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POSITIONS WANTED

Applied Statistician. Ph.D. Postdoctorate in university consulting center. Teaching experience. Background in computers. Desire position in statistical applications. Box 266, SCIENCE. X

Chemist-Epidemiologist. Ph.D. (physical chemistry). M.P.H. (epidemiology and health planning); extensive experience in university teaching, research, and administration. Interdisciplinary interests. Seeks senior-level, challenging position conducive to accomplishment. Box 267, SCIENCE.

Freelance Writer-Editor. Life sciences; psychology, biology, physiology. Graduate McGill University. Box 268, SCIENCE. 6/20, 27

Instructor, Biology B.A., M.A. Nine years of teaching experience: anatomy, physiology, chemistry, microbiology in 1000-bed hospital diploma nursing school; seeks position in related teaching field. Willing to relocate. Box 269, SCIENCE.

Manager, Pharmaceutical Analysis. Ph.D. (analytical chemistry), with 8 years of experience in laboratory supervision for pharmaceuticals and chemical products. Solid background in QC, product development, and FDA/GMP regulations. This innovative scientist seeks challenging position in technical management. Box 270, SCIENCE. X

Physiologist/Histochemist. M.S. 1974. Experience in light and electron microscopy techniques, 3 years of medical lab and teaching experience, publications. Desires university or industrial position. Location open. Available August 1975. Box 271, SCIENCE. 6/20, 27

Toxicologist. Ph.D. 1971. Three years of NIH post-doctoral training. Publications. Pesticide and drug metabolism. Enzyme induction and developmental toxicology. Seeks academic, industry, or governmental position. Available July 1975. Box 272, SCIENCE.

6/20, 27

POSITIONS OPEN

ANIMAL BREEDING—STATISTICS POSITION

Teaching with some research, title: Assistant Professor of Animal Sciences and Assistant Professor of Agriculture (Statistics), Washington State University (an Equal Opportunity/Affirmative Action Employer). Those desiring to apply for this position should send complete résumé by 1 July 1975 to: Dr. R. L. Preston, Chairman, Department of Animal Sciences, Washington State University, Pullman, Washington 99163.

AQUATIC ECOLOGIST

Appointment available at Rosenstiel School of Marine and Atmospheric Science, University of Miami, for an aquatic ecologist interested in quantitative population or community ecology with particular interest in food chain dynamics and community structure. Responsibilities will include teaching and the designing and coordination of field research. Level of appointment would be commensurate with qualifications. Inquiries should be submitted to:

Chairman—Ecologist Search Committee Charinal—Ecologis Searce Committee
Division of Biology and Living Resources
Rosenstiel School of Marine and Atmospheric Science
University of Miami
4600 Rickenbacker Causeway
Miami, Florida 33149

A position is available at the Associate Professor rank A position is available at the Associate Professor rank in the Division of Allergy/Immunology, Department of Pediatrics, State University of New York at Buffalo. The position is open to individuals with the following qualifications. (i) M.D. degree. (ii) Board certification in Pediatrics and in Allergy/Immunology. (iii) Research capabilities in laboratory immunology, in addition to the ability to supervise laboratory procedures for the evaluation of humoral and cellular immunologies. for the evaluation of humoral and cellular immuno-logic competence, polymorphonuclear leukocyte func-tion and the complement system. (iv) Able to assume clinical and teaching responsibilities. Apply to Chair-man, Department of Pediatrics, Children's Hospital, 219 Bryant Street, Buffalo, N.Y. 14222. Telephone: 716-878-7258. An Equal Opportunity/Affirmative Ac-tion Fundover. tion Employer.

ASSISTANT PROFESSOR OF BOTANY. Ph.D. required. To teach undergraduate and graduate ecology quired. To teach undergraduate and graduate ecology courses. To develop a research program in plant community ecology. Twelve-month appointment. Send résumé, academic record, publications, three letters of recommendation, and a brief description of area of research interest and background in plant community ecology to: Dr. Roger C. Fites, Chairman of Search Committee, Department of Botany, North Carolina State University, Raleigh, N.C. 27607. An Equal Opportunity/Affirmative Action Employer.

ASSISTANT PROFESSOR OF MEDICINAL CHEMISTRY

Position available fall 1975. Ph.D. required. Research interest in enzyme inhibition, biotransformations related to drugs (qualitative aspects), or immuno-chemistry is preferred but other areas may be consid-ered. Send résumé and three letters of reference by 1 July 1975 to: Dr. A. J. Solo, Department of Medicinal Chemistry, School of Pharmacy, State University of New York at Buffalo, Buffalo, New York 1214.

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

plications from women and members of minority groups are encouraged.

The Department of Anatomy and Physiology, Indiana University, Bloomington, invites applications for AS-SISTANT PROFESSOR OF PHYSIOLOGY, effective January 1976. Preference will be given to candidates specializing in environmental physiology, neudidates specializing in environmental physiology, neurophysiology, or endocrinology. The appointee will be expected to develop a quality research program and participate in undergraduate and graduate teaching. Submit curriculum vitae and the names of three references to Dr. Roderick Suthers, Department of Anatomy and Physiology, Indiana University, Bloomington, Indiana 47401. An Equal Opportunity, Affirmative Action Employer. tion Employer.

BOTANIST/DEVELOPMENTAL BIOLOGIST Small state liberal arts college in the Berkshires offer-Small state liberal arts college in the Berkshires offering degrees in biology and medical technology seeks Ph.D. in botany. This person should have a broad Botany background as well as knowledge of animal development. Teaching responsibilities include courses in botany and developmental biology. Assistant professor. Please send résumé to: Dr. Duncan MacKenzie, Chairman, Biology Department, North Adams State College, No. Adams, Mass. 01247. Affirmative Action/ Equal Opportunity Employer.

POSITIONS OPEN

ASSISTANT PROFESSOR—STATISTICS

Faculty position for 1-year appointment, 20 August 1975 to 20 May 1976. Permanent position anticipated 1973 to 20 May 1976. Permanent position anticipated after that, but will be filled only after open competition at that time. Teaching, 9 to 10 hours, primarily in junior-level service courses, plus consulting and data analysis. Ph.D. in statistics (or assurance of completion this year) required. Applications by 15 July to: Chairman, Department of Statistics, Colorado State University, Fort Collins, Colorado 80523.

