(Continued from page 1202)

of a comprehensive environmental impact statement before any OCS lease sale.

We believe that these additional requirements for serial plans, reports, and interlocking federal and state reviews would result in major delays in bringing OCS oil and gas resources into production—delays that could amount to years.

Significant adverse environmental effects that could result from these delays include (i) degradation of air quality (caused by burning less clean fuels because of delays in obtaining oil and gas from OCS tracts) and (ii) greater potential for oil spills associated with increased tanker activities (resulting from the need to import larger volumes of foreign oil). In view of these and other possible environmental effects, the decision of the Department of the Interior not to prepare an impact statement seems ques-

We urge concerned fellow scientists to write or wire Secretary of the Interior Cecil D. Andrus calling for the preparation of an environmental impact statement on the proposed revisions; copies may be sent to appropriate senators and congressmen.

> DAVID D. SMITH KATHERINE F. GRAHAM

David D. Smith and Associates, Box 1338, La Jolla, California 92038

References

Fed. Regist. 42, 49478 (27 September 1977).
 Code Fed. Reg., Title 30, sect. 250.34 (1975).

Prigogine at the University of Texas

Procaccia and Ross, in their article (Research News, 18 Nov., p. 716) on Ilya Prigogine's work in the field of nonequilibrium thermodynamics that led to his receiving the 1977 Nobel Prize in Chemistry, identify him as a professor of the Free University of Brussels, Belgium. He is also professor of physics and of chemical engineering and director of the Center for Statistical Mechanics and Thermodynamics (which he founded in 1967) at the University of Texas at Austin, and currently divides his time between the two universities.

JON D. SWARTZ

Faculty of Psychology, University of Texas of the Permian Basin, Odessa 79762

Personnel Placement

Personnel advertising is accepted only with the understanding that the advertiser does not discriminate among applicants on the basis of race, sex, religion, age, color, or national origin.

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POSITIONS WANTED

Anatomist (micro and neuro) seeking teaching posiparamedical, or similar institute. Foreign M.D. (Ph.D. equivalent) seeking immigration to United States or Canada. Forward correspondence to Dr. States or Canada. Forward correspondence to E. Zola, Al-Fateh Medical Faculty, Box 903, Trip-X

Animal Science Ph.D. Multidisciplinary expertise in beef management, quantitative genetics, animal nutrition, and land use/environmental resources decision analysis. Background includes Agricultural Experiment Station management. Box 447, SCIENCE.

Biochemist. Ph.D. 1966. Background: biogenic amines/CNS; needs position immediately. Jourdi-kian, 252 Washington Boulevard, Oak Park, Illinois 60302. Home telephone: 312-524-1756. 12/23; 1/6

Neuropharmacologist, M.D., Ph.D. Broad research experience—CNS catecholaminergic mechanisms. Experience in EEG studies, microiontophoresis, self-stimulation, some experience in neurochen istry. Seeks research position. Box 448, SCIENCE

Ophthalmologist, American Board-certified, M.D. Seeks position in biomedical or clinical engineering. Box 449, SCIENCE. X

Ph.D. (1971), extensive experience, lipid, lipoprotein metabolism, renal disease, alcohol, atherosclerosis, clinical, experimental, 28 publications. Seeks stable position, research, teaching. J. B. Somer, 69 Loftus Avenue, Loftus, New South Wales, 2232, Australia.

Toxicologist. Ph.D. 1974. Two years of experience in inhalation toxicology with emphasis on biochemistry. Several publications and research grants. Also experienced in occupational health, contract research, and personnel supervision. Seeks industrial/academic position. Box 450, SCIENCE.

Veterinarian-Biochemist, D.V.M., Ph.D.; ECFVG certificate, Ohio license. Research and teaching experience. Excellent publications. Looking for research, industrial, or teaching position. Contact Dr. P. K. Saini, 518 Coy Drive, Xenia, Ohio 45385.

POSITIONS OPEN

ACADEMIC SURGICAL PATHOLOGIST The University of Chicago, Department of Pathology, is seeking a Board-certified (or eligible) surgical pathologist at a junior level to join an active and progressive laboratory. to join an active and progressive laboratory. The applicant will participate in diagnostic surgical pathology and medical student and resident instruction. Ample time is available for research. Send inquiries and curriculum vitae to: Dr. W. H. Kirsten, Professor and Chairman, Department of Pathology, The University of Chicago, 950 East 59 Street, Chicago, Illinois 60637. The University of Chicago is an Affirmative Action/Equal Opportunity Employer.

ANATOMIST

Gross anatomist, some teaching in embryology, Ph.D. or M.D., instructor or assistant professor. Research area open but special attention given those in developmental biology and genetics. Send curriculum vitae and three letters of recommendation to: Dr. Howard A. Matzke, Professor and Chairman, Department of Anatomy, University of Kansas Medical Center, College of Health Sciences and Hospital, 39th and Rainbow Boulevard, Kansas City, Kansas 66103. An Equal Opportunity/Affirmative Action Employer.

ASSISTANT PROFESSOR—BIOCHEMISTRY. Regular tenure-track position in the Department of Chemistry beginning fall 1978. Well-equipped research laboratory available. Research interest in the structure and chemistry of proteins, glycoproteins, or polysaccharides preferred, but other research areas considered. Postdoctoral experience required. Send curriculum vitae and one letter of reference to: Robley J. Light, Department of Chemistry, Florida State University, Tallahassee, Florida 32306. An Equal Opportunity/Affirmative Action Employer.

ASSISTANT PROFESSOR OF BIOCHEMISTRY AND BIOPHYSICS UNIVERSITY OF PENNSYLVANIA

The Department of Biochemistry and Biophysics invites applications for the position of assistant professor. Applicants should have research interests in biochemistry or biophysics and a commitment to excellence in research and teaching. Please forward curriculum vitae, representative reprints, and a summary statement of background and interests. In addition, please have three translations of professor addition, please have three translations. dition, please have three or more letters of reference sent directly to us. These should include an evaluation of the specific research contributions made by the applicant and her/his capabilities for independent research. Address communications to:

S. W. Englander Assistant Professor Recruitment Committee Biochemistry and Biophysics University of Pennsylvania Philadelphia, Pa. 19104

Equal Opportunity/Affirmative Action Employer

ASSISTANT PROFESSOR OF BIOCHEMISTRY AND MOLECULAR BIOLOGY

Applications are invited for a faculty position in Applications are invited for a faculty position in the Department of Biochemistry and Molecular Biology, Harvard University, which will be available 1 July 1978. Distinction in research and teaching is essential. Send curriculum vitae, three letters of recommendation, and a brief outline of future research plans to: Administrative Assistant, Department of Biochemistry and Molecular Biology, Harvard University, 9 Kirkland Place, Cambridge, Massachusetts 02138.

Harvard University is an Equal Opportunity/Affirmative Action Employer.

LABORATORY DIRECTOR

Applications are invited for the position of building director for a new laboratory under construction for the Department of Biochemistry and Molecular Biology, Harvard University. Position involves par-Biology, Harvard University. Position involves participation in the design and subsequent supervision of administrative and technical services for the department. Requirements are Ph.D. in chemistry or biochemistry, and evidence of administrative ability. Send curriculum vitae and three letters of recommendation to: Administrative Assistant, Department of Biochemistry and Molecular Biology, Harvard University, 9 Kirkland Place, Cambridge, Massachusetts 02138.

Harvard University is an Equal Opportunity/Affirmative Action Employer.

ANATOMISTS

The Department of Anatomy at the University of Arizona is expanding its faculty. Applications are invited for two positions becoming available 1 July 1978. In addition to the Ph.D. in anatomy, or equivalent experience or training, a sincere interest in and lent experience or training, a sincere interest in and commitment to teaching are required. Both appointments would be at the level of assistant professor. The teaching responsibilities for one position includes an assignment in our human gross anatomy course for medical and graduate students. The second position requires primary responsibility for the organization and coordination of a course in anatomy for allied health students. Since the department is committed to the development of strong research programs, demonstrated potential in this area is pre-requisite. An interest in either cancer-related rerequisite. An interest in either cancer-related re-search or neuroendocrinology is favored, but not prerequisite. Qualified applicants should send a cur-riculum vitae, letters of recommendation, and a summary of their past and future research plans to:

Bryant Benson, Ph.D., Professor and Head Department of Anatomy University of Arizona Tucson, Arizona 85724

The University of Arizona is an Equal Opportunity/Affirmative Action/Title IX/Section 504 Employer.

ANATOMIST

The Department of Anatomy, University of Louisville Health Sciences Center, invites applications for an appointment as assistant professor or associate professor effective 1 July 1978. Preference will be given to candidates with teaching interests in neuroanatomy. Research interests are open, but strong indications of promise or achievement, as experience warrants, are desired. Send curriculum vitae and personal statement to: Dr. J. B. Longley, Department of Anatomy, University of Louisville Health Sciences Center, Box 1055, Louisville, Kentucky 40201. An Equal Opportunity/Affirmative Action Employer.

ASSISTANT PROFESSOR, Ph.D. or M.D., at Uni-ASSISTANT PROFESSOR, Ph.D. or M.D., at University of Florida's C. V. Whitney Laboratory for Experimental Marine Biology and Medicine. Candidates will be considered with backgrounds in cell biology, reproductive biology, receptor biology, chemoreception, cell control mechanisms, and related areas of quantitative biology. Candidates must sulfix for a cademic appointment in appropriate university. qualify for academic appointment in appropriate university department, although position is primarily research oriented. Address inquiries to: Richard T. Smith, M.D., Scientific Director, C. V. Whitney Laboratory, Route 1, Box 121, St. Augustine, Florida 32084. The University of Florida is an Equal Opportunity/Affirmative Action Employer tunity/Affirmative Action Employer.

ASSISTANT PROFESSOR-BIOLOGY
Damavand College, Tehran, Iran, needs two persons to teach introductory biology and selected electives in biology, beginning 23 August 1978. Teaching is in English. Candidates with a doctorate and teachis in English. Candidates with a doctorate and teaching experience are preferred. Please send a letter, curriculum vitae, and names of three references to: Dr. John F. Moore, Chairman, Department of Biology, Damavand College, P.O. Box 1326, Tehran, Iran.

ASSISTANT OR ASSOCIATE EXTENSION PROFESSOR, AGRONOMY, University of Idaho. Position located at Twin Falls. Ph.D. or M.S. and experience in agronomy, crop physiology, plant science, or closely related area. Closing date: 15 January 1978.

For information and application forms contact:

Dr. Lucas Calpouzos, Head Department of Plant and Soil Sciences University of Idaho Moscow, Idaho 83843

Equal Opportunity/Affirmative Action Employer

ASSISTANT PROFESSOR IN-RESIDENCE

The University of California, Irvine, Department of Pathology, is recruiting for a faculty position at the assistant professor level. Required: M.D., Board-eligible in clinical pathology. Duties: service and administrative responsibilities in blood banking and cellular immunology, teach medical students and house staff, research. All qualified candidates welcome: minorities and women encouraged to apply. Send curriculum vitae and references to: Dr. Edward R. Arquilla, University of California, Irvine, Department of Pathology, 101 City Drive South, Orange, Calif. 92668 by 31 January 1978. The University of California, Irvine, Department of

POSITIONS OPEN

ASSISTANT PROFESSOR OF BIOLOGY beginning 1 August 1978. Responsibilities include: (i) directing a viable general biology program and be in charge of the laboratory sections, (ii) teaching one general biology lecture section per semester, and (iii) a re-search interest and teach one course per semester in parasitology. Applicants must have a recent Ph.D., demonstrate excellence in teaching, be interested in research, and be capable of directing independent study for departmental majors. Forward letter of application, undergraduate and graduate transcripts, résumé, and three letters of reference before 1 Februard 1981. ruary 1978 to: Dr. W. J. Pitman, Chairman, Department of Biological Sciences, Murray State University, Murray, Kentucky 42071. An Equal Opportunity/Affirmative Action Employer.

