ACADEMIC DEAN

The position is that of chief academic officer. Duties include responsibilities for curriculum, budget, and securing and maintaining a quality faculty. A candidate should hold a health professions or other appropriate doctorate, have teaching and/or scholarly background, and have demonstrated administrative ability. Application closing date is 8 May 1978. Send applications, accompanied by résumé, to: Dean's Search Committee, Ohio College of Podiatric Medicine, University Circle, Cleveland, Ohio 44106.

A Equal Opportunity Employer

ACADEMIC POSITION IN WILDLIFE RESOURCE PLANNING

Instruction and research in land-use planning, decision-making, and economics of wildlife including their habitats and associated resources. Half-time teaching and advising of undergraduates and graduates; half-time research. Ph.D. required with one degree or significant coursework in wildlife or verte-brate ecology; other degrees or experience in landuse planning or economic analysis; familiarity with current quantitative techniques in statistics or modcurrent quantitative techniques in statistics or modeling. Postdoctoral experience preferred. Appointment as tenure-track assistant professor or contract associate professor. Twelve-month appointment with 1-month vacation; competitive salary. Deadline for applications: 1 June 1978. Submit résumé, official transcripts, and three letters of recommendation to: Dr. M. W. Weller, Professor and Head, Department of Entomology, Fisheries, and Wildlife, 219 Hodson Hall, 1980 Folwell Avenue, University of Minnesota, St. Paul, Minn. 55108. The University of Minnesota, is an Equal Opportunity Educator and Empessata is an Equal Opportunity Educator and Emnesota is an Equal Opportunity Educator and Em-

ANATOMIST. Applications are invited for a tenure-ANATOMIST. Applications are invited for a tenure-track position at the assistant or associate professor level, available beginning 1 July 1978. Teaching re-sponsibilities will be in medical/dental histology and/ or developmental biology. Applicants should have postdoctoral research experience in cell and molecu-lar aspects of development. The individual should have a strong interdisciplinary research program in cell and reproductive biology, involving electron mi-croscopy, EM cytochemistry, and correlated bio-chemical approaches. Applicants should send cur-riculum vitae, a description of current research, perriculum vitae, a description of current research, per-tinent reprints, and have three letters of recommendation forwarded to: Charles E. Blevins, Ph.D., Department of Anatomy, Indiana University School of Medicine, Indianapolis, Indiana 46202. An Affirmative Action/Equal Opportunity Employer.

ANATOMIST/HISTOLOGIST with competence in ANATOMIST/HISTOLOGIST with competence in microtechniques. Assistant professor with major responsibilities in human anatomy and physiology, plus electives in field of interest and active research program. Available September 1978. Must have Ph.D. Applicants send curriculum vitae, transcripts. and three letters of recommendation by 15 May 1978 to: Dr. Alexander P. Spence, Chairman, Department of Biological Sciences, State University of New York, Cortland, N.Y. 13045. An Affirmative Action/Equal Opportunity Employer.

ASSISTANT PROFESSOR. Applicant must have a Ph.D. in pharmacology, toxicology, or equivalent, and/or M.D. with experience or special interest in clinical aspects of pharmacology. Must be capable of teaching at undergraduate and graduate levels. An active interest in research is essential. Send curricularity. active interest in research is essential. Send curricu-lum vitae and references by 31 May 1978, to: Dr. John J. DeFeo, Chairman, Department of Pharmacology and Toxicology, College of Pharmacy, University of Rhode Island, Kingston, R.I. 02881. Affirmative Action/Equal Opportunity Employer.

UNIVERSITY OF CALIFORNIA, DAVIS. ASSIST-ANT PROFESSOR to carry out fundamental and mission-oriented research on the physiological genetics of stress phenomena as related to the improvement of turfgrasses and to teach an under-graduate course in environmental horticulture and a graduate course in environmental horticulture and a graduate course in environmental plant breeding or physiological genetics of crop plants. Teaching, 35 percent, research, 65 percent, on a 12-month basis. Minimum requirements are a Ph.D. in a pertinent discipline, capacity for original, independent research, and ability to teach at graduate and undergraduate level. Position available 1 September 1978. Applicants should submit resumé transcripts and Applicants should submit résumé, transcripts, and three letters of reference to: Dr. James A. Harding, Department of Environmental Horticulture, University of California, Davis, Calif. 95616, prior to 15 June 1978. University of California is an Equal Opportunity/Affirmative Action Employer.

POSITIONS OPEN

University of South Carolina ANIMAL CARE DIRECTOR

Position opens 1 July 1978 for Director of Animal Care and Animal Research Facilities. Appointment in School of Medicine. University-wide responsibilities for all laboratory research animals and overall supervision of animal care staff. D.V.M. degree and research animal experience essential. Further information available upon request. Send detailed personal résumé and three letters of reference to: Dr. Wallace D. Dawson, Chairman, Search Committee, Department of Biology, University of South Carolina, Columbia, S.C. 29208. Closing date for receipt of applications is 1 May 1978.

Affirmative Action/Equal Opportunity Employer

ASSISTANT IN PATHOLOGY

Flow cytofluorometry studies. M.S. degree and cell biology experience required. Send curriculum vitae and three references to: Dr. Raul C. Braylan, Department of Pathology, Box J-275, University of Florida, Gainesville, Florida 32610. Position available at the end of April.

An Equal Opportunity Employer

GEOSCIENCE DEPARTMENT Hobart and William Smith Colleges

ASSISTANT PROFESSOR. Applications are invited for a faculty position to teach at the undergraduate level. Applicants should have the Ph.D. with a spelevel. Applicants should have the Ph.D. with a spe-cialization in mineralogy, petrology, or structural ge-ology, which will be the primary teaching responsi-bilities of the position. The successful applicant will be expected to initiate and develop research probe expected to initiate and develop research programs and also to participate in the colleges' general curriculum which incorporate undergraduate participation. The position will exist for 4 years and will be reviewed in the third for extension. Submit résumés and references to: W. F. Ahrnsbrak, Chairman, Geoscience Department, Hobart and William Smith Colleges, Geneva, New York 14456; or see Ahrnsbrak at AGU Miami meeting.

These colleges are an Equal Opportunity Employer

ASSISTANT PROFESSOR, ANIMAL SCIENCES—CELL BIOLOGY AND ELECTRON MICROS-COPY, to begin 1 July 1978. Teach graduate course in advanced animal cell biology; teach course in techniques of electron microscopy; cooperate in su-pervision of the electron microscopy facility; con-duct own research program as well as collaborate with other department members. Qualifications: minimum of Ph.D. required; postdoctoral experiminimum of Ph.D. required; postdoctoral experience highly desirable; experience in animal cell biology and electron microscopy essential; background and interest in animal science field desirable. Send letter and résumé by 30 April 1978 to: Dr. W. C. Skoglund, Chairman, Department of Animal Sciences, Kendall Hall, University of New Hampshire, Durham, N.H. 03824. The University is an Affirmative Action/Equal Opportunity Employer.

The Astronomy Department of the University of Minnesota invites applications for a tenure-track AS-SISTANT PROFESSOR position to start in fall 1978. Astronomers with proficiency in aperture synthesis radio interferometry and an interest in using the V.L.A. are especially encouraged to apply. Post-doctoral experience is expected. Applicants are asked to submit their curriculum vitae and to have asked to submit their curriculum vitae and to have three letters of recommendation sent to: Dr. Edward P. Ney, Chairman, Astronomy Department, University of Minnesota, School of Physics and Astronomy, 116 Church Street, SE, Minneapolis, Minnesota 55455. The deadline for receipt of applications is 15 May 1978. The University of Minnesota is an Equal Opportunity Educator and Employer.

ASSISTANT PROFESSOR OF MEDICINAL CHEMISTRY

Position available July 1978 for a person with training in analytical chemistry and with background and interests in analytical techniques applied to drug-related biomedical problems. Ph.D. required; postdoctoral experience desirable. Undergraduate teaching of medicinal chemistry; graduate teaching in applications of analytical techniques. Research program required. Funding guaranteed for 2 years with intent to make this position permanent. Send résumé, transcripts, description of research interests, and three letters of reference to: W. L. Nelson, Department of Pharmaceutical Sciences, BG-20, University of Washington, Seattle, Wash. 98195. An Equal Opportunity/Affirmative Action Employer.

POSITIONS OPEN

ASSISTANT PROFESSOR, EXPERIMENTAL PA-ASSISTANT PROFESSOR, EXPERIMENTAL PATHOLOGIST. Applications are invited from persons having a background in basic pathological processes with a major investigative interest in the arterial wall, its biology and diseases. An M.D. or a Ph.D. in pathology or closely related discipline and at least several years of postdoctoral experience are required. Required also are significant training with and experience in the use of transmission and scanning electron microscopes. Capacity for and interest in management and innovative development of a modern fine structure center are required. Enthusiasm and competence in teaching graduate students asm and competence in teaching graduate students and professional students are essential. Desirable,

and professional students are essential. Desirable, but not essential, is a knowledge of connective tissue biochemistry and of cell culture methods.

Curriculum vitae, bibliography, and letters of reference should be sent by 15 May 1978, to: Earl P. Benditt, M.D., Professor and Chairman, Department of Pathology, SM-30, School of Medicine, University of Washington, Seattle, Wash. 98195.

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

ANTICIPATED POSITION: ASSISTANT PROFESSOR, HUMAN ANATOMY AND PHYSIOLOGY. Available 1978. The position involves teaching courses in the above areas, coordinating these courses with their associated laboratories and with the six university programs served by them. Contin-uing personal research and publication in an appropriately related field is expected. Doctorate required. Teaching and clinical experience desirable. Send curriculum vitae and names of three references to: Professor James Connor, New York University, SEHNAP, Science Education Program, Press Building, Room 52, 32 Washington Place, Washington Square, New York, N.Y. 10003. An Affirmative Action/Equal Opportunity Employer.

HARVARD UNIVERSITY ISTANT/ASSOCIATE PROFESSOR IN HUMAN DEVELOPMENT

Graduate School of Education, 1 September 1978 Graduate School of Education, 1 September 1978 opening, full-time faculty member; Ph.D. or Ed.D. required; primary research and teaching expertise in social development and children and television; strong background in developmental psychology, active interest in research, and proclivity for conducting research with direct relevance to practice and for drawing implications for practice from research. Responsibilities include teaching three courses a year, advising students, and serving on committees. Send curriculum vitae and preprints/reprints to: Dr. Gerald S. Lesser, Chair, Faculty Search Committee, HARVARD GRADUATE SCHOOL of EDUCATION, 13 Appian Way, Cambridge, Mass. 02138. An Affirmative Action/Equal Opportunity Employer.