ASSOCIATE CHIEF OF STAFF FOR EDUCATION

The applicant should be an M.D. with expertise in continuing medical education as well as in a clinical area. The primary responsibility of the holder of this post is in continuing medical education. In addition, the position includes an academic appointment in the School of Medicine of the University of Pittsburgh and a staff appointment in the Veterans Hospital, both in department or departments appropriate to his or her a staff appointment in the Veterans Hospital, both in department or departments appropriate to his or her clinical abilities. Knowledge and experience in the development, structuring, and evaluation of continuing education activities in the health professions is essential. The applicant must be able to contribute in his or her field of medical expertise in the University and the Veterans Administration Hospital. The person will work in cooperation with an existing Division of Continuing Education at the University of Pittsburgh School of Medicine and the University Health Center of Pittsburgh Seand curriculum vitae and names of of Pittsburgh. Send curriculum vitae and names of three references to Chairman of Search Committee for ACOSE, c/o Chief of Staff, VA Hospital, University Drive, Pittsburgh, Pa. 15240. An Equal Opportunity/Affirmative Action Employer.

ASSOCIATE EXECUTIVE DIRECTOR

The Assembly of Life Sciences of the National Academy of Sciences, National Research Council, is seeking an Associate Executive Director to assist the Executive Director in the management of a complex organization concerned with fundamental scientific questions, the vitality of the national scientific endeavor, and broad national problems in the biologic, medical, environmental, and toxicologic fields.

Candidates should be professionals from the fields of candidates should be professionals from the locas of science, preferably having experience in the administrative management of a scientific research program. Substantial leadership experience in academic, government, health care, or industrial organizations is required. Familiarity with negotiations with government agencies involving contracts and grants is desirable.

Inquiries should be addressed to Dr. Thomas J. Kennedy, Jr., Executive Director, Assembly of Life Sciences, National Academy of Sciences, 2101 Constitution Avenue, NW, Washington, D.C. 20418.

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AUDITORY RESEARCH

Neurophysiologist. Immediate opening at Assistant Professor level for recent Ph.D. with postdoctoral experience and strong background in neurophysiology of the auditory system. Single unit research emphasized.

the auditory system. Single unit research emphasized, Primary commitment to research, with minimal teaching responsibilities. Salary to \$16,500 per annum plus fringe benefits.

Postdoctoral Research Associate. Immediate opening in Otologic Ultrastructure Laboratory for recent Ph.D. with strong background in electron microscopy. Specific research concerned with inner ear morphology. Salary to \$12,500 per annum plus fringe benefits.

Send curriculum vitae with names of three references to: Search Committee, Department of Otolaryngology, 2630 University Avenue S.E., Minneapolis, Minnesota 55414.

BANTING AND BEST DEPARTMENT OF MEDICAL RESEARCH UNIVERSITY OF TORONTO

Applications and nominations are invited for a faculty position to start on or about 1 January 1976. Molecular endocrinology or animal cell differentiation are the preferred areas of research. Minimum of 2 years of postdoctoral experience required. Salary negotiable and commensurate with rank. Interested persons should send curriculum vitae. Also arrange to have three letters of recommendation sent to:

Search Committee Chairman
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University of Toronto
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POSITIONS OPEN

BIOLOGY FACULTY position starting 1 September 1975 to teach human anatomy and physiology, genetics, and introductory biology. The candidate with additional competence and desire may have an opportunity tional competence and desire may have an opportunity at various times to teach in the following areas: biochemistry, physics, marine science, and methods and supervision of secondary science teaching. The recipient is expected to participate actively in advising, in departmental and collegiate governance, in special college programs, for example, U.W.W., and in instructional-support roles. Qualifications: Ph.D.; teaching experience preferred. Only completed written applications including official transcript, curriculum vitae, and three letters of reference or placement credentials will be considered. Deadline: I July. Send to Biology Search Committee, Box 2072, Stephens College, Columbia, Missouri 65201. We encourage women and members of minority groups to contact us as we are an A.A./E.O. employer.

BIOLOGICAL RESEARCH COORDINATOR

Applications are invited for the professional position of Biological Research Coordinator. Basic qualifications for the position are a Ph.D. in the biological sciences and extensive field research experience in the Arctic. Applicant should be familiar with the research activities in the biological and ecological sciences conducted in northern Alaska by universities, state and federal agencies and industry, and should have personally participated in or coordinated some of this research, preferably of an interagency nature.

Duties will be to coordinate and monitor the

Duties will be to coordinate and monitor the progress of the various biological projects of the Outer Continental Shelf Energy Program, conducted by BLM-NOAA in the Beaufort and Chukchi Seas. The Coordinator will be responsible to the Project Manager of the OCS Arctic Project Office at the University of Alaska, which operates under contract to NOAA.

Salary will be in the range of \$2200 to \$2500 per month

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

For further information, write to Project Manager, OCS Arctic Project Office, Geophysical Institute, University of Alaska, Fairbanks, Alaska 99701.

BOTANY AND ZOOLOGY

Botanist, Ph.D., with both field botany and molecur research interests. Must be capable of managing herbarium and teaching vascular and nonvascular bot-any and principles of biology.

Zoologist, Ph.D., with strong research background in

physiology. Must be capable of teaching invertebrate and vertebrate biology and invertebrate and vertebrate bysiology. Entomological or ornithological interests also desirable.

Both positions involve undergraduate and master's both positions involve undergraduate and master steaching and research. Rank and salary dependent upon qualifications. Send curriculum vitae to Biology Search Committee, California State College, California, Pennsylvania 15419, for September employment. An Equal Opportunity/Affirmative Action Employer.

CHEMISTRY FACULTY position in a two-person department to teach organic chemistry and in-troductory inorganic chemistry. The candidate with ad-ditional competence and desire may have an opportu-nity at various times to teach in the following areas: biochemistry, physics, marine science, and methods and supervision of secondary science teaching. The recipient is expected to participate actively in advising, recipient is expected to participate actively in advising, in departmental and collegiate governance, in special college programs, for example, U.W.W., and in instructional-support roles. Qualifications: Ph.D.; teaching experience preferred. Only completed written applications including official transcript, curriculum vitae, and three letters of reference or placement credentials will be considered. Deadline: 1 July. Send to Chemistry Search Committee, Box 2072, Stephens College, Columbia, Missouri 65201. We encourage women and members of minority groups to contact us as we are an A.A./E.O. employer.

