathematical modeling, epidemiology and risk assessment. The position requires a Ph.D. or equivalent in Mathematical Statistics or a closely related field with additional training and/or experience in the biological sciences.

The position will be filled through career Civil Service appointment. Applicants will be subject to procedures prescribed by the Civil Service Commission. Salary range will be \$21,800 (GS-12) through \$30,750 (GS-14) depending on qualifications. Letters of application with curriculum vitae, bibliography, two recent reprints, and the names and addresses of two references should be mailed no later than April 14, 1978 to: Samuel G. Jones; Person-nel Office, NIEHS; P. O. Box 12233; Research Triangle Park, NC 27709. An Equal Opportunity Employer.

NATIONAL INSTITUTES OF HEALTH

Open to both men and women

Canada Service Forciton publique **RESEARCH SCIENTIST FISHERY – BIOLOGIST**

Initial salary up to \$36,760 (dependent on experience) Ref. No: 77-PSTP-32-126 (S)

Fisheries and Environment Canada Nanaimo, B.C.

Duties

A research scientist is required to conduct research at the Pacific Biological Station on the biology, species interactions and dynamics of groundfish off British Columbia; to plan and conduct research vessel cruises at sea; and to analyse the effects of fishing on marine stocks through the application of population dynamics theory. The research will provide the basis for evaluation of the current status of finfish stocks and testing of alternative management strategies on the potential yield of these resources. The incumbent also provides advice to fisheries managers on appropriate regulatory measures to optomize yields from these resources.

Qualifications

Applicants must possess a Ph.D. degree or a lesser degree with evidence of research experience and productivity equivalent to that of the Ph.D. in fishery-biology. Some previous research experience in the fields of stock assessment, population dynamics and biology of exploited fish stocks is also required. Preference will be given to candidates with experience in applied fisheries research. Knowledge of English is essential.

The qualified applicants not offered this position will. if they wish, be retained in a candidate inventory for consideration for other positions.

How to Apply

Send application form and/or résumé to:

Professional, Scientific and Technical Program **Public Service Commission of Canada** Ottawa, Ontario K1A OM7 Closing Date: March 31, 1978 Please quote the applicable reference number at all times.

POSTDOCTORAL POSITION is available immediately for 3-year period for a Ph.D. in genetics of susceptibility/refractoriness of mosquitoes to human microfilariae. Please send résumé and recommenda-tion to: Dr. M. Trpis, The Johns Hookins University, School of Hygiene and Public Health, Laboratories of Medical Entomology, 615 North Wolfe Street, Balti-more, Md. 21205.

An Equal Opportunity/Affirmative Action Employer

POSTDOCTORAL POSITION—MUSCLE PHYSI-OLOGY: available immediately for a person with a doctoral degree interested in studying the mechani-cal properties of the isolated single cardiac muscle cell. Background in muscle physiology, biophysics, or bioengineering desirable. Send curriculum vitae, including names of three references, to: **Dr. Merrill** Tarr, Department of Physiology, University of Kansas Medical Center, Kansas City, Kansas 66103. An Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL POSITIONS IN ZINC BIO-CHEMISTRY. Research on the regulatory mecha-CHEMISTRY. Research on the regulatory mecha-nisms of mammalian zinc metabolism. Primary cell culture, isolated organ, and intact animal approach-es are taken. Applicants should have a Ph.D. in a biological science and extensive training in biochem-istry, cell biology, or physiology. Salary is commen-surate with experience. Send résumé and names of three references to: Dr. Robert J. Cousins, Depart-ment of Nutrition, Rutgers University, New Bruns-wick, New Jersey 08903. An Equal Opportunity/Af-firmative Action Employer.