ASSISTANT PROFESSORSHIPS—GENERAL BI-OLOGY/MICROBIOLOGY. Ph.D. to teach 3-term sequence of general biology for majors, micro-biology, and occasionally upper division courses and seminars in the area of expertise. Applicant should show interest in creating innovative curricula. This show interest in creating innovative curricula. This is a 9-month continuing appointment. PLANT BIOL-OGY: Ph.D. to teach 3-term sequence of upper division plant biology, a fourth term of plant physiology or plant ecology, and lower division botany modules. Expertise in anatomy and/or physiology is preferred. This is a 9-month fixed-term appointment to fill a sabbatical vacancy. Send résumé, graduate transcripts, three letters of recommendation, and names and phone numbers of two other references to either: General Biology Search Committee or Plant Biology Search Committee, Division of Science and Biology Search Committee, Division of Science and Mathematics, Eastern Oregon State College, La Grande, Oregon 97850.

The Institute of Biological Sciences at Oakland University invites applications for the position of ASSISTANT PROFESSOR to conduct research in OCULAR PHARMACOLOGY. This is a tenure-track research position at an institute which is concerned exclusively with ophthalmic research. Applicants must have a doctoral degree in pharmacology and some research experience. Preference will be given to a candidate having publications in the field. Applicants should submit a complete résumé, including a brief description of their research interest and names of three references, by 1 March 1978 to: Dr. V. Everett Kinsey, Chairman of Search Committee, Institute of Biological Sciences, Oakland University, Rochester, Michigan 48063. An Equal Opportunity Employer. The Institute of Biological Sciences at Oakland Uni-

ASSISTANT PROFESSOR OF PHARMACOLOGY

The Philadelphia College of Pharmacy is expanding its faculty in pharmacology, effective August 1978. The college is seeking a Ph.D. with training in biochemical pharmacology and knowledge of analytical techniques relevant to the study of drug metabolism. Postdoctoral experience is desirable but not essential Participation in undergraduate and graduate. rostudetoria experience is desirate out not essen-tial. Participation in undergraduate and graduate teaching in pharmacology, with major responsibility for instruction in biochemical pharmacology; devel-opment of cooperative and independent research programs.

Send a curriculum vitae, including a statement of re-Send a cultifulin vitae, including a statement of lesearch interests, and three letters of reference to:
Dr. G. Victor Rossi, Director, Department of Biological Sciences, Philadelphia College of Pharmacy and Science, 43rd Street and Kingsessing Mall, Philadelphia, Pennsylvania 19104.

An Equal Opportunity/Affirmative Action Employer. All interested persons are encouraged to apply.

ASSISTANT PROFESSOR OF PHYSIOLOGY

We invite applications from highly qualified individuals with a commitment to research and teaching. We are especially interested in those with a back-We are especially interested in those with a background in renal or respiratory physiology. Teaching responsibilities are for medical students in human medical physiology and graduate students in area of specialty. Applicants must have a Ph.D., 2 years' postdoctoral experience, and potential for carrying out an independent research program. Applications close 31 January 1978. Applicant should send a curriculum vitae and a brief description of anticipated future research directions and request that three letters of recommendation be sent to: Joseph D. Welty, Ph.D., Section on Physiology. Division of Biachemis-Ph.D., Section on Physiology, Division of Biochemistry, Physiology and Pharmacology, The University of South Dakota School of Medicine, Vermillion, S.D.

Equal Education and Employment Opportunity/Affirmative Action Institution

POSITIONS OPEN

Seeking special-funded ASSISTANT PROFESSOR OF MEDICINE for research in the Cardiology Division. Demonstrated productivity in pharmacokinetic research and collaborative activities with a clinical department are essential. Previous academic experience in the application of pharmacokinetic principles and in the direction of a drug assay laboratory are and in the direction of a drug assay laboratory are desirable. Interest in fundamental and clinical pharmacologic research with antiarrhythmic drugs and knowledge of the development of new analytical methodology for drug assay would be appropriate. Stanford University is an Equal Opportunity Employer and welcomes nomination of women and minority group members and applications from them. Apply to: Donald C. Harrison, M.D., Chief, Cardiology Division, Stanford University School of Medicine, Stanford, California 94305.

ASSISTANT OR ASSOCIATE PROFESSOR OF PHYSIOLOGY. The University of Massachusetts Medical School has an immediate opening for an assistant or associate professor of physiology. Applicants must have M.D. or Ph.D. degree and be well versed in mammalian physiology. Applicants with training in biophysics are particularly encouraged. Duties will include responsibility for teaching pulmonary and/or renal physiology to first year medical students and independent investigation in physiology that will complement ongoing research within the department. Please send résumé to: Dr. H. Maurice Goodman. Department of Physiology. University of department. Please send resume to: Dr. H. Maurice Goodman, Department of Physiology, University of Massachusetts Medical School, 55 Lake Avenue North, Worcester, Mass. 01605. The University of Massachusetts Medical School is an Equal Opportunity/Affirmative Action Employer. Applications from women and minorities are especially encouraged.

Applications are invited for the position of ASSISTANT PROFESSOR (RESEARCH) in the International Reference Centre for Avian Haematozoa of the

Department of Biology Memorial University of Newfoundland

Duties to primarily carry out research on the taxonomy, epizootiology, and life history of avian blood parasites and to participate in collaborative studies on avian haematozoa around the world. The Centre has in excess of 50,000 blood films and about 90 percent of the world's literature on the subject

Salary: in the range of assistant professor.

Term of contract: two years (renewable).

Interested applicants should forward their curriculum vitae and names of three referees no later than 31 January 1978 to:

Dr. Gordon F. Bennett, Professor and Head International Reference Centre for Avian Haematozoa Memorial University of Newfoundland St. John's, Newfoundland, Canada A1B 3X9

ASSISTANT PROFESSOR OF WILDLIFE ECOL-OGY. Research; advising; teaching principles of wildlife conservation and wildlife habitat management. Ph.D. in wildlife sciences or related ecological discipline required. Position begins 1 July 1978 or no later than 1 September 1978. Send résumé, transcripts, reprints, three letters of recommendation, and statement of career plans and research interests to: W. L. Franklin, Search Committee Chairperson, Department of Animal Ecology, Iowa State University, Ames, Iowa 50011. Application deadline is 10 Jan-

An Equal Opportunity/Affirmative Action Employer

TMOSPHERIC PHYSICIST POSITION UNIVERSITY OF COLORADO AT BOULDER

Invites applications for a research position in the Invites applications for a research position in the Laboratory for Atmospheric and Space Physics. Responsibilities include providing leadership in a research program in atmospheric physics. The preferred candidate would have experience in the following: (i) the application of infrared spectroscopy to the study of planetary atmospheres, (ii) the use of balloons to measure trace constituents in the earth's atmosphere and (iii) the use of planetary spacecraft balloons to measure trace constituents in the earth s atmosphere, and (iii) the use of planetary spacecraft to study the composition of the atmospheres of other planets of the solar system. Applicants should please send curriculum vitae and a description of research interests to: Professor Charles A. Barth, Laboratory for Atmospheric and Space Physics, University of Col-orado, Boulder, Colorado 80309.

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

ASSISTANT PROFESSOR OF ZOOLOGY. Duties may include teaching undergraduate courses in physiology and/or general biology and a course in area of lology and/or general biology and a course in area of specialization; establish active research program; participate in graduate education. Qualifications: Ph.D. or equivalent; expertise in comparative neurobiology, preferably of marine invertebrates; competency in basic neurophysiology and specialty in one or more of the following: animal behavior, endographory, pharmacology: pastdectoral training. crinology, pharmacology; postdoctoral training desirable. Send curriculum vitae, names of three references, reprints, and statement of research goals by 15 February 1978 to: Chairman, Search Committee, Department of Zoology, University of New Hampshire, Durham, N.H. 03824. The University is an Affirmative Action/Equal Opportunity Employer.

Position offered as ASSISTANT RESEARCH PROFESSOR for experimental work in ophthalmic pathology at the Department of Ophthalmology, Jules Stein Eye Institute, University of California, Los Angeles (UCLA) School of Medicine. Applicant must have completed a fellowship in eye research that has included light and electron microscopy. Send curriculum vitae and letter describing career goals to Dr. Alan L. Shabo, Jules Stein Eye Institute, UCLA School of Medicine, Los Angeles, California 90024. Candidates are encouraged to apply regardless of sex or ethnic origin. UCLA is an Equal Opportunity/Affirmative Action Employer.

ASSOCIATE DEAN FOR ADVANCED EDUCATION AND RESEARCH

The College of Dentistry, University of Illinois at the Medical Center, Chicago, is seeking an associate dean for advanced education and research who will report directly to the dean.

The candidate selected must have the ability to: (i) coordinate the growth and development of a rapidly expanding program in basic and clinical research; and (ii) demonstrate the potential for providing leadership for a broad spectrum of programs in post-doctoral education including specialty training, graduate training, and continued education.

Candidates must possess the D.D.S. or D.M.D. degrees and the Ph.D. degree in one of the life sciences. Salary, starting date, and faculty rank are ne-

Résumés should be submitted to:

Dean Seymour H. Yale College of Dentistry
University of Illinois at the Medical Center
801 South Paulina Street Chicago, Illinois 60612

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

BIOCHEMISTRY FACULTY POSITION

The Department of Biochemistry at the University The Department of Biochemistry at the University of California, Berkeley, invites applications for a faculty appointment. The position is at the assistant professor level; however, candidates at the beginning associate professor level will also be considered. The position is expected to commence in September 1978. The research interests of applicants should complement but not overlap those of the current biochemistry facultic Confidence. rent biochemistry department faculty. Candidates should have demonstrated excellence in research Candidates should have demonstrated excellence in research, and a continuously high level of productivity and originality throughout their careers. In addition, a relevant background in biochemistry and a strong capability for instruction in both formal classroom and informal teaching environments are prerequisite. Applicants should send a curriculum vitae, bibliography, a summary of teaching and research objectives, copies of two representative publications. jectives, copies of two representative publications, and arrange for three reference letters to be sent. All material should be forwarded to: E. E. Penhoet, Chairman of the New Staff Committee, Department of Biochemistry, University of California, Berkeley, California, 94720. Applications should be received prior to 15 February 1978. The University of California is an Equal Opportunity/Affirmative Action Employer. We encourage applications from women and minority candidates.

BIOLOGIST

Ph.D. required, with interests in teaching general biology, genetics, cell physiology, invertebrate courses as needed. Non-tenure track position to begin at assistant professor level, fall 1978. Interviewing at AAAS Annual Meeting. Send résumé and three letters of reference by 1 February to: Dr. Michael Snow, University of Portland, Portland, Oregon 97203. An Equal Opportunity/Affirmative Action Employer.