CLINICAL BIOLOGIST: One-year appointment, with possible renewal, at the rank of assistant professor with possible renewal, at the rank of assistant professor with primary responsibility for direction of ongoing Medial Technology program, including interaction with faculty, hospitals, and students in the Medical Technology program and personal communication with and visitation to hospital medical microbiology, serology, or related clinical science. Ph.D. required; research encouraged. Submit applications to Dr. Clarence Goodnight, Chairman, Department of Biology, Western Michigan University, Kalamazoo, Michigan 49008. An Affirmative Action/Equal Employment Opportunity Employer.

POSITIONS OPEN

CARDIOLOGIST—The Division of Cardiology in the Department of Medicine at the University of Alabama in Birmingham has available two positions at the assistant professor or the associate professor level. The positions are open to qualified individuals at a senior level fulfilling three criteria. First, the individual must have expertise in the care and management of patients with cardiovascular disease and in cardiac catheterization. Second, the individual must have a firm commitment Second, the individual must have a firm commitment to teaching programs oriented to medical students, graduate students, house officers, and fellows. Finally, the individual should have a research background and be able to carry out independent research. Apply to the Division of Cardiovascular Disease, Department of Medicine, University of Alabama Medical Center, Birmingham, Alabama 35294 (Attention Ms. Norma McSweeney). Telephone: 205-934-3285. An Equal Opportunity/Affirmative Action Employer. Expiration date for receipt of applications: 1 August 1975.

UNIVERSITY OF CALIFORNIA AT DAVIS

CELL BIOLOGIST/PLANT BIOCHEMIST-PHYSIOLOGIST and PHYSIOLOGIST/HORTI-CULTURIST. Both positions in the Postharvest Biology Laboratory. For details please see page 754 of the 16 May issue of Science.

Applications are invited for an appropriate faculty appointment in DIAGNOSTIC RADIOLOGY with specialization in medical electronics. A Ph.D., D.E., or master's with some experience is required; responsibilities will include research, service, and teaching. The Division of Radiological Sciences is involved in research in image processing and pattern recognition of nuclear medicine and ultrasound images, electronic radiocarchical and religious tasks the same ages, electronic radiocarchical and religious transportations. nuclear medicine and ultrasound images, electronic radiography, and radioisotope tracer techniques. A successful candidate is expected to have experience in some of the following areas: computer interfaces, direct interprocessor links, rotating memory, logic circuitry, gamma cameras, x-ray equipment, RF circuitry (1 to 15 Mhz), and medical electronics instrumentation. Candidates should direct inquiries to: Dr. Richard C. Riley, Head, Division of Radiological Sciences, Department of Diagnostic Radiology, University of Kansas Medical Center, Kansas City, Kansas 66103. An Equal Opportunity Employer. Opportunity Employer.

ECOLOGIST. Quantitative ecologist for faculty position in teaching and research in wildlife management and natural resources. Appointment is on a 12-month basis, rank and salary negotiable. Send résumé to Division of Forestry, West Virginia University, Morgantown, West Virginia 26505.

FACULTY POSITION LABORATORY ANIMAL MEDICINE

Faculty position available in laboratory animal medicine at Yale School of Medicine, Section of Comparative Medicine. Candidate must be qualified in vetparative Meticine. Canodate must be quantied in vet-erinary internal medicine or laboratory animal medi-cine and have active clinical research interests. Salary and rank commensurate with experience. Submit résumé to Dr. Albert M. Jonas, Professor and Chief, SCM, 375 Congress Avenue, New Haven, Conn. 06510. Yale University is an Equal Opportunity/Affirmative Action Employer. Action Employer.

TWO FACULTY POSITIONS **DEPARTMENT OF RADIOLOGY**

The University of Michigan Medical School is seeking a Board-eligible or Board-certified M.D. The physician will take part in the programs of patient care, teaching, and research carried on in the Department of Radiology. Physician will supervise the activities of the resident staff and aid in teaching residents and medical students. Please send résumé to Box 275, SCIENCE. Code #'s 1800H0 and 2900H0.

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NEUROBIOLOGIST PROFESSOR OR ASSOCIATE PROFESSOR

The University of Michigan Medical School, Department of Anatomy, is seeking person holding the Ph.D. and/or M.D. degree who is interested in stimulating progressive research on the mammalian central nervous system and who has the leadership to develop a postdoctoral program. There will be an opportunity to participate in teaching neuroanatomy to graduate and medical students. Please send curriculum vitae before I August 1975 to Box 274, SCIENCE. Code #1400F0.

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|A|A|S

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CARDIOVASCULAR PHARMACOLOGIST

Candidates should have a PhD in Pharmacology or a related discipline with interest and experience in the study of drug effects on the cardiac conduction system. Primary responsibility will lie in the supervision of a group devoted to the development of antidysrhythmic drugs. Interested persons should send their resume of education and research experience to:

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DEPARTMENT OF HEALTH, EDUCATION & WELFARE

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Applicants must be nationally recognized scientists with extensive experience which clearly demonstrates the capability to plan, evaluate and manage broad scientific and technological research and operational programs of national public health significance and strong leadership and supervisory qualities. A Ph.D., or equivalent, in the biological or physical sciences is highly desirable. Publications, professional activities, honors and awards will be considered as indications of achievement, peer recognition and status in the scientific community. Salary—\$36,000 per annum (GS-18)

HOW TO APPLY

Submit a curriculum vitae, bibliography and a completed Standard Form 171 (Personal Qualifications Statement) to Division of Personnel Management, FDA, Room 10-85, Parklawn Building, 5600 Fishers Lane, Rockville, Maryland 20852.

