Personnel Placement

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Positions Wanted: 40¢ per word; \$4 extra for use of box number. \$10 minimum charge, per insertion. Pre-payment required. This rate is available only to individ-uals; personnel agencies, companies, colleges, and uni-versities take display rate for all advertising.

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SCIENCE is published weekly, on Friday. Copy must be received in writing by Wednesday, $3\frac{1}{2}$ weeks before Friday issue date required. Send copy for all positions wanted ads and display ads under 5 inches to:

SCIENCE, Room 207 1515 Massachusetts Ave., NW Washington, D.C. 20005 Telephone: 202-467-4456

Send copy for display ads, 1/6 page and larger, to:

Scherago Associates, Inc. 1515 Broadway New York, N.Y. 10036 Telephone: 212-730-1050

Blind ad replies should be addressed as follows: Box (give number) SCIENCE 1515 Massachusetts Ave., NW Washington, D.C. 20005

POSITIONS WANTED

Analytical/Clinical Biochemist, Ph.D., AACC. Director certified. Six years of clinical experience, aca-demic and commercial, RIA and toxicology specialties. Sixteen years of industrial experience, re-search, product development, analytical. Patents, publications. Seeking technical management, de-partment head or director level. Box 180, SCI-ENCE. X

Anatomist/Gross. Excellent teacher. Competent also in neuroantomy, histology, embryology. Experi-ence with medical and dental students. D.D.S., M.S. (oral pathology), M.A. (anatomy) qualifications. Highest references. Desires stable position. Box 179, SCIENCE. 5/19, 26; 6/23

Aquatic Ecologist: Ph.D. (1976). Two years of post-doctoral research in lakes and rivers, plus teaching experience in limnology and general ecology. Seeks challenging research or teaching position. Papers. Box 176, SCIENCE. X

Botanist/Phycologist/Ecologist. Experienced in ma-rine and freshwater algal-phytoplankton taxonomy and ecology, including primary productivity, Ph.D.; publications. Seeks academic/industrial position. Box 119, SCIENCE. X

Cell/Developmental Biologist/Toxicology: Ph.D. 1968. Teaching and independent research experience. Seeks position in industry or government with op-portunity to apply expertise in cell/developmental biology and tissue culture to toxicological testing. Box 165, SCIENCE. X

Clinical Biochemist—M.T., Ph.D. (biochemistry), specialist in chemistry (ASCP), certified clinical chemist (NRCC). Many years of experience in labo-ratory service, radioimmunoassay, routine, auto-mated and special chemistry; teaching and adminis-trative experience in university hospital. Clinical re-search and publications in clinical technology. Highly motivated. Seeks hospital laboratory/medical school/medical technology position. Box 167, SCI-ENCE. 5/19, 26

Earth Scientist. Employment interests, credentials, and ice-sheet-tectonics synthesis are detailed in SUB-DUE THE EARTH (Delacorte). R. F. Walworth, P.O. Box 11711, St. Petersburg, Fla. 33733. Telephone: 813-360-4947. 5/19, 26; 6/2

19 MAY 1978



E TALL METERS ORIGINATED BY CORNING

Tall to look you in the eye and save space.

A new generation of pH me-ters from a wedding of bioengineering and solid state of the art electronics. Digital display on top where your eyes are. Controls down the side where your hands are. Flexing sidearm to take electrodes where the work is. Mounts left side or right.

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THREE YEAR WARRANTY THAT'S HOW RELIABLE THE TALL ONES ARE

Corning Glass Works warrants pH meters Model 125 and Model 130 to be free from defects in material and workmanship when used under normal laboratory conditions for a period of three (3) years.

POSITIONS WANTED

Environmental Scientist, M.S. environmental engi-Environmental Scientist, M.S. environmental engi-neering, M.S. forestry science. Experience in ener-gy-environment consulting, specializing in air pollu-tion; international organizations; developing coun-tries; government administration; university research. Also fluent in German and French. Seeks teaching, applied research, or international consult-ing position. Box 174, SCIENCE. X

Ethologist/Ecologist. Ph.D. Seeks research/teaching position. Nine years of university teaching in zoolo-gy, ecology, behavior, ornithology. Experience in arid, tropical areas; research in animal communica-tion. Publications. Box 172, SCIENCE. X

Gross Anatomy/Embryology/Teratology. Doctorate. Interdisciplinary biological sciences background. Teaching/independent research experience. Pub-lications. Broad interests in reproduction, develop-mental biology, epidemiology. Seeks teaching/re-teaching/independent research experimental biology. mental biology, epidemiology. See search position. Box 183, SCIENCE

Immunologist, Ph.D. 1971. Diversified experience at molecular, cellular, and clinical levels. Last 6 years in tumor immunology. Creative; 27 publications, in-cluding 2 reviews. Research/research-teaching posi-tion in California preferred. Box 181, SCIENCE. X

Microbiologist. Ph.D. Postdoctoral research experience and university teaching experience. Able to successfully compete for extramural research funding. Interested in the physiology of bacterial cell sur-faces. Seeks academic, industrial, or governmental position in the northeastern United States. Box 173, SCIENCE.

Ph.D.-D.V.M. with excellent teaching reputation sets permanent appointment to teach under-graduate and graduate basic medical subjects to biol-ogists, nurses, premedical, and allied and public health students. Also interested in developing in-tegrated premedical curriculum and research. Box 177, SCIENCE. X

Ph.D. **Physiologist**. Strong background of teaching in medical school physiology and in university under-graduate and graduate programs. Research biochem-ically oriented, emphasizing neurophysiology, drugs, and lipid metabolism. Publications. Will an-swer all replies. Box 175, SCIENCE. 5/19, 26; 6/2, 9

Scientific Photographer. Ten years of experience at major university. Excellent at designing or improvis-ing equipment and techniques. Strong background in biological sciences, especially plant pathology and entomology (includes master's degree). Résumé and portfolio on request. Box 139, SCIENCE.

SEM Specialist: 10 years of experience. B.S. degree in physics. Extensive experience in both the biologi-cal and physical sciences. Broad TEM background; x-ray analysis experience. Desires work in research oriented laboratory as manager/operator of SEM unit. For résumé detailing background, write: Box 171, SCIENCE. 5/19, 26

Austrian-American, writer in German and English. Austran-American, writer in German and Enginsn, seeks permanent appointment to **Teach German**, un-dergraduate and/or graduate. Also willing to develop a comprehensive program with emphasis on fluency in speaking, reading, writing, and stylizing, includ-ing literature. Box 178, SCIENCE. X

Toxicologist: Ph.D. 1977. Available to produce edu-cational materials on the safe handling of hazardous materials in your factory or business. Box 182, SCI-ENCE. 5/19, 26

POSITIONS OPEN

ASSISTANT PROFESSORSHIPS, Department of Microbiology and Immunology, Albert Einstein Col-lege of Medicine. Applicants are invited by the De-partment of Microbiology and Immunology from in-vestigators in the areas of (i) molecular biology of animal viruses and cells and (ii) immunology. Can-didates must possess M.D. or Ph.D. degrees and postdoctoral experience. They must have demon-strated capability to carry out independent research and to contribute to the teaching of graduate and medical students. Please send complete curriculum vitae, bibliogra-phy and brief summary of research interests, and names of three references to: Chairman, Research Committee, Department of Microbiology and Immu-nology, Albert Einstein College of Medicine, 1300 Morris Park Avenue, Bronx, N.Y. 10461. An Equal Opportunity/Affirmative Action Employer.

POSITIONS OPEN

HORTICULTURIST-EXTENSION ASSISTANT HORTICULTURIST--EXTENSION SPECIALIST, Department of Horticulture, Wash-ington State University; position located at the Irri-gated Agriculture Research and Extension Center, Prosser, Washington. Twelve-month appointment; 75 percent research and 25 percent extension. Avail-able 1 July 1978. A principal effort will be in prob-lems associated with the juice and wine grape indus-tries in Washington. Responsibilities will include de-velopment and execution of an extension education program. Requires Ph.D. in horticulture or closely related field with strong background in plant physiol-ogy. Demonstrated research and leadership capabili-ASSISTANT ogy. Demonstrated research and leadership capabili-ties and a desire to work with industry groups, graduate student students, and other scientists. Send réuate student students, and other scientists. Send ré-sumé, transcripts, and at least three letters of recommendation by 15 June 1978 to: Dr. O. E. Smith, Head, Department of Horticulture, Washing-ton State University, Pullman, Wash. 99164; tele-phone: 509-335-9502. An Affirmative Action/Equal Opportunity Employer. Women, minorities, and handicapped persons are encouraged to apply and to identify themselves as such on their applications.

