Personnel Placement

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POSITIONS WANTED: 40¢ per word, plus \$4 for use of box number, per insertion. \$10 minimum, per insertion. Prepayment required. This rate is available only to individuals seeking jobs.

DISPLAY (POSITIONS OPEN, COURSES, FELLOW-SHIPS, MARKET PLACE, and so forth): \$6.40 per milli-meter; \$160 minimum, per insertion (minimum charge covers 25 millimeters on a single column; 25 millime-ters equals 10 lines of 50 spaces per line). No charge for use of box number. No agency commission for ads less than 103 millimeters (4 inches). No cash discount. Prepayment required for all foreign ads. Purchase or-ders and billing information required for all other adver-tion. tising.

Send copy for all **Positions Wanted** ads and **Display** ads less than 1/6 page in size (125 millimeters) 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

Aquatic Biologist. Specialties: stream ecology, macroscopic invertebrates, park management. Impac. statement experience—parks, water, sewage proj-ects. Seeks position with environmental firm. Box 54. SCIENCÊ

Biochemist. Ph.D. Publications. Experience: TLC, GC, RIA prostaglandins bile acids, preparation of BSA, TME derivatives, metabolism studies in cholesterol bile acids. Chemistry microbiology background. Box 55, SCIENCE.

Biochemist/Chemist. Ph.D. 1969. Extensive expen-ence in microbial mutagenesis, carcinogen metabo-lism, HPLC, GC, luminescence, and other chemical and biochemical techniques. Publications, grants. Seeks full-time, part-time, or consulting. Box 56, COUNTIENT X

Biochemist/Systems Analyst. Ph.D. (biochemistry), **Biochemist/Systems Analyst.** Ph.D. (biochemistry), M.S. (electrical engineering), available for mathe-matical modeling and analysis of biochemical, physi-ological, or pharmacological systems. Full-time, part-time, or consulting basis. Will translate data in-to model, check hypotheses, and suggest experi-ments. Expertise in mathematics, large scale compu-tation, multivariable optimization, and biochemis-try. Has programs. Interdisciplinary publications. References. Box 57, SCIENCE. 2/16, 23; 3/2, 9

Biologist, Ph.D. Varied teaching experience. Trained in marine ecology, environmental problems, human biology. Seeks challenging employment in Seattle-Olympia area. Prefers innovative college setting or conservation work, chance to write and/or develop new educational programs. Box 58, SCIENCE. X new educational programs. Box 58, SCIENCE.

Cellular Immunologist/Cytogeneticist. Ph.D. Broad experience in clinical research, lymphocyte culture, T and B lymphocyte quantitation, cytogenetics. Publications. Desires research or research/teaching position. Box 59, SCIENCE. 2/16, 23

Lawyer/Medical Researcher. Seeks position in envi-ronmental or health areas. Interests: genetics, can-cer, immunology, and administrative law. Box 45,

16 FEBRUARY 1979

POSITIONS WANTED

Marine Botanist/Limnologist, M.S. 1976. Energetic, ambitious, experienced in laboratory and field re-search in a broad range of disciplines, as well as reference bibliography preparation. Desires position in aquatic biology. Résumé and references upon request. Immediate availability. JEC, 1026 Cherokee Avenue, Valdosta, Georgia 31601.

Plant Ecologist, Ph.D. 1972. Postdoctorate, research, teaching, consulting experience. Pub-lications. Seeks academic or consulting position. Box 60, SCIENCE. X

Virologist/Immunologist. Ph.D. microbiology. Experence in biometical research, hirology, immunology, antiviral vaccines and chemotherapy, tissue cul-ture, and clinical diagnostic tests. Seeks challenging industrial/hospital/government/or research position. Available immediately. Box 61, SCIENCE. X

POSITIONS OPEN

ALGAL ECOLOGIST

ALGAL ECOLOGIST Assistant research scientist (non-tenure accruing) to conduct research on the ecology and control of prob-lem algae. Appointment in Department of Botany and Aquatic Weeds Research Center; participation in the department's graduate program. Send curricu-lum vitae, transcripts, and three letters of recom-mendation by 28 February to: Jack Ewel, Search Committee Chair, Botany Department, Bartram Hall, University of Florida, Gainesville, Fla. 32611.

ANATOMY

The Department of Anatomy of the University of South Carolina School of Medicine is seeking a qual-ified anatomist to fill an assistant professor position commencing 1 September 1979. Position will involve teaching microscopic anatomy to medical students. Necessary qualifications include the Ph.D. or M.D. degree a positive commitment to teaching knowledge. degree, a positive commitment to teaching, knowl-edge of other anatomical disciplines, involvement in edge of other anatomical disciplines, involvement in research, and service to the school and university. Submit résumé and letters of recommendation to: Professor Richard J. Weymouth, Chairman, Depart-ment of Anatomy, School of Medicine, University of South Carolina, Columbia, S.C. 29208. An Affirmative Action/Equal Opportunity Employer

ASSISTANT OR ASSOCIATE DEPARTMENT HEAD

Applications are invited for the position of assist-ant or associate department head, Department of Bi-ological Sciences, Carnegie-Mellon University, a non-tenure track faculty appointment. Responsibili-ties include day-to-day operation, assisting faculty in development of undergraduate and graduate aca-demic programs, student recruitment. He or she will be encouraged to teach at undergraduate or graduate level in the general area of biological sciences. Canlevel in the general area of biological sciences. Can-didates must have a Ph.D. in the broad area of bio-logical sciences; experience in college-type adminis-tration; ability to deal with faculty, administrators, and students.

and students. The position will be available in spring 1979; dead-line for applications is 28 February 1979. Send cur-riculum vitae and letters of reference to: Lois Kiss, Office of the Dean, Mellon Institute of Science, Car-negie-Mellon University, 5000 Forbes Avenue, Pitts-burgh, Pennsylvania 15213. Carnegie-Mellon University is an Equal Opportu-via (Afgraction Employer.

nity/Affirmative Action Employer.

RUTGERS UNIVERSITY

Department of Biology with emphasis on neurobiol-ogy and behavior has available **THREE ASSISTANT PROFESSORSHIPS:** (i) Molecular Neurobiologist, and (ii) Neural or Behavioral Geneticist. Responsibili-tics with relative and the relation of the second s ties will include an undergraduate course in molecu-lar biology or general genetics, respectively, and a course in an area of specialization. Establishment of an independent research program is expected. (iii) **Biologist** (research interests consistent with those of **Biologisi** (research interests consistent with those of department preferred, but not essential). Principal responsibility will be development of an in-troductory course for students with limited science backgrounds, preparatory to the standard biology curriculum. Although this position requires particu-lar commitment to teaching, development of an ac-tive research program is expected. Send curriculum vitae with a cover letter describing your interest to: Search Committee, Department of Biology, Rutgers University, Livingston College, New Brunswick, N.J. 08903. An Equal Opportunity/Affirmative Action Employer. POSITIONS OPEN

ANATOMY-ASSISTANT PROFESSOR

UNIVERSITY OF WISCONSIN-MADISON

Position available 1 July 1979 for a person with Ph.D. or M.D. to teach allied health undergraduate courses in anatomy. Evi-dence of a strong research program and interest in graduate training are required. Research area is open but some prefer-ence may be given to cell or developmental biology and mus-cular or nervous systems. Curriculum vitae and letters of ref-erence must be sent before 5 April 1979 to:

Dr. David D. Slautterback 447 Bardeen Laboratories Anatomy Department

UNIVERSITY OF WISCONSIN-MADISON

Madison, Wisconsin 53706

An Affirmative Action/Equal Opportunity Employer, M/F

ASSISTANT PROFESSOR OF BIOLOGY, Liberal arts college for women has a tenure-track position available 20 August 1979. This person will teach geavailable 20 August 1979. This person will teach ge-netics, a one-semester, cell-oriented introductory bi-ology course for science majors and participate in laboratory instruction in general biology. Estab-lishment of a research program is expected. Ph.D. required. Send curriculum vitae, transcripts, three letters of recommendation, and a statement of teach-ing and research plans by 9 March 1979 to: Dr. Cla-rence F. Dineen, Department of Biology, Saint Mary's College, Notre Dame, Ind. 46556. An Equal Opportu-nity/Affirmative Action Employer. nity/Affirmative Action Employer.

Applications are invited for two positions at the level of ASSISTANT PROFESSOR in the Depart-ment of Industrial Environmental Health Sciences; ment of Industrial Environmental Health Sciences; doctoral degree in industrial hygiene or in a closely related physical or biological science with some in-dustrial hygiene experience is required. The appli-cant is expected to contribute to existing research programs, develop independent research projects, and participate in the teaching program. It is antici-pated that the applicant will contribute to the teach-ing at night for next time and continuing education ing at night for part-time and continuing education programs.

Interested candidates should send curriculum Interested candidates should send curriculum vitae and description of research and teaching inter-ests to: Yves Alarie, Ph.D., Chairman, Department of Industrial Environmental Health Sciences, Gradu-ate School of Public Health, University of Pittsburgh, Pittsburgh, Pa. 15261. An Equal Opportunity/Affir-mative Action Employer.

ASSISTANT PROFESSOR, INORGANIC CHEMISTRY

Tenure-track position, starting fall 1979 (pending availability of funds). Must have potential for out-standing research and excellence in teaching. Ph.D. or equivalent required. Send or arrange to have sent detailed résumé, research plans, transcripts, and three letters of recommendation by 28 February 1979 to:

Dr. R. A. Pacer Chemistry Search and Screen Committee Indiana University–Purdue University Fort Wayne, Ind. 46805

Affirmative Action/Equal Opportunity Employer

UNIVERSITY OF SASKATCHEWAN, College of Medicine, Department of Pharmacology. ASSIST-ANT PROFESSOR IN PHARMACOLOGY, Univer-And PROPESSOR IN PRARMACOLOGY, Univer-sity of Saskatchewan. Applicants should possess a Ph.D. in pharmacology or an M.D. plus at least 2 years of postdoctoral research experience, and must have a strong interest in both teaching and research. Inquiries should be directed to: **Dr. G. E. Johnson**, Professor and Head, Department of Pharmacology, University of Saskatchewan, Saskatoon, Saskatche-wan, Canada S7N 0W0.

ASSISTANT PROFESSOR IN PHYSIOLOGY. The Physiology Department of the West Virginia School of Osteopathic Medicine invites applications for the position of assistant professor in physiology, avail-able immediately. Duties include teaching in the able immediately. Duties include teaching in the areas of genitourinary, gastrointestinal, and mechan-ical aspects of musculoskeletal physiology, using an organ system approach to the teaching of medicine. Research facilities are available and research is en-couraged. Send curriculum vitae and names of three references to: Michael K. Cope, Ph.D., Acting Chair-man, Department of Physiology, West Virginia School of Osteopathic Medicine, 400 North Lee Street, Lewis-burg, West Virginia 24901. An Affirmative Action/ Equal Opportunity Employer.

ASSISTANT/ASSOCIATE PROFESSOR. A full-time, tenure-track position for a qualified physiologist starting 1 September 1979. The successful candidate will be expected to develop a strong research prowill be expected to develop a strong research pro-gram in his or her specialty, as well as to engage in training of graduate students and participate in teaching affairs of the department. Research inter-ests in cardiovascular, pulmonary, or renal physiolo-gy preferred. Ph.D. required, with postdoctoral ex-perience preferred; at the associate professor level, a proven record of research productivity is required. Send curriculum vitae and three letters of reference by 15 April 1979 to: Theodore M. Hollis, Chairman, Physiology Search Committee, Department of Biol-ogy, 208 Mueller Laboratory, Box A, The Pennsylva-nia State University, University Park, Pa. 16802. An Equal Opportunity/Affirmative Action Employer

ASSISTANT PROFESSOR and ASSISTANT RE-SEARCH MICROBIOLOGIST, Department of Med-icine. Applicants must have Ph.D. in microbiology and postdoctoral experience in anaerobic bacteriology and biochemistry. Responsibilities include su-pervision and teaching. Expertise required in micropervision and teaching. Expertise required in micro-bial pathogenicity, protein chemistry, tissue culture, immunology, and experimental infection. Submit curriculum vitae, references, and letter describing interests to: Dr. Sydney M. Finegold, Chief, Infec-tious Disease Section, VA Wadsworth Medical Cen-ter, Los Angeles, Calif. 90073. The University of California is an Affirmative Action/Equal Opportu-nin Employer. nity Employer.