ASSISTANT PROFESSOR OF MICROBIOLOGY

Applications are invited from individuals with a D.V.M., M.D., D.D.S, and/or Ph.D. degree and advanced training in immunology, nutrition, and parasitology. The successful candidate would assume primary responsibility for an active interdisciplinary research program concerned with acquired defense mechanisms against infection with *Trichinella spiral*is. The prospective appointee would also be expected to initiate new programs that would explore the influence of nutrition on host resistance to intestinal parasites. Approximately 20 percent of his/her effort would involve teaching service and administration of the prospective istrative activities. Teaching responsibilities include participation in immunology courses sponsored by the Department of Microbiology of the New York State College of Veterinary Medicine and development of new courses in immunoparasitology. Salary will be commensurate with ability and experience. Send curriculum vitae, personal bibliography, and references to: Dr. D. D. McGregor, Director, James A. Baker Institute for Animal Health, New York State College of Veterinary Medicine, Cornell University, Ithaca, N.Y. 14853. An Affirmative Action/Equal Operativity. Employer portunity Employer

ASSISTANT PROFESSOR OF PATHOLOGY—The candidate should be an academically trained pathologist and must be Board-certified in anatomic pathology. He/she must have had experience in teaching medical students and residents, as well as re-search experience resulting in several publications in reputable journals. Experience and interest in diagnostic electron microscopy is highly desired. Please apply to: Chairman, Pathology Department, Temple University School of Medicine, Philadelphia, Pa. 19140. An Equal Opportunity/Affirmative Action Employer.

PROFESSOR IN VEGETABLE ASSISTANT CROPS to conduct a genetical research program, preferably in the area of disease resistance and to preterately in the area of disease resistance and to supervise a cool season crop breeding program. Ph.D. required in genetics or plant breeding. Partici-pation in undergraduate teaching program. Available 1 July 1978. Application deadline: 15 May 1978. Send brief statement of teaching and research intersend orier statement of teaching and research inter-ests, curriculum vitae, transcripts, and three letters of recommendation to: Dr. R. A. Jones, Department of Vegetable Crops, University of California, Davis, Calif. 95616. The University of California is an Equal Opportunity/Affirmative Action Employer and accepts applications from all qualified individuals.

THE UNIVERSITY OF BRITISH COLUMBIA DEPARTMENT OF ZOOLOGY

Applications are invited for the position of assistant professor in the Department of Zoology, University of British Columbia. Qualifications include a Ph.D. in biology or a related field, with a demonstrated ability to teach introductory biometrics. The successful applicant will be expected to develop a strong experimental research programme in developmental biology, physiology, or evolutionary systematics. Upper-level undergraduate teaching, and graduate student teaching and supervision are required. Salary will be commensurate with experience and duties. Curriculum vitae and the names of three referees should be submitted to: Dr. G. G. E. Scudder, Head, Department of Zoology, University of Scudder, Head, Department of Zoology, University of British Columbia, 2075 Wesbrook Place, Vancouver, British Columbia, Canada V6T 1W5. The expected date of appointment is 1 July 1978, subject to budget the control of the properties of the proper ary approval. Closing date for application is when position is filled.

ASSISTANT RESEARCH NUTRITIONIST for De-ASSISTANT RESEARCH NOTRITIONIST for Department of Internal Medicine, Section of Gastroenterology, University of California, Davis. Requires M.D. or Ph.D. degree with previous postdoctoral experience in nutritional biochemistry and a broad knowledge of folate and zinc metabolism. Experience in microbiological and enzyme assays related to folate metabolism and in column chromatographic techniques for identification of folate metabolites necessary. An Equal Opportunity/Affirmative Action Employer. Send bibliography to: C. H. Halsted, M.D., Section of Gastroenterology, TB 192, University of California School of Medicine, Davis, Calif. 95616. Final filing: 30 May 1978.

ASSISTANT SCIENTIST in research laboratory ASSISTANT SCIENTIST in research laboratory studying physiology and pharmacology of fluid movement in the mammalian eye. Will investigate basic mechanisms, including the actions of hormones, cyclic nucleotides, and prostaglandins. Applicants should have a Ph.D. and preferably some postdoctoral experience in cell physiology and/or morphology. Previous experience in aqueous humor dynamics not required, but interest in career in eye research preferred. Send curriculum vitae and pertinent information to: tinent information to:

Arthur H. Neufeld, Ph.D.

Eye Research Institute of Retina Foundation 20 Staniford Street Boston, Mass. 02114

Equal Opportunity/Affirmative Action Employer, M/F

BINOCULAR VISION AND VISUAL PERCEP-TION—Temporary position available during the 1978–1979 academic year to teach binocular vision 19/8-19/9 academic year to teach binocular vision and/or visual perception in a professional optometry curriculum. May also involve some research or teaching graduate students in Ph.D. program in vision science. Rank and salary are open, depending on experience and qualifications. Application dead-line: 12 May 1978. Send curriculum vitae, including outline of teaching experience, to: Dean Yager, Chairman, Department of Behavioral Sciences, State University of New York-College of Optometry, 100 East 24 Street, New York, N.Y. 10010. Equal Opportunity/Affirmative Action Employer.

BIOCHEMISTRY POSTDOCTORAL POSITION is available immediately for biophysical studies dealing with either Fe transport and incorporation into porphyrin; H⁺, O₂, and anion uptake and release by reconstituted and intact erythrocytes or the interaction of heme with artificial phospholipid bilayers. Experience in rapid reaction techniques, membrane studies, heme chemistry, and/or ion transport is highly desirable. Send curriculum vitae and the names of three references to: Dr. John S. Olson, Department of Biochemistry, Rice University, Houston, Texas 77001. An Affirmative Action/Equal Opportunity Employer. **BIOCHEMISTRY POSTDOCTORAL POSITION** is

POSITIONS OPEN

Department of Internal Medicine, School of Medical Department of Internal Medicine, School of Medical Sciences, University of Nevada, Reno. Ph.D. BIO-CHEMIST. Academic rank according to qualifications; full-time; primarily university-based with possible Veterans Administration affiliation. Qualifications: Ph.D. in biochemistry; 3 years plus of postdoctoral experience; demonstrated ability for independent investigation and ability to obtain grant support; research interest primarily in gene regulation and cyclic nucleotide metabolism. Responsibilities: collaborate with other faculty of the Department of Medicine engaged in basic and clinical rement of Medicine engaged in basic and clinical re-search; teach a limited number of courses at the graduate and undergraduate levels. Closing date: 30 April 1978. Respond to: Paul R. Miller, M.D., School of Medical Sciences, University of Nevada, Reno, Nevada 89557. Telephone: 702-784-4816. Affirmative Action/Equal Opportunity Employer.

BIOCHEMISTRY FACULTY MEMBER

Texas A & M University College of Medicine has a faculty opening in the Department of Medical Biochemistry which can be filled at the assistant, associate, or full professor level. Candidates should have Ph.D. or M.D. and postdoctoral or faculty research experience. Senior-position candidates should have experience: sentor-position candidates should have an ongoing funded research program in a medically relevant area, experience teaching medical students, and exposure to clinical medicine. Duties will in-clude research, course development, and teaching medical students in a new VA-related College of Medicine. Previous applications remain on file and need not be resubmitted. Send complete curriculum vitae to: Search Committee, Department of Medical Biochemistry, College of Medicine, Texas A & M Uni-versity, 110 Herman Heep Building, College Station, Texas 77843.

Equal Employment Opportunity Through Affirmative Action

BIOLOGY FACULTY POSITION

One full-time appointment. Instructor, assistant, or associate professor rank, dependent upon qualifica-tions. Must be qualified to teach microbiology/cell tions. Must be qualified to teach microbiology/cell biology and general biology. College teaching experience in microbiology, cell biology, and general biology desired. Candidate for professorial rank should demonstrate an interest in developing and supervising undergraduate research. Ph.D. required for professional ranks, ABD required for instructor. Minimum salary: \$11,000, instructor; \$12,000, assistant professor; and \$16,000, associate professor. Starting date: 1 September 1978. Applications by: 8 May 1978. Contract length: 1 year initial appointment. Send résumés to: Search Committee, Box BS, State University of New York-College at Old Westbury, Box 210, Old Westbury, New York 11568. An Equal Opportunity/Affirmative Action Employer. This position is tentative pending approval of the New York State Division of the Budget for the academic year 1978–1979. demic year 1978-1979.

BIOLOGICAL OCEANOGRAPHER ASSOCIATE OR ADVANCED ASSISTANT PROFESSOR

A 12-month tenure-track position for a biological oceanographer will become available at North Carolina State University (NCSU) on or after 1 July 1978. We are searching for a plankton dynamicist who has postdoctoral experience and expertise in modeling, postdoctoral experience and expertise in modeling, and who is interested in becoming involved in a growing multidisciplinary program of graduate training and research. Send application, curriculum vitae, and three letters of reference to: Dr. Thomas G. Wolcott, Chairman, Biological Oceanography Search Committee, Center for Marine and Coastal Studies, North Carolina State University, Raleigh, North Carolina 27650. Applications will be considered until 5 May 1978. NCSU is an Equal Opportunity/Affirmative Action Employer.

BIOLOGY DEPARTMENT. A 1-year sabbatical leave replacement position will be available 1 September 1978. Primary teaching duties will consist of tember 1978. Primary teaching duties will consist of general biology and one course in biometry or plant ecology. Doctorate in botany with training in plant physiology required. Preference will be given to candidates with additional specialization in biometrics and/or physiological ecology. Rank and salary dependent upon qualifications and experience. Interested candidates should reply by 1 May 1978 to: Dr. Albert C. Hoffman, Search Committee Chairperson, Biology Department, Millersville State College, Millersville, Pa. 17551. Millersville State College is an Equal Opportunity/Affirmative Action/Title IX Employer.

POSITIONS OPEN

BIOLOGIST. Competent in genetics and able to teach introductory and advanced courses. Ph.D., teaching experience, and interdisciplinary orientation preferred. Position open fall 1978. Application deadline 22 April. Salary range: \$11,800 to \$13,500. Rank: instructor or assistant professor. Write: Academic Dean, Immaculate Heart College, 2021 North Western Avenue, Los Angeles, Calif. 90027. An Affirmative Action/Equal Opportunity Employer.

BIOLOGY. Position available beginning September 1978. One-year appointment with good possibility of permanent position. Teaching responsibilities in areas of microbiology, genetics, and introductory biology. areas of microbiology, genetics, and introductory biology. Ph.D. necessary. Salary and rank open depending upon qualifications and teaching experience. Send complete résumé, including transcripts and three letters of recommendation, to: Chairman, Department of Biology, Birmingham-Southern College, Birmingham, Alabama 35204.