POSITIONS OPEN

The Bigelow Laboratory for Ocean Sciences invites applications from BIOLOGICAL OCEANOGRAapplications from BIOLOGICAL OCEANOGRA-PHERS interested in researching the effects of pri-mary nutrients on phytoplankton growth and speci-ation. Qualifications include Ph.D. degree, experi-ence with chemostat culture of marine phyto-plankton, modelling of phytoplankton growth and nutrient uptake, and oceanographic cruises. Send résumé, references, and sample publications to: Dr. R. C. Dugdale, Bigelow Laboratory for Ocean Sciences, West Boothbay Harbor, Maine 04575. Eaual Opportunity Employer. Equal Opportunity Employer

BOTANIST/CELL BIOLOGIST. Higher plant cells: teaching and research, undergraduate and graduate. Ph.D. trained in electron microscopy. Starting salary: \$12,835 to \$17,199. Apply by 28 February 1978, to: R. L. Hauke, Department of Botany, University of Rhode Island, Kingston, R.I. 02881. Affirmative Action/Equal Opportunity Employer.

BRYOLOGIST AND INVERTEBRATE ZOOLOGIST OR MYCOLOGIST. Two positions, both require doctoral degree. Bryologist must have 2 years quire doctoral degree. Bryologist must have 2 years of full-time teaching and research experience and be able to teach general biology, general botany, plant morphology, plant systematics, and bryology. Invertebrate zoologist or mycologist required to administer general biology laboratory program, teach general biology laboratory and lecture, other lower division courses, and invertebrate zoology or mycology. Closing date: 3 February 1978. Send inquiries to: Preston Somers, Biology Department, Fort Lewis College, Durango, Colorado 81301.

Equal Opportunity/Affirmative Action Employer

CARDIOLOGIST. The Division of Cardiovascular Disease of the Department of Medicine and the Cardiovascular Research and Training Center at the University of Alabama in Birmingham has available a position at the professor level. This position is open to qualified individuals at a senior level fulfilling three criteria. First, the individual must have experting it the correct production and processors. pertise in the care and management of patients with cardiovascular disease, particularly hypertension. Second, the individual must have a firm commitment to teaching programs oriented to medical students, to teaching programs oriented to medical students, graduate students, house officers, and fellows. Finally, the individual should have a hypertension research background with capabilities for studying control of the peripheral circulation. Apply to: the Division of Cardiovascular Disease, Department of Medicine, University of Alabama Medical Center, Birmingham, Alabama 35294 (Attention: Ms. Norma McSweeney, Administrative Officer); telephone: 205 934-3285. An Equal Opportunity/Affirmative Action Employer. Expiration date for receipt of applications: 31 January 1978.

CARNEGIE-MELLON UNIVERSITY DEPARTMENT OF BIOLOGICAL SCIENCES CHAIRPERSON

Applications are invited for the position of department chairperson. This position involves major responsibilities for the continued growth of departmental research activities, as well as undergraduate and graduate training programs. The department is a newly organized unit of the College of Science (Mellon Institute of Science) and its members are actively engaged in research projects in the areas of biochemistry, biophysics, cell biology, genetics, and molecular biology. Interested candidates should possess a Ph.D. degree and excellent research credentials in related areas. Letters of inquiry and curriculum vitae should be sent to: Professor Robert D. Goldman, Chairman, Search Committee, Department Goldman, Chairman, Search Committee, Department of Biological Sciences, Mellon Institute of Science, Carnegie-Mellon University, 4400 Fifth Avenue, Pittsburgh, Pa. 15213.

CHAIRPERSON DEPARTMENT OF BIOCHEMISTRY

The Albany Medical College of Union University seeks a highly qualified individual for the position of chairperson and professor of biochemistry. Ph.D. and/or M.D. required. A commitment to teaching and a record of accomplishment in research essential.

Applicants should send curriculum vitae, bibliography, and names of three references to:

Dr. Lawrence A. Caliguiri, Chairman Biochemistry Search Committee Albany Medical College of Union University Albany, New York 12208

An Equal Opportunity/Affirmative Action Employer

POSITIONS OPEN

BIOPHYSICIST UNIVERSITY OF MICHIGAN

The Biophysics Research Division and the Division of Biological Sciences of The University of Michigan are continuing their search for a biophysicist to bridge the research interests of these units. cist to bridge the research interests of these units. This is a tenure-track position at the advanced assistant professor level. Candidates must have a strong background in the physical sciences and be able to represent their area of expertise in the teaching program of a modern biology department.

Applications should include curriculum vitae, relevant reprints, a brief of future research plans, and three letters of recommendation. Closing date for applications is 15 March 1978

for applications is 15 March 1978.

The University of Michigan

James A. Fee Chairman, Search Committee Biophysics Research Division Institute of Science and Technology 2200 Bonisteel Boulevard Ann Arbor, Mich. 48109

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The Professional Products Group, Miles Laboratories, Inc. is a leader in the manufacturing of medical/biochemical instruments and is located chemical instruments and is located in Elkhart, Indiana, ninety miles from Chicago, with easy access to lower Michigan. Our close proximity to South Bend metropolitan area prosouth Bend metropolitan area provides many cultural and recreational opportunities. We offer an excellent starting salary plus a superior benefits program. Relocation expenses paid by the company. If interested please send complete resume in confidence to:

Howard G. MacMillan, Jr. Manager, Salaried Placement Dept. 853



MUES MILES LABORATORIES, INC. Elkhart, Indiana 46514

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A joint position as ASSISTANT PROFESSOR in the Department of Economics and the Institute for Environmental Studies beginning September 1978. The person filling this position is expected to engage in scholarly research in economics as related to environmental problems. Teaching responsibilities will involve two courses per year in economics and two in the institute. The former will include upper division and graduate courses in natural resources, the latter will include participation in a lower division course in social sciences and the environment plus an advanced level course in an area of the person's special interest, to be developed in consultation with the director of the institute. Candidate should have thorough training in modern economic theory and must have a Ph.D. by September 1978, for regular 3-year appointment, otherwise 1-year acting. The position is a regular tenure-track position at a competitive salary. Submit curriculum vitae, letters of reference, and appropriate research papers. An Equal Opportunity/Affirmative Action Employer. Contact: Dr. Richard W. Parks, Department of Economics, DK-30, University of Washington, Seattle, Wash. 98195.

CELL BIOLOGIST; INVERTEBRATE ZOOLOGIST

The University of Wisconsin-Milwaukee, Zoology Department anticipates two openings at assistant professor level:

CELL BIOLOGIST. Ph.D. in zoology, biology, or biochemistry with expertise in cell biology, cell physiology, or developmental biology. Teaching responsibilities include participation in both undergraduate and graduate instruction. Postdoctoral experience preferred.

preience preferred.

INVERTEBRATE ZOOLOGIST (AQUATIC). Ph.D. in zoology or physiology with expertise in the physiology of aquatic invertebrates. Participation in the University's Center for Great Lakes Studies desired. Teaching responsibilities include both undergraduate and graduate instruction. Postdoctoral experience preferred.

sired. Teaching responsibilities include both undergraduate and graduate instruction. Postdoctoral experience preferred.

Both positions: deadline for receipt of applications is 1 March 1978, and starting date is 28 August 1978. Send curriculum vitae, statement of research interests, and names of three references to: Dr. Charles M. Weise, Zoology Department, University of Wisconsin-Milwaukee, P.O. Box 413, Milwaukee, Wis. 53201

An Equal Opportunity/Affirmative Action Employer

CHAIRMAN, Department of Medicine, University of Miami, School of Medicine. Appointments include professorship and chairmanship at the University and chief of medicine at the Jackson Memorial Hospital. Candidates should have achieved academic stature and have demonstrated capabilities for leadership, management, and planning. Application or recommendation for the position should be accompanied by a curriculum vitae and sent to: William W. Cleveland, M.D., Chairman, Search Committee for a Chairperson, Department of Medicine, P.O. Box 520875, University of Miami School of Medicine, Miami, Florida 33152.

CHAIRPERSON, PSYCHOLOGY DEPARTMENT

University of Maryland, College Park, invites applications for Psychology Department chairperson, for appointment in fall 1978. The university is located near Washington, D.C. Current departmental faculty of 40 offers instruction in major areas of psychology at both the undergraduate and doctoral levels. Salary open. Affirmative Action/Equal Opporturity Employer. Send curiculum vitae to: Professor William Hodos, Department of Psychology, University of Maryland, College Park, Md. 20742.

CHEMIST. Immediate opening for laboratory coordinator/assistant for Department of Chemistry and Nutrition in organic and biochemistry laboratories. Applicants must have a B.S. in organic or biochemistry and experience in benchwork. Appointee will be responsible for laboratory equipment and instrumentation. Send résumé, transcripts, and three letters of reference to: Dr. Atsushi Fujii, National College of Chiropractic, 200 East Roosevelt Road, Lombard, Ill. 60148.

PHYSIOLOGISTS (two immediately available positions). Renal physiologist, Ph.D. required; teaching experience essential; clinical experience helpful; research encouraged. Laboratory coordinator/assistant: M.S. and teaching experience required. Send résumé, transcripts, and three letters of reference to: Dr. Hun-Lin Lin, National College of Chiropractic, 200 East Roosevelt Road, Lombard, Ill. 60148.

POSITIONS OPEN

CARDIOVASCULAR RESEARCH PROGRAM DIRECTOR. Senior cardiovascular research scientist to direct Cardiovascular Research Program of Oklahoma Medical Research Foundation. Established close working relationships with University of Oklahoma Health Sciences Center and other Oklahoma Health Center institutions. Responsibility for evaluation and development of existing and new clinical and laboratory research components, including small group and larger collaborative programs. Salary negotiable with excellent fringe benefits. Equal Opportunity/Affirmative Action Employer. Send curriculum vitae and letter of interest to: Chairman, Cardiovascular Director Search Committee, Oklahoma Medical Research Foundation, 825 Northeast 13 Street, Oklahoma City, Okla. 73104.

CHAIRMAN, DEPARTMENT OF PHYSIOLOGY AND BIOPHYSICS

The University of Alabama in Birmingham is seeking candidates for this position. The successful candidate should have a terminal degree, a firm commitment to academic excellence, a genuine enthusiasm for teaching and talent in administration. This position provides an opportunity to organize and develop a department which is responsive to the teaching and research needs of medical, dental, and other health professional schools and their students in a growing health sciences center. Any application should be accompanied by a curriculum vitae, including bibliography and any other relevant material, and be submitted to the chairman of the search committee:

Dr. Thomas N. James Department of Medicine University of Alabama Medical Center Birmingham, Alabama 35294

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

DIRECTOR

The position of director of the International Laboratory for Research on Animal Diseases (ILRAD) will become vacant in June 1978. The director is the chief officer of the institution and must have experience and background in disease research and in the administration of a research institution. In addition, the director must be able to relate to a variety of staff and direct the research programmes of the institution as well as the various other functions associated with a research programme involving both basic and disease orientated activities.

ILRAD's mandate is to develop effective control methods for trypanosomiasis and theileriosis, two important animal diseases that constrain livestock production in a number of developing countries. It is one of the International Research Centers supported by the Consultative Group on International Agricultural Research. The staff of ILRAD is recruited internationally and is engaged in multi-disciplinary research activities leading to the development of immunologic or related control procedures. The ILRAD headquarters is in Nairobi, Kenya, and is a modern research complex.

modern research complex.

Qualified candidates are requested to submit current curriculum vitae as well as a synopsis of their research and administrative experiences. Included should be the names and addresses of three referees who can be contacted in support of their candidacy. This information should be submitted to: the Chairman, ILRAD Search Committee, Rockefeller Foundation, 1133 Avenue of the Americas, New York, N.Y. 10036. Further information can be obtained from the same address.