ASSISTANT PROFESSOR HUMAN NUTRITION AND FOODS PROGRAM SCHOOL OF HOME ECONOMICS

To teach courses in normal and therapeutic nutrition To teach courses in normal and therapeutic nutrition and participate in curriculum development. Conduct research in human nutrition or foods. Administer di-etetics concentration as related to ADA program re-quirements and student credentials (ADA approved generalist, plan IV). Advise undergraduate and grad-uate students. Qualifications: Ph.D. in human nutri-tion or related area. Eligible for ADA membership, RD highly desirable. Demonstrated ability in clinical dietetics, teaching, and/or research. Starting fall se-mester 1979. Send résumé before 1 April 1979 to: Search Committee, Human Nutrition and Foods, School of Home Economics, University of Vermont, Burlington, Vermont 05405. An Affirmative Action Employer

An Affirmative Action Employer

ASSISTANT PROFESSOR OF BIOCHEMISTRY. Applications are invited for a 12-month, tenure-track position from qualified individuals with a composition from qualified individuals with a com-mitment to excellence in teaching and research in the area of **molecular biology**. Responsibilities in-clude participation in the undergraduate and gradu-ate teaching program, as well as the development of a graduate course in molecular biology. The individ-ual is expected to develop a vigorous, independent research program in some area of mammalian molec-ular biology which would be compatible with a joint appointment in the College of Agriculture and Ex-periment Station. A Ph.D. in biochemistry with postdoctoral experience is required. Please send ré sumé, graduate transcripts, summary of research insumé, graduate transcripts, summary of research in-terests, and the names of three references to: R. P. Wilson, Head, Department of Biochemistry, Drawer BB, Mississippi State University, Mississippi State, Miss. 39762.

ASSISTANT PROFESSOR THE OHIO STATE UNIVERSITY DEPARTMENT OF ZOOLOGY

The responsibilities of this position include teach-The responsibilities of this position include teach-ing in introductory zoology and an upper division course in bioacoustics. Incumbent will be respon-sible for collections in the Borror Laboratory of Bioacoustics. A Ph.D is required with teaching and research experience in the area of bioacoustics. Postdoctoral work is desirable. An active research program and participation in graduate education are expected. This is a 9-month, tenure-track appoint-ment beginning in September 1979. Send curriculum vitae and three letters of recom-mendation to: Professor Tony J. Peterle, Chairper-son, Department of Zoology, The Ohio State Universi-ty, 1735 Neil Avenue, Columbus, Ohio 43210. Appli-cations must be received by 15 March 1979. The Ohio State University is an Equal Opportu-

The Ohio State University is an Equal Opportu-nity/Affirmative Action Employer. All qualified per-sons, including women, members of minority groups, and the handicapped, are encouraged to apply.

POSITIONS OPEN

ASSISTANT PROFESSOR OF PHYSIOLOGY. The Department of Medical Physiology, College of Medi-cine, Texas A & M University invites applications from individuals specializing in renal or endocrine control of cardiovascular function and/or body fluids. Candidates should have 1 or 2 years of post-doctoral experience and will be expected to show promise of developing a vigorous research program. The appointee will join a physiology faculty deeply involved in cardiovascular research and will partici-pate in its medical and graduate teaching programs. Send curriculum vitae, a résumé of research inter-ests, and names of three references to: Dr. Elvin E. Smith, Head, Department of Medical Physiology, Col-lege of Medicine-1, Texas A & M University, College Station, Texas 77843. Texas A & M University is an Equal Opportunity Employer. ASSISTANT PROFESSOR OF PHYSIOLOGY. The

ASSISTANT PROFESSOR OF ZOOLOGY EASTERN ILLINOIS UNIVERSITY

Terrestrial ecologist with strong biometrics background. Tenure-track; salary commensurate with experience. Ph.D.; some postdoctoral experience desirable but not essential. Research encouraged. Send credentials to: Director, Division of Life Sci-ences, Eastern Illinois University, Charleston, Illinois 61920. Deadline for applying: 15 March 1979.

THE NATIONAL CLIMATE PROGRAM OF-FICE, established in response to the National Cli-mate Program Act signed by President Carter in Sep-tember 1978, is seeking an ASSOCIATE DIRECTOR FOR CLIMATE IMPACT ASSESSMENT. This is an exciting and challenging opportunity for an individ-ual now associated with a university or state govern-ment with background in resource or agricultural ec-onomics economics geography or some related nonmics, economic geography, or some related field. Since climate impact assessment is a new field, the specific discipline in which one is trained is less the specific discipline in which one is trained is less important than the general relevance of interests and experience. The appointment contemplated is for 2 years under the Intergovernmental Personnel Act which provides for full compensation plus some ad-justments; special arrangements or a shorter tenure can be considered. The person sought would have major responsibility for planning national and inter-national programs in impact assessment. This in-cludes research to understand the social, economic, and political implications of climate. cludes research to understand the social, economic, and political implications of variations of climate, and also programs to identify and quantify the ef-fects of climate and climate fluctuations. Those in-terested should send résumés to: Dr. Edward S. Ep-stein, Director, National Climate Program Office, NOAA/DOC, 6010 Executive Boulevard, Rockville, Maryland 20852. The Department of Commerce is an Equal Opportunity Employer.

BIOCHEMISTRY, ASSISTANT or ASSOCIATE PROFESSOR. The Department of Biochemistry, University of Missouri-Columbia, invites appli-cations. Applicants must have the Ph.D. degree or equivalent, and postdoctoral experience is expected. Candidates with promise (assistant) or evidence (as-Candidates with promise (assistant) or evidence (as-sociate) of exceptional research abilities are being sought. Curriculum vitae, summary of research plans, and three letters of recommendation should be sent to: Dr. James L. Gaylor, Department of Bio-chemistry, 32-A Chemistry Building, University of Missouri-Columbia, Columbia, Mo. 65211. The Uni-versity is an Equal Opportunity/Affirmative Action Employee Employer.

BIOLOGICAL SCIENTIST

Gillette Research Institute is seeking a biologist, biochemist, or biophysicist to work on a long-range pro-gram on the physiology of the hair follicle. A Ph.D. with one or more years of research experience is re-quired. We offer a competitive salary and full com-pany benefits. Send résumé to the attention of: W. Lincoln,

Gillette Research Institute 1413 Research Boulevard Rockville, Maryland 20850 An Equal Opportunity Employer

NMR SPECIALIST—The University of Pittsburgh has an immediate opening for an NMR specialist; \$18,000 to \$20,000 per year; Ph.D.-level or equiva-lent. Responsibilities include maintenance, instruction, and expanding user applications. Excellent re-search programs, facilities, and support services make this an outstanding opportunity. *Affirmative Action/Equal Opportunity Employer*. Contact: W. R. Howe, Chemistry Department, University of Pitts-burgh, Pittsburgh, Pa. 15260.

POSITIONS OPEN

ROYAL ALEXANDRA HOSPITAL FOR CHILDREN Camperdown New South Wales, Australia BIOCHEMIST

Applications are invited for the new position of biochemist (principal scientific officer) within the Department of Biochemistry in the Hospital's Institute of Pathology.

The Hospital is a 400-bed paediatric teaching hospital of the University of Sydney and offers a com-prehensive range of clinical and laboratory services.

The new appointee will assist the present bio-chemist (Dr. L. Webster) in the routine work of the department and will have special responsibilities in the development of new tests and techniques in the area of clinical paediatric chemistry. He/she will closely liaise with the hospital's clinical staff and participate in the training programme of clinical and laboratory staff.

Applicants should hold a Ph.D. degree in biochemistry or its equivalent; previous experience in clinical chemistry would be an advantage.

Salary range: A\$21,049 to A\$26,145, per annum. Further information is available from: Dr. R. K. Oates, Director of Medical Services.

Applications including the names of two referees should be addressed to: J. S. Yu, General Superintendent, as soon as possible.

BIOLOGICAL CHEMISTRY FACULTY POSITIONS

The Department of Biological Chemistry, Univer-sity of California, Los Angeles (UCLA) School of Medicine, plans several appointments to its faculty during the next 18 months; one position will be open in summer 1979. While we are particularly interested in highly qualified individuals with research interests in the areas of chemical enzymology. protein chem in highly qualified individuals with research interests in the areas of chemical enzymology, protein chem-istry, and genetics or cell biology of eukaryotes, out-standing candidates with other research interests will be seriously considered. A genuine interest and excellence in teaching is also expected. While it is anticipated that appointments will be as assistant professors, appointment could be at a higher level in an exceptional case. Please submit curriculum vitae and names of three referees by 15 April (for the ini-tial position) to: John G. Pierce, Vice Chairman, De-nartment of Biological Chemistry. UCLA School of martinent of Biological Chemistry, UCLA School of Medicine, Center for Health Sciences, Los Angeles, Calif. 90024. An Equal Opportunity Employer; appli-cations from minority candidates and women are encouraged.

UNIVERSITY OF SOUTH CAROLINA

The Department of Biology is seeking applicants for four tenure-track positions at the Assistant Profes-sor level for fall 1979: (i) INVERTEBRATE DEVEL-OPMENTAL BIOLOGY (will teach undergraduate invertebrate zoology); (ii) IMMUNOLOGY; (iii) MOLECULAR GENETICS; and (iv) SOMATIC CELL GENETICS. All successful candidates will be expected to initiate and maintain a quality research program and teach at the undergraduate and graduexpected to initiate and maintain a quarty research program and teach at the undergraduate and gradu-ate levels. Please specify on the outside of the enve-lope the position for which you are applying. Send curriculum vitae, three letters of recommendation, reprints, and statement of future research objectives by 26 March to:

Larry T. Wimer Chairman, Biology Department University of South Carolina Columbia, S.C. 29208

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

CLIMATOLOGIST

The Department of Environmental Sciences, Uni-The Department of Environmental Sciences, Uni-versity of Virginia, invites applications for a per-manent research post in climatology. Ph.D. is re-quired. Salary range \$18,000 to \$28,000, depending on qualifications. Applicants must be well grounded in meteorology and climatology with interest in re-lated environmental sciences. Duties include re-search on the climate of Virginia and the surround-ing mid.Atlantic region preparation of research pubsearch on the climate of Virginia and the surround-ing mid-Atlantic region, preparation of research pub-lications for general circulation, coordination of Virginia's State Climate Program, and providing in-formation services. Send résumé, reprints, and names of three references to: **B. P. Hayden**, Depart-ment of Environmental Sciences, University of Virgin-ia, Charlottesville, Virginia 22903. The University of Virginia is an Equal Opportunity/Affirmative Action Employee Employer.

BIOMATHEMATICIAN

The University of Virginia is seeking a biomathe-matician with a strong background in biology/medi-cine. The individual selected should possess a Ph.D. in biomathematics or a related area; have at least 1 year of postdoctoral experience; and demonstrate potential for developing an independent research program. Primary responsibilities will include the development of biomathematics curriculum for graduate students in the basic medical sciences and the uate students in the basic medical sciences and the coordination of the daily activities of a biomathemat-ical core facility of a Diabetes Research and Training Center. The position is available immediately. All in-terested candidates should send current curriculum vissibility of the storage for the storage for the storage for the storage storage for the vitae, bibliography, statement of interests, and references to:

Dr. Rodney L. Biltonen Department of Pharmacology University of Virginia School of Medicine Charlottesville, Virginia 22908

Midland Macromolecular Institute (MMI) invites ap-Midland Macromolecular Institute (MMI) invites applications for a position at the level of assistant pro-fessor or associate professor depending upon experi-ence and qualifications. Duties will involve research and teaching in **BIOPOLYMERS** (chemistry and/or physics). Required: Ph.D. with interest and experi-ence in NMR, including NMR instrumentation. Ap-plicants should submit curriculum vitae, a list of publications, and names of three references to: **BIO-POLYMERS**, Midland Macromolecular Institute, **1910** West St. Andrews Drive, Midland, Michigan **48640** by 1 April 1979. MMI is an Equal Opportunity Employer. Employer.

BOTANIST with Ph.D. and previous teaching expe-rience required to develop and supervise introduc-tory lecture course for majors and nonmajors. In addition to imaginative and inspirational teaching, can-didate will be expected to conduct an active research program. Preferred research specialities are experi-mental mycology, applied botany, or genetics, but applications will be considered from all fields of botapplications will be considered from all fields of bot-any. Position begins 1 September 1979. Rank and salary are open. Please submit curriculum vitae and four letters of reference by 22 March to: Leonard Beevers, Department of Botany and Microbiology, 770 South Oval, University of Oklahoma, Norman, Okla. 73019. An Equal Opportunity Employer.