POSTDOCTORAL RESEARCH

Applications are invited for a position which will be available on 1 July 1978, in our Electron Micros-copy Laboratory for studies on the cell nucleus and ultrastructural organization of nuclear and nucleolar chromatin. Candidates $s_{\rm f}$ ould have experience in ultrastructural techniques required for the study of nu-clear and/or nucleolar chromatin. Please send cur-riculum vitae to: H. Busch, M.D., Ph.D., Chairman, Department of Pharmacology, Baylor College of Med-icine, 1200 Moursund Avenue, Houston, Texas 77030. An Équal Opportunity/Affirmative Action Employer

UNIVERSITY OF CALIFORNIA, IRVINE

The Program in Social Ecology invites applications for a **POSTDOCTORAL RESEARCH POSITION** which is contingent on the award of a grant. Can-didates must have a Ph.D. in microbiology or in an equivalent field. The research will involve the study equivalent field. The research will involve the study of the relationship between bacterial populations in water distribution systems and inhibition of coliform organisms. Knowledge of physical and chemical components of aquatic systems which affect coli-form bacteria, and the effect of particulates on bac-teria are needed. To ensure consideration, apply be-fore 1 April 1978. The University of California is an Equal Opportunity Employer; minorities and women are encouraged to apply. Send curriculum vitae and three references to: Dr. B. H. Olson, Program in So-ciel Ecology. University of California Irvine Calif. cial Ecology, University of California, Irvine, Calif. 92717.

NIMH POSTDOCTORAL TRAINING POSITION in basic and/or clinical neurobiology is available. The opening can be filled at any time prior to 30 June. Individuals having the M.D. or Ph.D. degree in one of the biological sciences are eligible, providing they of the biological sciences are eligible, providing they are U.S. citizens or persons with permanent resi-dence status. Individuals interested in applying should send curriculum vitae and two letters of rec-ommendation to: Dr. W. J. McBride, Department of Psychiatry, Institute of Psychiatric Research, Indiana University, School of Medicine, Indianapolis, Ind. 46202.

PSYCHOBIOLOGY/NEUROBIOLOGY

The Departments of Psychology and Psychiatry of The Departments of Psychology and Psychiatry of the University of Pittsburgh may have a tenure-stream, joint appointment at the assistant professor level, starting in September 1978. Candidates must have exceptional research potential and teaching ability in an area of specialization within psycho-biology or neurobiology. Preference will be given to individuals with postdoctoral experience. Send cur-riculum with a examples of research and a brief riculum vitae, examples of research, and a brief statement of planned research program to: Dr. An-thony R. Caggiula, Chairperson, Psychology/Psychia-try Search Committee, Department of Psychology, University of Pittsburgh, Pittsburgh, Pa. 15260.

An Equal Opportunity/Affirmative Action Employ-er under the mandates of Title IX.

POSITIONS OPEN

PREDOCTORAL POSITIONS in oncology, im-**REDUCTORAL POSITIONS** in oncology, im-munology, microbiology, virology, and molecular and cellular biology. Available: July to September 1978. Prerequisites: United States citizenship. B-plus average, high GRE scores. Inquiries to: Dr. Sheldon Dray, Head, Department of Microbiology, University of Illinois Medical Center, P.O. Box 6998, Chicago, Illinois 60680.

PRE- AND POSTDOCTORAL POSITIONS in experimental pathology of cardiovascular disease. Em-phasis is on application of cellular and molecular biphasis is on application of cellular and molecular bi-ology. Opportunities available for research in pa-thology and in collaborating departments of medi-cine, pharmacology, and biochemistry. Training support available from National Research Service Awards. Inquiries: Stephen M. Schwartz, Department of Pathology SM-30, University of Washington is an Affirmative Action Encody to Mashington is an Affirmative Action Encody. Affirmative Action/Equal Opportunity Employer.

RESEARCH ASSISTANT PROFESSOR (or **RESEARCH ASSOCIATE PROFESSOR**) of bioengineering in the Center for Bioengineering at the University of Washington, Seattle, Washington. Position is for a highly qualified person with a Ph.D. preferably in chemical engineering, who will initiate and establish high-quality research/clinical programs in two areas: (i) novel biological agent delivery systems and (ii) development and application of bioinstrumentation for hyperbaric systems relevant to human diving and living under the sea. Special expertise is needed in the fields of pharmacokinetics, materials, and instrumentation. The applicant is also expected to participate in some teaching activities. *The University of Washington is an Equal Opportunity/Affirmative Action Employer*. Please send ré-Inte Oniversity of Washington is an Equal Opportu-nity/Affirmative Action Employer. Please send ré-sumé and four references to: Professor Allan S. Hoff-man, Assistant Director of the Center for Bioengi-neering, University of Washington, FL-20, Seattle, Washington 98195.