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POSITIONS OPEN

FACULTY POSITION: Assistant Professorship be-FACULTY POSITION: Assistant Professorship beginning | September 1975. To teach and conduct research in air and gas cleaning technology. Requirements: education through doctoral level in air pollution control, environmental engineering, industrial hygiene, or related specialty; minimum of 2 to 4 years of practical experience conducting air and gas cleaning research. Ability to write professionally. Qualified women and minority group members are encouraged to apply. Submit résumés to Dr. Dade W. Moeller, Harvard School of Public Health, 665 Huntington Avenue, Boston, Massachusetts 02115. nue, Boston, Massachusetts 02115.

FACULTY POSITIONS IN BIOCHEMISTRY

ASSISTANT PROFESSOR: Ph.D. or M.D. with special interests in research and teaching in neuronochemistry, biochemical endocrinology, or nucleic

ASSOCIATE PROFESSOR: Ph.D. or M.D. with ASSOCIATE PROFESSOR: Ph.D. or M.D. with strong research background and teaching experience in the area of Nutrition-Metabolic Regulation.

Both positions available fall 1975. Please send inquiries and curriculum vitae to: Personnel Department,

The University of Texas Health Science Center at Dal-las, 5323 Harry Hines Blvd., Dallas, Texas 75235. An Equal Opportunity/Affirmative Action Em-

FACULTY POSITIONS

Applications are invited for teaching in the medical basic science disciplines of anatomy (including Histology-Embryology), Biochemistry, Microbiology, Pharmacology, and Physiology. Salaries and ranks (Instructor, Assistant, Associate) commensurate with qualifications. Quality teaching emphasis. Research encouraged but not mandatory. Modern hospital. Cultural city, Excellent suburban living. Send résumé, letter, and three reference contacts to Dr. W. V. Colé, Dean. College of Osteonathic Medicine. Independence Dean, College of Osteopathic Medicine, Independence Blvd., Kansas City, Mo. 64124.

GENETICIST

Permanent position (9-month appointment) beginning 16 August 1975. Apply:

Joe K. Neel, Chairman Department of Biology University of North Dakota Grand Forks, N.D. 58202

Telephone: 701-777-2621

IMMUNOLOGIST. Ph.D. with interest in hematology for project starting July 1975 involving characterization of Hodgkin's disease cells. Please send résumé to: S. B. Shohet, M.D., Director, Cancer Research Institute, University of California, San Francisco, Calif. 94143.

The University of California, San Francisco, is an Equal Opportunity Employer with an Affirmative Action Program.

THREE INSTRUCTOR OR ASSISTANT PROFESSOR POSITIONS DEPARTMENT OF SURGERY

The University of Michigan Medical School is seek-In the University of Michigan Medical School is seek-ing M.D.'s who have completed residency in General Surgery and who evidence an interest in an academic surgical career. Candidates must possess the ability to instruct and advise doctors in our residency program. The applicants must also evidence an interest in emergency medical care and surgery of trauma. Position code #'s 200H0, 400H0, and 500H0. Please send résumé to Box 273, SCIENCE.

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MICROBIOLOGY

Two positions available, 1 August 1975. (i) Professor of Microbiology (\$28,000 to \$30,000), M.D. with at least 10 years of experience in teaching and research in medical microbiology and immunology. Must have international recognition in immunology research. (ii) Associate Professor of Microbiology (\$24,000 to \$26,000), M.D. (preferred) or Ph.D. (possible) with at least 6 years of experience in teaching and research in microbiology and cellular immunology. Both positions require teaching microbiology and immunology to medical, dental, and graduate students; supervision of graduate student research; and independent research medical, dental, and graduate students; supervision of graduate student research; and independent research activities supported by funds solicited from outside agencies. Send curriculum vitae and list of publications to Dr. Felix Milgrom, Professor and Chairman, Department of Microbiology, 203 Sherman Hall, State University of New York at Buffalo, Buffalo, N.Y. 14214. State University of New York at Buffalo is an Equal Opportunity/Affirmative Action Employer.

POSITIONS OPEN

MAMMALIAN PHYSIOLOGIST (two positions available). Major responsibility, teaching medical and dental physiology. Assistant professor rank; salary negotiable, starting September 1975: Send application and letters of recommendation to:

Dr. Ewald E. Selkurt
Department of Physiology
Indiana University Medical Center
1100 West Michigan Street Indianapolis, Indiana 46202

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MARINE BIOLOGIST—ECOLOGIST

Position for Ph.D. marine biologist or ecologist open Position for Pr. D. marine biologist of ecologist open 1 October 1975 as Division Head and Senior Scientist in contract research investigations. Should have suf-ficient experience in marine biology as well as in physi-cal and chemical oceanography to develop and carry out multidiscipline marine environmental research concerned with the effects of petrochemical pollutants on ropical marine ecosystems. Experience in tropical investigations and former research support by USAEC desirable, but not required. Qualified applicants should send a curriculum vitae including academic training, list of publications and names of three references to F. G. Lowman, Associate Director, Puerto Rico Nuclear Center, College Station, Mayange Puerto Rico 10709 Center, College Station, Mayaguez, Puerto Rico 00708. An Equal Opportunity Employer.

PHYSICAL-CHEMICAL OCEANOGRAPHER

Position for Ph.D. physical-chemical oceanographer open 1 July 1975. Interested in candidates versed in physical oceanography with secondary experience or training in coastal geochemical processes. Qualified applicants should send a curriculum vitae including academic training, list of publications, and names of three references to F. G. Lowman, Associate Director, Puerto Rico Nuclear Center, College Station, Mayaguez, Puerto Rico 00708. An Equal Opportunity Employer.

NEUROPHYSIOLOGY/MEMBRANE PHYSIOLOGY, research associate or postdoctoral fellow required to study mechanism of excitation of corneal parties by mechanism of excitation of excitation of corneal parties by mechanism of excitation quired to study mechanism of excitation of cornear nerves by mechanical and thermal stimuli. Salary ne-gotiable. Send curriculum vitae, names of referees and/ or request for further information to: Dr. D. Maurice, Division of Ophthalmology, Stanford Medical Center, Stanford, Calif. 94305. Stanford University is an Equal Opportunity, Affirmative Action Employer.