CHAIRPERSON-BIOCHEMISTRY DEPART-MENT. The University of Massachusetts Medical School is seeking an individual who has a proven commitment to excellence in research and has demcommitment to excellence in research and has a proven onstrated expertise in teaching and administration to chair its Department of Biochemistry. The depart-ment presently has strength in the areas of cyclic nu-cleotides, hormonal control of metabolism and nutri-tion. The appointee will have the opportunity to re-cruit additional faculty. The successful candidate will be expected to lead a department that is both exceptional in its research and committed to quality teaching of biochemistry to medical and graduate students. Please send curriculum vitae, bibliogra-phy, and three references by 15 March 1979 to: Dr. F. S. Fay, Chairman, Search Committee, Department of Physiology, UNIVERSITY OF MASSACHU-SETTS MEDICAL SCHOOL, 55 Lake Avenue North, Worcester, Mass. 01605. Minority and women candidates are encouraged to apply. The University of Massachusetts is an Equal Opportunity/Affir-mative Action Employer. mative Action Employer.

CHEMICAL TOXICOLOGIST (FOODS). Assistant professor of environmental toxicology and assistant rank in the Agricultural Experiment Station. Elevenmonth appointment; 65 percent teaching and 35 per-cent research. Requirements include Ph.D. in chemistry or biochemistry, working familiarity with food chemistry and instrumental methods of analysis, and publication in areas related to this description. Previous training in toxicology and research experience with toxicants is desirable. Responsibilities include research in the chemical/biochemical aspects of tox-icants where the primary concern is in foods, and teaching the equivalent of two courses from existing efforting and a prove course toxication is food. teaching the equivalent of two courses from existing offerings and a new course on toxicants in foods. Send résumé, transcripts, copies of reprints and thesis abstract, and three letters of recommendation to: Search Committee, Department of Environmental Toxicology, University of California, Davis, Calif. 95616, prior to 1 April 1979. Available 1 July 1979. The University is an Equal Opportunity/Affirmative Action Employer and invites applications from all aualified individuals. qualified individuals

16 FEBRUARY 1979

POSITIONS OPEN

POSITIONS OPEN

CLINICAL BIOCHEMIST

Clinical biochemist to assist in directing research toward development of diagnostic reagent products. Position requires an advanced degree in biochemistry, immunochemistry, or related science with five plus years of experience in clinical development of diagnostic products. Some management experience in directing group R & D efforts preferred. Familiarity with FDA medical device regulations highly desirable. Reply in confidence to:

Leo Bressler

SIGMA CHEMICAL COMPANY 3500 DeKalb St. Louis, Missouri 63118

Telephone: 314-771-5765 An Equal Opportunity Employer, M/F

Department of Dermatology, University of Texas Medical Branch, invites applications for anticipated faculty openings in the following areas: CLINICAL DERMATOLOGIST—Must be Board-

certified or -eligible and have experience in teach-ing students and housestaff.

RESEARCH SCIENTIST-Must possess Ph.D. or equivalent and research experience in immuno-biology, photobiology, or biochemistry.

Faculty rank, tenure, and salary commensurate with experience. Please send curriculum vitae to:

Edgar B. Smith, M.D. Department of Dermatology University of Texas Medical Branch P.O. Box 196 Galveston, Texas 77550

All applications must be received by 1 March 1979. University of Texas Medical Branch is an Affir-mative Action/Title IX Employer.

CLINICAL PATHOLOGIST to direct Clinical Chemistry Laboratory, Emory University Hospital, and to develop associated teaching and research activities. Requires minimum of 3 years of previous experience in clinical chemistry, demonstrated ability in research, and eligibility for medical licensure in Georgia. Reply to: Rex B. Conn, M.D., Department of Pathology and Laboratory Medicine, Emory Uni-versity, Atlanta, Georgia 30322.

FISHERIES DEAN, University of Washington. De-FISHERIES DEAN, University of Washington. De-gree programs: B.S.F., B.S. with major in fisheries or food science, M.S., Ph.D. Divisions: Fisheries Research Institute, Institute of Food Sciences and Technology, Laboratory of Radiation Ecology, Washington Cooperative Fishery Research Unit, Aquaculture. Qualifications: advanced professional degree; national prominence in field; demonstrated administrative ability. Salary competitive and nego-tiable. Submit applications by 1 April 1979, to: Com-mittee on the Deanship of the College of Fisheries, 316 Administration Building, AH-20, University of Wash-ington, Seattle, Washington 98195. An Equal Oppor-tunity/Affirmative Action Employer.

DEAN AND FACULTY POSITIONS THE AMERICAN UNIVERSITY OF THE CARIBBEAN School of Medicine, located on the island of Montserrat in the West Indies, has the fol-

lowing administrative and faculty openings:

DEAN OF MEDICAL SCIENCES Will carry the rank of professor and requires 30 percent teaching and 70 percent adminis-tration. M.D. or Ph.D. with teaching or ad-ministrative experience required.

DEAN OF CLINICAL STUDIES Will carry the rank of professor and super-vise the clinical studies in the hospitals. M.D. with professional or administrative experience required.

FACULTY OPENINGS gross anatomy, physiology, pharmacology, and pathology. Twelve-month contract. M.D. or Ph.D. required.

Please send résumé to:

American University of the Caribbean Mt. St. Joseph, Ohio 45051

CANCER CENTER DIRECTOR FOR PROGRAM DEVELOPMENT

The Northern California Cancer Program (NCCP) is seeking a director for program de-velopment with emphasis on the basic sci-ences. NCCP is a consortium cancer center with programs in clinical research and canwith programs in clinical research and can-cer control. We are looking for a senior indi-vidual to develop and direct our multi-insti-tutional, multidisciplinary collaborative re-search program. Candidates should be an M.D. or Ph.D., must have a strong back-ground in cancer and in basic science, and be capable of providing leadership to the scien-tific community in the region.

Interested candidates should send curriculum vitae to:

Stephen K. Carter, M.D., Director Northern California Cancer Program 1801 Page Mill Road, Building B, Suite 200 Palo Alto, California 94304

Applications must be received by 1 March 1979.

The Northern California Cancer Program is an Affirmative Action Employer and wel-comes applications from women and mem-bers of minority groups.

DIRECTOR-GERIATRIC RESEARCH, EDUCA-TIONAL AND CLINICAL CENTER. The Veterans Administration Outpatient Clinic, Boston, is seekng Administration Outpatient Clinic, Boston, is seekng a director for the outpatient component of the Bos-ton OPC/Bedford VAMC, Geriatric Research, Edu-cational and Clinical Center (GRECC). Candidates must have an advanced degree, M.D. preferred, and academic credentials sufficient to support an ap-pointment as an associate or full professor. They should also have experience and interest in geron-tological research education and/or health care should also have experience and interest in geron-tological research, education, and/or health care management. The position requires that the can-didate develop, implement, and manage integrated ambulatory, clinical care demonstration programs. He/she will be expected to develop and interrelate ongoing educational, research, and clinical gerontol-ogy programs. The position offers an appointment in the VA Outpatient Clinic (GRECC), and an appoint-ment with one of four affiliated medical or dental in-stitutions Base salary \$40 000 to \$47 500 per anment with one of rour affiniated medical or defital in-stitutions. Base salary: \$40,000 to \$47,500 per an-num (full-time) depending on qualifications. Part-time appointment (minimum 5/8) salary prorated. In-terested parties should submit their curriculum vitae to: Jeremiah E. Silbert, M.D. (151A), VA Outpatient Clinic, 17 Court Street, Boston, Mass. 02108.

EXPERIMENTAL PATHOLOGIST—Tenure-track position. Responsibilities include establishment of a position. Responsibilities include establishment of a research program in the candidate's area of exper-tise, participation in graduate program of experimen-tal pathology, and teaching in undergraduate medi-cal school curriculum. M.D. degree with training and experience in academic pathology and a record of research excellence as demonstrated by pub-lications and grant support required. Applicants whose research interests are in membrane biology, connective tissue biochemistry, or immunobiology may be given special consideration. Direct inquiries (including current curriculum vitae, three refer-ences, and a letter describing research interests) to: Chairman, Department of Pathology and Laboratory Medicine, Emory University, Atlanta, Georgia 30322. An Affirmative Action/Equal Opportunity Employer.

NATIONAL SCIENCE FOUNDATION DIVISION OF ATMOSPHERIC SCIENCES DIVISION DIRECTOR

The National Science Foundation is seeking quali-fied applicants for the position of director, Division of Atmospheric Sciences. The position is excepted from the competitive civil service and is equivalent to the GS-16/17 grade level (\$44,756 to \$59,421 per annum; limited by statute to \$47,500). This position may be filled on a permanent or rotational basis. Ap-plicants should have a Ph.D. in one of the atmo-spheric sciences or equivalent experience. Appli-cants should be recognized authorities in the atmospheric sciences or equivalent experience. Appli-cants should be recognized authorities in the atmo-spheric sciences and have demonstrated national and international leadership in their field of exper-tise. It is expected that this position will be included in the Senior Executive Service of the federal gov-ernment, which is to be established on 13 July 1979. There may therefore be additional qualification re-uurements established which are not known at this quirements established which are not known at this time. All qualified individuals will be considered, including those interested in a leave of absence from cluding those interested in a leave of absence from their current scientific or science management re-sponsibilities. Applicants should submit their Per-sonal Qualifications Statement, SF-171, and a cur-rent curriculum vitae to: Division of Personnel and Management, Section B, Room 212, 1800 G Street, NW, Washington, D.C. 20550 by closing date of 1 April 1979. For further information, telephone E. Paul Broglio at 202-632-4107. The National Science Foundation is an Equal Opportunity Employer.

ECOLOGIST-UCLA

Applications are invited for appointment in the Divi-Spin actions are invited by appointment in the Divi-sion of Environmental Biology of the Laboratory of Nuclear Medicine and Radiation Biology as assistant research ecologist, with joint appointment as assist-ant professor (tenure-track) in the Department of Bi-ology. We seek applicants having specializations in ology. We seek applicants having specializations in arthropod ecology or environmental physiology, in quantitative ecology with skills in modeling and field testing of ecological processes, or in vertebrate pop-ulation and production ecology. Interest in applied aspects of ecology in desert ecosystems is desired. Applicants should provide evidence demonstrating excellence in research and teaching. Send curricu-lum vitae, statement of teaching and research inter-ests, and names and addresses of three references before 15 March 1979 to: Ecology Search Committee, Laboratory of Nuclear Medicine and Radiation Biol-ogy, University of California, 900 Veteran Avenue, Los Angeles, California 90024. An Equal Opportu-nity/Affirmative Action Employer.

FACULTY POSITIONS

Full-time faculty positions are available in the Department of Obstetrics and Gynecology for basic scientists with a research interest in reproductive biol-ogy and an expertise in biochemistry. A doctorate is required. Academic rank and salary are dependent on qualifications. If interested, please send curricu-lum vitae and bibliography to:

vitae and bibliography to: William N. Spellacy, M.D. Professor and Head Department of Obstetrics and Gynecology Abraham Lincoln School of Medicine University of Illinois Medical Center 840 South Wood Street Chicago, Illinois 60612

Affirmative Action/Equal Opportunity Employer

GENETICIST. Assistant professor position avail-GENETICIST. Assistant professor position avail-able for a sabbatical leave replacement (1979-1980 academic year). Ph.D. required. Teaching responsi-bilities include a course in genetics and participation in introductory biology courses. Research facilities excellent. Applicants should send curriculum vitae, graduate and undergraduate transcripts, and names of three references to: Dr. David B. King, Chairman, Department of Biology, Franklin and Marshall Col-lege, Lancaster Pa. 17604.

IMMUNOLOGIST, VIROLOGIST

Two positions are available immediately at the as-Two positions are available immediately at the as-sistant professor level for a cellular immunologist and a virologist to work in the Bovine Leukemia Re-search Unit. Applicants should have a Ph.D. or D.V.M. degree with postgraduate training in the ap-propriate discipline. Qualified applicants should send a résumé, copies of representative pub-lications, and the names of three people who may be contacted for references to: Dr. Jorge F. Ferrer, Chief, Section of Viral Oncology, University of Penn-sylvania School of Veterinary Medicine, New Bolton Center, R.D. 1, Kennett Square, Pa. 19348.

POSITIONS OPEN

FACULTY POSITION-**BIOMEDICAL MASS SPECTROMETRY**

Assistant professorship to be filled by 1 July 1979. The primary qualification is the potential and desire The primary qualification is the potential and desire to develop a strong research program in drug metab-olism, toxicology, or related area. The successful applicant will be expected to participate in the teach-ing of analytical methods courses at both the gradu-ate and undergraduate level. Candidates should pro-vide curriculum vitae, three letters of recommenda-tion, and a summary of research interests by 1 March 1979 to: Dr. S. R. Byrn, Department of Medic-inal Chemistry and Pharmacognosy, Purdue University is on Faual Onportunity/Affirmative Action Femplover an Equal Opportunity/Affirmative Action Employer.