ASSISTANT/ASSOCIATE PROFESSOR. Ph.D., with training in cell biology/cell physiology. EM ex-perience desired. Teaching graduates and under-graduates; participation in introductory course pos-sible. Development of a research program. Salary negotiable. Send transcripts, curriculum vitae, re-prints, and three letters of recommendation to: J. H. M. Henderson, Carver Research Laboratories, Tu-kegee Institute, Tuskegee Institute, Ala. 36088. Equal Opportunity/Affirmative Action Employer.

ASSISTANT OR ASSOCIATE PROFESSOR LABORATORY ANIMAL/ COMPARATIVE PATHOLOGY

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

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

Salary and rank are dependent upon background and experience.

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

Affirmative Action/Equal Opportunity Employed

Applications are invited for a tenure-track faculty position in **BIOCHEMISTRY** at the rank of **ASSIST-ANT PROFESSOR**, starting in fall 1978. Applicants should have postgraduate experience and be capable should have postgraduate experience and be capable of developing an independent research program. The department has a preference for persons with re-search interests in the following areas: transcrip-tional and translational processes in eukaryotic cells, hormonal induction mechanisms, develop-mental biochemistry of mammalian systems, or physical-biochemical studies of macromolecular function. Teaching responsibilities include participa-tion in medical biochemistry instruction and in teaching biochemistry graduate students. Please send a current curriculum vitae, a description of in-tended research program, and at least two letters of recommendation to: recommendation to:

Search Committee Department of Blochemistry The University of Texas Health Science Center at Dallas 5323 Harry Hines Boulevard Dallas, Texas 75235 An Equal Opportunity/Affirmative Action Employer

POSITIONS OPEN

ASSISTANT PROFESSOR UNIVERSITY OF ALASKA OUTDOOR RECREATION MANAGEMENT AND PLANNING

AND PLANNING Faculty position open 1 July 1978. Approximately 40 percent teaching and 60 percent research. In-structional role includes teaching courses in general conservation (with other faculty), outdoor recrea-tion management, interpretative services, and possi-bly land use planning; working with graduate stu-dents; and helping develop the B.S. progam in natu-ral resources management. The individual should be interested in developing a strong research program in areas of importance to Alaska. Ph.D. required; salary commensurate with experience. Send letter of interest and supporting materials to: Dr. Bonita J. Neiland, Director, Instruction and Pub-lic Service, School of Agriculture and Land Resources Management, University of Alaska, Fairbanks, Alaska 99701.

Management, Alaska 99701.

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

ALBERT EINSTEIN COLLEGE OF MEDICINE DEPARTMENT OF ANATOMY

An additional position is available at the ASSIST-ANT PROFESSOR level in research areas related to MEMBRANE BIOLOGY and CELL MOTILITY. Candidates should have postdoctoral experience, a record of research accomplishment in cell, molecu-lar, or membrane biology, and an interest in teaching medical and graduate students in the anatomical sci-ences. Applicants should submit curriculum vitae, a brief description of future research plans, and three letters of recommendation to: Chairman, Depart-ment of Anatomy, Albert Einstein College of Medi-cine, Bronx, New York 10461. An Equal Opportunity/ Affirmative Action Employer.

ASSISTANT PROFESSOR-BIOMEDICAL ENGI-NEERING, Ph.D. required; broad medical and elec-tronic background desired. Assist in teaching physi-ology to veterinary medical students and graduate students; and supervise the maintenance of all audio, video, and special systems in School of Vet-erinary Medicine. Salary commensurate with train-ing and experience. Résumé and three letters of ref-erence to: Dr. M. S. Morrissette, Department of Vet-erinary Physiology, Pharmacology and Toxicology, Louislana State University, Baton Rouge, La. 70803. Affirmative Action/Equal Educational and Employ-ment Opportunity Employer.

THE UNIVERSITY OF MANITOBA

The Department of Earth Sciences invites appli-cations for the position of ASSISTANT PROFES-SOR effective 1 September 1978. Applicants must have a Ph.D. and must be dedicated to teaching and search excellence in one of the following areas: Engineering Geology, or

 Paleontology.
 Appropriate experience would be desirable. Appropriate experience would be desirable. The appointment is subject to budgetary approval as to both status and rank. The salary will be com-mensurate with experience and qualifications. Cana-dian citizens and landed immigrants are especially invited to apply. Applications, including a curriculum vitae and the names of three references, should be addressed to: Dr. W. B. Brisbin Densetment of Farth Sciences

Department of Earth Sciences University of Manitoba Winnipeg, Manitoba, Canada R3T 2N2 to be received by 15 June 1978.

ASSISTANT PROFESSOR OF PHARMACOLOGY UNIVERSITY OF KENTUCKY COLLEGE OF MEDICINE

The Department of Pharmacology invites applications for the position of assistant professor. Can-didates should have a primary interest in the area of drug metabolism and kinetics. Responsibilities of the drug metabolism and kinetics. Responsibilities of the position include the teaching of neuropharmacology to graduate students, pharmacology lectures on the principles of drug metabolism and kinetics to medi-cal students, and the development of a research pro-gram. Inquiries with a curriculum vitae and bibliog-raphy should be sent to

Dr. William R. Martin, Chairman Department of Pharmacology Room MR111 Research Facility #2 University of Kentucky Lexington, Kentucky 40506 An Equal Opportunity Employer

SCIENCE, VOL. 200

THE UNIVERSITY OF WESTERN AUSTRALIA DEPARTMENT OF GEOGRAPHY ASSOCIATE PROFESSOR IN PHYSICAL GEOGRAPHY (ENVIRONMENTAL STUDIES)

The above position was created following the retire-The above position was created following the retire-ment of the reader in geography, Dr. J. Gentilli. The successful applicant will be expected to exercise leadership in teaching and research in the fields of physical geography and environmental studies as parts of geography programmes in the Faculties of Arts and Science and in association with courses in human, regional, and applied geography. Current salary: A\$26,498 per annum. Closing date:

17 June 1978

Further information available from: The Staffing Of-ficer, The University of Western Australia, Nedlands, Western Australia, 6009, Australia.

ASSOCIATE PROFESSOR OF RADIATION THERAPY

The Joint Center for Radiation Therapy and the Department of Radiation Therapy of the Harvard Medical School invite applications for the position of associate professor. Candidate should have a strong associate professor. Candidate should have a strong interest in hematopoiesis and be capable in radiation biology. Application should include curriculum vitae, bibliography, and a summary of research goals as well as the names of three professionals acquaint-ed with the applicant's work. Applications should be directed to: Samuel Hellman, M.D., Joint Center for Radiation Therapy, 50 Binney Street, Boston, Mass. 02115. 02115.

Harvard University, and the Joint Center for Ra-diation Therapy, is an Equal Opportunity Employer with an Affirmative Action Program, and it encour-ages applications from women and members of minority groups.

BIOCHEMISTRY FACULTY POSITION

The Department of Biochemistry, Eastern Virginia Medical School, invites applications for an assistant bility to successfully initiate and develop research en-vironment. Candidates should have a demonstrated ability to successfully initiate and develop research projects, as well as participate in teaching of medical students. Applicants should send curriculum vitae and the names of three references to: Dr. Karl A. Schellenberg, Department of Biochemistry, Eastern Virginia Medical School, 700 Olney Road, Norfolk, Virginia 23501, no later than 1 July 1978.

An Equal Opportunity/Affirmative Action Employer

BIOCHEMISTRY FACULTY MEMBER

Texas A & M University College of Medicine has a faculty opening in the Department of Medicine has a faculty opening in the Department of Medical Bio-chemistry which can be filled at the assistant, associ-ate, or full professor level. Candidate should have a Ph.D. or M.D. and postdoctoral or faculty research experience. Senior-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 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

BIOCHEMIST/MICROBIOLOGIST—M.S. or Ph.D. Production and purification of enzymes. Expe-rience in fermentation, optimization, enzyme imrience in fermentation, optimization, enzyme im-mobilization, affinity chromatography, and standard protein purification techniques required. Salary: \$20,000 to \$25,000. Send résumé, copies of all col-lege transcripts, and references to: DR. TERRY L. WEAVER, BIOCENTRICS, HARLECO DIVISION, American Hospital Supply Corporation, 480 Demo-crat Road, Gibbstown, N.J. 08027. Equal Opportunity Employer, M/F

BIOLOGIST. Ph.D. with training in animal physiology and marine biology for appointment to faculty position at assistant professor rank beginning September 1978. Undergraduate teaching excellence essential; interest in some research desirable. Send applications and résumés by 9 June to: Dr. Gordon Leversee, Blology Department, Nasson College, Springvale, Maine 04083.