RESEARCH ASSOCIATE

At least 3 years of experience in cell culture, ultra-centrifugal and electrophoretic techniques, and in measurement of carcinogen-induced DNA adducts. Two-year appointment; \$17,500 per year. Send cur-riculum vitae and two letters of recommendation to: **Dr. Robert B. Painter, Laboratory of Radiobiology**, 104 LR, University of California, San Francisco, Cal-if. 94143. Deadline: 15 March 1978. An Equal Opportunity/Affirmative Action Employer

RESEARCH ASSOCIATE : BIOCHEMISTRY. Position available April 1978 for someone with a back-ground in nucleic acid biochemistry (preferably puriground in nucleic acid biochemistry (preferably puri-fication of DNA/RNA interacting proteins) to join a group commencing research on the organization of chromatin structure. Starting salary: \$13,735 (with annual increment). Send curriculum vitae and names of three references to: Dr. J. Sygusch, Département de Biochimie, Centre Hospitalier Universitaire, Sher-brooke, Quebec, Canada J1H 5N4.

STAFF ASSOCIATE

Seeking postdoctorals for staff positions in laboratory devoted to endocrine control of gene expression in normal development and neoplasia. The research training experience will generally entail a com-mitment of 2 years. *Equal Opportunity Employer*. Salary negotiable and dependent on postdoctorate level. Send résumé to:

Deputy Director for Administration Institute of Cancer Research/ Department of Biochemistry 701 West 168 Street New York, New York 10032

VETERINARY PATHOLOGISTS for teaching, re-VETERINARY PATHOLOGISTS for teaching, re-search, and diagnostic pathology in a progressive in-terdisciplinary department; opportunities for ad-vancement and tenure after appropriate service; two positions. Rank: assistant or associate professor. Salary: competitive and dependent on qualifications. Requirements: D.V.M., Ph.D., with ACVP certifi-cation or intention. Teaching experience and re-search accomplishment helpful. Contact: Robert B. Wilson, Chairman, Department of Veterinary Micro-biology and Pathology, Washington State University, Pullman, Wash. 99164. This University is an Equal Opportunity/Affirmative Action Employer. In order A annual, viasa, 39104. Into University is an Equal Opportunity/Affirmative Action Employer. In order to assist our efforts to meet Affirmative Action goals, minority, women, or handicapped candidates are encouraged to identify themselves as such in their applications.

POSITIONS OPEN

POSTDOCTORAL POSITION available immediate-ly to Ph.D. in biochemistry or molecular biology for research in corneal proteoglycans, glycosaminogly-cans, or collagen. Send curriculum vitae, two refer-ences, and supporting materials to: Dr. G. K. Klintworth, Department of Pathology, Duke Universi-ty Medical Center, Durham, N.C. 27710. An Equal Opportunity/Affirmative Action Employer

SENIOR AEROSOL PHYSICIST

The Environmental Measurements Laboratory, lo-The Environmental Measurements Laboratory, lo-cated in New York City, offers an excellent opportu-nity for a person with a Ph.D. in physics or engineer-ing (chemical, mechanical, or electrical). A mini-mum of 3 years of experience in aerosol research is required. The position involves conducting experi-mental and theoretical studies of the origin, distribu-tion, properties, and behavior of hazardous aerosols in occurational and public environe. Development in occupational and public environs. Development, calibration, and testing of instrumentation is inher-ent in this work. Both laboratory and field studies are involved. This is a career civil service position. Salary is \$30,750. Please submit a résumé to:

Personnel Office U.S. Department of Energy 376 Hudson Street New York, New York 10014 Equal Opportunity Employer

STAFF POSITION AVAILABLE IN PHYSICS—ENVIRONMENTAL SCIENCES AND RESOURCES

We have a vacancy created by the retirement of one of our women staff members. This regular facul-ty position in the Physics Department exists primari-ly to support our Ph.D. program. This program is part of a multidisciplinary program designed to pro-vide an opportunity for students who are interested in an academic graduate physics program to partici-pate in environmental- and resource-related re-search search

We are inviting applications from physicists and from biophysicists who are interested in working in either the applied or fundamental problems of this area and who have strong research records even if not in the environmental sciences and resources

Portland State University is an Equal Opportunity/Affirmative Action Employer. All interested persons are encouraged to apply.