UNIVERSITY OF WISCONSIN-MADISON CENTER FOR HEALTH SCIENCE DEPARTMENT OF PHYSIOLOGY

FACULTY POSITION at the assistant professor for persons with postdoctoral experience and a demonstrated interest in endocrinology or neuroen-ing programs of the department which includes courses in organ systems and cell physiology to un-dergraduate, graduate, and medical students. Inter-ested candidates should submit curriculum vitae, complete bibliography, and have letters of reference from three individuals sent to: **Dr. Richard C. Wolf**, Madison, 470 North Charter Street, Madison, Wis-consin 53706. To receive full consideration appli-cations should be received by 15 March 1979. The University is an Equal Opportunity/Affirmative Ac-tion Employer; women and minorities are encouraged to apply.

ACULTY POSITION AT THE UNIVERSITY OF FACULTY POSITION AT THE UNIVERSITY OF CALIFORNIA, DAVIS. Assistant professor, associ-ate professor, or professor (20 percent teaching, 80 percent research). Position available 1 July 1979 for teaching and research in cryoscience and cryo-technology, emphasizing investigation of the funda-mental scientific principles of the frozen state and application of such principles to improving frozen food quality. Requirements include a Pb D, degree food quality. Requirements include a Ph.D. degree pertinent to food science (biophysics, biochemistry, botany, chemistry, engineering, food science, phys-ics, or a related field) and an interest in food science. Send curriculum vitae, transcripts of undergraduate and graduate work, and publications to: Professor R. L. Merson, Chairman, Search Committee, Depart-ment of Food Science and Technology, University of California, Davis, Calif. 95616. At least four persons should be requested to send letters of recommendashould be received to send reters of recommenda-tion. Applications should be received by 15 April 1979. The University of California is an Equal Op-portunity/Affirmative Action Employer and invites applications from all qualified individuals. April

SUMMER FACULTY POSITIONS:

PHYCOLOGIST: with field experience in the Gulf of Maine to teach 5-week marine algae course, 26 June to 28 July 1979. Demonstrated experience with estuarine and marine benthic fungi and algae required.

ICHTHYOLOGIST: with teaching experience at a marine field station and record of research on scombroid or gadoid systematics and/or morphol-ogy to teach 5-week graduate-level ichthyology course, 30 July to 1 September 1979. Please send oursiduum uite to:

curriculum vitae to:

Dr. N. W. Riser Marine Science Institute Northeastern University East Point, Nahant, Mass. 01908

FACULTY POSITIONS IN CELLULAR IMMUNOLOGY TULANE MEDICAL SCHOOL

Applications are invited for consideration in re-gard to two openings in the Department of Micro-biology and Immunology for immunologists at the assistant/associate professor and instructor level. Preference will be given to individuals with training and introduced in college involves and particularly T-Preference will be given to individuals with training and interest in cellular immunology, particularly T-cell functions and regulation. Interest and ability to teach medical and graduate students is essential, as is a desire for career development in a university/ medical school setting. Applicants should submit their curriculum vitae and names of three references to: A. Arthur Gottlieb, M.D., Professor and Chair-man, Department of Microbiology and Immunology, Tulane Medical School, 1430 Tulane Avenue, New Orleans, Louisiana 70112. Tulane is an Equal Oppor-tunity/Affirmative Action Employer. tunity/Affirmative Action Employer.

POSITIONS OPEN

FACULTY POSITION

Chemical oceanographer with interests that reinforce ongoing programs in estuarine and/or shelf process-es and with a strong commitment to research and teaching. At least several years of experience beyond doctorate required. Rank and salary open. Located at Lewes Complex. Send résumé, names of three references, and research interests to: Dr. Ron-ald J. Gibbs, College of Marine Studies, University of Delaware, Lewes, Del. 19958.

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

FACULTY POSITION. The Department of Geology of the University of South Carolina has requested a tenure-track position at the assistant professor level beginning 1979-1980 academic year. Preferred fields are: solid-earth geophysics, carbonate petrology, or regional geology. Duties will include teaching at the regional geology. Duties will include teaching at the undergraduate and graduate level and developing a strong research program in one of the above areas. Ph.D. required. Applications, including three letters of reference, should be sent to: Dr. L. R. Gardner, Chairman, Faculty Search Committee, Department of Geology, University of South Carolina, Columbia, South Carolina 29208. The University of South Caro-lina is an Affirmative Action/Equal Opportunity Em-plover. ployer.

HEAD, DEPARTMENT OF ENTOMOLOGY (Reannouncement)

Virginia Polytechnic Institute and State University invites applications and nominations for the position of head of the Department of Entomology. We are seeking a highly qualified entomologist with a strong commitment to the land-grant missions of teaching, research, and extension. Application deadline: 1 March or until position is filled. Equal Opportunity/ Affirmative Action Employer. Send applications and nominations, including curriculum vitae and three references. to: references, to:

Dr. E. N. Boyd, Associate Dean College of Agriculture and Life Sciences Virginia Polytechnic Institute and State University Blacksburg, Va. 24061

HYDROGRAPHER

HYDROGRAPHER The University of Delaware is seeking a professional hydrographer. This person will have a principal role in procurement, development, and testing of a new oceanographic CTD system which will include ship-board digital data storage and computer processing. After system development the hydrographer will be responsible for its use in data collection at sea about 50 days per year and for data processing, sensor cali-bration, and routine system maintenance ashore. The position requires an M.S. in physical or chem-ical oceanography or equivalent. Shipboard experi-ence with CTD systems, expert knowledge of com-puter processing, and basic knowledge of digital electronics and computer interfacing are desired. Salary commensurate with experience and ability. Send résumé to: Wadsworth Owen, University of

Send résumé to: Wadsworth Owen, University of Delaware, College of Marine Studies, P.O. Box 286, Lewes, Del. 19958.

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

MICROBIOLOGY FACULTY POSITIONS available in molecular genetics and immunology at assist-ant or associate professor level. Doctoral degree and postdoctoral experience required. Starting date: 1 July 1979 or soon thereafter. Send curriculum vitae and references to: Search Committee, Department of Microbiology, College of Medicine, University of Ari-zona, Tucson, Ariz. 85724. An Equal Opportunity/Af-firmative Action/Title IX/Section 504 Employer.

UNIVERSITY OF TORONTO PHYSIOLOGY/BIOCHEMISTRY

Applications are invited for two research appointments in the general area of gastrointestinal physiol-ogy, anaerobiasis, and carbohydrate/protein inter-mediary metabolism.

- Professional Associate. Appropriate doctorate and postdoctoral experience required. Initial appoint-ment up to 5 years, renewable. Salary scale, floor: \$16,000.
- 2) Postdoctoral Fellow. Two-year appointment. Ini-tial salary in range: \$11,000 to \$12,000. Applications and the names of two referees to:

Professor D. F. Mettrick, Chairman Department of Zoology University of Toronto, Toronto, Canada M5S 1A1

SCIENCE, VOL. 203

INSECT SYSTEMATIST CORNELL UNIVERSITY

Applications invited for tenure-track position with responsibility for teaching and research; teaching (50 percent) includes teaching at introductory and ad-vanced level in coordinated effort with faculty colleagues; research (40 percent) on systematics of a major arthropod order; extension (10 percent) in-volves chiefly the identification of specimens in individual's area of specialization. Prefer to fill at assist-ant professor level; others considered. Send curricuum vitae and names of five references to: Professor E. H. Smith, Department of Entomology, Cornell University, Ithaca, N.Y. 14853. Deadline for receipt of applications is 15 June 1979. Cornell University is an Equal Opportunity/Affirmative Action Employer.

The Psychology Department at the University of California, Riverside (UCR), has **TWO LECTURER POSITIONS** open for 1979-1980 academic year. One POSITIONS open for 1979-1980 academic year. One is an experimental psychologist with a broad general range of interests (including any combination of per-ceptual development, comparative psychology, in-troductory statistics, or research methodology). The other is in physiological psychology (skills in either comparative or experimental psychology desirable). Continuation beyond 1 year is a possibility al-though lecturer appointments at UCR are made on a year-to-year basis and are currently limited to a 3-vear maximum.

year maximum.

UCR is an Equal Opportunity/Affirmative Action Employer. Minority and female candidates are en-

Employer. Minority and female canataates are ch couraged to apply. All candidates should send curriculum vitae and the names and addresses of three persons from whom we may request letters of recommendation to: Dr. Paul Wilson Chair, Search Committee Department of Psychology University of California Riverside, Calif. 92521

MICROBIOLOGY

University of Toronto, Scarborough College, Division of Life Sciences Applications are invited for an assistant profes-sorship in the tenure-stream. The applicant should have a Ph.D. and postdoctoral research experience have a Ph.D. and postdoctoral research experience in microbiology. No preference exists for any partic-ular research specialty within the field. Demon-strated ability to teach effectively across the subject area would be an important asset. Principal duties would be undergraduate teaching, participation in graduate instruction, and the development of an ac-tive research programme. The current salary floor is \$16,500. The appointment is open from 1 July 1979 and the applicant must be available to commence duties not later than 4 September 1979. Curriculum vitae and the names of three referees should be sent vitae and the name of three referees should be sent to: Dr. G. R. Williams, Chairman, Division of Life Sciences, Scarborough College, University of To-ronto, West Hill, Ontario, Canada MIC 1A4.

MICROBIOLOGIST, CELL BIOLOGIST, or IM-MUNOLOGIST. Applications are invited for a pro-fessorial position at the assistant professor level with salary negotiable. Available I September 1979 or at a more convenient later date. Applicants must have a strong commitment to research as exemplified by significant publications and postdoctoral training. The successful candidate will be expected to show competence in teaching general microbiology and/or advanced courses in the genetics or physiology of prokaryotes. Please state specific areas of projected research. Send curriculum vitae and four letters of recommendation to:

Daniel R. Tershak, Acting Head Department of Microbiology and Cell Biology The Pennsylvania State University S101 Frear Building University Park, Pa. 16802

Closing date for applications is 30 June 1979. The Pennsylvania State University is an Equal Opportunity/Affirmative Action Employer.

PLANT TISSUE CULTURE

Postdoctoral position available immediately to join group investigating tissue culture propagation of conifers through callus cultures, protoplasts. Back-ground in tissue culture or general physiology. Sal-ary competitive. Send curriculum vitae and three let-ters of recommendation to: Dr. R. L. Mott, Depart-ment of Botany, North Carolina State University, Raleigh, N.C. 27650.

North Carolina State University is an Equal Opportunity/Affirmative Action Employer

16 FEBRUARY 1979

POSITIONS OPEN

PATHOLOGIST. Applications invited for full-time chief, Laboratory Service, Veterans Administration Medical Center, Long Beach, California, with ap-propriate academic appointment in Department of Pathology, College of Medicine, University of Cali-Factorology, Conege of Medicine, Oniversity of Cal-fornia, Irvine. Board-certification in anatomical and clinical pathology, and demonstrated skill in admin-istration and leadership required. Must have out-standing academic qualifications and proven re-search ability. Equal Opportunity Employer-womsearch ability. Equal Opportunity Employer—wom-en and minorities encouraged to apply. Interested candidates send curriculum vitae and three letters of reference to: G. S. Ascher, M.D., Veterans Adminis-tration Medical Center (113), 5901 East 7 Street, Long Beach, Calif. 90822.

PHARMACOLOGISTS

The Souibb Institute for Medical Research currently has several challenging career opportunities for professionals to conduct basic research in conjunction with other cardiovascular scientists in-volved in new drug development. To meet our needs, we are seeking individuals with the following:

- Ph.D. degree in pharmacology plus 2 to 5 years of postdoctoral experience in model and drug development for use in angina pec-toris/myocardial ischemia. Technical assist-crease will be available in modern will ance will be available in modern, wellequipped laboratory.
- Ph.D. degree in renal physiology or pharma-cology; some experience in this area pre-ferred. Technical assistance will be available in under previous di lobomatoria. in modern, well-equipped laboratory.
- B.S./M.S. degree in biology with 2 to 3 years of experience in pulmonary pharmacology to include surgical techniques on large and small animal models.