19 MAY 1978

POSITIONS OPEN

BIOCHEMIST

Position available in our research products division for a Ph.D. with extensive experience in enzyme purification and nucleic acids chemistry. Send reply with curriculum vitae to:

S. Rabbani ENZO BIOCHEM, INC. 300 Park Avenue South New York, N.Y. 10010

BIOCHEMISTRY. Assistant professor, Spanish-English. Teaching prime object. Send credentials to: Dean's Office, Catholic University of Puerto Rico, School of Medicine, Sta. 6, Ponce, P.R. 00731. Medical school with proven accreditation.

DIRECTOR OF RESEARCH. Large, private, non-profit psychiatric hospital seeks full-time director to coordinate existing programs and develop new proj-ects in clinical research. Experience in research needed, and knowledge of funding sources and ad-ministration desirable. There is an active research/ teaching affiliation with Rutgers University, and fac-ulty appointment is likely. Generous salary plus gen-erous fringes and opportunity for private practice in-come in addition. Send résumé to: **Robert S. Garber, M.D., P.O. Box 147, Belle Mead, New Jersey 08502.**

DIRECTOR OF LABORATORY ANIMAL MEDICINE

Research veterinarian, D.V.M./Ph.D. is being sought to develop and head service and conduct ex-perimental investigation in newly established medi-cal school. Associate/full professorship; salary com-mensurate with qualifications and research achieve-ment. Background in an area of veterinary micro-biology upday persentations entry incomment. Background in an area of veterinary micro-biology, virology, parasitology, pathology, or immu-nology and teaching potential desirable. Candidates should have broad knowledge of clinical veterinary diseases; breeding and management of experimental animals. Send curriculum vitae and the names of three professional references to: Dr. Alvin Volkman, Chairman, Search Committee, Department of Pathol-ogy, School of Medicine, East Carolina University, Greenville, N.C. 27834. An Equal Opportunity/Af-firmative Action Employer.

ECOLOGIST

Applications are invited for a full-time (12-month) appointment as ASSISTANT PROFESSOR in the Department of Entomology, Mississispi State Uni-versity. The successful candidate will develop pro-grams of research and teaching which contribute to present programs in host-plant resistance and pest management. Available funding presently supports work mainly in cotton, but the position is not a spe-cific commodity assignment. Preference will be giv-en to candidates with interests in host-plant resist-ance and population biology, and who will work cooperatively with scientists in other disciplines toward the development of integrated pest manage-Applications are invited for a full-time (12-month) toward the development of integrated pest manage-ment systems. The Ph.D. degree is required with postdoctoral work highly desirable. Send a copy of résumé, transcripts, and three letters of recommendation to:

Dr. Daniel L. Shankland, Head Department of Entomology Drawer EM Mississippi State University Mississippi State, Miss. 39762

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

RESEARCH ASSOCIATE

A 1-year postdoctoral research position is available for a person with training and experience in field-crop pest management. A broad background in aspects of pest control (biological, cultural, chemical, and so forth) required. Knowledge in production agricul-ture is desirable. Position requires direction and coordination of aspects of research projects in soy-bean insect pest management. Candidates should have a Ph.D. in entomology. Salary is competitive depending on experience. Send résumé and three letters of recommendation, with a copy of tran-scripts to: Dr. H. N. Pitre, Department of Entomolo-gy, Drawer EM, Mississippi State University, Missis-sippi State, Miss. 39762, no later than 1 July 1978. Mississippi State University is an Affirmative Ac-A 1-year postdoctoral research position is available Mississippi State University is an Affirmative Action/Equal Opportunity Employer.

POSITIONS OPEN

BIOCHEMIST

Ph.D., permanent faculty position at the assistant professor level, beginning September 1978, to fill a joint appointment in the Departments of Biology and Chemistry. Teaching load will include cell biology and microbiology in the Biology Department. In the Chemistry Department the teaching responsibility will include biochemistry and some portion of the organic courses. Send résumé with recommenda-tions to: Dean Robert Lewis, Cornell College, Mount Vernon, Iowa 52314. An Equal Opportunity/Affirm-ative Action Employer.

BIOLOGICAL OCEANOGRAPHER

The Oceanography Department at Dalhousie University is seeking a biological oceanographer with-specialization in **FISH BIOLOGY** to develop a re-search program, to teach graduate courses, and to work with graduate students on topics dealing with marine fishes. The appointment will lead to tenure, and will probably be made at the assistant professor

The Oceanography Department is a component of a community of active research laboratories in the Halifax area whose dominant interest is marine science. Ship time is available on research vessels, and excellent research aquarium facilities exist.

Applicants should send a letter describing their re-search interests, a copy of their curriculum vitae, and the names of three people willing to serve as references to:

Dr. P. J. Wangersky, Chairman Oceanography Department Dalhousie University Halifax, Nova Scotia, Canada B3H 4J1

Department of Interior, Fish and Wildlife Service, Office of Biological Services. This office is recruiting for a **BIOSTATISTICIAN**,

This office is recruiting for a **BIOSTATISTICIAN**, GS-12/13. The incumbent will serve on an inter-disciplinary team consisting of other scientists in-volved with research of impacts of electric power generation and transmission on the nation's fish and wildlife resources. Incumbent will be responsible for developing statistical valid study designs and proce-dures. Quantitative or systems ecologist with a strong background in statistics is required. Appli-cants must have either Civil Service status or be cur-rently on the CSC 421 Life Sciences or 424 Engi-neering Physical Science register. Qualified applicants should only respond in writ-ing. two weeks from the date of this advertisement.

ing, two weeks from the date of this advertisement, by sending the Standard Form 171 and supporting material to: Team Leader, National Power Plant Team, 1451 Green Road, Ann Arbor, Mich. 48105. An Equal Opportunity/Affirmative Action Employer.

CARDIOLOGIST/PHARMACOLOGIST. The Cardiovascular Research and Training Center (CVRTC) and the Department of Pharmacology at the Univer-sity of Alabama Medical Center have available a posity of Alabama Medical Center have available a po-sition at the assistant professor (pharmacology) lev-el. The individual will hold a primary appointment as associate scientist, CVRTC. This position is open to qualified individuals fulfilling three criteria. First, the individual must hold a Ph.D. in pharmacology with postdoctoral training desirable. Second, the in-dividual should have a background of research in the cardiovascular area with extensive experience in studies of the function of the membrane sodium-po-tassium pump in cardiovascular cells. Finally, the in-dividual must have a firm commitment to teaching tassium pump in cardiovascular cells. Finally, the in-dividual must have a firm commitment to teaching programs in pharmacology oriented to medical, den-tal, and graduate students. Apply to: Cardiovascular Research and Training Center, University of Alabama Medical Center, University Station, Birmingham, Alabama 35294, attention: Chris Ballard, Adminis-trative Assistant; telephone: 205-934-2580. An Equal Democtivity (Affrancian, Actionar Explanation) *Opportunity/Affirmative Action Employer.* Expiration date for receipt of applications: 1 June 1978.

FACULTY POSITION—PHYSICAL BIOLOGY. September 1978, tenure-track. Applications invited from persons interested in teaching biology courses and research in a physically oriented area of biology, for example, microbiology, biochemistry, and cell physiology. Ph.D. required; postdoctral experience desirable; and evidence of research activity, for ex-ample, publications, proposals, and so forth. For-ward résumé and letters of recommendation by 15 June 1978 to: June 1978 to:

S. S. Stivala

5. 5. Suivana Search Committee Department of Chemistry and Chemical Engineering Stevens Institute of Technology Hoboken, New Jersey 07030

An Equal Opportunity/Affirmative Action Employer

CELL BIOLOGIST/BIOCHEMIST. Postdoctoral position (M.D. or Ph.D.) available to start anytime prior to 31 December 1978 to study regulation of protein synthesis in cultured mammalian cells including hepatocytes. Experience in cell culture techniques and/or preparative and analytical biochemical tech-niques necessary. Fellowship appointment at Har-vard Medical School. Send application to: Dr. J. L. Breslow, Metabolism Division, Children's Hospital, 300 Longwood Avenue, Boston, Mass. 02115. An Af-firmative Action/Equal Opportunity Employer.

CELL BIOLOGIST, BIOCHEMIST. One year only CELL BIOLOGIST, BIOCHEMIST. One year only. Biology Department seeks instructor or assistant professor to teach introductory cell biology and a senior course in biochemistry. Some background in genetics desired. Applicants should send curriculum vitae, graduate and undergraduate transcripts, and names of three references to: Dr. Kenneth R. John, Department of Biology, Franklin and Marshall Col-lege, Lancaster, Pa. 17604.