PEST MANAGEMENT

A full-time, regular faculty position at the assistant entomologist level for research in pest management, with particular reference to agricultural entomology and the biology, ecology, and integrated control of arthropod pests of pears, apples, and walnuts.

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Further information supplied on request. Applicants Further information supplied on request. Applicants should send curriculum vitae, transcripts, names and addresses of at least three references, copies of publications, and letter stating research and teaching interests and brief description of how applicant expects to develop this research assignment to Professor Evert I. Schlinger, Chairman, Division of Entomology and Parasitology, 201 Wellman Hall, University of California, Berkeley, California 94720.

PHYSICAL OCEANOGRAPHER

The Chesapeake Bay Institute of The Johns Hopkins The Chesapeake Bay Institute of The Johns Hopkins University has a position available for a physical oceanographer. Applicants should have a Ph.D. or equivalent research experience and should be interested in working on estuarine problems, both practical and theoretical. The appointment will be for an initial period of 1 year beginning in the fall of 1975. Applicants should submit a curriculum vitae and the names of references to: The Director, Chesapeake Bay Institute, The Johns Hopkins University, Baltimore, Maryland 21218.

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POSITION AVAILABLE: Postdoctoral NIH-supported project on histocompatibility immune response genes in chickens. Ph.D. in genetics and immuno-biology. Starting I September or sooner. \$12,500. Con-tact Dr. S. A. Ewing, Department of Animal Science, 101 Kildee Hall, Iowa State University, Ames, Iowa 50010.

POSITIONS OPEN

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DEPARTMENT OF PHYSIOLOGY McGILL UNIVERSITY

Cell Membrane Biologist. Applications for an appointment at the rank of assistant professor are invited from individuals with postdoctoral experience in the study of cell-surface receptors at the molecular level. Duties include teaching receptors at the indictual reveil.

Duties include teaching receptor mechanisms to honours physiology, immunology, and neurophysiology students. Send applications with curriculum vitae and names of three referees to: Dr. J. Millic-Emili, Chairman, Department of Physiology, McGill University, 3655 Drummond Street, Montreal, Canada H3G 1Y6.

PHYSIOLOGIST—The Department of Physiology and Biophysics at the University of Alabama in Birmingham has available a position at the instructor level for individuals with the Ph.D. degree. The position is open to qualified individuals fulfilling the following criopen to qualified individuals fulfilling the following criteria. First, demonstration on the basis of publications that the individual has a good mathematical background and has the ability to apply mathematical modeling to biological transport systems. Second, the individual must have demonstrated outstanding experimental ability, and, finally, must have broad training in the area of mammalian physiology. Teaching duties involve teaching physiology and biophysics to dental, medical, optometry, and graduate students. Apply to the Department of Physiology and Biophysics, University Station, Birmingham, Alabama 35294. Send curriculum vitae and the names of three scientists for reference. An Equal Opportunity/Affirmative Action Employer. Expiration for receipt of applications: 15 July 1975.

CALIFORNIA INSTITUTE OF TECHNOLOGY

seeks candidates for a position in

PLANETARY SCIENCE

with emphasis on planetary surfaces or planetary at-mospheres, and on observational programs using spacecraft. Appointment preferably at the assistant professor level

Please contact Dr. B. Kamb, Chairman, Division of Geological and Planetary Sciences, California Institute of Technology, Pasadena, California 91125, giving résumé, bibliography, and research interests.

An Equal Opportunity Employer

POSTDOCTORAL FELLOW. Position available POSIDOCIORAL FELLOW. Position available starting 1 July 1975 for research in tumor immunology. Primarily focusing on the role of blocking antibody in both human and animal systems. Duration 2 to 3 years, salary \$11,000 to \$12,000. Send curriculum vitae and references to Dr. N. S. Harris, Chief, Transplant Immunology Division, Shriners Burns Institute, Galveston, Texas 77550.

POSTDOCTORAL FELLOW OR RESEARCH AS-SOCIATE: Microbiologist or biochemist with interest in polysaccharide chemistry, ultrastructure, or cell regulation mechanisms for research on prokaryotic developmental systems (myxobacteria and blue-greens). Salary \$8500 and possible teaching supplement. Curriculum vitae, reprints, and names of three references should be sent to: Dr. H. D. McCurdy, Head, Biology Department, University of Windsor, Windsor, Ontario, Canada.

MEDICAL BIOSTATISTICIAN

The Medical Research Division of CIBA-GEIGY has an opening for a Medical Biostatistician who will serve as a consultant in the design and analysis of clinical studies, evaluating new pharmaceutical agents. A Ph.D. in biostatistics is preferred; however, applicants with a Master's degree will be considered. The individual we are seeking must be capable of overseeing projects through, from start to finish. The nature of the work will be allinclusive—i.e. Experimental Design, Development of Case Reporting Forms, Evaluating Data and Preparation of Reports summarizing the results of clinical studies. In addition, this individual will be expected to become proficient in research methodology as it applies to clinical research and keep abreast of new statistical techniques applicable to medical investigation.

This position offers broad professional and personal growth potential in the area of clinical research. Compensation will be based on education and background.

For prompt, confidential consideration, please send detailed resume including present and desired salary information to: Mr. C. R. Grupe, The Pharmaceuticals Division of CIBA-GEIGY Corporation, 556 Morris Avenue, Summit, New Jersey 07901. We are an equal opportunity employer/male and female.

CIBA—GEIGY

NOTICE

ESTABLISHMENT OF A SOLAR ENERGY RESEARCH INSTITUTE

Section 10 of the Solar Energy Research, Development, and Demonstration Act of 1974 (42 USC 5559 of Public Law 93-473) calls for the establishment of a Solar Energy Research Institute by the Energy Research and Development Administration. To assist it in carrying out this mandate, ERDA has sought advice from the National Academy of Sciences.

A committee appointed by the Academy is considering the criteria that should govern the physical nature, organization, funding, staffing, management, and choice of location(s) of a Solar Energy Research Institute, and its relationship with kindred government and non-government organizations and programs. The committee will not select the location of the Institute or any components thereof.

To facilitate its work, the committee invites interested organizations and others with appropriate competence to submit their written views on several specific issues, a list of which is available upon request. Respondents should also include a brief statement indicating the nature and extent of their involvement in the field of solar energy. For convenience, the field is divided into six categories: heating / cooling of buildings; solar thermal; wind energy; bioconversion; photovoltaic; ocean thermal.