Appointment effective fall 1978. Contact: Mark Gurevitch, Chairman Department of Physics Portland State University P.O. Box 751 Portland, Oregon 97207

VERTEBRATE ZOOLOGIST-TEMPORARY POSITION

Department of Zoology, University of Hawaii, wishes to fill a temporary position for a visiting fac-ulty member to teach vertebrate zoology (anatomy) for 1978–1979 academic year only. Teaching duties include lecture-laboratory course in vertebrate zool-ogy both semesters and an additional course in area of interest. Teaching experience is desirable. Posi-tion may be suitable for person on temporary or sab-batical leave. Appointment for either fall or spring semester only possible. Research facilities can be oaucal leave. Appointment for either fall or spring semester only possible. Research facilities can be made available. Applicants should send curriculum vitae, three names of references, and other pertinent information to: Chairman, Department of Zoology, 2538 The Mall, University of Hawaii, Honolulu, Ha-waii 96822. Closing date for application is 20 March 1978.

An Equal Opportunity/Affirmative Action Employer

WILDLIFE ECOLOGIST Nalco Environmental Sciences is seeking a wildlife ecologist at our Northbrook, Illinois, laboratory. Primary responsibilities of this entry level position include the design, implementation, and reporting of field studies involving wildlife populations and im-pact assessment. Requirements include M.S. in ver-tebrate ecology or related field, knowledge of avian and memolion census techniques. proficiency in and mammalian census techniques, proficiency in avian field identification, and technical writing ability; familiarity with ecosystem impact analysis and broad geographical experience desirable. Firm start-ing date: 1 May 1978. Send letter of application and résumé by 25 March 1978, to: Personnel Depart-ment, Nalco Environmental Sciences, 1500 Frontage Road, Northbrook, Illinois 60062. An Equal Opportu iity Émployer

SCIENCE, VOL. 199

THE INTERNATIONAL CENTRE OF INSECT PHYSIOLOGY AND ECOLOGY Netro de Alenve

Applications are invited from suitably qualified candida-tes for the following vacancies.

RESEACH SCIENTIST

(SORGHUM SHOOTFLY PROGRAMME) **REF. SCI/77/12**

Oualifications

Ph.D. with five or more years' post-doctoral experience in insect physiology, especially in endocrinology and eco-physiology. High quality research for Ph.D. and evidence for excellence since doctorate will be a distinct advantage

Responsibilities

The successful candidate will carry out research in the field of sorghum shootfly and will collaborate with other research scientists in the programme which is mainly concerned with eco-physiological research in aestivationdiapause.

POSTDOCTORAL RESEARCH FELLOW (TERMITE PROGRAMME) REF. SCI/77/13 **Oualifications**

African Scientist, holding Ph.D. or M.Sc. degree in Zoology (Entomology, Physiology) with interest and practical experience in entomology, physiology and ecology, High quality research for Ph.D. or M.Sc. and evidence of creative imagination, careful observation and dedication to scientific work will be a distinct advantage. Responsibilities

The successful candidate will be responsible for planning, conducting and evaluating experiments on behavioural physiology in tropical termites (communication, pheromones, orientation, construction etc) with special refer-ence to the role of pheromones in the regulation of termite behaviour and caste differentiation.

Salary Basic salary according to qualifications and experience but, in any case, will not be less than KShs. 86,400/-per annum for the Research Scientist and 66,000/- p.a. for the Post Doctoral Research Fellow.

Other benefits

These include gratuity, housing allowance, group medical insurance scheme, generous annual leave, travelling fare and transport reimbursement allowance.

Applications, giving detailed information on general education, professional qualifications, experience, marital status, age, present terms of employment (including sa-lary), names and addresses of four referees (including one personal referee), and photostat copies of relevant certificates and diplomas should be addressed to:

The Administrative Manager, I.C.I.P.E., P.O. Box 30772, Nairobi, Kenya

to reach him not later than March 20, 1978.

DIRECTOR REQUIRED FOR WORLD WILDLIFE FUND CONSERVATION PROGRAMME DIVISION

The World Wildlife Fund (WWF) is a leading international foundation for promoting conservation through the raising and granting of funds, and undertaking related functions in the fields of public information and awareness. Its inter-national headquarters in Switzerland comprises three divisions, covering mar-keting (fund raising and public relations), administration and finance, and conservation programme.