ENERGY/POLICY/SPECIALIST

The University of California is seeking an energy policy specialist. The position will be with the Ener-gy and Resources Council, a systemwide activity of the university. The successful candidate will have responsibility for maintaining liaison with state and federal energy officials, business, and key citizens groups; identifying critical energy policy research needs suitable for university involvement; identi-fying and involving members of the university com-munity capable of and interested in carrying out needed research; developing his/her own research program; developing research proposals in the ener-gy policy area; and communicating research results program; developing research proposals in the ener-gy policy area; and communicating research results both within and outside the university. The success-ful candidate will have demonstrated his/her capac-ity for working effectively at the interface between the academic research and public policy commu-nities. Practical experience is a prerequisite. Techni-cal competence in energy or energy-related areas is required. While a doctorate or the equivalent is pre-ferred, there are no educational prerequisites. Ad-vancement in the position will be based upon per-formance in the indicated areas, not upon normal ac-ademic criteria. The position will be located at the Davis campus of the University of California. This career position is not tenure-track. However, associ-ation with an academic department can probably be ation with an academic department can probably be arranged, and some teaching is encouraged. A réarranged, and some teaching is encouraged. A ré-sumé, names of three references, and a statement of career objectives should be submitted by the closing date of 31 May 1978 to: **Professor Paul P. Craig, Di-**rector, Council on Energy and Resources, 4455 Chemistry Annex, University of California, Davis, Calif. 95616. The University of California is an Equal Opportunity/Affirmative Action Employer.

ENVIRONMENTAL HEALTH/INDUSTRIAL HY-GIENE—ASSISTANT PROFESSOR. Teaching and research responsibilities in occupational safety and health and industrial hygiene. Ph.D. required in in-dustrial hygiene or in environmental health with ex-tension industrial hygiene. dustrial hygiene or in environmental health with ex-tensive industrial hygiene background. Salary com-mensurate with experience. Send curriculum vitae, transcripts, and three letters of recommendation to: Dr. Gene W. Miller, Head, Department of Blology, UMC 53, Utah State University, Logan, Utah 84322; by 15 July 1978. An Equal Opportunity/Affirmative Action Employer.

GENETICIST/PLANT BREEDER. Tenure-track po-GENETICIS IPLANT BREEDER. Tentre-track po-sition for assistant professor of pomology and assist-ant geneticist in the Experiment Station, University of California, Davis. Ph.D. required; postdoctoral training desirable. A strong background in molecular genetics and biochemistry and an interest in the de-velopment of fruit tree cultivars are required. Re-search designed to utilize a cell culture system, in-cluding mutation, selection and cell fusion, as a part of a cultivar improvement program in tree fruit space of a cultivar improvement program in the fruit spe-cies. Provide guidance to graduate students and par-ticipation in plant science teaching program.

Applicants should send a letter describing their qual-ifications and research interests, a résumé, pub-lication list, thesis summary, and list of courses or transcripts. They should request that letters of eval-uation from three persons be sent to: Dr. H. T. Hart-mann, Chairman, Search Committee, Department of Pomology, University of California, Davis, California 95616.

Applications must be received by 30 September 1978. Position available 1 January 1979.

The University of California is an Equal Opportu-nity/Affirmative Action Employer and invites applications from all qualified individuals.

POSITIONS OPEN

FACULTY POSITION IN BIOCHEMISTRY

The Department of Biochemistry and Molecular Biology at The University of Texas Health Science Center at Houston invites applications for a faculty position from qualified individuals with a com-mitment to teaching and research in biochemistry and molecular biology. Responsibilities will include participation in the medical school curriculum and in participation in the medical school curriculum and in the graduate training program within the Graduate School of Biomedical Sciences, as well as devel-oping and conducting an independent research pro-gram. The area of research and the level of appoint-ment are open; applicants should have postdoctoral research experience. Applicants should send cur-riculum vitae, list of publications, and a summary of research interests and have three letters of recomresearch interests, and have three letters of recom-mendation submitted on their behalf to: Dr. John A. DeMoss, Department of Biochemistry and Molecular Demoss, Department of Biochemistry and Molecular Biology, The University of Texas Medical School at Houston, P.O. Box 20708, Houston, Texas 77025. Ap-plication deadline: 15 June 1978. An Equal Opportu-nity/Affirmative Action Employer.

LUDWIG-MAXIMILIANS-UNIVERSITÄT MÜNCHEN

FACULTY POSITION—BIOCHEMISTRY The Faculty of Chemistry and Pharmacy invites ap-plications for the post of a full professor of biochem-istry (successor of Professor Feodor Lynen) avail-Istry (successor of Professor Feodor Lynen) avail-able from 1 January 1980. The appointee is expected to pursue a rigorous, independent research program in the field of biochemistry and to have teaching ex-perience. The age limit is 55 years. Applications with curriculum vitae, a complete list of publications, and proof of teaching experiences should be sent not lat-er than 30 June 1978 to: **Dean of Fachbereich Chemie** und Pharmazie der Ludwig-Maximilians-Universität München, Geschwister-Scholl-Platz 1, D-8000 München 22, German Federal Republic.

INDIANA UNIVERSITY SCHOOL OF MEDICINE DEPARTMENT OF PATHOLOGY

Applications for full-time faculty positions are in-vited. Candidates should be Board-eligible or -certified anatomic pathologists with interest and training in surgical pathology, diagnostic cytology, neuro-pathology, or pediatric pathology. Curriculum vitae should be sent to:

Joshua Edwards, M.D. Chairman, Department of Pathology Indiana University School of Medicine 1100 West Michigan Street Indianapolis, Indiana 46202

Indiana University is an Affirmative Action Employer.

FACULTY POSITION DEPARTMENT OF MATERIALS SCIENCE OREGON GRADUATE CENTER **BEAVERTON, OREGON**

The Materials Science Department at the Oregon Graduate Center is seeking an additional faculty per-son with a strong background in welding engineering and related materials science. The person's back-ground should contain a strong emphasis in metallur-gy, in addition to the standard academic credentials for a faculty rank appointment. The Materials Sci-ence Department is establishing an expanded weld-ing/metallurgy graduate research and educational program to meet challenging needs in material sci-ence and technology. In order to meet these objec-tives, a strong program, which intermixes welding processes and techniques with materials science, is essential. The Materials Science Department at the Oregon essential.

The new program, which is primarily graduate level teaching and research leading to M.S. and Ph.D. de-grees, will include all phases of welding, including laser welding, and related processes. Research and/ or teaching experience in the welding industry is desirable.

The position includes both federal and private research program responsibilities, as well as extensive industrial liaison. The ability to effectively commu-nicate with students and the academic and industrial communities is essential.

Salary and position commensurate with experience. Please send résumé to:

F. Paul Carlson, Vice President Oregon Graduate Center 19600 Northwest Walker Road Beaverton, Oregon 97005 Equal Opportunity Employer

POSITIONS OPEN

FACULTY POSITIONS IN PATHOLOGY

Applications are invited for two positions in the Department of Pathology. Appointment level will be commensurate with the individual's experience. Duties will be limited to teaching second year medi-cal students and independent proceeds. cal students and independent research. Require-ments include an M.D. and postgraduate training in research. Send curriculum vitae and bibliography to: J. B. Caulfield, M.D.

Department of Pathology University of South Carolina School of Medicine Columbia, S.C. 29208

An Affirmative Action/Equal Opportunity Employer

DEPARTMENT OF ANIMAL SCIENCE THREE FACULTY POSITIONS OPEN

1) Assistant professor in dairy cattle reproductive physiology. Position available 1 July 1978. Duties are 50 percent teaching, 50 percent research. Qualifications; Ph.D. in reproductive physiology and training in physiology, and biochemistry. Responsibilities include teaching an undergraduate course in general animal physiology and a research program on problems of reproduction in dairy cattle program on problems of reproduction in dairy cattle. 2) Assistant professor in meat science. Position available 1 July 1978. Duties are 50 percent teaching, 50 percent research. Qualifications: Ph.D. in meat science with training in muscle biology, biochemistry, and physiology. Teaching will include an undergraduate and a graduate course in meat science. Research will be in the area of meat animal production and meat science.

and meat science. 3) Assistant or associate professor in nutritional bio-chemistry. Position is available 1 September 1978. Responsibilities: 30 percent teaching, 70 percent re-search. Qualifications: Ph.D. in biochemistry or nu-tritional biochemistry with an interest in the study of metabolic systems in ruminant lactating animals. Teaching at the graduate level.

Individuals interested in any of the three positions send curriculum vitae, a statement on research inter-ests, and arrange for at least three letters of reference to be submitted to: R. J. Young, Morrison Hall, Cornell University, Ithaca, N.Y. 14853. An Equal Op-portunity/Affirmative Action Employer; minorities, women, and the handicapped are encouraged to apply.