Submissions should reach the committee no later than July 15.

Address all correspondence to

Executive Secretary Solar Energy Research Institute Committee National Research Council 2101 Constitution Avenue, N.W. Washington, D.C. 20418

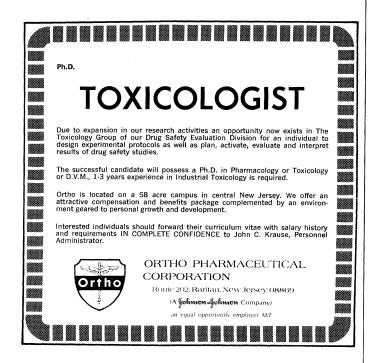


IMAGE ANALYSIS

Applications are invited for a senior position in a group performing both research and applied activities in computerized image analysis. Applicants should have a broad grasp of many aspects of image analysis, including classical enhancement and restoration, data extraction and pattern recognition. These qualifications will be judged by publications and by professional activities. This person will be involved in research and in applications of image analysis to applied problems. Supplementally this person will help maintain close professional ties with other centers of image analysis research and will assist in the preparation of funding proposals.

Please send complete resume or request application from:

R. Lynn Wilson,
Recruiting Supervisor
Division 75-AN
Los Alamos Scientific
Laboratory
P. O. Box 1663
Los Alamos, New Mexico 87544



AN AFFIRMATIVE ACTION/EQUAL OPPORTUNITY EMPLOYER
UNITED STATES CITIZENSHIP REQUIRED

POSITIONS OPEN

POSTDOCTORAL FELLOWS (two): one fellow will participate in the study of dynamics and natural distribution of hydrocarbons in Alaskan marine waters. Exbutton of hydrocarbons in Alaskan marine waters. Experience in the operation and care of gas chromatograph—mass spectrometer/mass spectrometer/computer system highly desirable. One fellow will participate in the study of the chronic chemical biological effects of Alaskan oil seeps. Experience in gas chromatographic analysis of petroleum hydrocarbons is desirable. Send résumé and names of three references to Dr. D. G. Shaw, Institute of Marine Science, University of Alaska, Fairbanks, Alaska 99701.

The University of Alaska is an Equal Opportunity,

Affirmative Action Employer

POSTDOCTORAL POSITION available starting POSITION available starting september in an established program on insect-microbial interactions. Possible areas of investigation are: microbial transformations of pheromones, insect pheromone biosynthesis, insect tissue culture, microbemicrobe interactions in the insect gut. Applicants should have a strong background in chemistry and/or biochemistry. Some experience in microbiology or entomology would be advantageous. Send carriculum tomology would be advantageous. Send curriculum vitae and references to: J. M. Brand or A. J. Markovetz, Department of Microbiology, University of Iowa, Iowa City, Iowa 52242.

POSTDOCTORAL POSITION available for studies on glucocorticoid mechanisms and receptors in normal and abnormal lymphocytes. Biochemical background and/or previous experience in this or related areas is desirable. Salary for first year is \$10,000. Applicants should submit a curriculum vitae and have two letters of recommendation sent to Professor Allan Munck, Department of Physiology, Dartmouth Medical School, Hanover, N.H. 03755. An Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL RESEARCH ASSOCIATE Available immediately for recent Ph.D. in Biochemis-try, Microbiology, or Molecular Biology. Starting sal-ary \$10,000 per year. Research on histone lysine transmethylases in normal and neoplastic tissues. Send curriculum vitae and letters of recommendation to Dr. John A. Duerre, Microbiology Department, University of North Dakota, Grand Forks, N.D. 58202.

POSTDOCTORATE—ORGANIC CHEMISTRY POSTDOCTORATE—ORGANIC CHEMISTRY Postdoctoral position available involving synthesis of novel polypeptide hormone analogs. Strong organic synthetic background (plus NMR) desirable. High motivation essential. Louisville, Kentucky, offers stimulating environment, culture, thoroughbreds, limestone, and so forth. Begin 1 July 1975. Please send résumé, graduate transcript(s), and letters of recommendation to: Dr. Arno F. Spatola, Department of Chemistry, University of Louisville, Louisville, Kentucky 40208. An Equal Opportunity/Affirmative Action Employer.

Washington University, St. Louis POSTDOCTORAL RESEARCH IN CELL BIOLOGY

Several positions are available with a multi-disciplinary group interested in fundamental aspects of the lysosome-vacuolar apparatus. These include enzyme uptake and secretion by various cell types, enzyme replacement in lysosomal storage diseases, immunological aspects of gene produce replacement therapy, and secretion of serum proteins with emphasis on intracellular precursors. Salary is negotiable. M.D. or Ph.D. required. Contact Dr. William Sly, Division of Medical Genetics, or Dr. Philip Stahl, Department of Physiology, Box 8102, Washington University Medical School, 660 South Euclid Avenue, St. Louis, Missouri 63110. An Equal Opportunity Employer.

POSTDOCTORAL TRAINEESHIP available for studies on factors controlling growth of plasma cell tumors in cultures. Stipend range: \$10,000 to \$12,000 plus benefits. Send curriculum vitae to Dr. V. P. Holander, Director, Research Institute, Hospital for Joint Diseases, 1919 Madison Ave., New York, N.Y. 10035. An Equal Opportunity Employer.

PRESIDENT-UNIVERSITY CONSORTIUM. The Universities Space Research Association, a national consortium engaged in activities related to space re-search, seeks candidates for a part-time position as search, seeks candidates for a part-time position as President. Established reputation in space sciences or closely related field necessary. Successful applicant could continue existing university appointment on part-time basis. Send credentials to USRA, P.O. Box 5127, Charlottesville, Virginia 22903.

An Equal Opportunity Employer

POSITIONS OPEN

PHYSIOLOGIST, REPRODUCTIVE BIOLOGIST, OR BIOCHEMIST

Ph.D. to work as postdoctoral fellow or research assistant to investigate epididymal physiology, blood testis barrier in established micropuncture laboratory. Funds available now through May 1978. Training in reproductive physiology/biology or membrane physiology or renal physiology desirable. Needs no micropuncture experience.