An Equal Opportunity/Affirmative Action Employer

CELL PHYSIOLOGIST University of Colorado School of Medicine

The Department of Physiology has an opening at the assistant professor level. Appointee will be expected to maintain an active research program in cell physiology and to teach medical students and dental students. dents in a related area of organ system physiology. Candidates preferred with an interest in endocrine cell function, membrane transport in epithelial or other cells, properties of excitable membranes, other cells, properties of excitable membranes, neurobiology or cell morphology related to function. Minimum of 2 years of postdoctoral experience desirable. Starting date: 1 July 1978, or later. Submit curriculum vitae, including details of teaching experience, statement of research plans, and names of three referees to: Dr. A. R. Martin, Chairman, Department of Physiology, C240, University of Colorado Medical Center, Denver, Colorado 80262. The University of Colorado is an Equal Opportunity Employeer.

CHAIRPERSON, MEDICAL TECHNOLOGY DEPARTMENT

Duties include administration of a new medical Duties include administration of a new medical technology program, teaching, and student counseling, MT(ASCP) certification or equivalent required. Master's degree applicants with exceptional experience considered, but doctoral degree preferred. Minimum of 5 years of academic/clinical experience required; academic experience in teaching and administration desirable. Salary and academic rank negotiable and dependent upon qualifications. Position is available immediately: closing date for receipt of is available immediately; closing date for receipt of letters of interest is 30 April 1978. Write for an application to: Dr. Sidney Rodenberg, Dean, College of Health Related Professions, Wichita State University, Wichita, Kansas 67208. An Affirmative Action Em-

CHAIRPERSON OF MICROBIOLOGY. Applicants CHAIRPERSON OF MICROBIOLOGY. Applicants are sought to assure the widest possible search for the chairperson of the Department of Microbiology, Health Sciences Center, State University of New York at Stony Brook. Qualifications include a record fleadership in research, with the ability to organize departmental teaching at medical school, predoctoral, and postdoctoral levels, and to oversee administration of setting departmental records have doctoral, and postdoctoral levels, and to oversee administration of active departmental research programs. Inquiries should be addressed to: Aaron Janoff, Ph.D., Chairman, Microbiology Search Committee, Department of Pathology, Health Sciences Center, State University of New York at Stony Brook, Stony Brook, New York 11794. Equal Opportunity/Affirmative Action Employer.

CHAIRPERSON DEPARTMENT OF PATHOLOGY

St. Louis University School of Medicine is searching for a well-qualified academician to serve as chairperson of its Department of Paserve as chairperson of its Department of Pathology. The departmental complement includes experimental and clinical pathologists. Several new positions available. Research, teaching, and administrative experience and Board-certification in pathology are minimum requirements. Please send curriculum vitae and three letters of recommendation to: R. E. Olson, Chairperson of Search Committee, c'o Personnel Services, St. Louis University Medical Center, 3556 Caroline Street, St. Louis, Missouri 63104.

Equal Opportunity Employer, M/F/Handicapped

CHAIRPERSON, DEPARTMENT OF ANATO-MY—Position open at the University of Massachusetts Medical School. Applications from women and minority groups are especially encouraged. Send curriculum vitae and list of publications to: Dr. G. Majno, Chairman, Anatomy Search Committee, University of Massachusetts Medical School, Department of Pathology, 55 Lake Avenue North, Worcester, Mass. 01605. An Affirmative Action/Equal Opportunity Employer.

CHAIRMAN DEPARTMENT OF BIOLOGICAL CHEMISTRY UCLA SCHOOL OF MEDICINE

The University of California, Los Angeles (UCLA), School of Medicine is seeking a chairman for the Department of Biological Chemistry. The position will be open on 1 July 1979.

Nominations and applications are invited. Please address them to:

Daniel Atkinson, Chairman
Biological Chemistry Search Committee
Department of Chemistry
University of California at Los Angeles
Los Angeles, California 90024

UCLA is an Equal Opportunity/Affirmative Action Employer. UCLA encourages minority and women candidates to apply.

UNIVERSITY OF PETROLEUM AND MINERALS DHAHRAN, SAUDI ARABIA

Position available for COMPUTER TECHNICIAN. Some experience working in a small animal laboratory (preferably a psychology operant conditioning laboratory) essential. Salary dependent on qualifications. Please send résumé to:

Dr. Abdul Aziz Al-Dukhayyil Dean of Faculty and Personnel Affairs University of Petroleum and Minerals Dhahran, Saudi Arabia

DEVELOPMENTAL BIOLOGIST. A tenure-track appointment for fall 1978 at the assistant professor level in the area of the molecular, cellular, or genetic aspects of development is expected. Candidates should show exceptional aptitude for and commitment to teaching, and a promise of high research achievement. Interested persons should send curriculum vitae, names of references, and copies of publications to: Dr. Frank C. Erk, Chairman, Department of Biology, State University of New York at Stony Brook, Stony Brook, New York 11794. 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 programs of the institution as well as various other functions associated with a research program involving both basic and disease-oriented activities.

ILRAD's mandate is to develop effective control methods for trypanosomiasis and theileriasis, 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 multidisciplinary research activities leading to the development of immunologic or related control procedures. The ILRAD head-quarters is in Nairobi, Kenya, and is a modern research complex.

ern 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: 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.

Director

Argonne National Laboratory

The University of Chicago invites applications and nominations for the Director of Argonne National Laboratory. The Laboratory is one of the Department of Energy's multi-purpose laboratories, operated by the University, and Argonne Universities Association, a consortium of thirty midwestern universities.

The main site of the Laboratory is located 27 miles southwest of Chicago and has a staff of 4,300. A second site, with a staff of 750, is maintained at the Idaho National Engineering Laboratory, 40 miles west of Idaho Falls. The Laboratory serves as a major center for energy research and development and carries out broad programs of fundamental research in the physical, biomedical, and environmental sciences.

The Director will be expected to have an earned doctorate in one of the disciplines of the Laboratory, and should have demonstrated leadership and skill in the administration of research and development, including interactions with agencies of the Federal government.

Nominations and applications should include a resume and the names of at least three references and should be submitted to the address below no later than April 30, 1978. It is expected that the Director will assume the position on October 1, 1978.

Cedric L. Chernick, Vice President, The University of Chicago 5801 Ellis Avenue, Chicago, Illinois 60637

Candidates will be considered on the basis of merit, and without regard to race, color, creed, sex, national origin, or handicap.

ASSISTANT SCIENTIST

The Department of Ocean Engineering invites applications for the position of Assistant Scientist. Candidates should have a PhD in engineering or physics and are expected to have a background in one of the following areas: wave propagation, signal and data processing, underwater acoustics, and communication theory. Individuals will perform research in sound propagation in the ocean and sea floor. The present Woods Hole research program emphasises both experimental and theoretical studies and includes an active sea-going effort. At the present time research is being conducted in long-range sound propagation, sound interaction with the sea floor, high frequency acoustic echo-sounding and acoustic data telemetry. Two months at sea during the course of a year is not unusual.

Send resume to Personnel Manager.



An Equal Opportunity Employer M/F

Department of Developmental and Cell Biology University of California, Irvine

The following **LECTURER** and **POSTDOCTOR- AL POSITIONS** are available for the 1978–1979 academic year:

Two lecturer positions: one is to teach nonmajor courses in physiology and to participate in a major physiology course both in lecturing and coordinating laboratories; a second position is to assist in teaching cell and development courses, both as a lecturer and laboratory coordinator. The Ph.D. degree is required for both positions.

Postdoctoral position (M. W. Berns). Interests in one or more of the following areas: cell division, cytogenetics, myocardial function in vitro, and cellular immunology.

Postdoctoral position (J. Arditti). To work on plant physiology-biochemistry and vitamin biosynthesis.

Postdoctoral position (G. Stephens). Marine microbiology and ecology.

Postdoctoral position (A. Bennett). Activity metabolism of the lower vertebrates; expertise in biochemistry, muscle physiology, and environmental physiology.

Postdoctoral position (H. Koopowitz). Neuronal basis of behavior in flat worms using electrophysiological techniques.

Postdoctoral positions in carcinogenesis: four positions are available on an interdepartmental NIH Training Program; 23 faculty participate in this program with interests at the cellular, molecular, biochemical, organismic, and clinical levels.

Applications from all qualified candidates are welcome: minorities and women are encouraged to apply. Send curriculum vitae and the names of three references to:

Dr. Michael W. Berns, Chair Department of Developmental and Cell Biology University of California, Irvine Irvine, California 92717

before 1 May 1978.

BIOLOGY DEPARTMENT

Assistant or associate professor-botany. Small, libreal arts college has tenure-track position open in September 1978, for a qualified Ph.D. with strength in botany and molecular biology. Teaching responsibilities include genetics, plant physiology, and introductory biology courses. Excellence in teaching troductory biology courses. Excellence in teaching and commitment to student/faculty interaction are required. Send personal letter, curriculum vitae, academic transcripts, and three letters of reference by 8 May 1978 to: Dr. James W. Small, Head, Department of Biology, Rollins College, Winter Park, Florida 32789. An Equal Opportunity/Affirmative Action/ Title IX Employer.

BIOLOGY-ENVIRONMENTAL SCIENCE. The Department of Natural Science at Loyola University of Chicago is seeking an individual for the teaching of biological and environmental courses for nonscience majors. The position is at the level of assistant professor and will start in September 1978. Applicants must have a well-defined interest and experience in teaching nonscience majors. The Ph.D. degree is reteaching nonscience majors. The Ph.D. degree is required. This position is for a single year but may be renewable. Please send curriculum vitae, letters of reference, and a summary of research interests by 30 May to: Raymond Nackoney, Chairman, Department of Natural Science, Loyola University, Chicago, Ill. 60626. Equal Opportunity/Affirmative Action Employer.

BOTANICAL SCIENTISTS AIR POLLUTION RESEARCH AND ENVIRONMENTAL ASSESSMENT

Energy Impact Associates, Inc. (EIA), formerly Westinghouse Environmental Systems Department, has staff positions open at the technologist and scihas staff positions open at the technologist and scientist level for plant scientists with experience in evaluating air pollution effects on vegetation. Applicants should have a demonstrated competence in chemistry, plant physiology, air monitoring equipment, and experimental design. A basic knowledge of ecology and taxonomy is desirable. Ph.D. is required for senior level position. Position and salary are commensurate with education and experience.

Interested parties should send résumé, transcripts, salary history, references, and an outline of experience and research interests to:

RICHARD B. PAULIN, MANAGER Human Resources P.O. Box 1899 Pittsburgh, Pa. 15230

An Equal Opportunity Employer

CELL BIOLOGIST

The Department of Anatomy at the University of The Department of Anatomy at the University of Minnesota is searching for a cell biologist who should be able to apply a wide variety of physical techniques to analysis of cell function, particularly transmission and scanning EM, X-ray and optical diffractometry, and laser light scattering spectroscopy. Interests in cell motility (particularly chemistry and structure of tubulin) as well as mechanisms of biological transparency as amplied to the lens would and structure of tubulin) as well as mechanisms of biological transparency as applied to the lens would be desirable. Should have teaching experience in gross anatomy and histology and be prepared to teach histology to medical and graduate students. Salary and rank negotiable, and dependent upon qualifications. Interested persons should send their curriculum vitae and a list of three references to: David W. Hamilton, Head, Department of Anatomy, University of Minnesota, 262 Jackson Hall, 321 Church Street, SE, Minneapolis, Minn. 55455.