FACULTY OPENING. The Division of Applied Mechanics, Department of Mechanical Engineering, Stanford University, invites applications for a position at the assistant professor (possibly higher) level. Desired are applicants with a high capability for research and graduate level teaching in the area of general continuum mechanics, including viscoelasticity and plasticity, with both theoretical and computational considerations. Ph.D. is required. Send résumé, transcripts, and names of three referees to: Professor C. R. Steele, Division of Applied Mechanics, Stanford University, Stanford, Calif. 94305. Stanford University is an Equal Opportunity/Affirmative Action Employer.

POSITIONS OPEN

DEAN-SCHOOL OF MEDICINE

The Louisiana State University Medical Center is seeking applicants or nomination of candidates for the position of dean of the School of Medicine in New Orleans. The medical school is part of one of the largest medical complexes in the country and currently enrolls almost 700 students.

Applicants must have an M.D. degree, experience in medical education and clinical medicine, and demonstrated administrative abilities.

Letters of application or nomination should be sent to: Dr. Joseph J. Biundo, Jr., Chief of Section of Rheumatology and Rehabilitation, Louisiana State University Medical Center, 1542 Tulane Avenue, New Orleans, Louisiana 70112.

Equal Opportunity/Affirmative Action Employer

Applications are invited for these positions: DEVEL-OPMENTAL BIOLOGIST—area of specialization open, a strong background in biochemistry and genetics is desirable; duties include undergraduate and graduate teaching and research; PHYSIOLOGIST—areas of specialization open; duties include undergraduate and graduate teaching, including allied health science students, and research. Postdoctoral experience preferred. Curriculum vitae, reprints, and a concise statement of research interests should be sent to: Executive Committee, Department of Biology, Georgia State University, University Plaza, Atlanta, Georgia 30303. Georgia State University is an Equal Educational Opportunity Institution and is an Equal Opportunity/Affirmative Action Employer in compliance with Title IX and other Civil Rights laws.

DEVELOPMENTAL BIOLOGIST

A modern, well-equipped department seeks a Ph.D. with postdoctoral research experience. The appointment will be at the assistant professor level effective fall 1978. Applicants should have a strong background in genetics and will be expected to offer courses in embryology and genetics and participate in the master's program. Candidates must exhibit a stong interest in maintaining a vigorous research program. Send a curriculum vitae, reprints, statement of research and teaching interests, and names of three references by 15 January 1978 to: Dr. F. M. Butterworth, Department of Biological Sciences, Oakland University, Rochester, Mich. 48063. An Equal Opportunity/Affirmative Action Employer.

FACULTY POSITIONS. The Department of Biology, George Mason University, the State University of Northern Virginia, announces three tenured-track appointments at the assistant professor level for the fall semester of 1978. (i) ETHOLOGIST to teach junior-senior level introductory and graduate animal behavior courses, and introductory biology. (ii) MICROBIOLOGIST-VIROLOGIST to teach microbiology for nurses and undergraduate virology, and introductory biology. (iii) DEVELOPMENTAL BIOLOGIST-IMMUNOLOGIST to teach junior-senior level developmental biology and immunology and inroductory biology. The development of other graduate courses is possible in all three positions. The applicant must have the Ph.D. degree by 1 September 1978, a commitment to teaching, and will be expected to establish an active research program. Send curriculum vitae, transcripts, and three letters of reference by 20 January 1978, to: Search Committee (state position applied for), Biology Department, George Mason University, Fairfax, Virginia 22030. George Mason is an Affirmative Action/Equal Opportunity Employer.

SIMON FRASER UNIVERSITY FACULTY POSITION IN CHEMISTRY

Subject to budgetary constraints, a tenure-track junior faculty position will be available in the Simon Fraser University, Department of Chemistry, effective 1 September 1978. The successful candidate will be expected to establish a research program, actively utilizing the TRIUMF proton, meson, or neutron facility. Preference will be given to Canadian citizens or individuals with academic experience in Canada.

Applications, including curriculum vitae, brief research proposals, and names and addresses of at least three scientists from whom assessments may be obtained, should be forwarded by 31 March 1978 to:

Dr. E. J. Wells, Chairman Chemistry Department Simon Fraser University Burnaby, B.C., Canada V5A 186

FACULTY POSITION in environmental engineering. The Department of Environmental Sciences and Engineering of the University of North Carolina at Chapel Hill has an opening in water resources engineering at the assistant professor level. Applicants should have a Ph.D. in applied fluid mechanics and be interested in research and graduate teaching in flow phenomena pertinent to water supply, water and wastewater treatment, wastewater discharge, or natural aquatic systems. Send curriculum vitae, reference, and pertinent publications to: Dr. Philip C. Singer, Department of Environmental Sciences and Engineering, School of Public Health, University of North Carolina, Chapel Hill, N.C. 27514. The University of North Carolina is an Equal Opportunity/ Affirmative Action Employer.

FACULTY POSITION: PLANT PHYSIOLOGY

Applications are invited for this position at the rank of assistant professor starting summer or fall 1978. Closing date for applications is 15 February 1978. Preference will be given to candidates who have had some teaching experience, postdoctoral training, and research accomplishments. Teaching responsibilities include participation in general biology, general botany, plant physiology, and an advanced course in area of specialty. The applicant will be expected to develop an active research program and to direct graduate students. Please send a curriculum vitae which includes a list of courses taken in biological sciences and the names of three references to: Dr. Clelmer K. Bartell, Chairman, Faculty Screening Committee, Department of Biological Sciences, University of New Orleans, New Orleans, Louisiana 70122. (A member of the Louisiana State University System.) Equal Opportunity/Affirmative Action Employer.

FACULTY POSITION IN FOREST GENETICS available 1 July 1978. Research on genetics of Pacific Northwest tree species, with emphasis on genotype x environment interactions and early selection. Leadership ability extremely important. Assistant professor, 12-month basis. Ph.D. (completed or near completion) required, \$17,000 to \$21,000 salary, dependent upon qualifications. Send letter of application, curriculum vitae, transcripts, and three letters of reference by 1 March 1978 to:

John Gordon, Head Department of Forest Science School of Forestry Oregon State University Corvallis, Oregon 97331

Oregon State University is an Affirmative Action/ Equal Opportunity Employer and complies with Section 504 of the Rehabilitation Act of 1973.

NATURAL PRODUCTS CHEMIST

Research scientist position available 1 January 1978 for an organic biochemist to conduct full-time research on the isolation, identification, and synthesis of behavioral chemicals of insects, including sex attractants, trail-marking substances, and broodtending pheromones of ants. Person will work as a member of an established research team. Initial appointment will be on grant funds which end 31 August 1979 with an option for renewal based on availability of funds. Outstanding person could develop position into a permanent professional slot. Ph.D. required with preference for postdoctoral training. Send curriculum vitae, transcripts, reprints, and names of five references to: Dr. P. L. Adkisson, Head, Department of Entomology, Texas A&M University, College Station, Texas, 77843.

Closing date is 31 December 1977.

An Equal Opportunity/Affirmative Action Employer

URBAN ENTOMOLOGIST

Assistant professorship open effective 15 January 1978 for full-time research in urban entomology at the Texas A&M University Center at Dallas. Persons selected will serve as project leader for research oriented towards finding improved methods for controlling arthropod pests on ornamental plants and lawn grasses. Some aspects of the research to be coordinated with plant pathology and floriculture. Person selected must have Ph.D. in entomology with strong training in general entomology, ecology, and integrated pest management. Postdoctoral experience preferred. Closing date: 31 December, or until suitable candidate is found. Send résumé, transcripts, reprints, and names of five references to: Dr. P. L. Adkisson, Head, Department of Entomology, Texas A&M University, College Station, Texas 77843. An Equal Opportunity/Affirmative Action Employer

POSITIONS OPEN

UNIVERSITY OF WISCONSIN-PARKSIDE

INDUSTRIAL HYGIENIST. Tenure-track faculty position, September 1978. New baccalaureate program in industrial and environmental hygiene. Rank and salary open and commensurate with experience and qualifications. Candidates must have training and professional experience in industrial health and be eligible for Board-certification. Board-certification in industrial hygiene is desirable. Appropriate doctoral degree preferred. Well-qualified persons with a masters degree may also be considered. Appointee will teach undergraduate courses in industrial hygiene, including externships, advise students and participate in university, community, and professional activities. We seek candidates who can provide leadership, have strong commitment to teaching, and are involved in research. All replies confidential. Inquiries and applications with three letters of reference to: Dr. Surinder P. Datta, IEHA Committee, University of Wisconsin-Parkside, Kenosha, Wis. 53141; telephone: 414-553-2469, by 20 February 1978. An Affirmative Action/Equal Opportunity Employer.

MAMMALOGIST

Applications are invited for an appointment as an assistant professor with experience beginning fall term 1978. The position is jointly administered by the Museum and the Department of Zoology. Duties involve teaching, research, and curating of mammals. Research area open; field-orientation preferred. Submit curriculum vitae, three letters of recommendation, and statement of academic and research interests including evidence of curatorial ability to: Dr. William E. Cooper, Department of Zoology, Michigan State University, East Lansing, Mich. 48824. Deadline for receipt of applications is 15 January 1978. An Equal Opportunity/Affirmative Action Employer.

MARINE BIOLOGIST: Ph.D., preferably with post-doctoral experience; salary and rank negotiable. Expected to teach at undergraduate and graduate level, direct graduate students, initiate nationally competitive research program. Research facilities located at the Galveston Laboratory of the National Marine Fisheries Service. Send curriculum vitae and three references to: Marine Biology Search Committee, Department of Biology, University of Houston, Houston, Texas 77004. An Equal Opportunity Employer.

MEDICAL MICROBIOLOGY/IMMUNOLOGY POSITION

Opening at the rank of assistant professor beginning fall 1978 in the Department of Biological Sciences at Oakland University. The Department of Biological Sciences consists of 20 full-time faculty, most of whom are actively involved in biomedical research. The department presently offers bachelor's and master's degrees and participates in the teaching of Health Sciences Programs. The candidate should have a Ph.D. degree, about 2 years of postdoctoral experience, and a strong commitment to research. Duties include teaching for two semesters (8 months) with a large undergraduate medical microbiology and a small upper-level immunology course. The successful candidate is also expected to participate in the graduate program and develop an active research program in his/her chosen area. Apply with curriculum vitae, short description of future research goals, and names of three referees to: Dr. Arun K. Roy, Department of Biological Sciences, Oakland University is an Affirmative Action Employer and applications from members of minority groups are encouraged.

MICROBIOLOGIST

We are a large medical center seeking a microbiologist (Ph.D. or M.D.) to reorganize and supervise our clinical laboratory. Must be able to obtain own research support from outside sources. Salary depending upon background and experience. We offer a competitive salary and benefits package. Submit curriculum vitae to:

Janis V. Klavins, M.D., Ph.D. Chairman of Pathology

ST. MARY'S HOSPITAL OF BROOKLYN

1298 Saint Marks Avenue Brooklyn, N.Y. 11213 Equal Opportunity Employer, M/F/H

ASSISTANT PROFESSOR

At growing, well-equipped college campus, 30 miles from New York City. The successful candidate should have postdoctoral experience in teaching or research, will be committed to excellence in undergraduate teaching, and will be expected to establish a productive research program in which advanced students can participate. Preference will be given to applicants specializing in microbial or eukaryotic cell functions and macromolecular systems. Familiarity with a spectrum of research methods and techniques is essential. Liberal fringe benefits, including TIAA/CREF. Send curriculum vitae, bibliography, and names of references. Application letter should include future research plans, avocational or interdisciplinary interests, and other particulars which might assist the search committee. The College at Purchase especially invites applications from minority candidates.