Send curriculum vitae and references to: Dr. Stuart S. Howards, University of Virginia Hospital, Box 236, Charlottesville, Virginia 22901.

PROFESSOR OF BIOSTATISTICS—to teach and direct research in biostatistical methods within the Department of Preventive Medicine and Environmental Health of the University of Iowa Medical School. This is a professional academic appointment in which estab-lished teaching and research abilities and interest in ap-plied biometrics will be important qualifications. Ap-plicants must have doctorate in Biostatistics or a closely related field, and must have demonstrated abilclosely related field, and must have demonstrated ability to prepare students for careers in Biostatistics. Consultations with clinical investigators in various medical school departments are important functions of the Biostatistical staff. Salary will be commensurate with qualifications and responsibilities. The University of Iowa is an Equal Opportunity Employer. Direct inquiries and submit curriculum vitae by 1 September 1975 to: D. P. Morgan, Department of Preventive Medicine and Environmental Health, University of Iowa School of Medicine, Iowa City, Iowa 52240. Telephone: 319-353-5558.

A position at the Research Associate level is available in the Lunar and Planetary Laboratory at the University of Arizona. The applicant should have a doctorate in planetary sciences with experience in geological rate in planetary sciences with experience in geological studies of planetary surfaces. A familiarity with space-craft imagery of lunar and planetary surfaces is essential. The research involves geological mapping and tectonic and cratering studies of planetary surfaces, particularly Mercury. Applicants should send their résumé by 15 July to R. G. Strom, Lunar and Planetary Laboratory, University of Arizona, Tucson, Arizona 85721. The University of Arizona is an Equal Opportunity Employer.

RESEARCH ASSOCIATES (1- to 3-year positions). Two positions available in September 1975. One for biochemist interested in research in protein biosynthesis mechanism and one for organic chemist with experience in nucleoside or carbohydrate chemistry. Salaries commensurate with applicant's experience. Send résumé to: Dr. S. Chladek, Michigan Cancer Foundation, 110 East Warren, Detroit, Michigan 48201.

RESEARCH ASSOCIATE—IMMUNOCHEMIST: A position is available for a Ph.D. or M.Sc. with experience who would be directly involved in isolation and characterization of microbial antigens and lymphocyte characterization of microbial antigens and lymphocyte membrane components. Previous experience in immunochemical techniques and glycoprotein chemistry is preferable. Applicants should submit curriculum vitae and references to Dr. V. J. Iacono, Department of Periodontics, State University of New York at Stony Brook, Stony Brook, New York 11794. An Equal Opportunity/Affirmative Action Employer.

FACULTY POSITION IN WILDLAND FIRE MANAGEMENT. Salary: Position is to be on an 11-month basis with title and salary commensurate with experience. Duties: Teach upper division and graduate courses and do research dealing broadly with wildland fire behavior and management, including fuels management and the concepts of fire detection, suppression, and use. The appointment is to be approximately evenly divided between teaching and research. Share academic and administrative duties with the other faculty by serving on faculty and student committees. Qualifications: The applicant must hold a Ph.D. degree. Areas of expertise may include a firm foundation in wildland management, concepts and methods, and an understanding of wildland ecology, computer modeling, and optimization techniques. The candidate should also have knowledge of, and interest in, fire as a field of research. Date: The position is available to be filled as soon as the appointee is available. Applications will be accepted until 1 September 1975. Applications: Applicants should forward a letter of application, together with transcripts, copies of any publications, and names of three references to: Professor Lee C. Wensel, Department of Forestry and Resource Management, University of California, Berkeley, California 94720. The applicant should have letters of reference sent directly to the above address.

POSITIONS OPEN

SCIENTIST (one) to join active Rehabilitation Service at a major university medical center in New York City at a major university medical center in New York City with established reputation in temperature regulation, circulatory and exercise physiology. Equipped with temperature control rooms, support laboratories, and sizable amount of equipment. Experience in these areas of physiology desirable and interest in possible cardiovascular rehabilitation preferred. Academic appointment and salary commensurate with education and experience. Possible joint appointment with appropriate basic science department. Write to, Lohn and the control of the cont and experience. Possible joint appointment with appropriate basic science department. Write to: John A. Downey, M.D., Chairman, Department of Rehabilitation Medicine, Columbia – Presbyterian Medical Center, 630 West 168 St., New York, N.Y. 10032. An Equal Opportunity Employer.

STAFF DIRECTOR

The Assembly of Life Sciences of the National Academy of Sciences-National Research Council is seeking a staff director for the staff of its Committee on Prosthetics Research and Development.

Candidates should be professionals from the fields of medicine and/or engineering, preferably having extensive experience in the rehabilitation of disabled persive experience in the rehabilitation of disabled persons. Substantial management and leadership experience in academic, government, health care, or industrial organizations is required. Experience with laboratory and clinical evaluations, negotiations with government agencies, and familiarity with grant proposal review processes is desirable.

Inquiries should be addressed to Dr. Artemis P. Simopoulos, Executive Secretary, Division of Medical Sciences, Assembly of Life Sciences, National Academy of Sciences, 2101 Constitution Avenue, NW, Washington, D.C. 20418.

An Equal Opportunity Employer

THEORETICAL ECOLOGIST, 1-year appointment at the assistant professor or lecturer level beginning September 1975. Responsibilities will include the teaching of a graduate-level biometry course in the fall and participation in a mathematical ecology course in the spring. Send résumé and three letters of recommendation to: Dr. F. James Rohlf, Acting Chairman, Department of Ecology and Evolution, State University of New York at Stony Brook, Stony Brook, New York 11794.

An Equal Opportunity/Affirmative Action Employer

TUMOR BIOLOGIST

Applications are invited from interested persons for Applications are invited from interested persons for a faculty position available on or about 1 January 1976 in the Joint Center for Radiation Therapy, Department of Radiation Therapy, Harvard Medical School.