An Equal Opportunity Educator and Employer

PREDOCTORAL AND POSTDOCTORAL POSITIONS

Opportunities for predoctoral and postdoctoral training are available in the Department of Anatomy at the University of Minnesota in the areas of:

1) Biology of the pancreatic islets and diabetes,

2) Reproductive and developmental biology, especially related to the male, and

3) Neurondocripology.

- 3) Neuroendocrinology.

Facilities and expertise are available in the department for cell, tissue, and organ culture; immunocytochemistry; morphometric analysis of tissues and organs; scanning and transmission electron microscopy; freeze-fracture of tissues; and biochemical and microchemical analysis of cells and tissues. Interested persons should contact: David W. Hamilton, Head, Department of Anatomy, University of Minnesota, 262 Jackson Hall, 321 Church Street, SE, Minneapolis, Minn. 55455.

An Equal Opportunity Educator and Employer

An Equal Opportunity Educator and Employer

POSITIONS OPEN

DIRECTOR OF RESEARCH-The University of Texas Health Center at Tyler seeks M.D.-M.D.-Ph.D. with experience in the frontiers of chest disease research. Candidates should exhibit leadership capabilities, ability to work with people, and familiarity with clinical problems. Please submit letter of interest and curriculum vitae to: P.O. Box 2003, Tyler, Texas 75710.

An Equal Opportunity Employer

DIRECTOR OF PROJECT DEVELOPMENT UNIVERSITY OF IOWA

The person in this position will engage in intensive, in-depth development work, developing and marketing proposals in response to major grant and contract opportunities. Minimum qualifications include a master's degree, reasonable experience in securing grants, familiarity with an academic environment, and communication skills. Considerable grant experience, Ph.D., experience as a faculty member, and experience in funding agencies regarded as desirable qualities. Salary commensurate with abilities. Starting date: 1 July 1978. The University of Iowa is an Equal Opportunity/Affirmative Action Employer. Send résumé to: William Farrell, Associate Vice President for Educational Development and Research, University of Iowa, Iowa City, Iowa 52242. tensive, in-depth development work, developing and

DIRECTOR, ISLES OF SHOALS MARINE LABORATORY, AND INVERTEBRATE ZOOLOGIST, CORNELL UNIVERSITY

Cornell University is seeking an invertebrate zoologist who will also serve as director of the Shoals Marine Laboratory. The laboratory, located on the Isles of Shoals off Portsmouth, New Hampshire, has as its primary mission the teaching of summer courses in introductory marine sciences to undergraduates, teachers, and other special groups.

Prospective candidates should have considerable experience in administration and a strong record of

experience in administration and a strong record of teaching and research in invertebrate zoology. It is expected that this position will be filled at a senior

In addition to administrative duties, the appointee will be involved in summer teaching at the Shoals Laboratory, offering an introductory upper division course in invertebrate zoology at Cornell in Ithaca, and maintaining an active research program, includ-

and maintaining an active research program, including the training of graduate students.

The position will be filled as soon as possible. A curriculum vitae, including the names of at least three references, should be sent no later than 22 May to: Dr. Peter Bruns, Chairman Search Committee, Division of Biological Sciences, 200 Stimson Hall, Cornell University, Ithaca, New York 14853.

Cornell University is an Equal Opportunity/Affirmative Action Employer.

ENVIRONMENTAL SCIENCE

Teach variety of undergraduate courses with major responsibilities in air quality and land use/planning at introductory level. Should be comfortable teaching in transdisciplinary general education program emphasizing issues and values. Needs to be enthusiemphasizing issues and values. Needs to be enthusiastic and flexible and to enjoy teaching students with varied backgrounds within context of small, liberal arts, innovative, Presbyterian-related college. Teaching experience and doctorate preferred; master's required. Equal Opportunity/Affirmative Action Employer. Send résumé, transcripts, and references to: Dean Margaret Goddin, Davis-Elkins College, Ellins West Virginia, 26241 kins, West Virginia 26241.

ENVIRONMENTAL STUDIES. A director is sought to develop and expand a small but viable program in environmental studies, and to teach courses on the urban-industrial complex. Requires a graduate degree in environmental studies, or related work experience and graduate degree. Ph.D. preferred. Begins August 1978. Send curriculum vitae and three letters of reference by 1 May to De Danial Lynch Se Ed. of reference by 1 May to: Dr. Daniel Lynch, St. Edward's University, Austin, Texas 78704. An Equal Opportunity/Affirmative Action Employer.

GENETICIST

GENETICIST
Ph.D. with postdoctoral experience to: (i) direct human cytogenetics laboratory, (ii) set up own research program, and (iii) participate in medical school genetics curriculum. Position and salary commensurate with experience. Applicants should send curriculum vitae and three references to: Dr. Paul Benke, Mailman Center, University of Miami School of Medicine, Miami, Fla. 33152.

An Equal Opportunity Employer

POSITIONS OPEN

Possible opening, fall 1978, for faculty member in GEOLOGY/EARTH SCIENCE. Candidates must be able to teach a wide range of geoscience material. Expertise in sedimentology-stratigraphy and environmental geology desirable. Evergreen is a 4-year accredited liberal arts college which emphasizes team-taught interdisciplinary studies. No departments. Salary range: \$12,940 to \$16,060. For information contact: Dr. Willard Humphreys, Academic Dean, L2219, The Evergreen State College, Olympia, Wash. 98505. Closing date: 30 April. Equal Opportunity/Affirmative Action Employer.

Case Western Reserve University, Department of Earth Sciences, has two faculty positions beginning academic year 1978.

GEOPHYSICIST

Candidates should be interested in mathematical modeling of geological and geophysical processes.

SEDIMENTOLOGIST

Candidates should have experience in the study of modern sedimentary environments and in the interpretation of ancient depositional environments from the study of sedimentary rocks. An interest in some aspect of fossil fuels or other natural resources is de-

Ph.D. or equivalent is required for each position. Please submit applications, consisting of résumé, names and addresses of three referees, transcripts, and a statement of research and teaching interests to: Samuel M. Savin, Department of Earth Sciences, Case Western Reserve University, Cleveland, Ohio 44106. Case Western Reserve University is an Equal Constraint of Mathematical Action Fundament Opportunity/Affirmative Action Employer.

Immunobiologist

Schering, a world leader in research, has an opportunity for a respiratory or immunopharmacologist to assume a lead-ership role in coordinating the efforts of a multi-disciplinary team involving pharma-cologists, biochemists, immunologists, and medicinal chemists developing new therapy for respiratory allergy disorders. Candidates should have a Ph.D. or equivalent, at least 5 years of experience in immediate hypersensitivity/pulmonary research, and have proven leadership capability.

Résumés should be sent in strict confidence to: Manager, Research Employment, Schering-Plough Corporation, 60 Orange Street, Bloomfield, New Jersey 07003.



INSECT PATHOLOGIST OR MICROBIOLOGIST to conduct field and laboratory studies on pathogens of insects attacking vegetable crops and other economically important insects. This research position is available immediately at the assistant scientist level. The Ph.D. is required. Applications consisting of undergraduate and graduate transcripts, a list of three references, curriculum vitae, reprints of publications, summary of Ph.D. thesis, and a letter in which the interests and aspirations of the candidate are reflected relative to the position should be sent to: Dr. John F. Anderson. Head. Department of sent to: Dr. John F. Anderson, Head, Department of Entomology, Connecticut Agricultural Experiment Station, P.O. Box 1106, New Haven, Conn. 06504. An Equal Opportunity/Affirmative Action Employer.

NEUROPHYSIOLOGIST

Postgraduate researcher to study response proper-Postgraduate researcher to study response properties of human limbic neurons in collaboration with two neuroscientists. Candidates should have some knowledge and/or experience in limbic anatomy and physiology, electrophysiology, vision, behavioral manipulation, computers, and biomedical statistics. The position is supported by a secure private endowment which has no specified termination date. Send curriculum vitae and references (optional) to: Myrna Beltman, 73-364 Brain Research Institute, University of California, Los Angeles, California 90024. An Equal Opportunity/Affirmative Action Employer.

AARHUS UNIVERSITY DENMARK

A position as lektor (associate professor with tenure or assistant professor according to qualifications) will be vacant at the Division of Biostructural Chemistry, Department of Chemistry, Aarhus University, Denmark, from 1 September 1978.

A molecular biologist/biochemist/chemist is wanted for the position to work in the general field of protein biosynthesis. Research experience in studies on tRNA-protein interactions will be an advantage.

Present permanent staff in the group are B. F. C. Clark, J. E. Celis, T. F. M. la Cour, and J. Nyborg.

The successful applicant must, on equal terms with the other members of the group, share the teaching responsibilities, from first-year level to supervision of graduate and postgraduate students. It is expected that the successful applicant eventually will be able to teach in Danish.

Applications containing curriculum vitae, information on scientific and educational activities, a list of publications plus three copies of published material (wherever possible), and any additional information relevant for the evaluation of the applicant's scientific and educational qualifications, should be sent to: Faculty of Science, Aarhus University, Ndr. Ringgade 1, 8000 Aarhus C, Denmark, before 15 May 1978. The report of the evaluation committee will be sent to all applicants.

Further information as regards salary, and so forth can be obtained from: Chemistry Department, Aarhus University, Langelandsgade 140; DK-8000, Aarhus C. Denmark.

NORTHWESTERN UNIVERSITY LECTURER Cell Biologist/Embryologist

A 1-year position as lecturer in the Department of Biological Sciences is open starting 1 September 1978. The successful candidate is expected to teach four 10-week courses; one in cell biology, one in embryology, and two of mutual interest to the candidate and the department. Candidates should have a Ph.D. in biological science; teaching experience is desirable. Salary will be based on background and experience.

Send curriculum vitae and the names of three referees to: Chairman, Department of Biological Sciences, Northwestern University, Evanston, Illinois 60201

Northwestern University is an Equal Opportunity Employer.

MARINE SCIENTIST, Scripps Institution of Oceanography, Visibility Laboratory. Marine scientist with experience in environmental optics, remote sensing, and image processing. Interest in developing graduate courses in these fields is essential. Demonstrated ability to develop research programs that will expand the application of these techniques to sensing of the marine environment. Split appointment: 2/3 faculty, 1/3 research. Level: assistant professor (\$17,500) to full professor (\$40,800); 11-month basis depending on qualifications. Send curriculum vitae to: Dr. V. C. Anderson, Chairman, Visibility Laboratory Search Committee, A-008, Scripps Institution of Oceanography, University of California, San Diego, La Jolla, Calif. 92093. The University of California, San Diego, is an Equal Opportunity/Affirmative Action Employer.