COGNITIVE EXPERIMENTAL PSYCHOLOGIST

Wanted for a 1-year appointment at the assistant professor level, to replace faculty on leave (with possible renewal in a tenure-bearing line). Candidates should have broad interests in traditional topic areas in cognition with an interface in clinical, social, or developmental psychology. The successful applicant should have strong research competence, be able to supervise senior theses, and be dedicated to teaching both introductory level and specialized courses. Purchase is a growing undergraduate college of the State system. Liberal fringe benefits, including TIAA/ CREF.

Send detailed letter describing interests and qualifications, as well as curriculum vitae and list of three references to: Dr. Richard Davidson, Division of Natural Science,

State University of New York College at Purchase Purchase, N.Y. 10577

An Equal Opportunity/ Affirmative Action Employer

IAN MACGREGOR PRESIDENTIAL PROFESSORSHIP COLORADO SCHOOL OF MINES

The Colorado School of Mines, a world leader in teaching, research, and service in the fields of energy and minerals, desires to appoint an outstanding interdisciplinary scholar to be the Ian MacGregor Presidential Professor. The school invites applications and nominations for this distinguished, limited-term position. The objectives of the presidential professorship are to stimulate scholarship, intellectual excitement, and widespread interest in intercultural areas linked to but not in the technical mainstream of earth science and engineering. Personal precept and example and participation in a full program of guest lectureships, fellowships, assistantships are all required. The activities of the professorship will contribute to the intellectual life of the Denver metropolitan area, one of the major energy materials and minerals centers of the nation.

The person appointed must exhibit at a minimum all of the following qualifications: (i) a solid record of achievement in a recognized academic discipline: history, philosophy, literature, art, economics, political science, and so forth, (ii) evidence of growth into and significant achievement in one or more disciplines outside the base discipline but linked to it in a scholarly and professional way, (iii) demonstrated ability and continuing desire to lead and inspire undergraduate and graduate students in the full range of interactive situations from the lecture hall to individual discussion, and (iv) demonstrated ability and intent to participate vigorously in a full program of intellectual activity involving guest lecturers, seminars, visiting fellows, and so forth.

The MacGregor Presidential Professorship is fully funded from nonpublic sources. Generous salary and funds for adequate secretarial and technical support will be provided. The term of appointment is subject to mutual agreement with one academic year minimum. The initial date of appointment is at the reasonable convenience of the appointee but not later than September 1978. Closing date for nominations and applications in detail to be received at the following address is 16 January 1978: MacGregor Professorship Committee, President's Office, Colorado School of Mines, Golden, Colorado 80401. The Colorado School of Mines complies with all the applicable nondiscrimination statutes and regulations.

FORENSIC PATHOLOGIST. The University of Massachusetts Medical School is seeking an experi-Massachusetts Medical School is seeking an experienced forensic pathologist interested in service as well as teaching and research. Write to: Dr. Guido Majno, Department of Pathology, University of Massachusetts Medical School, 55 Lake Avenue North, Worcester, Mass. 01605. The University of Massachusetts Medical School is an Equal Opportunity/ Affirmative Action Employer. Applications from women and minorities are especially encouraged.

INHALATION TOXICOLOGIST

International Research and Development Corporatiton (IRDC) is a rapidly expanding contract research laboratory located near Kalamazoo, Michigan. We have a position available as assistant director in inalation toxicology. You will assist in teaching and supervising laboratory technicians in conducting supervising aboratory technicians in conducting toxicological experiments. Prefer a Ph.D. with inhalation toxicology experience and report writing ability. Must have experience in using analytical instruments and operating exposure equipment. Starting salary commensurate with qualifications. Send résumé to:

J. M. Ragen, Director, Personnel International Research and Development Corporation Mattawan, Michigan 49071

Equal Opportunity Employer

JUNIOR FACULTY or POSTDOCTORAL POSI-TION available 1 January 1978 at the University of Michigan, with collaborative research in Ann Arbor and with Dr. K. Yasunobu at the University of Haand with Dr. K. Yasunobu at the University of Hawaii, Honolulu, on sequencing cytochrome P-450. Previous experience in protein sequencing essential. Rank and salary dependent upon experience. Send credentials to: Dr. M. J. Coon, Professor and Chairman, the University of Michigan, Department of Biological Chemistry, Ann Arbor, Mich. 48109. An Equal Opportunity/Affirmative Action Employer.

NEPHROPATHOLOGIST. A position (level negotiable) is available at the University of Massachusetts Medical School, preferably for an assistant prosetts Medical School, preferably for an assistant pro-fessor with primary commitment to hospital service but strong interest in teaching and research. Write to: Dr. Guido Majno, Department of Pathology, Uni-versity of Massachusetts Medical School, 55 Lake Av-enue North, Worcester, Mass. 01605. The University of Massachusetts Medical School is an Equal Op-portunity/Affirmative Action Employer. Applications from women and minorities are especially encour-aged.

PHYSICAL OCEANOGRAPHER

The Chesapeake Bay Institute of The Johns Hop-The Chesapeake Bay Institute of the Johns Hop-kins University has a position available for a phys-ical oceanographer with interests in coastal and es-tuarine problems. Applicants should have a Ph.D. or equivalent. Rank and salary are negotiable, depending upon experience. Applicants should submit a resume and names of three references to: Chairman, Search Committee, Chesapeake Bay Institute, The Johns Hopkins University, Baltimore, Maryland 21218. The Johns Hopkins University is an Equal Opportunity/Affirmative Action Employer.

The Department of Biology, University of North Carolina at Greensboro, is searching for two persons for appointment at the assistant professor level: (i) PLANT ECOLOGIST, with emphasis on vascular plants and community ecology; and (ii) PHYSIOLOGIST, qualified to teach an introductory course in vertebrate physiology. Both persons must be committed to high standards of teaching at the undergraduate level and to the establishment of independent research programs. Applicants should submit credentials and references by 15 February 1978, to: Dr. Bruce Eberhart, Head of Biology, University of North Carolina, Greensboro, Greensboro, N.C. 27412.

POSTDOCTORATE POSITION

Gas-liquid microcalorimetric studies of ther-Gas-liquid microcalorimetric studies of thermodynamics of gas and organic phosphate interactions with abnormal hemoglobins. Applicants with experience in calorimetry or in biophysical studies of hemeproteins preferred. Send résumé, bibliography, and three letters of reference to: Dr. B. George Barisas, Department of Biochemistry, c/o Personnel Services, St. Louis University Medical Center, 3556 Caroline Street, St. Louis, Missouri 63104.

An Equal Opportunity Employer, M/F/

An Equal Opportunity Employer, M/F/ Handicapped

POSITIONS OPEN

PHYSIOLOGIST

DEPARTMENT OF BIOLOGY, UNIVERSITY OF CALIFORNIA, LOS ANGELES, wishes to fill a OF CALIFORNIA, LOS ANGELES, wishes to fill a position in physiology at the assistant professor level beginning 1 July 1978. Applicants should be committed to excellence in undergraduate and graduate teaching and have a record of independent research performance. Postdoctoral experience is desirable. Research and teaching interests should be in the area of cell-cell interactions or organismic physiology. Qualified applicants should send curriculum vitae, names of references, a statement of present and past research activities, and other pertinent information to: Chairman, Search Committee, Department of Biology, University of California, Los Angeles, California 90024. Closing date for application is 31 January 1978.

An Equal Opportunity/Affirmative Action Employer

PLANT BIOLOGIST—OAKLAND UNIVERSITY

The Department of Biological Sciences, Oakland University, invites applications for a faculty position at the rank of assistant professor. The department offers B.A., B.S., and M.S. degrees and participates offers B.A., B.S., and M.S. degrees and participates in health science programs. Applicants should be qualified to teach a large class in general biology emphasizing cell structure, metabolism, and genetics and an upper-level course in evolution and contribute to the team coordination of introductory biology laboratory. Applicants must exhibit a strong interest in maintaining a research program in mycology, plant evolution, or plant ecology. Preference will be given to candidates with teaching experience, records of research accomplishment, and postdoctoral training. The appointment would become effective in the fall 1978. Send curriculum vitae, statement of research and teaching interests, and names of three search and teaching interests, and names of three references by 15 January 1978 to: Dr. Egbert W. Henry, Chairman, Search Committee, Department of Biological Sciences, Oakland University, Rochester, Mich. 48063. An Equal Opportunity/Affirmative Action Employer.

PLANT ECOLOGIST AND PLANT MORPHOLOGIST

Department of Plant Sciences, University of Cali-Department of Plant Sciences, University of California, Riverside, announces two positions at assistant professor level, available 1 July 1978. Elevenmonth appointments in the Agricultural Experiment Station and the College of Natural and Agricultural Sciences. Ph.D. required; postdoctoral experience preferred, but all qualified candidates will be considered. Send curriculum vitae and official transcripts and arrange to have at least three letters of recommendation sent to the indicated search committee chairman, Department of Plant Sciences, University of California, Riverside, Calif. 92521. Application deadline: 15 February 1978. An Affirmative Action/Equal Opportunity Employer. Equal Opportunity Employer.

- 1) PLANT ECOLOGIST. Expected to contribute to the undergraduate teaching program and to develop an upper division/graduate course in plant ecology. Plant ecology. Plant ecologist or crop ecologist with a research commitment to the application of basic research to solving agricultural problems. Send application to: **Dr. R. T. Leonard.**
- 2) PLANT MORPHOLOGIST. Expected to contribute to the undergraduate teaching program and to develop an upper division/graduate course in vascular plant morphology. Research in basic develop-mental plant morphology and its application to solving agricultural problems. Send application to: Dr.

SIMON FRASER UNIVERSITY BRITISH COLUMBIA, CANADA DEPARTMENT OF BIOLOGICAL SCIENCES POPULATION GENETICIST

Applications are invited from suitably qualified persons for a tenure-track position in population genetics. The successful candidate will have a Ph.D. in population genetics, preferably with postdoctoral re-search experience. Duties include the teaching of insearch experience. Duties include the teaching of introductory genetics and upper level course(s) in population genetics and biometry, as well as graduate student teaching and supervision. The appointment will be made at the assistant professor rank with salary commensurate with experience and duties. The position will be available from 1 September 1978, subject to budgetary approval. Letters of application, including curriculum vitae, and the names and addresses of three referees, should be sent to: Dr. M. Mackauer, Chairman, Department of Biological Sciences, Simon Fraser University, Burnaby, B.C., Canada V5A 186. Closing date for applications will be when the position is filled.

POSITIONS OPEN

The Department of Pathology at the Harvard Medi-The Department of Pathology at the Harvard Medical School invites applications from qualified candidates holding M.D. or Ph.D. degrees for positions as POSTDOCTORAL FELLOWS, RESEARCH ASSOCIATES and INSTRUCTORS in the following fields: cell biology and experimental pathology with Dr. M. J. Karnovsky; viral oncology with Dr. T. L. Benjamin and Dr. G. Th. Diamandopoulos; and immunobiology and immunopathology with Drs. B. Benacerraf, A. H. Coons, M. E. Dorf, E. Martz, and E. R. Unanue. Applicants to Dr. Benjamin's program should have backgrounds in protein or nucleic acid biochemistry and molecular or cell biology and be interested in problems relating to the mechanism acid biochemistry and molecular or cell biology and be interested in problems relating to the mechanism of cell transformation by polyoma virus. Applications should be made to: the above-mentioned members of The Department of Pathology, Harvard Medical School, 25 Shattuck Street, Boston, Massachusetts 02115. Qualified women and minority group candidates are urged to apply. We are an Affirmative Action/Equal Opporturity Employer. ative Action/Equal Opportunity Employer.