The headquarters has a small but highly qualified staff, which coordinates and The neadquarters has a small but highly qualified starr, which coordinates and services 26 national organisations throughout the world (more will be estab-lished) and relies on the expertise of other specialist organizations, particularly the International Union for Conservation of Nature and Natural Resources (IUCN), to establish its conservation programme. This programme forms part of the world conservation strategy being prepared by IUCN with the support of the United Nations Environment Programme (UNEP) and WWF.

Although IUCN prepares and manages WWF's conservation programme, ulti-mate responsibility for its execution rests with the WWF international Board of Trustees, which is advised by a Conservation Programme Committee consisting of some trustees, some representatives of WWF national organizations, some UCN representatives, and other eminer conservationists. A director is being sought for the Conservation Programme Division. The main responsibilities will he:

- 1) To serve as permanent secretary to the Conservation Programme Committee and especially:
 - a) To evaluate and report on implementation of programmes and proj-
 - a) To evaluate and report on implementation of programmes and projects during the previous calendar year,
 b) To gather, assess, and collate proposals and comments from board and staff members, WWF national organizations, and other sources regarding the conservation programme for the following year, and
 c) To summarize policy proposals for the Conservation Programme Committee in order to establish guidelines for IUCN in preparing the long-term conservation programme
- 2) To maintain liaison with WWF national organizations on all matters concerning the Conservation Programme.
- To maintain liaison with IUCN on all conservation matters.
- To coordinate, in close cooperation with IUCN, high-level representations in support of the Conservation Programme, to be made by WWF officers or board members, or by others on behalf of WWF.

Qualifications: the director of the Conservation Programme Division will have had sound administrative experience over many years up to senior executive level in National Park and/or wildlife service, or in a leading conservation organisation, and will have had international experience. The successful candidate will speak and write absolutely fluent English, and will preferably have a good knowledge of French and/or Spanish.

Remuneration: Will be commensurate with experience and qualifications. Applications: applications, in confidence, should reach: The Director General, World Wildlife Fund, 1110 Morges, Switzerland, before the end of March 1978. They should be marked "Confidential—DCP."



VERTEBRATE PHYSIOLOGICAL ECOLOGIST Small Biology Department with a Ph.D. program seeks an assistant professor with a Ph.D. to teach undergraduate histology, embryology, and vertebrate physiology laboratory and to develop graduate courses and research in his area of interest. Position is available fall semester 1978. Send curriculum vitae, transcripts, and two letters of recommendation to: Dr. Ronald Hartman, Chairman, Biology Department, St. Bonaventure University, St. Bonaventure, N.Y. 14778.

FELLOWSHIPS

FELLOWSHIPS. Postdoctoral training program in clinical pharmacology, Michigan State University Medical Center for individuals with an M.D. degree or equivalent who are U.S. citizens or permanent residents. Individuals with a Ph.D. degree in a scientific discipline relevant to clinical pharmacology will also be considered. Send curriculum vitae to: Andrew M. Michelakis, M.D., Ph.D., Director, Clinical Pharmacology Program, Life Sciences Building, Michigan State University Medical Center, East Lansing, Michigan 48824.

A 2-year **POSTDOCTORAL FELLOWSHIP** is available for applicant with training in biochemistry or cellular biology and with experience in electron microscopy preferred, to participate in an interdisciplinary study of cyclic nucleotide metabolism in normal and diseased visual cells of the retina. Fellowship is supported by a grant from the National Retinitis Pigmentosa Foundation to the Jules Stein Eye Institute, University of California, Los Angeles, School of Medicine. Send résumé with three references to: Dr. Richard N. Lolley or Dr. Debora B. Farber, Laboratory of Developmental Neurology, VA Hospital, Sepuiveda, Calif. 91343. An Equal Opportunity/Affirmative Action Employer.

ENDOCRINOLOGY AND METABOLISM RE-SEARCH FELLOWSHIP: 1-year fellowship available immediately or by 1 June 1978; prior research training necessary. Training in basic or clinical research in areas of secretion of pancreatic hormones, diabetes mellitus, hypothalamic-pituitary-gonadal system, adrenalcortex, or renin-angiotensin-aldosterone system; collaboration with Department of Biochemistry available. Applicant should have M.D. or Ph.D. and hold permanent visa if not U.S. citizen. Contact: S. S. Fajans, M.D., Division of Endocrinology and Metabolism, University Hospital, Ann Arbor, Michigan 48109 with curriculum vitae. An Equal Opportunity/Affirmative Action Institution.