Located on a campus-like setting in Princeton, New Jersey; salary wil be commensurate with expe-rience and we offer a liberal benefits package. Please send curriculum vitae, in strict confidence, to:

E. R. Squibb & Sons, Inc. Recruitment and Selection Manager Department MA P.O. Box 4000 Princeton, New Jersey 08540

An Equal Opportunity Employer, M/F/H

PHYSIOLOGIST. Associate professor in biology, Ph.D. or equivalent required. Nine-month, tenure-track position. Candidates must have broad training track position. Candidates must have broad training in medical physiology, will teach medical physiology and undergraduate and graduate biology courses. Candidate will have a joint appointment in the School of Medicine. Successful candidate must be experienced teacher and researcher. Position avail-able fall 1979. Send curriculum vitae and three let-ters of reference by 15 April 1979, to: Physiology Screening Committee, Biology Department, Universi-ty of Missouri, 5100 Rockhill Road, Kansas City, Mis-souri 64110. The University is an Equal Opportunity Employee. Employer

PHYSIOLOGIST/BIOCHEMIST. Comparative physiologist/biochemist vibochemistic comparative phy-siologist/biochemist with organismic orientation to teach physiology and establish vigorous research program effective August 1979. Assistant/associate tenure-leading level; salary negotiable. Submit by 1 March: (i) curriculum vitae, including list of courses taken, and detailed research proposals; (ii) summary of teaching, including evidence of teaching expertise in physiology; and (iii) at least three recommenda-tion letters, to: Dr. R. L. Pardy, Search Committee, School of Life Sciences. The University of Nebraska, Lincoln, Nebraska 68588. Afirmative Action/Equal Opportunity Employer. Women and minorities en-couraged to apply. March: (i) curriculum vitae, including list of courses

TWO POSITIONS. Ph.D. or M.S. with experience Two POSITIONS. Ph.D. or M.S. with experience in atmospheric chemistry or nuclear chemistry for collection and analysis of atmospheric particulate samples from smelters, coal-fired plants, and remote areas including Antarctica and Hawaii. Send résumé and two reference letters to: W. H. Zoller, Depart-ment of Chemistry, University of Maryland, College Park, Md. 20742. The University of Maryland is an Equal Opnotunity/Affermative Action Employer Equal Opportunity/Affirmative Action Employer

POSTDOCTORAL FELLOW or ESTABLISHED IN-**VESTIGATOR** wanted. This program involves the structure and function of the lung in health and disease. Candidate must have experience in cell and orcase culture. Send curriculum vitae to: Yutaka Kik-kawa, M.D., Professor and Chairman, Department of Pathology, New York Medical College, Basic Science Building, Valhalla, N.Y. 10595.

POSITIONS OPEN

PHYSIOLOGY POSITION **Department of Physiology and Biophysics** Colorado State University (CSU Fort Collins, Colorado 80523

FACULTY POSITION IN PHYSIOLOGY. The De-partment of Physiology and Biophysics in the Col-lege of Veterinary Medicine and Biomedical Sci-ences at Colorado State University, is seeking appli-cants with a strong interest and background in the area of cardiovascular and/or respiratory adapta-tions to hyperbaria or hypobaria. A large modern hy-per-hypobaric facility currently exists with oneoing per-hypotanic facility currently exists with ongoing research in this area. Responsibilities may also in-clude instruction of undergraduate, graduate, and veterinary medical students. Applicant should hold a Ph.D., M.D., or D.V.M. degree. Salary and rank ne-Ph.D., M.D., or D.V.M. degree. Salary and rank ne-gotiable. Letter of application and curriculum vitae must be received by 15 April 1979. Address to: Dr. C. W. Miller, Chairman, Search Committee, Depart-ment of Physiology and Biophysics, Colorado State University, Fort Collins, Colo. 80523. CSU is an Equal Opportunity/Title IX Employer. Equal Oppor-tunity Office: 314 Student Services Building.

PHYSIOLOGIST-PHARMACOLOGIST

The Dow Corning Corporation has an immediate The bow Confing Comportation has an immediate opening for a creative physiologist-pharmacologist in our Medical Research Laboratory. Responsibili-ties include basic and developmental research re-lated to medical devices and laboratory supervision. Candidates should have a Ph.D. or equivalent in Candidates should have a Ph.D. or equivalent in physiology or pharmacology with a working knowl-edge of hematology and histology. Candidate will be located at corporate facilities in Midland, Michigan. Dow Corning is a rapidly growing, Fortune 500 cor-poration with an excellent salary and benefits pro-gram, advancement opportunities, and global opera-tions. *Dow Corning is an Equal Opportunity Em-ployer*. Send résumés to:

Physiologist-Pharmacologist Placement Professional Personnel Dow Corning Corporation 2200 West Salzburg Road—Box 1767 Midland, Michigan 48640

NATIONAL SYNCHROTRON LIGHT SOURCE

The Chemistry Department of Brookhaven National Laboratory seeks a Ph.D. scientist for work at the National Synchrotron Light Source now under construction. This facility, with its two electron storage rings as dedi-cated generators of photons for re-search and development purposes will produce x-rays in late 1981. The individual now sought would partici-pate in the development and installa-tion of beam line equipment for x-ray crystallography and would engage in experimental research in structural chemistry.

Applicants should have experience in chemical crystallography and have demonstrated ability in the development of instrumentation. Interested persons should contact:

Dr. Thomas F. Koetzle Chemistry Department



Associated Universities, Inc. Upton, L.I., New York 11973 An Equal Opportunity Employer, M/F

PLANT ECOLOGIST

Assistant professor; associate profes-sor level possible for exceptional candidate. Salary: \$12,835 to \$20,000. To teach undergraduate and graduate level courses and develop active research program involving graduate students. Ph.D. required; postdoctoral experi-ence desirable. Send résumé with statement of professional goals and three letters of reference by 20 March 1979 to: **Dr. R. D. Goos, Chairman**, Department of Botany, UNIVERSITY OF RHODE ISLAND Kingston, Rhode Island 02881

Affirmative Action/Equal Opportunity Employe

POPULATION BIOLOGIST-STONY BROOK

A 1-year appointment is available in the Ecology and Evolution Department of The State University of New York (SUNY) at Stony Brook. Teaching duties New York (SUNY) at Stony Brook. Teaching duties will include lecturing in the area of population biol ogy-elementary genetics to introductory biology stu-dents. The opportunity exists for the candidate to teach in her/his own area of specialization at the graduate level. We prefer the candidate's specialty to be population genetics but other areas of popu-lation biology will be considered. Applicants are re-quested to submit curriculum vitae and three letters of recommendation to: Dr. J. S. Levinton, Search Committee, Ecology and Evolution Department, SUNY at Stony Brook, Long Island, N.Y. 11794. Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL FELLOW to work in area of **POSTDOCTORAL FELLOW** to work in area of three-dimensional nuclear medicine imaging and in-strumentation with special emphasis on cardiac ap-plications. Must be citizen, non-citizen national, or admitted for permanent U.S. residency. Position open immediately. Send résumé and telephone num-bers of three references to: Dr. W. L. Rogers, Divi-sion of Nuclear Medicine, University of Michigan Medical Center, Ann Arbor, Michigan 48109. A non-discriminatory. Affirmative Action Fundavar discriminatory, Affirmative Action Employer

The Department of Anatomy at the School of Medi-cine, University of California, Los Angeles, invites applications from qualified candidates for appoint-ments as **POSTDOCTORAL FELLOWS** in the fol-lowing areas: cell biology, neuroanatomy, neu-rophysiology, and neuroendocrinology. Support for these positions may be obtained by the candidate rophysiology, and neuroendocrinology. Support for these positions may be obtained by the candidate with the help of a faculty member by applying to government or private sources or by applying to fac-ulty member(s) for positions on their research grants. Inquiries may be made to: Dr. A. M. Adi-nolfi, Vice Chairman for Graduate and Postdoctoral Programs, Department of Anatomy, University of California School of Medicine, Los Angeles, Califor-nia 90024. The University of California is an Equal Opportunity Employer. Opportunity Employer.

A position for a **POSTDOCTORAL INVESTIGA-TOR** is available 1 April 1979 at the Woods Hole Oceanographic Institution to do research in the dy-namics of eddies as part of the POLYMODE pro-gram. The POLYMODE field experiment is nearly completed, and the position principally involves analysis of measurements from current meters, floats, and CTD stations. The successful applicant must have a Ph.D. in physical oceanography or re-lated field. and some experience in analysis of field must have a Ph.D. in physical oceanography or re-lated field, and some experience in analysis of field measurements for comparison with models. This will be a 1-year appointment. Send résumé and three letters of reference before 15 March 1979 to: Per-sonnel Manager, WOODS HOLE OCEANOGRAPH-IC INSTITUTION, Woods Hole, Mass. 02543. An Equal Opportunity Employer, M/F/H.

POSTDOCTORAL POSITION for studies of bio-chemical pharmacology of nucleotide analogs in human bone marrow cells. Experience in growth of hematopoietic progenitor cells in vitro and/or nucle-otide biochemistry desirable. Minimum stipend: \$12,000. Send curriculum vitae and names of three references to: Dr. W. K. Plunkett, Department of De-velopmental Therapeutics, University of Texas System Cancer Center, M. D. Anderson Hospital and Tumor Institute, Houston, Texas 77030. An Equal Opportu-nity/Affirmative Action Employer.

POSTDOCTORAL **FELLOW**

Available for M.D. familiar with techniques of tissue culture, karyological analysis, chromosome biol-ogy, somatic cell genetics, hybridization techniques protein chemistry, with strong interest in cancer re-search. Applicant should intend to develop his/her own ongoing research projects. Salary range: \$11,000 to \$13,000. Submit replies to: Box 52, SCI-ENCE.

POSTDOCTORAL FELLOW

Position available for research on globin gene and nucleic acid sequencing techniques. Project will in-volve recombinant DNA technology. Send curricu-lum vitae, bibliography, summary of past research experience, and names of references to: Dr. Gary Paddock, Department of Basic and Clinical Immunol-ogy and Microbiology. Medical University of South Paddock, Department of Dask and Sumstain South ogy and Microbiology, Medical University of South Carolina, 171 Ashley Avenue, Charleston, South Car-olina 29403. An Equal Opportunity Employer.

POSTDOCTORAL POSITIONS. The Department of Microbiology has a 5-year training grant and re-search grants to support postdoctoral positions in research in: herpesvirus proteins and mechanisms of immunity, mechanisms of immunity to togaviruses, coronavirus structure and replication, peptide trans-port, plasmid function in pseudomonas, and other research areas in collaboration with units in the Knoxville–Oak Ridge area. For further details con-tact: Dr. Arthur Brown, Department of Micro-biology, University of Tennessee, Knoxville, Tenn. 37916. 37916

POSTDOCTORAL POSITIONS COLLEGE OF MEDICINE UNIVERSITY OF IOWA

Please contact the following departments for post-doctoral positions at: The University of Iowa, Iowa City, Iowa 52242.

- 1) Anatomy, Dr. Terence H. Williams, Basic Sciences Building – Research in neurobiology, endocri-nology, cell biology and in cardiovascular, re-productive, and other biological systems.
- 2) Biochemistry, Dr. Edward Heath, Basic Sciences Building.
- Internal Medicine, University of Iowa Hospitals and Clinics, Francois M. Abboud, M.D., profes-sor and head, or Darris Goerdt, administrator, telephone 319-356-2850.
- Microbiology, Dr. I. P. Crawford, professor and head, Basic Sciences Building.
- Pharmacology, Dr. J. P. Long, Basic Sciences Building-Major divisions of pharmacology and toxicology, both biochemical and physiological.
- Physiology and Biophysics, Dr. Robert E. Fellows, professor and head, Basic Sciences Building-Interest in research.
- Psychiatry, Dr. R. R. Crowe, Psychiatric Hospital-Psychiatric genetics.
- Radiation Research Laboratory, Dr. J. W. Os-borne, 14 Medical Laboratories—In vivo and in vitro studies of the biological effects of radia-tion; cyclic nucleotides, superoxide dismutase, and cancer; and kinetics of cell proliferation.

Positions require a Ph.D., M.D., or equivalent. Write to attention of the specific department in which there is interest.

The University of Iowa is an Equal Opportunity/Af-firmative Action Employer.

POSTDOCTORAL POSITIONS in a combined mem-POSTDOCTORAL POSITIONS in a combined mem-brane group of the Departments of Biophysical Sci-ences and Medicine, State University of New York (SUNY) at Buffalo. Basic and applied NIH spon-sored projects on structure-function relationships and drug and hormone-receptor interaction of the erythrocyte and adipocyte membranes. Experience and interest in membrane biochemistry desirable. Salary: \$11,000 to \$14,000. Send curriculum vitae to: Dr. C. Y. Jung or Dr. F. A. Green, SUNY at Buffalo, 3495 Bailey Avenue, Buffalo, N.Y. 14215.

POSTDOCTORAL POSITION available immediate-ly for research on membrane phenomena associated with mediator release in allergy. Applicants should have a background in immunochemistry or biochem-istry. Send curriculum vitae and three letters of rec-ommendation to: Dr. A. Froese, Department of Im-munology, University of Manitoba, 730 William Ave-nue, Winnipeg, Manitoba, Canada R3E 0W3.