Applicants should be conversant with the biology of transplantable animal tumors, cell kinetics, cell and tis-

transplantable alimat (units), cell whethers, cell and us-sue radiation biology, and assay methods for measur-ing the effects of radiation and/or chemotherapeutic agents on tumor responses. There is ample opportunity for close collaboration and interaction with active re-search groups in bone marrow stem cell kinetics and

search groups in one matrow stem cen amount of cell radiation biology.

Teaching responsibilities include medical students, residents in radiation therapy, hospital house staff, and direction of the research of graduate students and post-doctoral fellows. Ample research facilities, including animal quarters, are available. Faculty appointment and salary will be commensurate with qualifications and experience. A Ph.D. or M.D. degree is required. Send curriculum vitae and names of three references

to:

James A. Belli, M.D. James A. Belli, M.D.
Joint Center for Radiation Therapy
Department of Radiation Therapy
Harvard Medical School
50 Binney Street
Boston, Mass. 02115

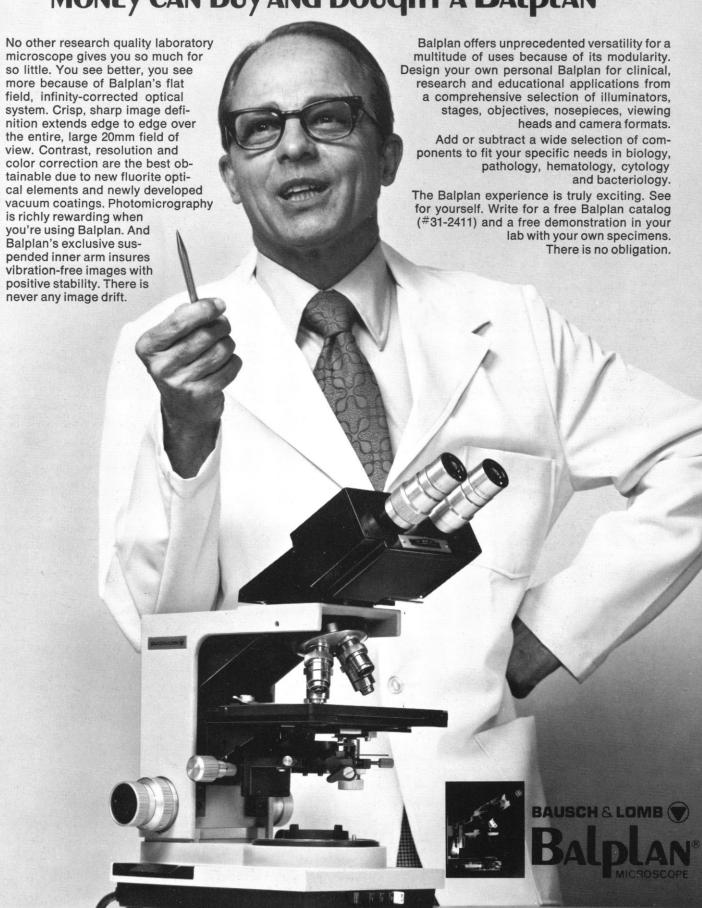
Harvard University is an Equal Opportunity and Affirmative Action Employer.

ZOOLOGIST/ECOLOGIST

Temporary position for academic year 1975-76, assistant professor rank, for Ph.D. with preferred specialization in systems or population ecology, to begin 24 August 1975. Expected to teach courses in vertebrate August 1975. Expected to teach courses in vertebrate natural history, ornithology, and animal behavior and to participate in general biology. To be considered, applications must be submitted by 10 July 1975. Previous applications for temporary position for 1974-75 academic year may be reconsidered. Send curriculum vitae and three reference letters to Dr. J. A. Sealander, Chairman, Search Committee, Department of Zoology, University of Arkansas, Fayetteville, Ark. 72701.

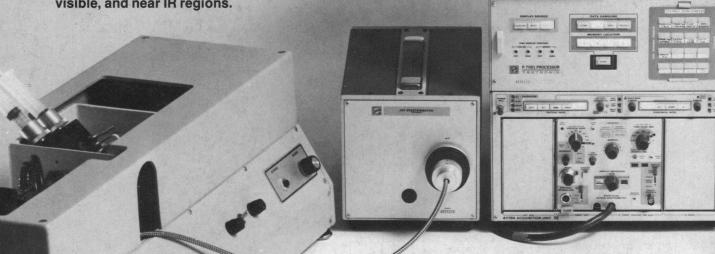
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"I looked at the best microscopes money can buy and bought a Balplan""





With the TEKTRONIX 7J20-RSS, it is now possible to record the entire absorption spectra of stopped-flow experiments in real time from 250 nm or less in the UV region to 1100 nm in the near IR. This allows you to observe the kinetic spectra of enzyme reactions, including intermediates and spectral changes; test quantitative data to fit kinetic equations; analyze standard reactions for perturbations; and perform many other procedures that require information from the UV, visible, and near IR regions.



The 7J20-RSS has two gratings. One gives you a 400-nm spectral window with 4-nm resolution. The other, blazed especially for the ultraviolet region, gives you a 200-nm window with a resolution of 2 nm. This grating, in combination with the proper light sources, enhances the performance of the instrument in the ultraviolet. The 7J20-RSS measures absorption spectra from 250 nm to 1100 nm in units of absorbance or transmittance, and displays the spectra as rapidly as it scans them (400 nm as fast as 4 ms).

For complex analyses of spectral data, the 7J20-RSS can be used with a Digital Processing Oscilloscope, which provides software-controlled data acquisition, processing, and analysis. The processor acquires the information, and the controller stores it,

as rapidly as the spectra are scanned. The controller calculates the absorption spectra and further analyzes the kinetic data. The results may then be displayed on the crt or a graphic terminal, or recorded as hard copy.

The 7J20-RSS will easily interface with commercial or custom-made stopped-flow kinetics instruments. But chemical kinetics is only one of its possible uses in the chemist's lab. The 7J20-RSS can also help you perform absorption or luminescence spectroscopy or measure the spectral characteristics of virtually any light source in your laboratory.

For a demonstration or application assistance, contact your nearest Tektronix Field Office or Analytical Instruments

Marketing, (503) 644-0161, ext. 7505. For complete information, write Tektronix, Inc., P.O. Box 500, Beaverton, Oregon 97077.