POSTDOCTORAL POSITION available 1 July 1978 for 2 years. Ph.D. trained in immunology, cell biology, or parasitology to join ongoing research on mechanism of T cells, antigen recognition by cellular resistance to infection, or acquired immunity to parasitic infestation. Applicants should have a strong background in immunochemistry or immunogenetics. \$12,000 to \$15,000 per annum. Full benefits. Send résumé to: D. McGregor, J. A. Baker Institute, Cornell University, Ithaca, N.Y. 14853.

CLINICAL FELLOWSHIP—DIABETES. One or 2 years, beginning 1 July 1979. City of Hope National Medical Center, Los Angeles. Fully staffed metabolic unit and research facilities. Strong emphasis on patient care in adult and pediatric diabetes, but ample time for clinical research in second year if desired. Must be eligible for California license. Contact: William J. Wishner, M.D., Department of Metabolism and Endocrinology, City of Hope National Medical Center, 1500 East Duarte Road, Duarte, California 91010; telephone: 213-359-8111, ext. 251.

POSTDOCTORAL RESEARCH FELLOWSHIP

A position is available in molecular endocrinology and/or fine structural analysis of ocular tissues. TEM, SEM, and freeze-etch EM facilities are available. Recent Ph.D.'s or M.D.'s who are United States citizens or permanent residents are invited to apply. Initial appointment is for 1 year, renewable for 2 years. Stipends under currently funded National Research Service Awards range from \$10,000 to \$14,000 per year, depending on previous relevant experience. Send curriculum vitae with a statement of research interests, career goals, and names and addresses of two or three references to: Dr. Clifford Harding, Director of Research, Kresge Eye Institute, Wayne State University, School of Medicine, 540 East Canfield, Detroit, Michigan 48201. An Equal Opportunity Employer.

FELLOWSHIPS

POSTDOCTORAL FELLOWSHIPS are available for training in cellular immunology. Send curriculum vitae and names of three references to:

Dr. David Eidinger Head, Department of Microbiology University of Saskatchewan Saskatoon, Saskatchewan, Canada S7N 0W0

TOXICOLOGY TRAINING: PREDOCTORAL AND POSTDOCTORAL FELLOWSHIPS. Applications are invited for fellowships in toxicology. The predoctoral program is expected to take about 4 years for students with a B.S. degree and a good science background. Postdoctoral fellowships are normally for a period of 1 year and include laboratory projects, courses and seminars in toxicology to allow individuals with training in other disciplines to pursue careers in the toxicology of environmental agents.

careers in the toxicology of environmental agents. The Toxicology Training Program is in its 12th year and is staffed by a faculty with research interests in many areas of toxicology including behavioral, biochemical, environmental, developmental, and inhalation. Candidates will be eligible for stipend and tuition support from the National Research Service Award in Environmental Toxicology from the National Institute of Environmental Health Sciences. For more information please contact: Dr. J. Crispin Smith, Director, Toxicology Training Program, P.O. Box Toxicology, UNIVERSITY OF ROCHESTER SCHOOL OF MEDICINE AND DEN-TISTRY, Rochester, New York 14642; telephone: 716-275-4339.

NIH POSTDOCTORAL FELLOWSHIP

IMMUNOLOGY—IMMUNOCHEMISTRY. Research areas including use of synthetic polymers to study genetic control of immune response in mice; isolation, characterization of lymphocyte membranes, T cell receptors, T cell factors, effect or functions of antibodies including physical and immunochemical studies of ligand induced changes in antibody conformation, antibody-Clq interactions and subcomponent interactions of Cl. Apply with curriculum vitae to: Dr. Paul H. Maurer, Department of Biochemistry, Jefferson Medical College, 1020 Locust Street, Philadelphia, Pa. 19107.