METABOLIC LABORATORY RESEARCH DIRECTOR

To conduct and supervise research in the areas of steroid hormone rhythms and stress metabolism, in both primates and patients. Requires Ph.D. or M.D., with major field of study in physiology and metabolism. Should have a strong aptitude in mathematics, and also be able to write well in order to prepare grant proposals and progress reports and write scientific papers. Position is available 1 July 1978. Please send résumé and salary requirements to Box 125, SCIENCE.

An Equal Opportunity Employer

POSITIONS OPEN

POSITIONS OPEN

EXPLOSIVE CONTROL SYSTEMS DEVELOPMENT

Positions exist in our Washington D.C. office in support of programs for the detection and identification of illegally used explosives. For these positions we are seeking individuals having outstanding technical skills in the design, development, and testing of advanced instrumentation. The successful applicant will have a technical management background and expertise in one or more of the following areas.

X-RAY INSPECTION SYSTEMS

(Radiography, Tomography, X-Ray Fluorescence, X-Ray and Gamma-Ray Detection Systems, X-Ray Generators)

INSTRUMENT AND ELECTRONIC DESIGN

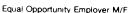
(Microprocessor interface, Analog Circuit Design, Harmonic Radar, Electronic Security Systems)

MECHANICAL DESIGN

These positions require an MA degree and 5 years experience or equivalent. Qualified individuals are invited to send resume including salary history in confidence to Personnel Department.

The Aerospace Corporation

955 L'Enfant Plaza, S.W. Suite 4000 Washington, D.C. 20024





EXTENSION SPECIALIST IN ENTOMOLOGY—Assistant professor level position responsible for applied research in vegetable entomology with emphasis on integrated pest management and development of insect control recommendations and publications dealing with vegetable entomology. Ph.D. in entomology required and 3 years of experience preferred. Position available immediately. Send applications to: Dr. Herbert T. Streu, Chairman, Department of Entomology, Rutgers, The State University, Cook College, P.O. Box 231, New Brunswick, N.J. 08903. An Affirmative Action/Equal Opportunity Employer.

FACULTY POSITION—Department of Biological Chemistry, University of California, Davis, School of Medicine. Applications are invited for a faculty position of intermediate rank, open winter 1979 to fall 1979. Candidate should be active in research, capable of contributing significantly to medical school and graduate teaching in the areas of cellular and molecular biology, biophysics, and microbiology. Several years of teaching experience desirable. Soundness and quality of research will receive greater emphasis than field of specialization, although potential to enter into extensive interdisciplinary research within the department encompassing the areas mentioned above will be given strong favorable consideration. Applicants should send curriculum vitae, list of publications, future research plans, and have three letters of recommendation sent to:

Dr. Robert R. Traut, Chairperson, Search Committee, Department of Biological Chemistry, School of Medicine, University of California, Davis, Calif. Completed applications should be received not later than 1 May 1978. The University of California is an Affirmative Action/Equal Opportunity Employer Women and minority candidates are encouraged to apply.

HUMAN NEUROPSYCHOLOGY

Postdoctoral fellow or research associate. Preference for someone with research interests in visuospatial processes or psycholinguistics. Work involves some routine testing of neurological patients. Minimum salary of \$10,000, depending on experience; additional renumeration possible from teaching. Starting fall 1978, for period up to 3 years. Apply, sending curriculum vitae and at least three references, to: Dr. Doreen Kimura, Department of Psychology, The University of Western Ontario, London, Ontario, Canada N6A 5C2.

HYDROGEOLOGIST—Applications are invited for the anticipated position of senior research associate in the Institute for Environmental Studies, Louisiana State University (LSU). Position available 1 May 1978. Minimum requirements are M.S. degree with at least 2 years of practical experience. Preference will be given to candidates who have a Ph.D. degree and who have experience and training with hydrochemical studies and hydrodynamic modeling as well as field experience with other standard hydrogeological techniques. Competitive salary commensurate with training and experience. Please submit as soon as possible: applications/résumés, informal copies of all college transcripts, and the names and telephone numbers of at least three references. Direct to: Joseph D. Martinez, Director, Institute for Environmental Studies, LSU, Baton Rouge, La. 70808. LSU is an Equal Opportunity Employer.

FACULTY POSITION/ASSOCIATE DIRECTOR FOR RESEARCH. The Marine Sciences Research Center has an opening to fill by 1 September 1978 for an associate or full professor who would also serve as associate director for research. The individual would be tenured in the faculty post. Candidates should hold a Ph.D., have a reputation as a leader in some area(s) of coastal/estuarine oceanography, and have a proven record of effectiveness in design and execution of sponsored research projects of high quality. Administrative experience is desirable but not required. The successful candidate will be expected to play a collaborative role in developing the center's research programs, and will also be expected to carry on active research. The appointment will carry full support for the academic year, and may be supplemented by up to 2/9 of the academic year salary for summer salary, through the individual's own grants and contracts. Rank and salary will be commensurate with experience. Interested individuals should send a complete résumé and names of three references to: Chairman, Search Committee, Marine Sciences Research Center, State University of New York, Stony Brook, New York 11794. Equal Opportunity/Affirmative Action Employer.

FACULTY POSITION IN IMMUNOLOGY

A position as assistant or associate professor is available in the Department of Microbiology and Immunology at the University of Washington. The position involves research and teaching. Applicants with experience in immunogenetics are particularly sought. Applications should include full curriculum vitae and names of three referees, and must be received prior to 1 May 1978. Apply to:

Dr. Ingegerd Hellström
Search Committee Chairperson
Department of Microbiology and Immunology, SC-42
University of Washington School of Medicine
Seattle, Wash. 98195

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

ONE-YEAR POSITION IN GENETICS. The Department of Biology at UCLA has one temporary teaching position available beginning September 1978. Applicants must have a Ph.D. degree and the qualifications to teach a large undergraduate upper division course in genetics, a lower division course in genetics for nonscience majors, and to participate in the introductory biology course. Applicants should send curriculum vitae, including names and addresses of three referees to: Search Committee, Biology Department, University of California, Los Angeles, California 90024, before 8 May 1978. An Equal Opportunity/Affirmative Action Employer.

IMMUNOLOGIST

Full-time research associate position available August 1978 to assist in developing immunology program in radiation effects including carcinogenesis. D.V.M. and/or Ph.D. with training in immunology. Application deadline: 1 June 1978. Salary negotiable. Colorado State University is an Equal Opportunity/Title IX Employer; Equal Opportunity Office: 314 Student Services Building. Send curriculum vitae and references to: Stephen A. Benjamin, Director, Collaborative Radiological Health Laboratory, Colorado State University, Fort Collins, Colorado 80523.

MASS SPECTROMETRIST—Associate professor of the institute. Opening for an individual with demonstrated expertise in GC/MS and a minimum of 6 years of professional experience. Teaching experience and demonstrated ability to secure research funding required. Send résumé and letter of recomrunding required. Send resume and letter of recommendation to: Dr. B. L. Karger, Institute of Chemical Analysis, Northeastern University, Boston, Mass. 02115. Northeastern University is an Equal Opportunity/Affirmative Action/Title IX Employer.

M.D. or POSTGRADUATE Ph.D. specialized in cardiac physiology is sought to pursue laboratory projects related to cardiac hypertrophy and preser-

vation.

Applicants should send curriculum vitae, names of three references, and a brief statement of research interests to: Dr. Hillel Laks, Department of Cardiothoracic Surgery, Yale University School of Medicine, 333 Cedar Street, New Haven, Connecticut 06510. An Equal Opportunity Employer.

NEPHROLOGIST—The Nephrology Research and Training Center and the Division of Nephrology in the Department of Medicine and the Department of Physiology and Biophysics at the University of Alabama in Birmingham has available a position at the professor level. The position is open to qualified individuals at a senior level. The individual must have a firm commitment to teaching programs oriented to medical students, graduate students, house officers, and fellows and should have a research background and fellows and should have a research background and be able to carry out independent research, preferably in the physiology of renal tubular transport processes. Apply to: Division of Nephrology, University Station, Birmingham, Alabama 35294; telephone: 205-934-3585. An Equal Opportunity/Affirmative Action Employer. Expiration date for receipt of applications: 15 May 1978.

Applications are invited for NEUROBIOLOGISTS in Department of Biology, University of California, San Diego, interested in using neural cultures for morphological or biochemical studies. Ph.D. and morphological or biochemical studies. Ph.D. and strong background required in at least one of the following: neurocytology, neurochemistry, neurodevelopment, general cell culture, membrane biology. Position is for 5 years depending on granting situation; may be renewable. Salary range \$12,000 to \$14,000 for POSTGRADUATE RESEARCH BIOLOGIST rest and \$18,000 to \$20,000 for ASSISTANCE. GIST post and \$18,000 to \$20,000 for ASSISTANT RESEARCH BIOLOGIST, from about 1 July 1978. Latter involves assuming substantial responsibilities within research group and planning for longer range collaboration. Send résumé and three recommendation letters to: Marilee Bateman, Secretary, Department of Biology, M-001, University of California, San Diego, La Jolla, Calif. 92093. The University of California is an Equal Opportunity/Affirmative Action Employer.

NEUROENDOCRINOLOGIST. A research position is available after 1 June in Laboratory of Neurophysiology. Experience in radioimmunoassay of protein and/or steroid hormones required. Opportunities exand/or steroid hormones required. Opportunities exist for collaborations with ongoing research in neuroendocrinology, reproduction, and behavior. Send curriculum vitae, names of three references, and description of research interests by 15 May to: Dr. Adrian Perachio, Yerkes Primate Research Center, Emory University, Atlanta, Georgia 30322.

CALIFORNIA ORAL PATHOLOGY

ORAL PATHOLOGY

The Department of Oral Medicine and Hospital Dentistry, School of Dentistry, and the Department of Pathology, School of Medicine, University of California at San Francisco (UCSF), are seeking a full-time faculty member at the assistant professor level. The successful applicant will assume responsibilities for teaching in the dental, medical, and dental hygiene curricula, in dental and medical specialty programs, and to graduate students. If qualified, the appointee will have service responsibilities in oral pathology and in pathology. Candidates should have a dental/medical degree or a Ph.D. in pathology. Formal training in pathology and oral pathology and a demonstrated ability to conduct research are required. This position will be available 1 July 1978. Applications must be received by 30 April 1978. UCSF is an Equal Opportunity/Affirmative Action Employer. Women and minorities are encouraged to apply. Send applications or nominations with curriculum vitae to: John S. Greenspan, B.Sc., B.D.S., Ph.D., M.R.C. Pathology, Department of Oral Medicine and Hospital Dentistry, University of California, San Francisco, Calif. 94143.