POSITIONS OPEN

POSTDOCTORAL POSITION for a Ph.D. in pharmacology or a related discipline to study the in-volvement of central nervous system membrane lip-ids and membrane calcium transport in tolerance and/or physical dependence to barbiturates and alcohol. Position (for up to 3 years) available immediate-hol. Position (for up to 3 years) available immediate-hy. Salary: \$12,000. Please send curriculum vitae and three letters of recommendation to: Dr. Steven W. Leslie, Department of Pharmacology, College of Pharmacy, The University of Texas at Austin, Austin, Tex-as 78712. An Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL POSITION in enzymolo-gy, glycoproteins, and lipids. Send résumé and three letters of recommendation to: P. E. Kolattukudy, Department of Agricul-tural Chemistry, Washington State Universi-ty, Pullman, Washington 99164. An Affir-mative Action/Equal Opportunity Employer.

POSTDOCTORAL POSITION. The Research Department of the Cary Arboretum is seeking a FOR-EST PATHOLOGIST with a working knowledge of the common diseases of the northeastern United the common diseases of the northeastern United States and with research interest in urban tree prob-lems, relating to either abiotic or biotic stress fac-tors. This individual will work closely with an ongo-ing urban tree improvement program aimed at devel-oping suitable trees for the urban environment. Modern laboratories, excellent library, greenhouse and nursery facilities, and a large collection of living plants are all available. Appointments beginning on I July 1979. Salary: \$12,000. Send résumés and names of three references to: Dr. David F. Karnosky, Cary Arboretum, Box AB, Millbrook, N.Y. 12545. Affir-mative Action/Equal Opportunity Employer.

POSTDOCTORAL POSITION for candidate with in-POSIDOCTORAL POSITION for candidate with in-terest in immune deficiency, genetic diseases, and leukemia. Background in cell biology and biochem-istry. Please send curriculum vitae to: M. Kerans, Personnel Department, NEW YORK UNIVERSITY MEDICAL CENTER, 568 First Avenue, New York, N.Y. 10016. An Equal Opportunity/Affirmative Ac-tion Employer, M/F.

POSTDOCTORAL POSITION. Research associate to study chemotaxis in *D. discoideum* slime mold amoebas. Expertise in biochemistry/molecular bi-ology or genetics required. Current emphasis on cell membrane; mechanism of chemotactic signal recep-tion and transmission. Possible for individual to initi-ate independent line of research. Send curriculum vitae to: Dr. Claudette Klein, Department of Bio-chemistry, Saint Louis University Medical School, St. Louis, Missouri 63104.

POSTDOCTORAL POSITION-MICROBIOLOGY

Postdoctoral position available September 1979 to study the mechanisms of bacterial adhesion to tisstudy the mechanisms of bacterial adhesion to tis-sues. Position requires Ph.D. in microbiology or bio-chemistry with a good background in carbohydrate chemistry. Appointment is for 2 years and salary is CS14,000 to C\$16,000, depending on experience. Please send curriculum vitae and names of two refer-ences to: Dr. J. W. Costerton, Department of Biol-ogy, University of Calgary, Calgary, Alberta, Canada T2N 1N4.

RESEARCH ASSOCIATE—MICROBIOLOGY

Research associate position available immediately to study the bacterial colonization of inert surfaces in aquatic environments. Position requires Ph.D., pref-erably with some postdoctoral experience, and a good background in biochemistry. Appointment is for 3 years and salary is C\$19,000 to C\$22,000, de-pending on experience. Please send curriculum vitae and names of two references to Dr. J. W. Costerton, Department of Biology, University of Calgary, Cal-gary, Alberta, Canada T2N 1N4.

RESEARCH ASSOCIATE—MICROBIOLOGY

Research associate position available immediately to study the synthesis and the chemical nature of bacte-rial exopolysaccharides. Position requires Ph.D. in microbiology or biochemistry and postdoctoral experience is an asset. Appointment is for 2 years and salary is C\$19,000 to C\$22,000, depending on experience. Please send curriculum vitae and names of two references to: Dr. J. W. Costerton, Department of Biology, University of Calgary, Calgary, Alberta, Canada T2N 1N4.

SCIENCE, VOL. 203

POSTDOCTORAL POSITION. Available immediately for work on regulation of gene expression in yeast. Experience in microbial genetics preferred. Send curriculum vitae and names of three references Sena curriculum vitae and names of three references to: Dr. M. A. Savageau, Department of Microbiology, The University of Michigan Medical School, Ann Ar-bor, Michigan 48109. A nondiscriminatory, Affir-mative Action Employer.

POSTDOCTORAL POSITION. Ph.D. position available immediately in an established endocrine research laboratory to study the molecular biology and biochemistry of the nuclear receptor for thyroid hor mones. Experience in studies of tissue receptors for hormones, drugs, and so forth would be very desir-able. Please send curriculum vitae and the names of three references to: M. I. Surks, M.D., Montefiore Hospital and Medical Center, 111 East 210 Street, Bronx, N.Y. 10467. Found Opportunity Employer M/F

Equal Opportunity Employer, M/F.

POSTDOCTORAL POSITION available begin-ning September 1979 for individual with background in microbiology and/or biochemistry. Studies in-volve interactions in the fruiting myxobacteria and include characterization of molecules responsible for intercellular adhesion and cell aggregation. Salary: \$10,000 to \$12,000 depending upon experience. Contact: Dr. David White, Biology Department, In-diana University, Bloomington, Ind. 47402. An Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL RESEARCH ASSOCI-ATE. Position available 1 April 1979, for recent Ph.D. in organic chemistry. Research involves new syntheses of compounds of bio-logical and medical interest incorporating short-lived radionuclides (carbon-11, fluorine-18, nitrogen-13). Experience with isotopes is desirable. Successful candidate will join an established research team. Interested can-didates should send résumé, transcripts, and request three letters of recommendation be forwarded to: Chairman, Chemistry Depart-ment, Brookhaven National Laboratory, Associated Universities, Inc., Upton, L.I., New York 11973. An Equal Opportunity Employer, M/F.

Department of Neurosciences—Ph.D. POST-DOCTORAL RESEARCH POSITIONS available in the following areas: neuroanatomy and neurophy-siology of the limbic system and aggressive behav-ior; axonal transport (metabolism of catechola-mines, nerve regeneration); EM analysis of experi-mental neuropathology/myelin pathology; neuroana-tomic and neuropathology/myelin pathology; neuroana-tomic and neuropathology/myelin pathology; neuroanamental neuropathology/myelin pathology; neuroana-tomic and neurophysiologic analyses of psycho-somatic disease. Individuals required to participate in Neurosciences Teaching Programs. Positions available for an initial period of 1 year with the possi-bility of an additional year. Salary negotiable. Send inquiries, curriculum vitae, and three letters of rec-ommendation to: Dr. Allan Seigel, Department of Neurosciences, College of Medicine and Dentistry of New Jersey, New Jersey Medical School, 100 Bergen Street, Newark, N.J. 07103. Equal Opportunity/Af-firmative Action Employer. firmative Action Employer.

POSTDOCTORAL RESEARCH SCIENTIST. Posi-POSTDOCTORAL RESEARCH SCIENTIST. Posi-tion available immediately for organic or biochemist (Ph.D. or M.D.) with interest in lipid biochemistry. Two areas of research: (i) synthesis, effect, and metabolic fate of unnatural fatty acids, and (ii) lipid structure and metabolism of normal and tumor tissue and cultured cells. Send résumés to: Dr. Randall Wood, Department of Biochemistry, Texas A & M University, College Station, Texas 77843. Equal Op-portunity/Affirmative Action Employer.

NATIONAL SCIENCE FOUNDATION (NSF) DIVISION OF MATERIALS RESEARCH

The National Science Foundation is seeking qualified applicants who are interested in spending 1 or 2 years at NSF as **PROGRAM DIRECTOR** for the Polymers Program in the Division of Materials Re-search. The position is currently excepted from the search. The position is currently excepted from the competitive civil service and salary ranges from \$32,442 to \$47,500 per annum. Applicants should have a Ph.D. or equivalent in an appropriate dis-cipline and substantial experience in polymer sci-ence. Those interested should send current résumés by 15 March 1979 to: Division of Personnel and Man-agement, Section B, National Science Foundation, 1800 G Street, NW, Washington, D.C. 20550. Tele-phone: 202-632-4106. The National Science Founda-tion is an Equal Opportunity/Affirmative Action Em-ployer. ployer

16 FEBRUARY 1979

FACULTY POSITIONS 1979–1980 KING FAISAL UNIVERSITY COLLEGE OF MEDICINE DAMMAM, SAUDI ARABIA

The expanding College of Medicine, now in its fourth year, is accepting applications from qualified men and women for the 1979-

1980 academic year in: CHEMISTRY BIOLOGY PHYSICS PHYSICS BIOCHEMISTRY ANATOMY PHYSIOLOGY PHARMACOLOGY

COMMUNITY MEDICINE EPIDEMIOLOGY MICROBIOLOGY PARASITOLOGY

PATHOLOGY

Doctorate or equivalent degree required. Language of instruction is English. Interviews to be held in London and Houston in late February 1979.

SALARY RANGES (annual, paid monthly in Saudi riyals):

Professor: \$26,118 to \$33,378 Associate Professor: \$23,359 to \$29,712 Assistant Professor: \$19,039 to \$24,757 Lecturer: \$11,906 to \$16,444

(30 percent allowance for M.D. degree) BENEFITS:

Free furnished housing, educational allowances, airfare to and from Saudi Arabia for family of four, 60-day paid vacation, liberal overweight allowance. No Saudi income tax. Send two copies of résumé and three ref-

erences to: Dr. Tawfik Tamimi Dean, Faculty of Medicine King Faisal University c/o Saudi Arabian Educational Mission 2221 West Loop, South Houston, Texas 77027

or c/o P.O. Box 2 Sunbury on Thames Middlesex TW16 6EH England のゆゆゆののののののののの

POSTDOCTORAL RESEARCH TRAINING IN TOXICOLOGY

Postdoctoral positions in the Duke Toxicology Training Program are available immediately. The program is an interdisciplinary approach to tox-icology. Each applicant should provide curriculum vitae, a summary of thesis, three references, and a brief statement of specific interests in toxicology. Applicants should identify specific preceptors from the list below. the list below.

Role of superoxide and superoxide-derived spe-cies in oxygen toxicity and the protective effects of superoxide dismutases, catalases, and per-oxidases. Microbiological and tissue culture background and an interest in classical enzymology desired. Professor Irwin Fridovich.

Mechanism of synthesis, storage, and secretion of neurotransmitters using cultured adrenal medulla cells. Professor Norman Kirshner.

Inhalation toxicology: toxicokinetics and pharmacology of nitrate aerosols and other air pollutants. Whole animal and isolated perfused lung tech-niques will be used. Professor D. B. Menzel.

Studies on phospholipid metabolism, bone marrow cell kinetics, and specific cell antisera. Professor Athos Ottolenghi.

Toxicity and pharmacology of peroxides: chem-ical synthesis of prostaglandin endoperoxides and effects on human platelets and organs. A strong background in chemical synthesis is desired. Pro-fessor Ned Porter.

Effects of age, stress, and other environmental factors on drug and toxicant metabolism using mi-crosomal fractions studied with epr and fluores-cence. A strong background in biochemistry or biophysics is desired. Professor G. K. Rosen.

Applicants should respond to: Dr. D. B. Menzel, Director, Toxicology Training Program, Department of Pharmacology, P.O. Box 3813, Duke University Medical Center, Durham, North Carolina 27710.

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Courses in Biological Sciences at the Hopkins Marine Station Summer 1979

First Session-18 June to 21 July

100H. Marine Algae, I. Abbott

An introduction to the marine algae of the Pacific Coast with emphasis on morphology and taxonomy; field work is emphasized. Prerequisite: elementary botany or general biology.

105H. Subtidal Communities, C. Baxter

Lecture, laboratory, and diving field trips treating the ecology of local shallow water marine communities. 111H. Marine Invertebrates, D. Abbott

urvey of the lower marine invertebrates, echinoderms, and protochordates.

130H. Biological Clocks, C. Pittendrigh

The comparative physiology of innate circadian, circa-tidal, and circa-annual rhythmicity in animals, plants, and unicells. Specific attention is devoted to: (i) the role of clocks in navigation and photoperiodism, (ii) the *Drosophila* system, (iii) the localization of circadian pacemakers within nervous systems, and (iv) the ge-netics and molecular biology of the clock.

165H. Experimental Neurobiology, S. Thompson and additional staff An intensive laboratory and lecture course in cellular and organismal neurophysiology. Lectures emphasize: (i) cellular processes such as membrane excitability, synaptic transmission, neuronal metabolism, and neuro-pharmacology, and (ii) the organization of sensory, motor, and integrative systems. The laboratory offers experience with several marine invertebrate preparations and a wide range of investigative techniques. This course is offered to advanced undergraduates, graduate students, and postdoctoral students.