MEDICAL MICROBIOLOGIST

The University of Minnesota-Duluth, School of Medicine, invites applications for a tenure-track po-sition as assistant/associate professor. Broad knowl-edge of pathogenesis of microorganisms and docu-mentable evidence of excellent teaching potential desired. Major responsibilities involve teaching medical microbiology to freshman/sophomore medi-cal students in new innovative family practice pro-gram, and development of a research program ca-pable of competing successfully for outside funding. Employment begins January 1979 in new Medical Science Building. Applications from minorities par-ticularly encouraged. The University of Minnesota is committed to the policy that all persons shall have Equal Access to its programs, facilities, and em-ployment without regard to race, creed, color, sex, national origin, or handicap. Send curriculum vitae and three letters of reference by 1 July 1978 to: Rich-The University of Minnesota-Duluth, School of and three letters of reference by 1 July 1978 to: Rich-and three letters of reference by 1 July 1978 to: Rich-ard J. Ziegler, Ph.D., Department of Microbiology, University of Minnesota-Duluth, 2205 East Fifth Street, Duluth, Minn. 55812.

MEMBRANE PHYSIOLOGIST

Postdoctoral fellow or research associate depending Postdoctoral fellow or research associate depending on training and experience. Position available Sep-tember 1978. Preference to candidate with back-ground in physics, mathematics, biophysics, and cell biology. Research involves physiology, pharmacolo-gy, and immunopathology of neuromuscular trans-mission. Send curriculum vitae, bibliography, and names of three references to: Dr. William L. Nastuk, Department of Physiology, Columbia University, 630 West 168 Street, New York, N.Y. 10032. An Equal Opportunity/Affirmative Action Employer.

MOLECULAR VIROLOGY

Pre-and postdoctoral positions are available for studies on the molecular biology of virus replication with special emphasis on early interactions between viruses and cells and on the structure and function of RNA virus genomes.

Reply with résumé to: Dr. Alfred T. H. Burness, faculty of Medicine, Memorial University of New-foundland, St. John's, Newfoundland, Canada A1B

FACULTY POSITION-The Animal Science Department of Iowa State University is seeking an individual with a Ph.D. degree in reproductive individual with a Ph.D. degree in reproductive physiology for a position consisting of approxi-mately 40 percent teaching and 60 percent research. Undergraduate teaching responsibilities will include laboratory and lecture courses in physiology of re-production in farm animals and advising under-graduate students. Research in basic aspects of re-production in farm and laboratory animals. Research production in farm and laboratory animals. Research emphasis should include physiological and biochem-ical aspects of problems dealing with reproductive efficiency in farm animals. Send résumé, a list of publications, and a minimum of three references to: Dr. S. A. Ewing, Head, Animal Science Department, 101 Kildee Hall, Iowa State University, Ames, Iowa 50011. Affirmative Action/Equal Opportunity Em-ployer ployer.

Biological education, **DEPARTMENT HEAD**, bio-logical sciences organization. Duties include liaison with governmental agency programs in education and the college/university biological community, identification of trends and related requirements for identification of trends and related requirements for development of advanced, innovative educational programs in the life sciences. Ph.D. and teaching ex-perience preferred. Position available on or about 1 July. Résumé must include present salary. Salary negotiable. Reply to: Executive Director, American Institute of Biological Sciences, 1401 Wilson Boule-vard, Arlington, Va. 22209.

HEAD, DEPARTMENT OF MEDICINE

Applications are sought for the position of head, De-partment of Medicine, University of Connecticut, School of Medicine. Please send curriculum vitae, bibliography, and references to: Dr. Robert L. Volle, Associate Dean, University of Connecticut, School of Medicine, Farmington, Conn. 06032.

An Equal Opportunity Employer, M/F

MIAMI DADE COMMUNITY COLLEGE INSTRUCTOR—CHAIRPERSON

Responsible for instruction of courses in marine science technology; budget and equipment manage ment; curriculum and facility development. Min mum requirements: master's degree in related field, knowledge of vocational education in marine science job related areas, teaching and administrative experience preferred.

Salary: competitive, based on academic rank estab-lished by education and experience plus administrative supplement.

Submit résumé to: Personnel Services, 300 North East Second Avenue, Miami, Fla. 33132. An Equal Access/Equal Opportunity Community College

ORGANIC POLYMER CHEMISTRY. Applications are invited for an assistant professor level position. Candidates must have postdoctoral research experi-ence and a demonstrated ability to conduct inde-pendent research programs. Applications containing a résumé, list of publications, future research objectives, and names of three referees should be sent no later than 15 June 1978 to: Search Committee, Mid-land Macromolecular Institute, 1910 West Saint An-drews Drive, Midland, Mich. 48640. Midland Macro-molecular Institute is an Equal Opportunity Employer and welcomes applications from women and minorities.

POSTDOCTORAL ASSOCIATE IN BIOLOGY

Research position in Biology Department in the field of muscle biochemistry, applying biomedical tech-niques in the area of regulatory processes of muscle contraction.

Qualifications: Ph.D. in biophysics or equivalent. Two years of training in muscle biochemistry. Fa-miliarity with isolation and characterization of muscle proteins. Working knowledge of biophysical techniques including circular dichroism, fluorescent energy transfer, and enzyme mechanisms. Must be able to do independent research and experimenta-tion and be familiar with laboratory techniques using spectrophotometers, fluorimeters, circular dichrographs, and pH-stats.

Equipment, supplies, laboratory space, and scientific instruments provided by employer; 40-hour work week; eligible for University health benefits. Salary: \$12,500. Send résumés to: Chairman, Biol-ogy Department, Brandeis University, Waltham, Massachusetts 02154.

MARINE & ESTUARINE ENVIRONMENTAL RESEARCH

Battelle's William F. Clapp Labora-tories is seeking well-qualified indi-viduals with appropriate contract/ grant research experience:

Two Senior Staff—Full time positions——For Ph.D.'s with several years' postgraduate experience.

- AQUATIC TOXICOLOGY-Familiarity with analytical instrumentation and methodologies is highly desirable
- BENTHIC ECOLOGY-Coastal/ continental shelf marine benthic communities; strong statistical background is highly desirable.

POLYCHAETE TAXONOMY-One summer only position— Re-quires a B.A./B.S. in polychaete taxonomy with experience in the identification and taxonomy of temperate polychaeta.

Applicants for these positions should be able to participate in existing research projects and play integral roles in the development of new research projects.

We offer excellent salaries and benefits plus a challenging and rewarding work environment. Please send résumé and salary requirements in confidence to: **B. R. Richards, Per**in sonnel Coordinator

Battelle

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ECOLOGICAL INFORMATION TRANSFER SPECIALISTS (ITS)—CHALLENGING NEW OPPORTUNITY REQUIRING BROAD INFORMATION SCIENCE/SUBJECT MATTER BACKGROUND

A SECTION AND A SEC

The Biological Services Program, U.S. Fish and Wildlife Service (FWS), needs an information transfer specialist at each of five locations: Anchorage, Alaska; Portland, Oregon; Denver, Colorado; Atlanta, Georgia; and Newton Corner (Boston), Massachusetts. Serves as information science member of interdisciplinary unit of ecological experts providing information/technology/ technical assistance to resource development planners and decisionmakers in federal and state governments and private sector in FWS regions as part of national system. ITS determines requirements for ecological information/technology. governments and private sector in FWS regions as part of national system. ITS determines requirements for ecological information/technology transfer support services covering full transfer spectrum from identification of users and needs to evaluation of information/technology applications. ITS is an information science generalist/manager. Conceptualizes, develops, and manages required services involving on-line systems (bibliographic, numerical, and geo-based), print media dissemination (all aspects beginning with dissemination strategy integrated with R & D planning) and other communication media and systems. Capable in information science R & D processes such as user needs assessment, information systems analysis, study design, and so forth. Experienced in program planning and budgeting. Ability to develop, implement, and manage information transfer program.

ITS is a technical communication manager, excellent in interpersonal communication at all professional levels, and a good write

Four years of college in natural/physical science or engineering and 3 years of experience in relevant information science work are required.

Applicants should: have CSC status or be currently certified in Senior Level CSC 408 Register at GS-13 level, and provide updated SF-171 and Supervisor Appraisal (Form 3-142). Those not certi-fied who believe they could qualify at GS-13 level should immediately apply to the Civil Service Commission for certification and provide a copy of their SF-171 in response to this ad. Equal Opportunity Employer.

Applicants should respond in writing to the **Personnel Office** at one or more of the following Department of the Interior locations within 2 weeks from the date of this advertisement.