POSITIONS OPEN

UNIVERSITY OF CALIFORNIA, IRVINE CALIFORNIA COLLEGE OF MEDICINE CALIFORNIA COLLEGE OF MEDICINE DEPARTMENT OF RADIOLOGICAL SCIENCES

Applicants are invited for a position at the assistant level in the **DIVISION OF NEURORADIOLOGY** (Chief of Service, Dr. Stephen Fierstien) in the Department of Radiological Sciences, University of California, Irvine, College of Medicine.

Applicants should be Board-certified (or equivalent) radiologists with at least a 1-year fellowship in neuradiologists with at least a 1-year tenowship in neu-roradiology, including computed tomography and complex tomography of the temporal bone. In addi-tion to clinical responsibilities the successful can-didate will be expected to take part in medical student and resident teaching and to develop a research program or take part in ongoing protocols within the department. A large volume of interesting case material is available and the Division of Neuroradiology is presently being completely reequipped with protois presently being completely reequipped with proto-type imaging equipment. Applications from all quali-fied candidates are welcome; minorities and women are encouraged to apply. Applications, including a biography and copies of any publications, should be

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

Closing date: 15 May 1978.

PHYSIOLOGICAL ECOLOGIST

The Department of Biology, University of Windsor, invites applications for a position in animal physiological ecology (subject to budgetary approvphysiological ecology (subject to budgetary approval) at the rank of assistant professor (salary floor, 1978–1979, \$17,917) for the 1978–1979 academic year. The successful candidate will be expected to teach comparative physiology and share teaching responsibilities in human physiology. In addition, the appointee will develop a program of independent research and graduate student supervision in the physiology of animal adaptations and/or behavior.

iology of animal adaptations and/or behavior.

Send curriculum vitae, the names of three references, and a statement of research interests to:

Dr. H. D. McCurdy, Professor and Head Department of Biology University of Windsor Windsor, Ontario, Canada N9B 3P4

PLANT PHYSIOLOGIST/PLANT NUTRITIONIST

The Department of Land, Air and Water Resources, Soils and Plant Nutrition Program, invites applications for a faculty position, 50 percent in the College of Agricultural and Environmental Sciences, and 50 percent in the Agricultural Experiment Station. Teaching mainly graduate level; research to be a dynamic program in long-distance transport of ions with emphasis on sophisticated methods of local-ization at the level of the tissue, cell, and organelle. Experience in such techniques and ability for their development essential; interest and competence in comparative studies with different genotypes desircomparative studies with different genotypes desirable. Rank and salary depend on qualifications; the Ph.D. is the minimal qualification. Applicants should submit curriculum vitae, list of publications, reprints, academic transcripts, and statements of their philosophy for teaching and research. Three letters of recommendation should be requested to be sent to: Emanuel Epstein, Search Committee, Department of Land, Air and Water Resources, Hoagland Hall, University of California, Davis, California 95616. Closing date is 1 June 1978.

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

POSTDOCTORAL POSITION available immediately for biochemist with interest in molecular structure. Should have experience in biochemical labora-tory techniques (such as column chromatography, preparative electrophoresis, and so forth), to be used in the production, isolation, and purification of siderochromes. Opportunity to learn single crystal x-ray diffraction. Send curriculum vitae, transcripts, x-ray diffraction. Send curriculum vitae, transcripts, and names of references to: Dr. Dick Van Der Helm, Department of Chemistry, University of Oklahoma, Norman, Oklahoma 73019. The University of Oklahoma is an Equal Opportunity/Affirmative Action

POSITIONS OPEN

PATHOLOGY RESIDENCY PROGRAM—Position PATHOLOGY RESIDENCY PROGRAM—Position open at the University of Massachusetts Medical School. Applications from women and minority groups especially encouraged. AMA approval is pending. Write to: Dr. A. Like, Department of Pathology, University of Massachusetts Medical School, 55 Lake Avenue North, Worcester, Massachusetts 01605. An Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL POSITION IN ELECTROPHYSIOLOGY OF VASCULAR SMOOTH MUSCLE

Research position available beginning 1 July 1978 for a postdoctoral fellow with experience in micro-electrode studies in smooth muscle. Send letter and curriculum vitae to: Dr. Nick Sperelakis, Physiol-ogy Department, University of Virginia School of Medicine, Charlottesville, Va. 22903.

POSTDOCTORAL POSITION. Geophysical fluid dynamicist to collaborate on thermal and mechanical modeling of terrestrial planetary interiors. Knowledge of numerical, finite-difference, and finite-element computational methods and basic interests in thermal convection are desirable. Send curriculum vitae and names of three references to:

Dr. Gerald Schubert Department of Earth and Space Sciences University of California Los Angeles, California 90024

The University of California at Los Angeles is an Equal Opportunity/Affirmative Action Employer.

FIVE POSTDOCTORAL POSITIONS at up to FIVE POSTDOCTORAL POSITIONS at up to \$15,000 are now open. Three relate to autoimmune diseases: immunogenetic control of self tolerance, suppressor mechanisms, and the role of viruses in autoimmunity. Two deal with immunoregulation of granulomatous disease and tumor plasma membrane turnover and shedding. Applicants trained in immunology, virology, or molecular biology should send curriculum vitae and three letters of reference to: Dr. Noel R. Rose, Chairman, Department of Immunology and Microbiology, Wayne State University School of Medicine, 540 East Canfield Avenue, Detroit, Michigan 48201. An Equal Opportunity Employer.

POSTDOCTORAL POSITION: CELL AD-POSTDOCTORAL POSITION: CELL AD-HESION. Applications are invited for a position available on 1 June 1978. Studies will be involved with the analysis of cell adhesion to collagen mediated by a protein termed c-CAP, LETS, CSP, and so forth. For a list of our previous work, see references in Expt. Cell Res. 110, 419 (1977). Candidates should have experience in biochemistry and/or cell biology. Please send résumé and three references to: Dr. Robert J. Klebe, Division of Human Genetics, University of Texas Medical Branch, Galveston, Texas 77550. An Equal Opportunity Employer.

POSTDOCTORAL POSITION: starting 1 June 1978 for research on the genetics of yeast cell recognition. Candidate must have expertise in electron microscopy. Salary: \$10,000 to \$13,000. Send curriculum vitae with referee names to:

Dr. Marjorie Crandall School of Biological Sciences University of Kentucky Lexington, Ky. 40506

POSTDOCTORAL POSITION. Available Septem-POSTDOCTORAL POSITION. Available September for a 2-year minimum. Neurophysiologist or neuroanatomist preferred for a correlative study of neuronal activity and morphometry of auditory cortex. Transmitted light computer microscopy of dendrites and axons will be stressed. Send curriculum vitae and names of three references to: Dr. Edmund Glaser, Department of Physiology, University of Maryland, School of Medicine, Baltimore, Md. 21201.

POSTDOCTORAL POSITION IN BIOCHEMISTRY available immediately for U.S. citizen for research in Pi transport and the biological function of cytoplasmic acid phosphatases in tissues with high glycoplasmic acid phosphatases in tissues with high glycolytic activity, that is, tumor, red cells, and lens. Prefer recent graduate. Potential renewal up to 3 years. Send résumé to: Dr. C. H. Chen, Wilmer Institute, The Johns Hopkins Medical School, Baltimore, Mary-

PHYSICAL SCIENCE ADMINISTRATOR GS-13/14 (one position)

Assists Division Director in technical coordination and technical management of the Material Sciences Division and formulates, initiates, and administers a research contract program in Material Sciences.

Must have PhD or equivalent in the general area of material sciences plus 3 years of experience beyond the degree within a science or engineering disciplines. Scientific administrative ability desirable.

SALARY \$26,022 to \$39,975 depending on qualifications.

Send resume or Standard Form 171 by 1 May 1978 to:

Director of Personnel Services Attn: M. Talbot 78-20 Office of Naval Research 800 N. Quincy Street Arlington, VA 22217

An Equal Opportunity Employer

CHIEF, LABORATORY OF NEUROPHYSIOLOGY

The National Institute of Neurological and Communicative Disorders and Stroke invites nominations and applications for their position of Chief, Laboratory of Neurophysiology. The Laboratory conducts a broad range of basic research in the field of neurophysiology. Mandatory requirements include a doctorate level degree (M.D. or Ph.D.) or equivalent experience or training in a relevant scientific discipline and 3 to 5 years of related research experience. It is desirable that candidates have evidence of substantial and sustained scholarly achievement and professional stature, accomplishments or demonstrated potential in laboratory research, and demonstrated capacity for leadership of both mature and early career doctorate level scientists. Candidates will be evaluated by a panel of specialists in the field. The position may be filled in either the career Civil Service (subject to the approval of the U.S. Civil Service Commission) or the Commissioned Corps of the Public Health Service. Salary is negotiable depending on length and breadth of experience from \$36,171 to \$47,500.

Letters of interest, curriculum vitae, SF-171, list of publications, and references should be sent by May 15, 1978 to: Dr. Richard L. Irwin, Laboratory Director, Intramural Research Program, NINCDS, National Institutes of Health, Public Health Service, Building 36, Room 4A03, Bethesda, Maryland 20014. An equal opportunity employer.

NATIONAL INSTITUTES
OF HEALTH

PHYSIOLOGIST

The National Institute of Environmental Health Sciences, National Institutes of Health, Public Health Service, invites applications for the position of Physiologist. Within the Laboratory of Environmental Biophysics, which is under the direction of Dr. Colin F. Chignell, the incumbent will work with the Non-ionizing Radiation Work Group in performing mechanicistic studies in the effect of microwave radiation on the CNS, neuroendocrine, hematopoietic, cardiovascular, and reproductive systems. Additionally, the incumbent will coordinate collaborative projects to determine the teratogenic, immunologic and behavioral effects of microwave radiation. The position requires a Ph.D or equivalent in physiology or a closely related field, with postdoctoral experience and publications in physiology.

The position will be filled through career Civil Service appointment. Applicants will be subject to competitive procedures prescribed by the Civil Service Commission. Salary range \$21,883 to \$33,825 per annum depending on qualifications. Letters of application with Curriculum Vitae, bibliography, and the names and addresses of two references should be mailed by May 15, 1978 to: Samuel G. Jones, Personnel Office, National Institute of Environmental Health Sciences, P.O. Box 12233, Research Triangle Park, N.C. 27709. An equal opportunity employer.

NATIONAL INSTITUTES OF HEALTH.

R&D SCIENTIST DERMATOLOGIC DRUGS

The Upjohn Company is seeking a Scientist to conduct imaginative exploratory and developmental research as a key member of a multidisciplinary Dermatology Project Team.

Qualifications: Ph.D in the biology (pharmacology or physiology) and/or biochemistry of the skin. Relevant postdoctoral work preferred.

Excellent technical support and research environment.