POSTDOCTORAL ASSOCIATE. Available immediately to study the organization of DNA in chromosomes and the structure of the ribosomal genes in Drosophila. Broad background in cell biology and molecular genetics desirable. Salary \$13,000 to \$15,000. Send curriculum vitae and three letters of recommendation to: Dr. A. Gayler Harford, Division of Cell and Molecular Biology, Hochstetter Hall, State University of New York at Buffalo, Amherst, N.Y.

POSTDOCTORAL POSITION available for research in enzyme control mechanisms. Experience in enzymology and membranes preferred. See Chen and Canellakis, *Proc. Natl. Acad. Sci. U.S.A.* 74, 3791 (1977), and related references. Please send curriculum vitae and references to: Dr. E. S. Canellakis, Department of Pharmacology, Yale University School of Medicine, New Haven, Conn. 06511.

POSTDOCTORAL POSITIONS (two) for new or recent Ph.D. or M.D. Biochemists interested in research experience with plasma membrane hormone receptor systems in animal and human cells. Tissue culture and cAMP experience helpful. Available spring and fall 1978. Stipend \$10,000 to \$12,000, plus fringe benefits. Send curriculum vitae, references and so forth to: Dr. Melvin Blecher, Department of Biochemistry, Georgetown University Medical Center, Washington, D.C. 20007.

POSTDOCTORAL POSITION IN PHYSICAL OCEANOGRAPHY/LIMNOLOGY. The Radiological and Environmental Research Division of Argonne National Laboratory seeks a qualified individual with a Ph.D. or equivalent in physical oceanography/limnology to pursue research in a challenging, interdisciplinary program of communications. phy/limnology to pursue research in a challenging, interdisciplinary program concerning physical transport processes in the Great Lakes. The applicant should have field experience with standard oceanographic equipment, working knowledge of electronics including instrument design capability, and some numerical modeling knowledge. Responsibilities will consist of cooperative field program development and execution, with subsequent data analysis to study pollutant transport processes, including atmospheric input, sediment resuspension, and upwelling study pointiant transport processes, including almospheric input, sediment resuspension, and upwelling effects. If interested, submit résumé to: Walter D. McFall, Argonne National Laboratory, 9700 South Cass Avenue, Argonne, Ill. 60439. An Equal Opportunity Employer, M/F/Handicapped.

POSTDOCTORAL POSITIONS (eight), Center for POSTDOCTORAL POSITIONS (eight), Center for the Study of Aging and Human Development at Duke University announces openings in Research Training Programs in the study of adult development and the study of aging. Opportunities for research training in most biomedical, behavioral, and social science fields. Salary \$10,000 to \$13,200 and research budget. Reply, with curriculum vitae to: Dr. I. C. Siegler, Box 3003, Duke University Medical Center, Durham, North Carolina 27710. An Equal Opportunity Employer. Applications due 1 March 1978.

The University of Dayton seeks a recent Ph.D. in BIOCHEMISTRY for a POSTDOCTORAL RESEARCH APPOINTMENT. Should have experience in enzyme purification and characterization. Will work with highly purified glucocorticoid sulfotransferase. Starting salary from \$9400 per year, depending on experience. Starting date: 8 May 1978, renewable for up to 2½ years. Send curriculum vitae and three letters of reference to: Dr. S. S. Singer, Chemistry Department, University of Dayton, Dayton, Ohio 45469. An Affirmative Action/Equal Opportunity Employer. Employer.

THE UNIVERSITY OF WESTERN ONTARIO LONDON CANADA

FACULTY OF SCIENCE, GENETICS PROGRAM

Assistant Professor. Applications are invited for a faculty position commencing September, 1978, in the Department of Zoology, The University of Western Ontario, at the rank of Assistant Professor. Starting salary is \$17,000 per annum, subject to the availability of funds. The candidate will be responsible for teaching a course in Human Genetics and will participate in other Honors courses in the Genetics Program. Special attention will be given to applicants with expertise in at least one of the following areas: population genetics, mutagenesis, cytogenetics and inherited metabolic defects. The successful candidate will be expected to develop an active research program. Deadline for receiving applications is December 31, 1977. Applicants should mail curriculum vitae and names of three persons as references to:



Dr. Burr G. Atkinson Chairman of Genetics Program Department of Zoology The University of Western Ontario LONDON, Ontario Canada N6A 5B7 Applications and nominations are invited for the

VICE PRESIDENT FOR RESEARCH AT MONTANA STATE UNIVERSITY

RESPONSIBILITY: reporting directly to the President, this administrator is charged with developing, coordinating, and supervising the university's research and creative activity programs in conjunction with private, state, federal, and international funding organizations. This includes the supervision of the operations of the University's Grants and Contracts Administration Office (annual volume of \$8.5 million) as well as assistance to faculty in developing proposals for grant and contract procurement.

QUALIFICATIONS: terminal degree in a professional discipline; established reputation for creativity in that field; knowledge of broad research trends and current developments; experience in applying for, securing, and utilizing grants in the sciences or humanities; and demonstrable leadership and administrative capabilities.

MONTANA STATE UNIVERSITY, located on a 1170-acre campus in Bozeman, is the state's land-grant institution and has an enrollment of 9800 students. It is a multi-faceted university, conferring doctoral degrees in 19 fields and master's degrees in 34 fields of the arts, humanities, and sciences, in addition to functioning as the agricultural, scientific, and technological center of a six-unit state university system.

APPOINTMENT: fiscal year.

SALARY: negotiable.

APPLICATION: submit letter of interest, résumé, and names and addresses of three references to:

Professor James McMillan, Chairman Vice President for Research Search Committee 310 Lewis Hall Montana State University Bozeman, Montana 59717

DEADLINE: 1 February 1978.

Montana State University is an Equal Opportunity/ Affirmative Action Employer.

SENIOR VISITING

FELLOWSHIP PROGRAM

Centre for Interdisciplinary Studies in Chemical Physics
The University of Western Ontario London, Ontario, Canada.

The Centre for Chemical Physics at The University of Western Ontario was formed in 1973 to encourage research in those areas of science which overlap more than one of the traditional disciplines. Centre membership includes faculty members who are active in research in applied mathematics, physics, chemistry, engineering, botany, biophysics, nuclear medicine and radiation oncology, together with students and post doctoral fellows.

The Centre invites applications for its Senior Visiting Fellowship Program from the ranks of established scientists working in areas that bridge two or more of the above disciplines. The Fellowships are tenable for a period of up to 12 months, and provide funds for travel, partial or complete living support at U.W.O., and some research support. During the tenure of their Fellowships, visitors will be expected to work in conjunction with Centre members.

Since the Centre's formation, Visiting Fellowships have been awarded to scientists from 13 countries. Interested persons are asked to write to:-



Dr. J.C.F. MacDonald, Chairman, Visiting Fellows Committee, Centre for Interdisciplinary Studies in Chemical Physics.

ics,
The University of
Western Ontario,
LONDON, Ontario,
Canada N6A 3K7

for application forms and additional information.

DIRECTOR, DIVISION OF BLOOD DISEASES AND RESOURCES

The National Institutes of Health, Public Health Service, is recruiting for the position of Director, Division of Blood Diseases and Blood Resources, National Heart, Lung, and Blood Institute. This position involves the planning, implementation, and management of research grant and contract programs and training programs in blood diseases and blood resources. It includes basic and applied research on such blood diseases as the hemophilias, sickle cell anemia, and Cooley's anemia. It also includes research on blood and blood products for transfusion and the management of the nation's blood resource. The Division's budget is approximately \$60 million per year and it has a staff of approximately 40 positions.

The Director is required to have had substantial background and experience related to blood diseases and/or blood banking. The position also requires demonstrated managerial experience and an ability to communicate with individuals at all organizational levels and with varying educational experience. An M.D. or Ph.D. (or equivalent experience) is required. This is a career Civil Service position with a salary range of \$42,000 to \$47,500. Selection for and allocation of this position are subject to the approval of the U. S. Civil Service Commission. Appointment may also be made under the United States Public Health Service Commissioned Corps Program which may provide supplemental salary benefits under some circumstances.

For additional information, contact Dr. Robert L. Ringler, Chairman, Search Committee: (301) 496-1078. Applications in the form of a resume and a Personal Qualifications Statement (SF-171) should be sent by January 30, 1978 to Dr. Robert L. Ringler, Deputy Director, National Heart, Lung, and Blood Institute, Building 31, Room 5A49, 9000 Rockville Pike, Bethesda, Maryland 20014. An Equal Opportunity Employer

NATIONAL INSTITUTES OF HEALTH

GROUP LEADER in METABOLISM AND DOSIMETRY OAK RIDGE NATIONAL LABORATORY

The newly organized Health and Safety Research Division of Oak Ridge National Laboratory is seeking an individual with established credentials and leadership potential to head an expanding interdisciplinary group in the area of metabolism and dosimetry. A candidate should hold a doctorate and/or have broad experience in one or more of the following areas: biomathematics, biophysics, biochemistry, toxicology, radiation biology, and radiation dosimetry. Position duties include interaction with committees for radiation protection (NCRP and ICRP) and federal regulatory and funding agencies. The program will involve increasing emphasis on dosimetry of chemicals and non-nuclear pollutants.

ADDITIONAL POSITIONS

Positions are also available in the metabolism and dosimetry, health effects and epidemiology, assessment methodology development and evaluations, assessment applications, and offsite pollutant measurements groups of the Health and Safety Research Division of Oak Ridge National Laboratory for candidates with a Ph.D. or equivalent experience in one or more of the following areas: biostatistics, epidemiology, radiation dosimetry, biophysics, physiology, radiation physics, nuclear engineering, radiobiology, health physics.



Résumés and letters referring to this notice should be sent to: E. M. Vendley, Employment Department, Oak Ridge National Laboratory, P.O. Box X, Oak Ridge, Tennessee 37830. The Oak Ridge National Laboratory, operated by Union

Carbide Corporation-Nuclear Division, is an Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL POSITIONS (TWO) IN MOLECULAR BIOLOGY

A position is available immediately, for at least 2 years, in each of two collaborating laboratories. The research emphasis is in: (i) the function and structure of mammalian mitochondrial DNA, (ii) the structure, recognition mechanism and hydrolytic mechanism of type II restriction endonucleases, and (iii) structure and replication of viral and plasmid DNA's. Experience in nucleotide sequencing and molecular cloning would be particularly helpful, but a general background in nucleic acid biochemistry is adequate. Starting salaries are approximately \$11,000, plus benefits. To apply, send curriculum vitae, including names of three references, to: Dr. Lawrence I. Grossman or Dr. Paul H. Johnson, Department of Biochemistry, Wayne State University School of Medicine, Detroit, Mich. 48201. A position is available immediately, for at least 2

POSTDOCTORAL POSITION IN NEUROIMMUNOLOGY

Opening 1 January 1978 for person experienced in tissue culture and serological techniques to study differentiation antigens of brain and myelin. Position is funded for 16 months. Send curriculum vitae and

Dr. Vanda A. Lennon Department of Neurology Mayo Clinic Rochester, Minnesota 55901

Telephone: 714-453-4100

TWO POSTDOCTORAL RESEARCH ASSOCIATE POSITIONS available 1 January 1978. One position involves research on molecular biology of respiratory viruses (Dr. M. Pons) and one in biochemistry and biology of endogenous BALB/c retraviruses and myeloma viruses (Dr. R. Krueger). Salary, \$10,000 to \$14,000 depending on experience. Send curriculum vitae and three letters of reference to above inrum vitae and three letters of reference to above investigators at: Christ Hospital Institute of Medical Research, 2141 Auburn Avenue, Cincinnati, Ohio 45219. An Equal Opportunity/Affirmative Action Employer.