U.S. Fish and Wildlife Service Lloyd 500 Building, Suite 1692 500 Northeast Multnomah Street Portland, Oregon 97232 (also Alaska applicants)

U.S. Fish and Wildlife Service P.O. Box 95067 Atlanta, Georgia 30347

U.S. Fish and Wildlife Service One Gateway Center Suite 700 Newton Corner, Massachusetts 02158

U.S. Fish and Wildlife Service P.O. Box 25486 Denver Federal Center Denver, Colorado 80225

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LABORATORY DATA MANAGER. The University of Texas Port Aransas Marine Laboratory is seeking an individual with a strong background in computer an individual with a strong background in computer science and statistics to administer a remote job en-try site and multiplexed interactive terminals to a CDC 6400/6600; supervise a staff of statisticians, programmers, and keypunchers to insure a flow of data as required by a major multidisciplinary scien-tific study; provide backup programming and consul-tation; lead a laboratory computer committee to plan percessery growth of computer services. Minimum tation; lead a laboratory computer committee to plan necessary growth of computer services. Minimum requirement: bachelor's degree with 2 years of expe-rience. Prefer master's degree. Minimum recruiting salary: \$18,804. Send résumé to: Dr. Oswald A. Roels, Director, The University of Texas Marine Sci-ence Institute, Port Aransas Marine Laboratory, Port Aransas, Texas 78373. An Equal Opportunity/Affirm-ative Action Fundaver ative Action Employer.

LECTURER DEPARTMENT OF BIOLOGY UNIVERSITY OF CALIFORNIA, RIVERSIDE

The Department of Biology, University of California The Department of Biology, University of California at Riverside, has two temporary teaching positions available beginning 1 September 1978. Applicants must have a Ph.D. or equivalent degree and qualifi-cations to teach an undergraduate course in general biology. Preference will be given to individuals with training in cell biology, population biology, and microbiology.

Applicants should send curriculum vitae, including letters from three referees, to:

Dr. Irwin W. Sherman, Chairman Department of Biology University of California Riverside, California 92521

The University of California is an Equal Opportu-nity/Affirmative Action Employer.

PHYSIOLOGY CHAIRMAN-MARYLAND

Applications are invited for chairperson of the De-Applications are invited for chairperson of the De-partment of Physiology. Candidates should hold the Ph.D. and D.D.S. degrees or Ph.D. degree with a record of research and teaching experience in oral physiology. Administrative experience required. Rank and salary commensurate with qualifications. Excellent facilities available for research and gradu-ate training. Equal Opportunity/Affirmative Action Employer. Send curriculum vitae and names of three references to: Dr. Dnald E. Shay. Assistant Dean for references to: Dr. Donald E. Shay, Assistant Dean for Biological Sciences, Baltimore College of Dental Sur-gery, Dental School, University of Maryland, 666 West Baltimore Street, Baltimore, Maryland 21201.

Full or part-time **POSITION** funded by NIH grant Full or part-time **POSITION** funded by NIH grant for 2 years is anticipated beginning 1 September 1978. Specific degree unnecessary; experience in Fortran and PDP-11 assembly language program-ming desired. Experience in digital electronics and computer hardware useful. Position involves devel-oping programs for graphical display of neurons on PDP-11/03 and PDP-11/34 graphics systems, and de-tioning consolver interferent and specific programs. signing specialized interfaces and small electronic equipment.

Send résumé no later than 26 May to: Robert W. Stanton, Business Officer, Northeastern Ohio Univer-sities College of Medicine, Rootstown, Ohio 44272. An Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL-PROTEIN CHEMISTRY, Posi-**POSTDOCTORAL**—**PROTEIN CHEMISTRY**. Position available for recent Ph.D. with training in biochemistry. Research program involved in protein chemistry in eucaryotes and studies related to regulation of α - β -globin biosynthesis. Strong background lation of a-js-globin biosynthesis. Strong background in biochemistry required. Appointment for 1 or 2 years. Send curriculum vitae and letters of recom-mendation to: Dr. Robert J. Suhadolnik, Department of Biochemistry, Temple University School of Medi-cine, Philadelphia, Pa. 19140. Equal Opportunity/Af-firmative Action Employer.

POSTDOCTORAL POSITION in environmental photobiology and carcinogenesis. Opportunity to participate in mechanistic and product identification studies of cellular lesions produced by chemicals and light. Ph.D. training in organic chemistry and/or biochemistry required. Familiarity with a wide range of separation techniques desirable. Please send cur-riculum vitae and letters of reference to: Dr. L. C. Harber, Department of Dermatology, or Dr. I. B. Weinstein, Institute for Cancer Research. Both are located at: College of Physicians and Surgeons, Co-lumbia University, 630 West 168 Street, New York, N.Y. 10032. N.Y. 10032

POSITIONS OPEN

NEUROMORPHOLOGIST-The Department of Neuroscience, Albert Einstein College of Medicine, will have a position available in September 1978 at will have a position available in September 1978 at the assistant professor level for an electron micros-copist with expertise in freeze-fracture techniques. Research interest in neuronal membranes, the morphophysiology of synaptic transmission and/or developmental neurobiology are preferable. The successful applicant will be expected to carry on an independent research program as well as collaborate in interdisciplinary neurobiological research projects with members of the department. Preference will be given to candidates with signifi-cant records of research accomplishment during and

Preference will be given to candidates with signifi-cant records of research accomplishment during and after postdoctoral training. Applicants should sub-mit complete curriculum vitae, reprints of recent published papers, and a summary of research goals to: Dr. Dominick P. Purpura, Department of Neuro-science, Kennedy Center, 1410 Pelham Parkway South, Bronx, N.Y. 10461. An Equal Opportunity Famployee. Employer

POSTDOCTORAL POSITION-PROTEIN/NUCLE-POSTDOCTORAL POSITION—PROTEIN/NUCLE-IC ACID INTERACTIONS. Available 1 June 1978 for a person interested in studying ribosomal pro-tein-RNA interactions. Applicants should have a Ph.D. in a biological science with a strong back-ground in biophysical chemistry and protein isola-tion. Send curriculum vitae and three recommenda-tions to: Dr. Thomas Schleich, Division of Natural Sciences, University of California, Santa Cruz, Calif. 95064. An Equal Opportunity/Affirmative Action Employee. Employer.

POSTDOCTORAL POSITION at the University of Oregon to collaborate with research group studying the developmental genetics of pattern formation in Drosophila melanogaster. In addition to the Ph.D. Drosophila metanogaster: In addition to the Ph.D. degree extensive experience in Drosophila genetics research is required. Position available September 1978. Send résumé to: Dr. Postlethwait, Biology De-partment, University of Oregon, Eugene, Oregon, 97403 by 31 July 1978. Duration: 1 to 2 years. Sti-pend: \$10,000 to \$10,400.

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

TWO POSTDOCTORAL POSITIONS available im-TWO POSTDOCTORAL POSITIONS available im-mediately for studies in immunoregulation using cel-lular, biochemical, and biophysical approaches. Candidates should have a strong background in (i) cellular immunology or (ii) receptor/membrane/pro-tein purification. Salary commensurate with experi-ence. Send curriculum vitae and names of three ref-erences to: Dr. Diane Jacobs, Department of Micro-biology, 321 Sherman Hall, State University of New York at Buffalo, Buffalo, New York 14214. An Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL POSITION: IMMUNOGENET-**ICS.** Will participate in research on the mouse H-2 complex and B cell hybridomas. Experience in complex and B cell hybridomas. Experience in somatic cell genetics or serology necessary. Salary: \$10,200. Send curriculum vitae and names of references to: Dr. J. A. Frelinger, Department of Microbiology, University of Southern California, School of Medicine, Los Angeles, Calif. 90033. Affirmative Action/Equal Opportunity Employer.

POSTDOCTORAL POSITIONS IN IMMUNOLOGY AND VIROLOGY

Positions are immediately available for highly motivated individuals to work in the areas of tumor immunology, virus immunology, and virus carcino-genesis. The research is being conducted in an ex-panding microbiology department located in a re-cently developed medical school.

Send curriculum vitae and three letters of reference to:

Dr. Robert N. Lausch Department of Microbiology/Immunology College of Medicine University of South Alabama Mobile, Alabama 36688

An Equal Opportunity/Affirmative Action Employer

POSTDOCTORAL POSITION IN BIO-CHEMISTRY, JOHNS HOPKINS UNIVERSITY A postdoctoral position is available to study folate enzymology and the regulation of one-carbon metabolism. Experience in enzymology and/or mammalian cell culture desirable. Send curriculum vitae and names of three references to: Dr. Barry Shane, De-partment of Biochemistry, Johns Hopkins School of Hygiene and Public Health, 615 North Wolfe Street, Baltimore, Maryland 21205.

POSITIONS OPEN

POSTDOCTORAL POSITION available immediately for qualified researcher in mem-brane protein chemistry and regulation of biogenic amines. Potential renewal for 3 years. Send curriculum vitae and references to: Dr. H. Tamir, Division of Neuroscience, New York State Psychiatric Institute, New York, N.Y. 10032.

POSTDOCTORAL/RESEARCH ASSOCIATE

To investigate protein transport, IgG receptors, and coated vesicle assembly in oocytes. Salary \$10,000 \$14,000, based on qualifications. Available imme diately.