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POSTDOCTORAL POSITIONS

Available immediately for research in ultraviolet light carcinogenesis and tumor immunology/immunotherapy. Active research laboratory in cancer biology is expanding its programs in experimental photocarcinogenesis and tumor immunology/immunotherapy. For experimental photocarcinogenesis, animal and tissue culture systems have been developed and studies addressed to defining an action spectrum will be emphasized. Participation in these studies will require training in photobiology or radiation biology and an interest in carcinogenesis research. For tumor immunology/immunotherapy, a strong background in basic immunology with experience in tumor immunology and immunotherapy in experimental animal models is required.

Letters of application, accompanied by a comprehensive curriculum vitae, complete bibliography, and three references should be addressed to:

Dr. Michael G. Hanna, Jr., Director Cancer Biology Program Frederick Cancer Research Center P.O. Box B, Building 426 Frederick, Maryland 21701

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POSTDOCTORAL POSITIONS IN VISION RESEARCH

The Cullen Eye Institute of Baylor College of Medicine has a major commitment to basic research in the eye. Well-equipped laboratories support research in the broad areas of developmental biology, neurophysiology, biochemistry, ultrastructure, photochemistry, and mechanisms of infection.

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Joe G. Hollyfield—Developmental and Cellular Biology of the Retina

Dan B. Jones-Mechanisms of Corneal Disease Frank Kretzer-Retinal Ultrastructure

Dominic Man-Kit Lam-Synaptic Physiology and

Gunter K. von Noorden-Experimental Amblyopia

Send letters of inquiry indicating areas of interest to:

Robert E. Anderson, Ph.D., M.D. Program Director Cullen Eye Institute Baylor College of Medicine Texas Medical Center Houston, Texas 77030

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Dr. M. Lieberman Department of Physiology Duke University Medical Center Box 3709

Durham, North Carolina 27710

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RESEARCH ASSOCIATES

Two positions for research associates on funded project. M.S. in public health or related field. One position requires prior supervisory experience, ability to relate to community leaders, experience with government environmental organizations, laboratory skills, and writing experience. Second position requires epidemiological background including skills in literature review, all aspect of data collection, packaged computer procluding skills in literature review, all aspects of data collection, packaged computer programs, and analysis of data. Reply to: Robert W. Tuthill, Ph.D., Edward J. Calabrese, Ph.D., Division of Public Health, School of Health Sciences, University of Massachusetts, Amherst, Mass. 01003. Salary: \$12,000 to \$16,000. The University of Massachusetts is an Equal Opportunity/Affirmative Action Employer. POSTDOCTORAL POSITION IN PROTEIN CHEMISTRY. A 2-year postdoctoral position in a laboratory engaged in protein sequencing and the chemical modification of enzyme active sites using photoexcited ligands as reagents is available immediately. A recent Ph.D. recipient with experience in protein chemistry and a strong academic background is preferred. Interested applicants should send their curriculum vitae and the names of three references to: Dr. William F. Benisek, Department of Biological Chemistry, School of Medicine, University of California, Davis, Calif. 95616.

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 $\begin{array}{ll} \textbf{POSTDOCTORAL} & \textbf{POSITION} & \text{functioning as a} \\ \text{member of a research team in studying nature of} \\ \text{Na}^+\text{-dependent transport carriers reconstituted into} \end{array}$ artificial liposomes.

Requires Ph.D. with experience in the study of structure and function of natural or artificial lipoidal membranes and strong background in biochemical or biophysical techniques as applied to membranes

Please send résumé to: Personnel Department, COL-LEGE OF MEDICINE AND DENTISTRY OF NEW JERSEY, Rutgers Medical School, P.O. Box 101, Piscataway, N.J. 08854. Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL POSITION available immediately for studies of DNA tumor viruses. Ph.D. in bio-chemistry/molecular virology preferred. Send cur-riculum vitae and three references to:

Dr. Ronald Glaser Department of Medical Microbiology Ohio State University College of Medicine Columbus, Ohio 43210

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POSTDOCTORAL TEACHING POSITION INSTRUCTOR OF BIOLOGY

One-year appointment. Supervise a two-semester general biology course for majors. Team-teach lecgeneral biology course for majors. Team-teach lectures with standing faculty; team-teach laboratories with teaching assistants. Applicants should submit their curriculum vitae, statement of purpose, and at least three letters of reference to: Chairman-Biology Discipline, Division of Natural and Physical Sciences, University of Colorado at Denver, Denver, Colo. 80202

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PROJECT MANAGER

Opening available immediately for a person to manage projects of committees of the Maritime Transportation Board (MTRB), National Research Council. Responsibilities include preparation of proposals, study plans, background research, schedules, budgets, and technical and administrative reports. Activities require frequent contact with executives, scientists, engineers, and scholars outside and within the National Research Council. Requires minimum of accredited/designated B.S. engineering minimum of accredited/designated B.S. engineering degree, or equivalent, and 5 years of demonstrated proficient performance in progressively more re-sponsible positions in marine-related engineering, design, production, or project management. Send

té to:
Randolph W. King, Executive Director,
MTRB, National Research Council,
2101 Constitution Avenue, NW,
Washington, D.C. 20418. An Equal Opportunity Employer

POSITIONS OPEN

POSTDOCTORAL POSITION(S) available in theoretical chemical research applied to biomedical problems in area of metal organic biosystems, opiate narcotics, chemical carcinogens, and intermolecular interactions. Background in quantum chemistry and computer science essential with additional courses in biochemistry and pharmacology preferred. Start: May 1978. Résumés and names of three references to: Professor Gilda H. Loew, Molecular Theory Laboratory, Department of Genetics, Stanford University Medical Center, Stanford, California 94305.

POSTDOCTORAL POSITION available immediate-POSTDOCTORAL POSITION available immediately for individual with appropriate background and increst in embryology. In vitro laboratory studies center on interacting embryonic tissues and developing mouse embryos. Send curriculum vitae and three letters of recommendation to: Professor William E. Koch, Department of Anatomy, 111 Swing Building 217H, University of North Carolina, Chapel Hill, N.C. 27514. The University of North Carolina is an Equal Opportunity Employer.

POSTDOCTORAL POSITION available 1 July 1978, for research on cell-mediated immune mechanisms in viral heart disease. Virology or immunology background preferred. Salary: \$12,000, plus fringe benefits. Please send curriculum vitae and three refer-

Jack F. Woodruff, M.D. Department of Pathology Cornell University Medical College 1300 York Avenue New York, N.Y. 10021

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RADIO ASTRONOMER

The Radio Astronomy Laboratory of the University of California at Berkeley has a position available for a radio astronomer having experience in interferometry. This is a research position and will be at a level and salary commensurate with the experience of the applicant. It has the possibility of being per-manent. The radio astronomer will be expected to provide operational and programming support for the Hat Creek millimeter wavelength interferometer. His/her research interests and plans should make good use of such an instrument. A 26-m dish equipped for spectroscopy at centimeter wavelengths and with a Mark II VLBI terminal is also available. The position will be available in fall 1978.

Qualified applicants should send curriculum vitae, including a list of publications and a statement of re-search interests, together with the names of at least three references who have been asked by the appli-cant to submit letters of recommendation. These application materials and letters of recommendation should be addressed to:

Dr. William J. Welch Radio Astronomy Laboratory University of California Berkeley, California 94720

All materials should be received at the above address no later than 25 April 1978.

The University of California, Berkeley, is an Equal Opportunity/Affirmative Action Employer. Candidates will be considered without regard to race, color, religion, sex, or national origin.

RADIO ASTRONOMER

The Radio Astronomy Laboratory of the University of California at Berkeley expects to appoint one or two postdoctoral fellows in radio astronomy. These are 2-year appointments and will be available in fall 1978. The instruments which are available at the university at present include a millimeter wavelength interferometer, a 26-m centimeter wavelength reflector equipped for spectroscopy and VLBI, and a 2-m submillimeter wavelength telescope at White Mountain, California. Applicants should send curriculum vitae, including a statement of research interests, together with the names of at least three references who have been asked by the applicant to submit letters of recommendation. These materials should be sent to:

Dr. William J. Welch Radio Astronomy Laboratory University of California Berkeley, California 94720

All materials should be received at the above address no later than 25 April 1978.

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POSTDOCTORAL POSITION

Position available beginning July 1978 to participate in research on electrophysiological correlates of human cognitive processing. Facility with computer and electronic equipment. Minimum stipend: \$10,000. Send curriculum vitae and references to: Dr. Walter Ritter, Department of Neuroscience, Albert Einstein College of Medicine, Bronx, New York 10461

RESEARCH ASSISTANT for research in the biological effects of pituitary diabetogenic proteins. Emphasis on studies at the membrane level on receptor for insulin and biochemical transport of glucose across membranes. Candidates must have Ph.D. degree and 3 years of postdoctoral research in this field. Salary: \$18,000 per annum. Interested individuals submit curriculum vitae, list of publications, and three letters of reference by 14 May to: John Oliver, San Diego Job Bank, 4235 National Avenue, San Diego, Calif. 92113. Advertisement paid for by employer. Equal Opportunity Employer.

RESEARCH ASSOCIATE with project on bile acid turnover and cholesterol metabolism and kinetics in relation to dietary fat. Experience in more than one of: sterol and steroid metabolism in relation to diet; separation of steroids, radioisotope kinetic studies, radioimmunoassay, lipoprotein analysis, tissue culture. Available 1 July. Apply by 1 May to: Dr. Jacqueline Dupont, Department of Food and Nutrition, Iowa State University, Ames, Iowa 50011. An Equal Opportunity/Affirmative Action Employer.

RESEARCH ASSOCIATE OR POSTDOCTORAL POSITIONS. Available immediately for Ph.D., M.D., or D.V.M. with training in cellular immunology, reproductive biology, and/or endocrinology to study immunopathogenic mechanisms in a laboratory animal model of genital disease. Send curriculum vitae to: Dr. Gail H. Cassell, Department of Microbiology, University of Alabama in Birmingham, Room 440-Lyons-Harrison Research Building, Birmingham, Alabama 35294.

RESEARCH ASSOCIATE—Immediate opening for Ph.D. interested in glycoproteins and membranes; previous experience preferred; salary from \$12,000 up, depending on experience. Please send curriculum vitae and three letters of reference to: Dr. O. P. Bahl, Chairman, Department of Biological Sciences, 347 Cooke Hall, State University of New York at Buffalo, Buffalo, N.Y. 14260.