283H. Bioactive Marine Nature Products, F. Fuhrman

A comprehensive survey of the biological effects of naturally occurring substances from marine animals and plants

cond Session-23 July to 25 August

112H. Marine Invertebrates (continued), D. Abbott Continuation of Course 111H, covering the molluscs, annelids, arthropods, and allied lesser phyla. While the two courses form a continuous sequence, either half may be taken separately when space permits

113H. Introduction to Oceanic Biology, E. Haderlie Introduction to the ocean as an environment; to its major categories of inhabitants, producer and consumer, benthic and pelagic, invertebrate and vertebrate; and to the functioning of the oceanic ecosystem.

125H. Developmental Biology, D. Epel and R. Quatrano Lectures and research projects focusing on early embryonic development. Guest lecturers will include M. Bernfield, J. Brothers, E. Davidson, P. Green, L. Kedes, D. Mazia, R. Nucitelli, M. Paul, R. Schimke, R. Steinhardt, V. Vacquier, and N. Wessells.

160H. Problems in Subtidal Ecology, C. Baxter Field problems in subtidal ecology. Normally participants continue from 105H.

284H. Marine Pharmacology, F. Fuhrman The pharmacological actions of naturally occurring substances from marine animals and plants. Major em-phasis will be on the mechanism of action of marine neurotoxins and cardiotoxins. (Continuation of 283H, but either may be taken separately.)

For more information and an application form please write to: The Academic Secretary, Hopkins Marine Station, Pacific Grove, California 93950. Applications for the summer session close on 31 March 1979; except for the experimental neurobiology course, the deadline is 30 April 1979.

The Department of Biology, University of Pennsylvania, invites applications for a FULL PROFES-SORSHIP, beginning July 1979 or 1980. Applicants should be active in developmental biology, cell biology, and/or genetics (a previous announcement in *Science* (17 November, p. 793) describes the interests and goals of the department). Send curriculum vitae, description of research interests, and names and addresses of references to:

Dr. D. J. O'Kane, Chairman University of Pennsylvania 212 Biology Building/G5 Philadelphia, Pennsylvania 19104

An Equal Opportunity/Affirmative Action Employer

NATIONAL SCIENCE FOUNDATION (NSF) DIVISION OF ASTRONOMICAL SCIENCES

The Division of Astronomical Sciences invites applications for two positions as **PROGRAM DIRECTOR** in the Astronomy Research Section to review and process proposals for grants in astronomy. Applicants should have a record of productive research. Send application/curriculum vitae and names of at least three references to: National Science Foundation, Division of Personnel and Management, Section B, Washington, D.C. 20550 by 15 March 1979. NSF is an Equal Opportunity/Affirmative Action Employer.

PROJECT MANAGER/ENVIRONMENTAL CHEM-IST—For a demonstration project to determine the effectiveness of retention/detention drainage system for reducing nitrogen, phosphorus, and other pollutant loadings in nonpoint source agricultural runoff. The project, funded by Florida legislature, will be conducted in Okeechobee County, Florida. Minimum requirements are 3 years of working experience, including supervisory experience in environmental water chemistry, and master's degree in appropriate discipline or equivalent training and experience; \$20,072.

LIMNOLOGIST—Chemical limnologist to conduct research and evaluation of eutrophication of Lake Okeechobee, Florida. Duties include assessment of existing water chemistry data, design of future research/monitoring programs, and preparation of formal reports including recommendations for management alternative to preserve and protect the natural environment. Minimum requirements are 2 years of working experience in chemical limnology or eutrophication modeling and bachelor's degree in limnology or chemistry or master's degree with specialization in chemical limnology or eutrophication modeling; \$16,244. Attractive fringe benefits. Send résumé to: South Florida Water Management District, Employee Relations Office, P.O. Box "V," West Palm Beach, Florida 33402. Equal Opportunity Employer.

UNIVERSITY OF PENNSYLVANIA MEDICAL SCHOOL

The Department of Biochemistry and Biophysics has a position available for a **RESEARCH ASSIST-ANT PROFESSOR**. The position is immediately available and is nontenure-track. Applicants should have a Ph.D. degree and have at least 5 years of research experience in the area of pancreatic islet physiology, biochemistry, and morphology. Send applications to: Dr. David Trentham, Department of Biochemistry and Biophysics, University of Pennsylvania, Philadelphia, Pa. 19104. The deadline for applications is March 1979. An Affirmative Action/ Equal Opportunity Employer.

RESEARCH ASSISTANT PROFESSOR OF WILD-LIFE ECOLOGY. Position open starting May 1979. Ph.D. with emphasis on small mammal biology, forest ecology, and quantitative science. Send curriculum vitae, transcripts, copies of publications and grant proposals, and four letters of recommendation prior to 25 March 1979 to: Dr. Richard D. Taber, College of Forest Resources, 115 Anderson AR-10, University of Washington, Seattle, Wash. 98195. An Equal Opportunity/Affirmative Action Employer.

CORNELL UNIVERSITY

Position available 1 March 1979 for **RESEARCH AS-SOCIATE** with practical experience in planetary geomorphology and photointerpretation to analyze Viking Orbiter Images. Participation in compilation of data bank of time-variable, aeolian phenomena on Mars. Ph.D. in planetary sciences or related subject desirable but not necessary. Send curriculum vitae and two letters of recommendation to: J. Veverka, **Space Sciences Building, Cornell University, Ithaca, N.Y. 14853.**

POSITIONS OPEN

RADIATION SCIENTISTS

U.S. Environmental Protection Agency (EPA), Office of Radiation Programs, Criteria and Standards Division.

Several positions are available for radiation physicists, radiobiologists, nuclear engineers, epidemiologists/biostatisticians, and health physicists. The division is responsible for promulgating environmental standards, federal guidance, and general radiation protection policy within the agency. Challenging opportunities to work on radiation waste management, radioactive air pollution, natural radioactivity, nonionizing (RF) radiation, and related problems of interest to environmental scientists. Experienced scientists or trainees at the B.Sc., M.Sc., and Ph.D. levels are invited to apply for these job opportunities.

These positions are in the permanent federal career Civil Service or appointments in the Commissioned Corps of the U.S. Public Health Service. The GS level or rank will be commensurate with training and experience. The positions are located in Washington, D.C.

Interested individuals should submit Personal Qualifications Statement SF-171, obtainable at the U.S. Civil Service Commission offices or U.S. post offices, and/or résumés with transcripts to:

Pat S. Keitt Personnel Management Division (PM-212) U.S. Environmental Protection Agency 401 M Street, SW Washington, D.C. 20460

An Equal Opportunity Employer

RESEARCH ASSOCIATE POSITION: Duration of 1 to 2 years, M.D./Ph.D.; nontenured position. All science and medicine specialties. Submit curriculum vitae and area of interest to:

Rubin Bressler, M.D. Department of Internal Medicine University of Arizona College of Medicine Tucson, Arizona 85724

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

RESEARCH ASSOCIATE-VIROLOGY

Available 1 January 1979; 1 to 3 years; biophysical/ biochemical characterization of defective herpesvirus DNA; oncogenic transformation by defective herpesviruses. Prefer virologist or biochemist with experience in cell culture, molecular hybridization, and electrophoresis. Salary: \$10,000 to \$12,000 per year. Send résumé, transcripts, and names of three references to: Dr. Byron K. Murray, Department of Microbiology, VIRGINIA COMMONWEALTH UNI-VERSITY, Richmond, Va. 23298; telephone: 804-786-0393. An Equal Opportunity/Affirmative Action Employer, M/F.

RESEARCH ASSOCIATE

D.V.M. positions available for tumor immunologist with virology or immunochemistry background. Applicants must have several years of experience in research of immune mechanism in laboratory animals. Salary range: \$15,000 to \$19,000. Submit replies to: **Box 51, SCIENCE.**

THE AUSTRALIAN NATIONAL UNIVERSITY

Applications are invited for appointment as **RE-SEARCH FELLOW IN ELECTRON MICROSCOPY** in the Research School of Earth Sciences. Candidates should be persons trained in electron microscopy, whose background is in structural geology, physics, or materials science. The successful applicant will be expected to carry out research in deformation structures or other defect structures in minerals and rocks, and to be generally responsible for the GEOL 200Kv STEM electron microscope and its use in the rock deformation group headed by Dr. M. S. Paterson. There will be opportunity for collaboration in research projects in experimental rock deformation at high temperatures or in other research within the school. This post was previously advertised with closing date of 31 October 1978. All earlier applicants will be considered. Appointment: 3 years in first instance with possibility of extension for 5 years. Salary within range A\$15,786 to A\$20,606 per annum. Current exchange rates A\$1:NP58:U.S. \$1.15. Superannuation benefits. Reasonable appointment expenses. Assistance with housing. Further details from: Registrar, P.O. Box 4, Canberra ACT 2600, Australia with whom applications close 9 March 1979.

POSITIONS OPEN

RESEARCH ASSOCIATE: Department of Chemistry, Massachusetts Institute of Technology, seeks a heterocyclic chemist to assume the leadership of a β lactam research group starting 15 July 1979. Requirements: Ph.D. in organic chemistry with a minimum of 1 year of experience (pre- or postdoctoral) as a group leader; 40 hours per week; \$11,000 to \$12,000 per year. Send résumé to: Professor J. C. Sheehan, Department of Chemistry, Massachusetts Institute of Technology, Cambridge, Mass. 02139.

RESEARCH ASSOCIATE

Immediate opening for a Ph.D. with experience in biochemical and cytological techniques to study the role of microtubules and other cytoskeletal elements during animal virus infections. Of particular interest will be RNA (murine leukemia) and DNA (adenovirus) tumor viruses. Send curriculum vitae and request three referees to submit letters of reference to: Personnel Office, Worcester Foundation for Experimental Biology, 222 Maple Avenue, Shrewsbury, Mass. 01545.

An Equal Opportunity/Affirmative Action Employer

RESEARCH ASSOCIATE. Postdoctoral position available 1 April 1979 for a Ph.D. preferably in physical biochemistry to study lipid-protein interactions in biomembranes. Previous training in the area of molecular spectroscopy will be an asset. Please send résumé and two letters of recommendation to: Dr. J. K. Reed, Department of Chemistry, University of Toronto, Toronto, Canada, M5S 1A1.

RESEARCH ASSOCIATE

Must have a master's or doctoral degree in microbiology, immunology, or biochemistry. Two years of related experience. Project involves molecular and cellular aspects of cancer research. Contact:

Personnel Office The University of Texas Health Science Center at San Antonio 7703 Floyd Curl Drive San Antonio, Texas 78284

An Equal Opportunity/Affirnative Action Employer

RESEARCH ASSOCIATE Biochemistry of Genetic Recombination

Biochemistry of Genetic Recombination Postdoctoral position at University of Maryland Baltimore County (UMBC), for in vivo and in vitro studies of DNA recombination and repair. Extensive interaction and collaboration with molecular biology groups at nearby National Institutes of Health and Johns Hopkins University. Experience in molecular genetics or nucleic acid biochemistry highly desirable but not essential. To begin summer 1979; earlier or later dates possible. Salary: \$14,000 to \$15,500, plus fringe benefits. Candidates with M.S. degree and demonstrated capacity for independent research will be considered. Send curriculum vitae and two letters of recommendation to: Dr. John Hays, Department of Chemistry, UMBC, Catonsville, Md. 21228. UMBC is an Affirmative Action/Equal Opportunity Employer.

Applicants are invited to apply for a **RESEARCH PHYSICIST POSITION** at the Harvard College Observatory at an annual salary of \$17,500 to \$18,500. This person will prepare a rocket-borne Lyman Alpha Coronagraph for measurements of temperature and densities in the solar corona at several solar radii from the sun center. Will develop and perform instrument tests, radiometric and wavelength calibration, and instrument stray light measurements. Will evaluate and test multispectral microchannel plate detectors or other detectors for extreme ultraviolet. Will participate in the data reduction and scientific analysis. Requires a Ph.D. including 3 years of doctoral training in rocket-borne astronomical spectroscopy. Knowledge of multi-spectral microchannel plate detectors and solar physics is desirable. Submit résume to: Dr. John L. Kohl, Harvard College Observatory, 60 Garden Street, Cambridge, Mass. 02138. Harvard University is an Equal Opportunity Employer.