Dr. Thomas F. Roth Dr. Inomas F. Roth Department of Biological Sciences University of Maryland Baltimore County Catonsville, Maryland 21228 Telephone: 301-455-2254

An Affirmative Action/Equal Opportunity Employer

POSTDOCTORAL RESEARCH ASSOCIATE

Ph.D. with background and experience in biochemi-Ph.D. with background and experience in biochemi-cal/molecular aspects of steroid hormone action to aid in the investigation of specific protein induction in intestine. Knowledge of immunoassay, mRNA isolation and translation and culture techniques Notation and transaction and culture techniques helpful. Salary negotiable. Available immediately. Send résumé and names of three references to: Dr. R. A. Corradino, Department of Physical Biology, 720 Veterinary Research Tower, New York State College of Veterinary Medicine, Cornell University, Ithaca, N.Y. 14853. An Affirmative Action/Equal Opportu-tive Employer. nity Employer.

POSTDOCTORAL/RESEARCH ASSOCIATE POSI-POSTDOCTORAL/RESEARCH ASSOCIATE POST-TION available immediately to work on the restric-tion enzyme analysis and cloning of soybean leghae-moglobin cDNA. Experience in the area of nucleic acid biochemistry desired. Salary commensurate with experience. Send résumé and letters of refer-ence to: Dr. D. P. S. Verma, Department of Biology, McGill University, Montreal, Quebec, Canada H3A 181 1B1.

POSTDOCTORAL RESEARCH POSITION avail-able immediately for cell culture and in vivo studies of the regulation of gonadotropic hormone receptors in ovarian cells. Please send curriculum vitae and references to: Dr. David W. Schomberg, Box 3323, Departments of Obstetrics, Gynecology and Physiolo-gy, Duke University Medical Center, Durham, N.C. 27710. An Affirmative Action/Equal Opportunity Employer.

POSTDOCTORAL RESEARCH POSITION. POSTDOCTORAL RESEARCH POSITION. Paper physics and mechanics, structure, drying energy, related areas. Contact: R. Mark, Empire State Paper Research Institute (State University of New York) by tele-phoning: 315-473-8728. Equal Opportunity/ Affirmative Action Employer.

POSITION:	RESEARCH ASSOCIATE in obstetrics and gynecology (biochemistry).
LOCATION:	Massachusetts General Hospital and Vincent Memorial Hospital, Boston, Mass. 02114.
CONTACT:	George S. Richardson, M.D., same

Full-time research position. Candidate with Ph.D. in biochemistry and prior experience in gynecological research preferred. Training should include molecu-lar biology, protein chemistry (especially steroid-protein interactions), tissue culture techniques, and computer programming. Salary negotiable depend-ing upon experience. Massachusetts General Hospi-tal is an Equal Opportunity/Affirmative Action Employer.

RESEARCH ASSOCIATE POSITION is available immediately for interdisciplinary research in molec-ular and cellular pharmacology. Candidates should have Ph.D. in pharmacology or biochemistry with some experience in tissue culture. Salary: \$13,735. Applications including curriculum vitae, pub-lications, and names of two references should be sent to: Department of Pharmacology, Medical Facul-ty, Université Laval, Québec, Canada G1K 7P4.

SCIENCE, VOL. 200

TOXICOLOGY/ BIOLOGICAL SCIENCES

Equitable Environmental Health, Inc. (EEH), a multidisciplinary consulting com-pany conducting research for both govern-mental and industrial clients, is engaged in a major expansion program. Applied re-search programs include the evaluation and control of health and safety hazards both in the worklose and the general on both in the workplace and the general environment

Multiple openings exist for individuals with advanced degrees and various levels of experience in PHARMACOLOGY, TOX-ICOLOGY, BIOCHEMISTRY, PATHOLOGY, TOX-BIOPHYSICS, PHYSIOLOGY, PUBLIC HEALTH, or INDUSTRIAL HYGIENE. These are non-laboratory positions and will in-volve development of recommended standards for occupational and environmental exposures to various chemical substances. The staff will participate in plant visits and information-gathering processes and will work with senior scientists and outside consultants in the evaluation and in-tegration of all available information re-lated to specific chemicals or industrial

We are located in Rockville, Maryland, just outside Washington, D. C. Salary will be commensurate with candidate's back-ground and experience. These positions offer excellent professional growth oppor-tunities in a rapidly expanding company. Please send resume and salary history to:

Personnel Manager Equitable Environmental Health, Inc. Fourth Floor 6000 Executive Boulevard Rockville, Maryland 20852

An Equal Opportunity Employer

Physicians (Multiple Openings)-The Food and Drug Administration/Bureau of Drugs (an Equal Opportunity Employer) has ca-reer Civil Service openings for physicians. (Positions are also available in the Com-missioned Corps of the U.S. Public Health missioned Corps of the U.S. Public Health Service). Physicians evaluate the results of clinical testing of new drugs (New Drug Ap-plications) and the potential effects on hu-mans of proposed new drugs (Claimed Ex-emptions for Investigational New Drugs INDs). Physicians are also needed for the bio-research monitoring program to eval-uate controversial clinical data and adher-one to aced lobactery program to evalence to good laboratory practices, medical ethics, etc. Anticipated vacancies available in multiple specialties (anesthesiology, car-diology, gastroenterology, internal medi-cine, neurology, OB-GYN, psychiatry and surgery, etc.).

Duties of the positions require judgement, effective writing and speaking and ability to organize work to meet deadlines. Grades are GS-14 and GS-15 (salary ranging from \$37,925 to \$47,500 per year, depending upon medical experience and qualifica-tions). Comprehensive fringe benefits provided. Candidates need at least board eliglibility in their medical specialty and must be: a graduate with a degree of Doctor of Medicine from a U.S. or Canadian medical school approved by the Council on Medical Education and Hospitals of the American Medical Association. Doctors of Osteop-athy or graduates of foreign medical schools may also be eligible. Full details may be requested.

Send Resume or Curriculum Vitae to:

Food and Drug Administration Division of Personnel Management (Room 4B-42) Attention: George Calvert 5600 Fishers Lane Rockville, Maryland 20857

TOXICOLOGISTS

Monsanto Company has two openings for toxicologists in its soon-tobe-completed Environmental Health Laboratory in St. Louis, serving all of corporate Monsanto.

Research Group Leader. Require-ments: Ph.D. in Toxicology or related discipline: experience in subacute and chronic studies with both rodent and non-rodent species; previous supervisory experience.

Senior Research Toxicologist. Requirements: Ph.D. in Toxicology or related discipline; at least two years conducting and interpreting subacute and chronic studies.

If you are interested in becoming a vital part of this state-of-the-art facility, please forward your resume and salary history to: Dr. P. R. Schenkenberg, Dept. C1-509, Monsanto Company, 800 North Lindbergh Boulevard, St. Louis, Missouri 63166

Monsanto

An Equal Opportunity Employer M/F

ANNOUNCEMENT The 37th Annual Symposium of the Society for Developmental Biology at the University of Wisconsin June 14—16, 1978

The 37th Annual Symposium of the Society of Developmental Biology will be held at the University of Wisconsin from June 14-16, 1978 and is entitled "Determinants of Spatial Organization.'

This Symposium will cover aspects of the localization of developmental information such as: maternal effect mutants of development, cytoplasmic localization in early development, pattern formation in developing systems, polarity and the role of the cell membrane in cell recognition and differentiation.

The tentative list of speakers will include: N. VERDONK and M. R. DOHMEN, Zoology Laboratory, Rijksuniversitat Utrecht; GARY FREEMAN, Department of Zoology, University of Texas; RICHARD WHITTAKER, the Wistar Institute, Philadelphia, Pa.; RALPH QUATRANO, Department of Botany and Plant Pathology, Oregon State University, Corvallis, Oregon; KLAUS KALTHOFF, University of Freiburg; TONY MAHOWALD, Indiana University, Bloomington, Indiana; A. JANICE BROTHERS, University of California, Berkeley, California; DAVID HIRSCH, University of Colorado, Department of Molecular, Cellular and Developmental Biology, Boulder, Colorado; CHRISTINE NUSSLEIN-VOLHARD, University of Freiburg, Institute of Biology, Freiburg; PETER LAWRENCE, MRC Laboratory, Cambridge, England; PETER BRYANT, University of California, Irvine, California; RICHARD CAMP-BELL, University of California, Irvine, California; JOSEPH FRANKEL, University of Iowa, Iowa City, Iowa; and C. PETER WOLK, Michigan State University, East Lansing, Michigan.