PROGRAMS

PREDOCTORAL GRADUATE TRAINEESHIP IN PSYCHOPHARMACOLOGY. An interdepartmental program in psychopharmacology with a neuroscience emphasis is offered at Howard University by the Departments of Psychology and Pharmacology. Information regarding the program and application procedures may be obtained from: S. N. Pradhan, M.D., Ph.D., Department of Pharmacology, College of Medicine, or Leslie H. Hicks, Ph.D., Department of Psychology, Howard University, Washington, D.C. 20059.

AGING: NSF summer research program sponsored by Bucknell University. Program open to undergraduates who are able to demonstrate the ability to carry out independent research within any area of the study of aging, human or nonhuman. Financial support is available in the form of a stipend of \$900 for the 10 weeks. Deadline for applications is 1 April 1978. For information and brochure write to: Department of Psychology, Bucknell University, Lewisburg, Pa. 17837.

GRADUATE TRAINING IN BASIC MEDICAL SCIENCES

The College of Medicine, University of South Alabama, invites applications from qualified individuals interested in pursuing the Ph.D. degree in basic medical science. Applications are now being accepted for June 1978 entrance into the graduate program, leading to the doctorate with specialization in anatomy, biochemistry, microbiology/immunology, pathology, pharmacology, or physiology. This is a unique program designed to accept both qualified nondegree-holding students after only 3 years of appropriate undergraduate study as well as applicants holding degrees. A limited number of fellowships are available which provide both tuition and stipends and graduate tuition scholarships may be available to qualified applicants. For further information write:

For further information write: Director of Graduate Program in Basic Medical Sciences Medical Sciences Building, Room 1005 University of South Alabama Mobile, Alabama 36688

GRADUATE STUDY

GRADUATE STUDY

Graduate programs leading to a Ph.D., M.S., or M.S. Dentistry degree are offered by the Department of Oral Biology, University of Washington, School of Dentistry. Support is available for research training in the biochemistry, cell biology, pharmacology, physiology, and/or pathology of salivary secretion for applicants with M.D., D.D.S., D.V.M., or equivalent degrees. Stipends: \$10,000 to \$14,000.

For details write to: Dr. Patricia J. Keller, Department of Oral Biology, University of Washington, School of Dentistry, Seattle, Wash. 98195.

GRADUATE STUDY IN DEVELOPMENTAL BIOLOGY AND TERATOLOGY UNIVERSITY OF CINCINNATI

Graduate teaching assistantships in developmental biology and National Research Service Award fellowships in teratology are currently available to qualified applicants in an interdisciplinary program leading to a Ph.D. degree. For details write to: Dr. Roger E. Ganschow, Institute for Developmental Research, Children's Hospital Medical Center, Cincinnati, Ohlo 45229.

CALL FOR PAPERS

CALL FOR PAPERS to be presented at and published in the Proceedings of the Second International Conference on Toxic Dinoflagellate Blooms, 31 October to 5 November 1978, Key Biscayne, Florida. Sessions include organisms, environments, toxins, and pharmacology. Data on environments of nontoxic forms will be considered. Abstracts must be received prior to 15 April 1978. Further information and appropriate forms: Carrie Lewis, Bigelow Laboratory, West Boothbay Harbor, Maine 04575.

CALL FOR SAMPLES of motile stages and resting cystic forms of dinoflagellates. Resulting identifications given to those submitting samples and summarized at the Sample Preparation and Identification Workshop at the Second International Conference on Toxic Dinoflagellate Blooms. Collection, preservation, and shipping deadlines/instructions: Carrie Lewis, Bigelow Laboratory, West Boothbay Harbor, Maine 04575.

MARKET PLACE



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Bioassay Systems is offering mouse L929 fibroblast cells infected with either *Mycoplasma hyorhinis* or *Acholeplasma laidlawii*. The cells are on glass coversilps and have been fixed with acetic acid-methanol. They are useful as positive controls for mycoplasma detection procedures which utilize fluorescenses microscopy, including fluorescein-conjugated antibody techniques. Bioassay Systems also has available a mycoplasma detection kit for use in fluorescense microscopy. The kit procedure is based on fluroescent staining of mycoplasma contaminants with the fluorochrome BSC-425. We also offer a rapid and reliable multicomponent mycoplasma detection service for cell culture specimens. For more details write or call BIOASSAY SYSTEMS CORPORATION, 100 Inman Street, Cambridge, MA. 02139 (617) 661-6888.

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