PROFESSOR AND HEAD DEPARTMENT OF BIOCHEMISTRY QUEEN'S UNIVERSITY, KINGSTON, ONTARIO, CANADA K7L 3N6

Applications invited with full documentation from biochemists of distinction to fill post effective July 1978. Salary and terms of appointment negotiated according to qualifications. Address enquiries to: Dean T. J. Boag, Faculty of Medicine.

PSYCHOLOGIST (visual perception) research associate needed. Experience with computers desirable. Ph.D. necessary. Send computers desirable. Fil.D. necessary. Send curriculum vitae to: Dr. Barbara Gillam, State University of New York—College of Optometry, 100 East 24 Street, New York, N.Y. 10010. An Equal Opportunity/Affirmative Action Employer.

RESEARCH ASSOCIATE

Work involves studies on the metabolism and mutagenesis of newly discovered nitrosamines and other carcinogens. Background in genetics preferred. One-year appointment, renewal for second year; possibility of permanent position. Salary commensurate with experience; and position offers all standard benefits. Please send résumé with salary requirements to: Peg Cleary, THERMO ELECTRON, 101 First Avenue, Waltham, Mass. 02154. An Equal Opnortunity Employer. portunity Employer.

RESEARCH ASSOCIATE IN PSYCHOLOGY-a psychologist is being sought for a clinical research position involving diagnosis, study, and treatment of aged and neurologically damaged individuals. The candidate must have a Ph.D. in psychology or its equivalent. Knowledge and experience in psychology, human neuropsychology, experimental design, statistics, and pharmacology are important qualifications. Individuals applying should have experience in dealing with human subjects and writing scientific papers. Qualified candidates may apply by sending a curriculum vitae to: David A. Drachman, M.D., Department of Neurology, University of Massachusetts Medical Center, 55 Lake Avenue North, Worcester, Mass. 01605. An Equal Opportunity/Affirmative Action Employer. position involving diagnosis, study, and treatment of tion Employer.

POSITIONS OPEN

RESEARCH ASSOCIATE I. Postdoctoral positions for natural product chemists available in purification and chemical study of marine toxins and polymers. Knowledge and experience in purification and structure determination of minute amounts of natural products is required. To 30 May 1978, with possibility of renewal. Send résumé and references by 13 bility of renewal. Send resume and references by 13 January 1978 to: Dr. Yuzuru Shimizu, Department of Pharmacognosy, UNIVERSITY OF RHODE IS-LAND, Kingston, R.I. 02881. Affirmative Action/ Equal Opportunity Employer, M/F.

RESEARCH VETERINARIAN

The Plum Island Animal Disease Center, U.S. De-The Plum Island Animal Disease Center, U.S. Department of Agriculture, is accepting applications for a research veterinarian. Applicants must have a D.V.M. and 3 years of advanced research training and experience in veterinary microbiology with emphasis in virology and immunology and preferably specific experience in research on foot-and-mouth disease, rinderreat and contagious boying pleus. disease, rinderpeat, and contagious bovine pleu-ropneumonia and other animal diseases exotic to the United States. Advanced degree(s) with appropriate accomplishments demonstrated by thesis or publications may be substituted for experience. Canlications may be substituted for experience. Candidates should have broad knowledge in virology, including immunohistochemical techniques applied to animal tissues and skill in using light, ultraviolet, transmission, and scanning electron microscopes. Duties and responsibilities involve investigating the pathogenesis of foot-and-mouth disease. This is a permanent position subject to U.S. Civil Service requirements and benefits. The salary is allocated at GS-11 (\$18,258 per annum). To be assured of full consideration, applicants should submit current réonsideration, applicants should submit current resume and the names of three references by I January 1978, to: Salvatore Citino, Personnel Officer, SC-1, Plum Island Animal Disease Center, P.O. Box 848, Greenport, New York 11944. All applicants will reserve the submit of the submit ceive consideration without regard to race, color, religion, national origin, sex, age, or handicap.

SCIENTIST

Ph.D. level position for individual with virology, tis-Ph.D. level position for individual with virology, tissue culture, supervisory and/or managerial experience required for the production and developmental biological aspects of several RNA tumor viruses, as well as investigation of novel production systems with potential large-scale application.

M. L. Knill, Recruitment

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

TOXICOLOGIST

An immediate opening exists for an individual with a new or recent Ph.D. in mammalian toxicology or environmental health. This non-laboratory position will involve critical evaluation of published and unpublished literature relevant to an assessment of occupational/public health hazards of commercial chemicals and environmental contaminants. Strong skills in technical writing and the interpretation of dose-response relationships, mechanisms of toxicity, and the environmental risk factors are essenicity, and the environmental risk factors are essential. The successful applicant will have an opportunity to participate in a wide variety of programs at the Center for Chemical Hazard Assessment, most of which are aimed at the development of health standards and environmental exposure criteria.

The center is an integral unit of the Syracuse Research Corporation (SRC), a multidisciplinary not-for-profit research institute located on the campus of Syracuse University. SRC offers an excellent starting salary, comprehensive benefits, and a stimulating academic environment. Please send résumé in confidence to:

Personnel Manager Syracuse Research Corporation Merrill Lane Syracuse, New York 13210

An Equal Opportunity/Affirmative Action Employer

POSITIONS OPEN

TERRESTRIAL VERTEBRATE POPULATION ECOLOGIST. Assistant/associate professor, De-ECOLOGIST. Assistant/associate professor, Department of Zoology and Physiology, University of Wyoming. Teaching, research. Requires Ph.D.; competence in quantitative field research, theoretical aspects, computer programming, statistical inference. Experience with species native to mountainous West preferred. Tenure-track, 9-month; salary competitive. Affirmative Action/Equal Opportunity Employer. Send letter, résume, transcripts, reprints, and three letters of reference before 17 February 1978 to: Dr. M. Parker, Box 3166, University Station, Laramie, Wyoming 82071.

VERTEBRATE MORPHOLOGIST. Position available 1 September 1978 for an assistant professor qualified to teach human gross anatomy. A strong background in those basic biological sciences relatbackground in those basic follogical sciences relating to comparative vertebrate morphology is essential, postdoctoral experience is desirable, and active research and teaching in the appointee's specialty is required. Send curriculum vitae, three letters of recommendation, and reprints to: Stephen N. Barnes, Ph.D., Physiology Section, School of Life and Health Sciences, University of Delaware, Newark, Del.

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

VISION SCIENTISTS

The Department of Physiological Optics of the The Department of Physiological Optics of the School of Optometry is seeking two faculty members with O.D./Ph.D.'s or Ph.D.'s, working in the area of vision science. One position is open for an individual with a background and interest in the area of color vision and psychophysics. The second position is available for a person working in the area of biochemistry/pharmacology. Responsibilities will include teaching courses within the physiological opening of the property of clude: teaching courses within the physiological op-tics curriculum to both optometry students and grad-uate students, and conducting research.

Evidence of scholarly research activities in the form of published articles in refereed journals and papers presented at professional meetings will be heavily weighted, as will evidence of teaching ability. Postdoctoral research experience is desirable.

Rank and salary commensurate with experience. Résumés will be accepted until 15 February 1978. Send curriculum vitae and the names of three professeind curriculum vitae and the names of three professional references to: Dr. Jerry L. Christensen, Department of Physiological Optics, School of Optometry/the Medical Center, University of Alabama in Birmingham, Birmingham, Alabama 35294. Equal Opportunity/Affirmative Action Employer.

VICE PRESIDENT-ACADEMIC WASHINGTON STATE UNIVERSITY

The Vice President-Academic is the chief academic officer of the university. This person has top level participation and responsibility in the management of the institution including overall supervision and coordination of academic and support programs.

The position demands a person with strong academic credentials, demonstrated administrative abilities, appreciation of the role of faculty in the governance of the institution, and the ability to provide strong academic leadership. Salary commensurate with qualifications and experience.

Washington State University is an Equal Opportunity/Affirmative Action Employer. Nominations should be made in writing by 15 February 1978 and should include biographical information to support the nomination.

Nominations and applications should be sent to:

Professor Lois DeFleur, Chair Vice President-Academic Search Committee 422 French Administration Building Washington State University Pullman, Washington 99164

The Department of Medical Microbiology, the Ohio State University College of Medicine, has positions available in the area of VIRAL ONCOLOGY. Canavailable in the area of VIRAL ONCOLOGY. Candidates must have a Ph.D. or M.D. degree with post-doctoral experience working with herpes viruses in the areas of immunology, molecular virology, or cell biology. Responsibilities include teaching graduate and medical students and developing a strong research program. Salary commensurate with experience. Send curriculum vitae and three letters of reference to: Dr. Ronald Glaser, Professor and Chairman, Department of Medical Microbiology, The Ohio State University College of Medicine, 370 West 9th Avenue, Room 260, Columbus, Ohio 43210.

IMMUNOTHERAPIST/ CHEMOTHERAPIST

Laboratory of Chemical Pharmacology

The Laboratory of Chemical Pharmacology, Division of Cancer Treatment, National Cancer Institute has an opening for an immunotherapist/chemotherapist to conduct both independent and collaborative research concerning the use of immuno-stimulation and chemotherapeutic agents for treatment and prevention of cancer. Applicants should have a Ph.D. and/or M.D., plus experience and relevant publications in the area of immunology and particularly of immunostimulation for treatment of tumors and techniques for evaluation of immuno-suppression by chemotherapeutic agents. The position will be filled at a level and salary commensurate with training and experience of selected candidate, within a salary range of \$19,740-\$35,559 per annum, and may be filled through either the NIH Staff Fellowship Program of competitive Civil Service. Interested applicants should send a Curriculum Vitae and Bibliography, plus three letters of reference by January 20, 1978 to Mrs. Janie R. Lacy, Personnel Management Specialist, National Cancer Institute, National Institutes of Health, Public Health Service, Building 31, Room 3A27, 9000 Rockville Pike, Bethesda, Maryland 20014. An Equal Opportunity Employer

NATIONAL INSTITUTES OF HEALTH



UNIVERSITY OF DUBLIN Trinity College

CHAIR OF CHEMISTRY and HEADSHIP OF DEPARTMENT

Applications are invited for appointment to these posts which will fall vacant on 1 October 1978, following the retirement of the present holder Dr. Wesley Cocker. While the University is not committed to an appointment solely in one field of Chemistry, applications from persons with a special interest in Inorganic Chemistry will be particularly welcome.

Further particulars, both of the present activities of the department of Chemistry, and of the conditions of appointment to the Chair and to the Headship, may be obtained from

> Mr. G. H. H. Giltrap, Secretary to the College, Trinity College, Dublin 2.

to whom formal application should be made, preferably not later than 23 January 1978.

BIOLOGY

Dames & Moore, consultants in environmental engineering and applied earth sciences, seeks individuals in the following disciplines:

AQUATIC ECOLOGISTS [Cincinnati, Ohio]

Senior level individual with minimum of 5 years experience in preparation of aquatic ecology sections of environmental reports. Duties to include design of sampling programs to predict impact of projects on aquatic ecology reports. Proven experience in management of multidiscipline environmental projects required. Advanced degree in fisheries biology preferred.

TERRESTRIAL BIOLOGISTS

[Cincinnati, Ohio]

Individual with specialization and experience in wildlife ecology with emphasis on botany to assist in field and office. Must be willing to travel. One or more years working experience with consultants, or preparation of environmental reports preferred. Training or experience in biostatistics and computer application desired. Advanced degree preferred.