Further information and application forms may be obtained by writing to the Business Office of the Society for Developmental Biology at the following address: Claudia Foret, Business Manager, Society for Developmental Biology, Inc., P.O. Box 43, Eliot, Maine 03903. 207-439-4341

and Subscriptions	İ		
• Whenever you write us about your member- ship or subscription, please attach a Sci- ence address label to ensure prompt ser- vice.			
 Mail to: Membership and Subscription Rec- ords, AAAS, 1515 Massachusetts Ave., NW, Washington, D.C. 20005. 	ATTACH		
Change of Address: Please provide 6 weeks' notice. Paste an address label from a recent issue in the space provided. Print new ad- dress below.	HERE		
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AAAS Momborships

RADIATION BIOLOGIST

The University of Alabama in Birmingham, Depart-ment of Radiation Oncology, is inviting applications for the faculty position of instructor in its Division of Radiation Biology. Applicants should hold the Ph.D. degree and have experience in tissue trans-plantation, radiation time-dose fractionation, or tu-mor immunology. Send curriculum vitae and ref-erences to: Maxie L. Davis, Ph.D., Director, Division of Radiation Biology, University of Alabama in Bir-mingham, P.O. Box 441 Volker Hall, Birmingham, Ala. 35294. An Equal Opportunity/Affirmative Ac-tion Employer.

REPRODUCTIVE PATHOLOGIST. D.V.M. with Ph.D. in pathology or reproduction. Should be ACVP Board-eligible. Joint tenure-track appoint ment in veterinary science and Wisconsin Regional Primate Research Center. Duties include independ-Primate Research Center. Duties include independ-ent research in primates and graduate training. Rank and salary commensurate with training and experi-ence. Send curriculum vitae, publications list, and names of three references to: Dr. D. J. Dierschke, University of Wisconsin, 1223 Capitol Court, Madi-son, Wisconsin 53706. Affirmative Action/Equal Opportunity Employer

RESEARCH ASSOCIATE POSITION in analytical chemistry to supervise a large residue analysis labo-ratory. Ph.D. in analytical or physical organic chemratory. Ph.D. in analytical of physical organic chem-istry with experience in chromatographic separa-tions and identification by GC-MS of trace organic constituents. Send résumé and names of three refer-ences by 15 June 1978 to: **Dr. Max Deinzer, Environ**mental Health Sciences Center, Oregon State Univer-sity, Corvallis, Ore. 97331.

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RESEARCH ASSOCIATE—Positions in x-ray and/ or vacuum ultraviolet science are expected to be available at the Stanford Synchrotron Radiation Laboratory in autumn 1978. X-ray scientists should have experience in X-ray instrumentation and/or Xray optics. High vacuum or soft X-ray lithography-microscopy is desirable for the ultraviolet position. The positions involve individual or collaborative research utilizing synchrotron radiation, development of the laboratory's experimental facilities and outside user assistance. Send résumé and references to: Arthur Bienenstock, Director, Stanford Synchrotron Radiation Laboratory, SLAC Bin 69, P.O. Box 4349, Stanford, Calif. 94305. Equal Opportunity Employer.

RESEARCH ASSOCIATE

To study the structure and biosynthesis of con-nective tissue glycoproteins. Excellent laboratory facilities at the Shriners Burn Institute in affiliation with Massachusetts General Hospital and Harvard Medical School. Ph.D. in biochemistry and back-ground required. Write for further details or send ré-sumé transcrints. names of three references and sumé, transcripts, names of three references, and letter indicating research interests to: D. A. Swann, Ph.D., Shriners Burn Institute, 51 Blossom Street, Boston, Mass. 02114.

VETERINARY PATHOLOGIST/TOXICOLOGIST. The Department of Pathology, Colorado State University, is seeking applications from veterinary pathologists with experience in toxicology who are interested in teaching, service, and research in an academic environment. Applicants should have a D.V.M. with advanced training in pathology, preferably a Ph.D. and/or ACVP-eligibility or -certification. Primary duties involve assistance in teaching toxicology. participating in pathology service. and tion. Primary duties involve assistance in teaching toxicology, participating in pathology service, and developing a research program in toxicology. Rank and salary commensurate with training and experi-ence. Application deadline: 1 July 1978. Colorado State University is an Equal Opportunity/Title IX Employer. Equal Opportunity Office: 314 Student Services Building. Contact: A. F. Alexander, Head, Department of Pathology, College of Veterinary Med-icine and Biomedical Sciences, Colorado State Univer-sity, Fort Collins, Colo. 80523.

VIROLOGISTS. Two tenure-earning positions for virologists at associate and assistant professor levels will be available beginning about June 1978. Individwill be available beginning about June 1978. Individ-uals with active research programs desired. Medical and graduate student teaching responsibilities. Please send curriculum vitae to: Chairman, Department of Microbiology University of Miami School of Medicine P.O. Box 520875 Miami, Fla. 33153

The University of Kentucky College of Pharmacy is seeking a person for the position of **RESEARCH SCIENTIST** in medicinal and life sciences chemistry for fall 1978. A Ph.D. degree and preferably post-doctoral experience is required. The appointee will be expected to undertake a vigorous research pro-gram and to contribute only modestly to lecturine in gram and to contribute only modestly to lecturing in medicinal chemistry or pharmacognosy. Salary will be competitive with faculty salaries and commensube competitive with facility salaries and commensu-rate with qualifications. Submit curriculum vitae and references to: Dr. Laurence Hurley, University of Kentucky College of Pharmacy, Lexington, Kentucky 40506. An Equal Opportunity University.

SCIENTIFIC PROGRAMMER/ANALYST

Person with proven ability in programming PDP-8 or PDP-12. Research in image analysis and pattern rec-ognition for nuclear medicine studies. Send résumé to: E. A. Eikman, M.D., College of Medicine, Univer-sity of South Florida, 12901 North 30 Street, Tampa, Florida 33612. The University of South Florida is an Equal Opportunity Employer.

TEACHER OF BIOLOGY

Needed by September 1978: teacher of biology. Ma-jor area: microbiology-bacteriology. Minor areas: biochemistry, molecular biology. Ph.D. in micro-biology-bacteriology required. Send résumé to: Vice **President for Academic Affairs, College of Saint Te-resa, Winona, Minnesota 55987.** An Affirmative Ac-tion/Equal Opportunity Employer.

TEACHING LABORATORY DIRECTOR WANTED

Position available for September 1978. Ph.D. laboratory director to take charge of organi-zation of laboratories for a one-semester course in general biology with emphasis on physiology, bio-

general biology with emphasis on physiology, bio-chemistry, and genetics as well as organization of an upper division biochemistry laboratory course. Send applications to: Dr. B. C. Abbott, Chairman, Depart-ment of Biological Sciences, University of Southern California, University Park, Los Angeles, Calif. 90007. An Equal Opportunity Institution.

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Microscopy Laboratory, Department of Physics, Elmhurst College, Elmhurst, Ill. 60126. Telephone: 312-279-4100, extension 476.

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POSTDOCTORAL (M.D. and Ph.D.) and PREDOCTORAL FELLOWSHIPS available in NEUROPHARMACOLOGY 1 July 1978 Apply to:

OLIVER H. LOWRY, Department of Pharmacology Washington University Medical School 660 South Euclid, Saint Louis, Missouri 63110 Washington University is an Affirmative Action/Equal Opportunity Employer

FELLOWSHIP, CLINICAL CHEMISTRY

The University of California, Irvine, Department of Pathology, is recruiting for a fellow in clinical chemistry. Required: M.D. with at least 2 years in chemistry. Required: M.D. with at least 2 years in clinical pathology or clinical/anatomical pathology. Duties include supervision of resident staff in divi-sion of clinical chemistry and research (basic or clin-ical). All qualified candidates welcome; minorities and women encouraged to apply. Send curriculum vitae and references to: H. Simpkins, M.D., Ph.D., Chief, Division of Clinical Chemistry, University of California, Irvine Medical Center, Orange, California 92668 by 3 July 1978.

FELLOWSHIPS

POSTDOCTORAL FELLOWSHIPS (TWO) available July 1978, for qualified M.D.'s or Ph.D.'s for aute July 1978, for qualified M.D.'s or Ph.D.'s for structural and pathophysiologic studies of normal and abnormal human connective tissues, particular-ly the skeletal dysplasias. Background in collagen, glycosaminoglycan, and/or cartilage biochemistry highly preferred. Send inquiries and curriculum vitae to: Dr. David Hollister or Dr. Robert Burgeson, Harbor General Hospital, 1124 West Carson Street, Torrance, Calif. 90509. Foud Core

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IMMUNOLOGY RESEARCH FELLOWSHIP Available July 1978, for 2 years, at University of Cal-ifornia, Los Angeles (UCLA). Seek Ph.D. immunologist to participate in study of immune mechanisms, autoimmunity of neural tissues, mechanisms of + cells and factors, antigen recognition, and toler-

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