SCIENTIFIC DIRECTOR

The Cancer Research Center (CRC) and the Department of Oncology at the University of Missouri-Columbia are searching for a basic science investigator to serve as scientific director of the Cancer Research Center and director of the Division of Cancer Biology within the Department of Oncology. An academic appointment is available at the associate professor or professor level in the Department of Oncology, and in such other department jointly as might be desirable. A background in tumor immunology or chemical carcinogenesis is preferred. The Cancer Research Center is a not-for-profit research corporation located adjacent to the Ellis Fischel State Cancer Hospital in Columbia, Missouri. The CRC scientific director is responsible for developing a broad program of research in oncology with particular emphasis in the areas of tumor immunology, chemical carcinogenesis, and tumor biology. An appropriate graduate school appointment will be made available at the University of Missouri-Columbia. Direct inquiries to: Dr. Ned D. Rodes, Director, Cancer Research Center, P.O. Box 1268, Columbia, Mo. 65201.

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Send curriculum vitae and two letters of recommendation to:

Dr. Elliot Weitzman Chairman, Department of Neurology and Director of Laboratory of Human Chronophysiology

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RESEARCH INSTRUCTOR

Department of Pathology, University of Alabama in Birmingham. Position is nontenure-track. Applicant should be self-supporting (have own research funds and provide own salary), and will be expected to participate in federally sponsored (NASA) contract research. The research will be in two areas: study of the interaction of lipid vesicles with mamalian cells in culture and applications of electrophoretic separation techniques to model whole-cell systems, that is, murine lymphocytic leukemia and thymoma cells in suspension culture. Ph.D. in cellular physiology or related discipline with post-doctoral experience is required. Applicant should have experience in the following techniques: thin section and freeze-fracture electron microscopy; cell culture techniques; induction of mitotic synchrony and cell cycle analysis; iodination of plasma membrane proteins and SDS-polyacrylamide gel electrophoresis; and complement-mediated cytotoxicity

Send applications to: Dr. Jere P. Segrest, Department of Pathology, University of Alabama in Birmingham, Birmingham, Alabama 35294. Deadline for applications: 30 April 1978. An Affirmative Action/ Equal Opportunity Employer.

RESEARCH INSTRUCTOR (HALF-TIME)

Salary is dependent upon grant support. Half-time salary is \$9000 per year. Duties are entirely related to cell separation experiments. Candidates must have previous experience in the separation of cells by centrifugation in continuous gradients and must have either a Ph.D. or an M.D.

Write: Thomas G. Pretlow, II, M.D., Department of Pathology, University of Alabama in Birmingham, Birmingham, Alabama 35294. Deadline for applications: 30 April 1978. An Affirmative Action/Equal Opportunity Employer.

SABBATICAL LEAVE POSITION 1978–1979. Rank: VISITING INSTRUCTORIASSISTANT PROFESSOR. Ph.D. or Ph.D. candidate preferred; master's acceptable. Candidates should have a broadbased biology background. Applications should be sent before 5 May to: Chairman, Department of Biology, State University College of Arts and Science, Geneseo, N.Y. 14454. Affirmative Action/Equal Opportunity Employer.

STUDY DIRECTOR SENIOR STAFF OFFICER

The Medical Follow-up Agency of the Assembly of Life Sciences, National Research Council, seeks candidates to direct study of persons exposed to atomic radiation. Position requires Ph.D. or equivalent, at least 10 years of experience in studies of human populations, and demonstrated ability to write scientific reports. Training in biostatistics desirable. Please submit résumé, stating salary requirement, to: Seymour Jablon, National Academy of Sciences, 2101 Constitution Ave., NW, Washington, D.C. 20418. An Equal Opportunity Employer.

RESEARCH SPECIALIST—Research position for 1 year in molecular biology of DNA tumor viruses. Applicant must have M.S. degree (Ph.D. preferred) and previous experience and demonstrated proficiency in the isolation of animal virus DNA and in restriction endonuclease cleavage analysis by the blotting technique.

Please send résumé to: COLLEGE OF MEDICINE AND DENTISTRY OF NEW JERSEY, Rutgers Medical School, Personnel Management Branch, P.O. Box 101, Piscataway, New Jersey 08854. Equal Opportunity/Affirmative Action Employer.

SENIOR TOXICOLOGIST RESEARCH POSITION

The Biology Division at Oak Ridge National Laboratory has an opening for an experienced experimental toxicologist. The position involves planning, conducting, and evaluating experiments on the potential toxicity of environmental and energy-related agents. Experience is needed in the investigation of molecular and biochemical mechanisms of toxicity, tissue culture experimentation, animal toxicity studies, and pathology. A Ph.D. or equivalent in the area of toxicology-pharmacology is required. Salary: \$2100 to \$2700 per month. Send résumé to: Department of Employment Security (Ref. ORNL), P.O. Box 3514, Oak Ridge, Tenn. 37830.

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A number of excellent opportunities at middle 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 mathematics). Please write, if possible enclosing résumé, to: Independent Educational Services, 80 Nassau Street, Princeton, N.J. 08540. (A nonprofit corporation.)

TISSUE TYPING TECHNOLOGIST—Supervisory technologist position in Transplantation Immunology Laboratory in Southeast. Responsibilities include HLA typing, antibody screening, mixed lymphocyte culture, and other immunological testing for lymphocyte function. Must be able to develop new procedures. Interested parties please reply with curriculum vitae and salary requirements to: Personnel Department, University of Mississippi Medical Center, 2500 North State Street, Jackson, Mississippi 39216. An Equal Opportunity Employer, MIF.

Visiting Instructor/Assistant Professor—General Education. Team-teach interdisciplinary, introductory course, general science in freshman program of 3-year-long foundation courses in humanities, social sciences, and natural sciences. Combination philosophy of science and physical sciences preferred. Ph.D. preferred: 3/4 teaching load. Salary: \$9000. Apply with credentials by 30 April 1978 to: Dr. Richard E. Hutcheson, Dean of Liberal Studies, State University of New York-Potsdam, Box 700, Potsdam, N.Y. 13676. An Equal Opportunity/Affirmative Action Employer.

TERRESTRIAL ECOLOGISTS. The Division of Environmental Impact Studies has two positions available for individuals interested in writing environmental impact statements for a variety of projects including the licensing of nuclear power plant construction and operation, uranium mill operation, and various coal-related projects. Applicants for the first position must have a Ph.D. (or equivalent) in plant ecology with research experience or a strong knowledge of trace element effects on plants. Applicants for the second position must have a Ph.D. (or equivalent) and have a strong, general background in terrestrial ecology. Research experience or a strong knowledge of wetland ecology is also desirable. If interested, send curriculum vitae to: Walter D. McFall, Argonne National Laboratory, 9700 South Cass Avenue, Argonne, Ill. 60439. An Equal Opportunity Employer, M/F/Handicapped. TERRESTRIAL ECOLOGISTS. The Division of En-

The University of California, Irvine, Department of Pathology, is recruiting for a **VETERINARY PA-THOLOGIST** with a D.V.M. and a Ph.D. in pathology. Faculty appointment at professor level. Required: administrative experience in a Department of Pathology in a school of veterinary medicine; experience in the direction and organization of research programs; experience in teaching of comsearch programs; experience in teaching of comparative pathology and the practice of comparative pathology related to vivarium and zoos. Must be interested in establishing a course at the graduate level in comparative pathology. All qualified candidates welcome; minorities and women encouraged to apply. Send curriculum vitae and references to: E. R. Arquilla, M.D., Ph.D., Department of Pathology, University of California, Irvine, Medical Center, 101 City Drive South, Orange, California 92668 by 31 May 1978. May 1978.

PROGRAMS

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Applications are being accepted for the Ph.D. program beginning in summer or fall 1978. Areas of emgram beginning in summer or fall 1978. Areas of emphasis in the department are cardiovascular, endocrine, respiratory, and neurophysiology. Prerequisites include an undergraduate degree with an average grade of B or above and a combined GRE score of 1100 plus. Fellowships or assistantships are available for all accepted into the program. More detailed information and applications can be obtained by writing.

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Department of Physiology
Texas Tech University School of Medicine
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GRADUATE STUDY

Predoctoral traineeships are available to qualified applicants for study in the Microbiology Department of the Mount Sinai School of Medicine of the City University of New York (CUNY). Graduate training will lead to a Ph.D. degree in the biomedical science. will lead to a Ph.D. degree in the biomedical sciences. Research areas under investigation within the department include genetics and biochemistry of animal viruses, cellular immunity, physicochemical studies of nucleic acids, structure of cell nuclei, regulation of gene expressions in bacteria, and microbial assays for detection of chemical carcinogens. Stipends are currently at the level of \$4,500 per year. Interested persons may contact: Pr. F. D. Kill. Interested persons may contact: Dr. E. D. Kilbourne, Department of Microbiology, THE MOUNT SINAI SCHOOL OF MEDICINE, CUNY, One Gustave Levy Place, New York, N.Y. 10029. An Equal Opportunity Employer.

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Applications are being accepted for pre- and postdoctoral training in environmental epidemiology to begin summer or fall 1978. Eligible persons are: (i) predoctoral candidates with a background in biologipredoctoral candidates with a background in biological or environmental sciences, epidemiology or biostatistics, or (ii) postdoctoral candidates with an M.D., D.V.M., D.D.S., or Ph.D. degree. Contact: Dr. Anita K. Bahn, Chairperson, Graduate Group in Epidemiology, University of Pennsylvania, 36 and Hamilton Walk, Philadelphia, Pennsylvania 19104; telephone: 215-243-4890.

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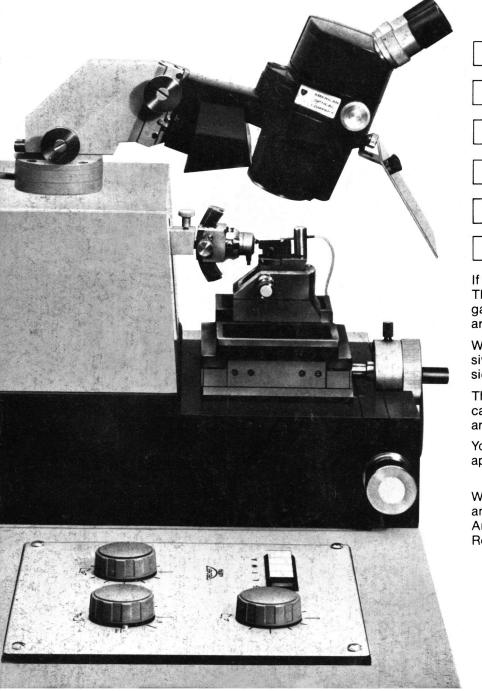
い光学機器でしたら、ニコンとご用命下さい。 とを発見して以来、光路を制御することは、今まで見ることができなかった正確な測定は、今まで見ることができなかった正確な測定に光学を用いております。ニコンはその献心的努力を通して、宇宙から海洋学まで、あらゆる工業、科学の必要を満すために革新的な光学機器を開発してまいりました。今日技術者とを発見して以来、光路を制御することは、人類がレンズを通過した光線で火を造れることに対対がレンズを通過した光線で火を造れることを発展を開発してよい。

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