Personnel, SW

DAMES & MOORE

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INTERNSHIPS FOR POSTGRADUATE TRAINING IN VETERINARY PATHOLOGY

AVAILABLE 1 JANUARY 1978

The Department of Pathology, New York State College of Veterinary Medicine, offers resident and graduate training in veterinary and comparative pathology. The object of the program is to provide the successful applicant with a firm background in both the discipline of pathology and research technique.

In general, the goals of the training program are achieved through a stratified residency period, followed by graduate education in a field of the applicant's choice. Completion of the program may result in eligibility for certification by the American College of Veterinary Pathologists and/or a Ph.D. in pathology.

Existing programs in the recognition and study of wildlife, exotic animal, aquatic, and avian diseases complement the more traditional pathologic material associated with a university teaching hospital responsible for the health and welfare of livestock and companion animal species. These broad-based resources are utilized fully to develop diagnostic skill in veterinary pathology, and to provide significant problems amenable to investigation by graduate students.

Skill and experience in specialized techniques such as those associated with electron microscopy, immunopathology, enzyme histochemistry, and in vitro cell culture systems may be acquired within the departmental facilities or in other qualified research environments. Effort is made to tailor the period of research training to the interests and career goals of the applicant, with ample opportunity provided for off-campus training in the biomedical community. Through associations with the State University, Cornell, and Johns Hopkins Medical Schools, individuals interested in developing a career in comparative pathology may receive training in the pathology departments of these medical environments.

The training period varies from 3 to 5 years, depending on background and experience.

Starting stipends average \$12,000, depending upon prior relevant experience.

Applicants should send curriculum vitae, personal bibliography, official college transcripts, three professional references, and a brief statement concerning career objectives and availability to: Dr. Robert M. Lewis, Chairman, Department of Pathology, New York State College of Veterinary Medicine, Cornell University, Ithaca, New York 14853. Affirmative Action/Equal Opportunity Employer.

PLANT PHYSIOLOGIST/RESEARCH ASSOCIATE. Postdoctoral position available 1 February 1978 in plant protoplast research. Efforts will be directed toward aspects of plant regeneration from mesophyll cell protoplasts, with potato serving as the model system. Candidates must have completed a Ph.D. degree in plant physiology or a related basic plant science and possess fundamental knowledge of the processes involved in plant growth and development. Initial appointment for 1 year with the potential for reappointment. Salary negotiable depending upon qualifications. Submit a statement of interest, curriculum vitae, including reprints of published work, and three letters of reference to: J. F. Shepard, Department of Plant Pathology, Kansas State University, Manhattan, Kansas 66506. An Equal Opportunity/Affirmative Action Employer.

TWO POSITIONS, fall 1978. One is a tenure-track assistant professorship for a Ph.D. biochemist, involving undergraduate and graduate teaching. Research, and supervision of senior and M.S. research are encouraged. The second position is for a Ph.D. lecturer (1 year) to teach undergraduate organic and/or general chemistry. An Equal Opportunity/Affirmative Action Employer. Send résumé, three letters of recommendation, and transcripts by 15 February to: Dr. Esther Leffler, Chemistry Department, California State Polytechnic University, Pomona, California 91768.

STAFF BIOLOGIST-SPECIALIST IN MARINE POPULATION DYNAMICS

Biologist wanted: must possess advanced degree in the population dynamics of living marine resources and have wide and varied field experience in the marine fisheries. Position involves in-depth biological analyses of various resource management options and strategies designed for the conservation and rehabilitation of the living marine resources. Incumbent will report to a senior biologist and will participate in the preparation of, and subsequent monitoring of biological aspects of, the fishery management plans developed by the New England Regional Fishery Management Council. Salary is negotiable, based on training and experience. Work is demanding in nature but is performed in a small congenial group of diversified technical and administrative interests. Our employees have been advised of this advertisement. Qualified individuals should submit a detailed résumé to: Executive Director, New England Regional Fishery Management Council, I Newbury Street, Peabody, Mass. 01960. The Council is an Equal Opportunity Employer.

STAFF ECONOMIST-SPECIALIST IN LIVING MARINE RESOURCES

Economist wanted: must possess advanced degree in the economics of marine resources and have wide experience in applied fisheries economic research. Position involves preparation of in-depth economic impact analyses of various resource management options and strategies designed for the conservation and rehabilitation of the living marine resources. Incumbent will report to senior economist and will participate in the preparation of, and subsequent monitoring of, economic aspects of the fishery management plans developed by the New England Regional Fishery Management Council. Salary is negotiable, based on training and experience. Work is demanding in nature but is performed in a small congenial group with diversified technical and administrative interests. Our employees have been advised of this advertisement. Qualified individuals should submit a detailed résumé to: Executive Director, New England Regional Fishery Management Council, 1 Newbury Street, Peabody, Mass. 1960. The Council is an Equal Opportunity Employer.

CONFERENCE

A conference on the Molecular and Developmental Biology of Insects organized by the Hellenic Society for Biological Sciences will be held in Heraklion Crete (Greece) from 13 to 16 July 1978. The following topics will be discussed: genome organization, hormones in development, intracellular mechanism of hormone action, molecular basis of insect controls, and models systems of development and differentiation.

ferentiation.

For further information, please contact the secretary of the conference, Dr. E. G. Fragoulis, Department of Biology, University of Athens, Panepistemiopolis, Kouponia, Athens 621, Greece.

PROGRAMS

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Applicants must have strong academic backgrounds.

Application deadline: 15 January 1978. For information write to:

Professor Harvey Brooks
Benjamin Pierce Professor of Technology and
Public Policy
Kennedy School of Government, Littauer 101
Harvard University
Cambridge, Mass. 02138

ASSISTANTSHIPS

BIOCHEMICAL VIROLOGY

Two postdoctoral research assistantships are available to study biochemical aspects of influenza and parainfluenza virus replication and antigenic variation in influenza viruses. Successful candidates will have strong backgrounds in biochemistry. Send curriculum vitae and a statement of career goals to: Dr. R. G. Webster and Dr. D. W. Kingsbury, Virology Division, St. Jude Children's Research Hospital, P.O. Box 318, Memphis, Tennessee 38101. An Equal Opportunity/Affirmative Action Employer.

GRADUATE STUDY

GRADUATE STUDIES IN PHARMACOLOGY

Applications are invited from qualified students for graduate studies in pharmacology to begin fall semester 1978. Students may concentrate their studies in cardiovascular physiology and pharmacology or autonomic neurochemistry. Prerequisites are a bachelor of science degree in biologically related sciences with a B average or above and a combined score of at least 1100 on the Graduate Record Examination. NIH traineeships are available with a stipend of \$325 per month (for 12 months, tuition paid) and assistantships with a stipend of \$325 per month for 9 months, plus out-of-state tuition waiver. Inquiries should be addressed to:

Dr. B. S. Jandhyala
Department of Pharmacology
College of Pharmacy
University of Houston
Houston, Texas 77004

FELLOWSHIPS

POSTDOCTORAL FELLOWSHIP IN MOLECU-LAR EMBRYOLOGY. Biochemical studies on regulation of differentiation and aggregation of chick embryo hepatocytes. \$11,000 per annum. Send curriculum vitae and references to: Dr. Burton M. Pogell, Department of Microbiology, St. Louis University School of Medicine, St. Louis, Missouri 63104. An Equal Opportunity/Affirmative Action Employer.

RESEARCH FELLOWSHIP IN CLINICAL IMMU-NOLOGY. Ph.D. or M.D. Clinical and basic studies of human autoimmune and immunodeficiency diseases. Available 1 July 1978 for up to 3 years. Training includes extensive seminar programs. Applicants should be U.S. citizens or permanent residents. Send curriculum vitae to: Dr. John H. Vaughan, Research Institute of Scripps Clinic, 10666 North Torrey Pines Road, La Jolla, California 92037. Equal Opportunity Employer.

Applications are being accepted for a 2-year approved training program in basic and/or clinical reproductive endocrinology. Candidates must have completed a Board-approved residency program in gynecology and obstetrics and wish further training in reproductive medicine. For information and applications write to: Dr. J. E. Tyson, Program Coordinator, Division of Reproductive Endocrinology, Department of Gynecology and Obstetrics, The Johns Hopkins Hospital, Baltimore, Maryland 21205.

FELLOWSHIPS

FELLOWSHIPS IN MARINE POLICY AND OCEAN MANAGEMENT

Applications are invited for 1-year post-doctoral fellowships from scholars and practitioners from relevant fields in the natural sciences, social sciences, and management who are interested in applying their disciplinary training and experience to investigations into questions of marine policy and ocean management in which marine science is an important factor. Recipients of awards are expected to pursue research full-time, basing themselves in Woods Hole.

Applicants must have completed their doctorate degree or possess superior professional qualifications through career experience. Opportunities for investigators on sabbatical are also available. Fellowship stipend is \$14,500. Appointees are eligible for group health insurance and a modest research budget. Application deadline is 15 February 1978 to 1978-1979 awards. Awards will be announced in March. Write for application forms to: Dean of Graduate Studies, Woods Hole Oceanographic Institution, Woods Hole, Massachusetts 02543.

Equal Opportunity/Affirmative Action Institution

Postdoctoral Fellowship in Human Cellular Immunology. Isolation of lymphocyte subpopulations and subclasses, characterization of mechanisms of cellular cytotoxicity, and application to human diseases. U.S. citizen or permanent resident. Position open I July 1978 or sooner if desired. Stipend: \$14,500. Send curriculum vitae and two letters of recommendation to: Dr. Richard P. MacDermott, Department of Medicine, Washington University Medical Center, 660 South Euclid Avenue, St. Louis, Missouri 63110.

POSTDOCTORAL FELLOWSHIP IN RENAL PHYSIOLOGY

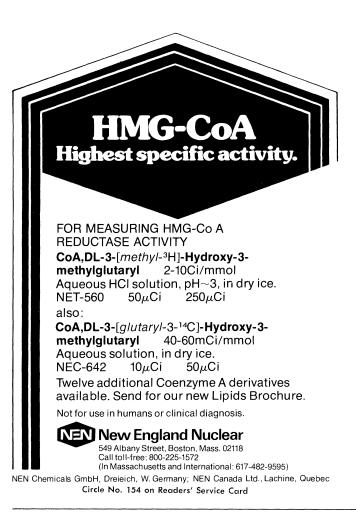
Multidisciplinary research training in renal physiology and microcirculation available immediately under an award from the American Heart Association. Appropriate for fellows with a Ph.D. in physiology, biophysics, biomedical engineering, or a medical degree (M.D.). Stipend: \$12,000. Send curriculum vitae and references to: Dr. Donald J. Marsh, Olin Hall 500, Department of Biomedical Engineering, University of Southern California, Los Angeles, California 90007. An Equal Opportunity/Affirmative Action Employer

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

MARKET PLACE



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Volume II in the R&D series, by Willis H. Shapley with Don I. Phillips and Herbert Roback for the AAAS Committee on Science and Public Policy, builds on the foundation laid by Volume I for FY 1977. R&D '78 probes the policy climate surrounding the preparation of the FY 1978 budget and traces the evolution of President Carter's amended budget during the transition period. Significant issues examined include:

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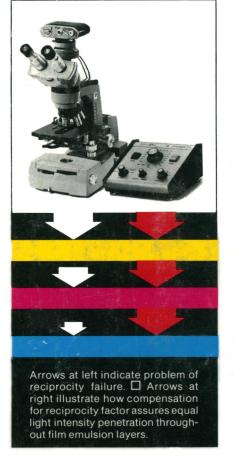
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