RESEARCH SUPERVISOR—Position available in cell culture and virology. Salary: \$10,106 to \$11,116; 24 months minimum, on grant. Send résumé and three letters of recommendation to: **Department of Personnel, College of Medicine, Box 28, University of South Florida, Tampa, Fla. 33612.** The University of *South Florida Medical Center is an Affirmative Action/Equal Opportunity Employer.*

SENIOR FACULTY POSITION CORNELL UNIVERSITY

The Department of Chemistry is seeking an organic chemist to fill a tenured faculty opening at the as-sociate professor level. We are particularly inter-ested in candidates whose research is in the area of synthesis, but we will also consider candidates who have made important contributions to other areas of organic chemistry. Candidates must have an out-standing record in research, and must be interested in graduate and undergraduate teaching. Please send curriculum vitae and publication list to: Dr. Ben-jamin Widom, Chairman, Department of Chemistry, Cornell University, Ithaca, New York 14853.

Cornell University is an Equal Opportunity/Affirmative Action Employer.

SENIOR SCIENTIST, WATER RESOURCES ENGINEERING/OCEANOGRAPHY

Ecological Analysts, Inc., a national environmen-Ecological Analysts, Inc., a national environmen-tal consulting firm, has an immediate opening in its Walnut Creek, California, office for an individual with a Ph.D. and a minimum of 2 years of experi-ence, or a masters degree and a minimum of 4 years of experience. Preferred areas of expertise include hydrodynamic/water quality analyses and modeling of estuarine and coastal environments and hydroof estuarine and coastal environments and hydro-dynamic studies of water intake/discharge struc-tures. Demonstrated project management, report writing, client interaction, and program marketing are essential prerequisites. Salary negotiable and commensurate with experience. Mail résumé, sum-marizing previous projects and marketing experi-ence, educational background, salary requirements, present responsibilities, and list of references, to:

Corporate Personnel-WRE/WAL Ecological Analysts, Inc. York Building, 8600 LaSalle Road Towson, Md. 21204 An Equal Opportunity Employer, M/F

SOCIAL/CLINICAL PSYCHOLOGIST, rank open. Must be qualified to teach courses in clinical psy-chology and be able to contribute to an established applied social research programme. Must have an established research programme or extensive gradu-ate experience in the field of behavioral medicine. Salary commensurate with rank and qualifications. Starting date is 1 September 1979. Apply to: Dr. G. R. Skanes, Head, Department of Psychology, Memorial University of Newfoundland, St. John's, New-foundland, Canada A1B 3X9. Position subject to availability of funds.

STUDY DIRECTOR

Committee on Vision, Assembly of Behavioral and Social Sciences, National Academy of Sciences, National Research Council, seeks a study director. Responsibilities include writing and technical editing of committee working group reports, liaison with committee executive council and working groups, and organization of meetings. Qualifications include Ph.D. or equivalent in psychophysics or psycho and organization of meetings. Qualifications include Ph.D. or equivalent in psychophysics or psycho-physiology of vision, 2 to 5 years of relevant re-search experience, effective oral and written com-munication skills, and administrative experience. Submit résumé and samples of published writing to : Dr. Milton A. Whitcomb, Committee on Hearing, Biocoustics and Biomechanics, National Academy of Sciences, 2101 Constitution Avenue, NW, Washing-ton, D.C. 20418. An Equal Opportunity Employer.

SYSTEMATIC BOTANISTS. The Department of StyleMattic BOTANISTS. The Department of Botany, Smithsonian Institution, solicits candidates with active research programs in monographic and/ or floristic botany. Preference given to applicants with Ph.D. and demonstrated interest in evolutionary interpretation. Salary starting at \$19,263, de-pending on qualifications. Send statement of general research goals, curriculum vitae, U.S. Civil Service Standard Form 171, names of three references, and set of reprints to: Dr. Dieter C. Wasshausen, Chair-men Department of Patene California Latit man, Department of Botany, Smithsonian Institution, Washington, D.C. 20560. Closing date: 1 June. The Smithsonian Institution is an Equal Opportunity Employer.

TOXICOLOGIST

Toxicologist with proven abilities in technical ad-ministration, written and oral communication, to coordinate scientific activities of expert panel re-viewing safety of ingredients, to have responsibili-ties for scientific and administrative aspects of the program including preparation of literature searches, summaries, draft reports, as well as administration of medicine pretation for the formation of the second of meetings, contracts, finances and staff. Box 50, SCIENCE.

16 FEBRUARY 1979

QUEEN ELIZABETH II FELLOWSHIPS PHYSICAL AND BIOLOGICAL SCIENCES

commemorate the Royal Visit to Australia in 1963 the Australian Government established the Queen Elizabeth II Fellowships scheme. Under this scheme up to ten fellowships may be awarded each year for full-time research by young scientists of exceptional promise and proven capacity for original work. These are postdoctorate awards tenable in an Australian university or approved research institution normally for 2 years. Tenure of a fellowship is expected to com-mence within 9 months of the announcement of the award.

QUALIFICATIONS: They should have a Ph.D., or equivalent qualifications, in one of the physical or biological sciences (which are deemed to include mathematics and the scientific aspects of statistics, engineering, metallurgy, agriculture, and medicine). De-tails of eligibility can be obtained at one of the three addresses below. Applications will also be considered from candidates for the Ph.D degree if their thesis has been submitted for examination.

STIPEND: A\$17,131 per annum, increased to \$18,403 per annum at age of 28 years.

ALLOWANCES: Are payable in respect of a fellow's dependent spouse (\$500 per an-num), each dependent child (\$200), super-annuation payments (up to 10 percent of stipend), appropriate insurance coverage and necessary travel expenses.

APPLICATIONS: Persons interested in applying for the above fellowships could obtain application forms and a statement of the conditions of award from: Secretary, Queen Elizabeth Fellowships Committee, Depart-ment of Science, P.O. Box 449, Woden A.C.T. 2606, Australia; the Minister (Scien-tific) Canberra House, 10-16 Maltravers Street, London, WC2R 3 EH, U.K.; or the Australian Embasey 16611 Mascaphusette Street, London, WC2K 3 EH, U.K.; or the Australian Embassy, 1601 Massachusetts Avenue, Washington, D.C. 20036. Appli-cations for the next round of awards, which will be announced in June 1979 close at the Canberra address on 16 March 1979.

BIOLOGY LABORATORY TEACHING WORKSHOP June 4 through 8, 1979 The University of Calgary

Sources of Living and Supplementary Materials for Laboratory Instruction Don Igelsrud (Calgary) Preparing Karyotypes of Rattus norvegicus, Mus musculus, and Rana pipiens Joseph Larsen (Illi-

nois)

An Investigative Study of Sick Potatoes Daniel Burke (Mercer)

The Elucidation of the Biochemical Pathway for Pigment Production in Serratia marcescens Mar-cia Allen (Stanford)

An Investigative Laboratory in Cell Permeability Ruth Von Blum (Berkeley)

Plant and Animal Tissue Culture Lester Eddington (Biola)

Animal Behavior, and Introduction to Statistical Analysis Eugene Kaplan (Hosstra)

The Structural Organization of Living Cells and Cell Organelles Osris and Susan Boutros (Pittsburgh) The Honey Bee, Apis mellifera, an Ideal Laboratory Animal Jon Glase (Cornell)

Digestive Enzymes of the Cockroach C. Leon Harris (SUNY Plattsburgh)

Brassica campestris, an Ideal Higher Plant for Teaching Loy Crowder (Cornell)

Liver and Muscle Glycogen—Effect of Fasting and Exercise Bruce Virgo (Windsor)

Erice tails imscie Grycogen – Eried of Hasting and Exercise Bruce Virgo (Windsor) The Study of a Freshwater Stream—an Investiga-tive Laboratory Richard Montgomery and William Ellott (Hagerstown Junior College) The workshop will be limited to 50 participants and is in-tended for persons with permanent positions who are re-sponsible for undergraduate laboratory teaching. Each pre-sentation will last about our hours and will be limited to 25 participants. Participants will be selected by the Committee of Establish a Laboratory Biology Teaching Gragnization and Library (Jon Glase-Cornell, Don Igelsrud-Calgary, Patricia Paulus-Texas Christian, and Ruth Yon Blum-Berteley). The participants will form the nucleus of a new biology laboratory teaching organization. The group hopes to increase commu-nication between the research and laboratory teaching con-munities to produce better living materials for instruction. In-terested persons should write to the committee indicating or selection of participants will be finited in the aboratory Biology Teaching Library. Department of Biology, The University of Calgary, Calgary, Alberta, Canada T2N 1N4 Phone (403) 284-6127

DIRECTOR OF **INFORMATION SERVICES**

New Mexico Institute of Mining and Technology seeks a Director of Information Services with a wide range of public-information skills: Newswriting; writing, editing, and layout of brochures and posters; both still and movie photography; and community relations. Familiarity with darkroom procedures and photo-offset printing is also required. Experience in writing on technical topics for the general public is desired.

New Mexico Tech is a small technical university of 1100 students offering degrees through the Ph.D. and with extensive research and development activity. Four divisions comprising the Institute are the College, the Bureau of Mines and Mineral Resources, the Research and Development Division, and the Petroleum Recovery Research Center. The Director of Public Information has responsibility for the public-information program of the entire Institute, supervises two other professionals as well as support staff in the print plant and the photo lab, and manages a budget. The Director cooperates closely with students, faculty, division directors, and other administrators, and reports directly to the president.

Applicants should have professional training in public-information work and at least three years of relevant experience, preferably in a college or university, or in a re-search organization. Breadth of skills and flexibility to handle multiple responsibilities, often under time pressure, are important qualities. Familiarity with the State of New Mexico and its news media is desired. The salary is open, depending on experience and qualifications.

Applicants should submit a detailed letter and letter and resume and the names of several references to the Chairman of the Search Committee, Dr. George S. Austin, Bureau of Mines and Mineral Resources, Campus Station, Socorro, N. M. 87801 Deadline for receipt of applications: February 16, 1979.

New Mexico Institute of Mining and Technology

New Mexico Tech is an equal opportunity/affirmative action institution.

POSTDOCTORAL POSITION

Available immediately for a Ph.D. interested in research on the photoaffinity labeling of ribosome binding sites. Previous experience with nucleic acid and/or protein chemistry helpful. Send curriculum vitae, including names of three references, to: Dr. Ira Schwartz, Department of Biochemistry, University of Massachusetts, Amherst, Mass. 01003. An Affirmative Action/Equal Opportunity Employer.

POSTDOCTORAL POSITION available to study immunity to infectious diseases and cancer. Training in basic immunology is desirable. Campus housing available. Send résumé to:

Dr. Robert J. North, Director Trudeau Institute P.O. Box 59 Saranac Lake, N.Y. 12983

An Equal Opportunity/Affirmative Action Employer

POSTDOCTORAL RESEARCH ASSOCIATE

Position available immediately for recent Ph.D. to investigate nitrogen transformation in acid forest soils in laboratory lysimeters. Primary interest is in measuring gaseous movement of nitrogen from the soil as N₂, N₂O, NO₂, and NH₃ using ultrasonic gas chromatography. Applicants should have experience with this apparatus. Salary begins at \$12,000 with incremental increases over the 2-year span of the study.

Send curriculum vitae, transcripts, and three letters of reference to: G. K. Voigt, School of Forestry and Environmental Studies, Yale University, 370 Prospect Street, New Haven, Connecticut 06511. Yale University is an Affirmative Action/Equal Opportunity Employer.

PROVOST: EDUCATION DIVISION THE MASSACHUSETTS GENERAL HOSPITAL

To serve as chief administrative officer of a new multidisciplinary, degree-granting academic unit within a major teaching hospital. Division programs will include: master's degrees in dietetics, nursing, physical therapy, and speech-language pathology: upperdivision bachelor's degrees in radiologic technology and respiratory therapy, and a graduate certificate program in social work. Applicants should hold an earned doctorate, have experience in educational administration, be strongly committed to interdisciplinary education, and able to provide creative leadership in development of new academic programs. Experience in health care and in education of health professionals strongly preferred. Immediate opening; review of applications begins 1 March. Inquiries, nominations, and applications with current résumés and names of three professional references should be sent to: Cynthia Snow, Secretary, Provost Search Committee, Education Division, Massachusetts General Hospital, Boston, Mass. 02114.

Affirmative Action/Equal Opportunity Employer

SYSTEMS ECOLOGIST, SAN DIEGO STATE UNI-VERSITY. Permanent faculty position beginning late summer 1979. Assistant or associate professor. Salary commensurate with experience, ranges from \$14,256 to \$21,624. Duties include teaching courses in ecological modeling, directing M.S. and Ph.D. students, research, and supervising use of ecology computer. Ph.D. required; preference given to candidates with postdoctoral and teaching experience. Send curriculum vitae and three references to: William Hazen, Biology Department, San Diego State University, San Diego, Calif. 92182 before 15 April 1979.

An Equal Opportunity/Affirmative Action/Title IX Employer.

TOXICOLOGY FACULTY APPOINTMENTS. Two assistant professor positions in toxicology, Department of Environmental and Industrial Health, the University of Michigan. A doctoral degree in toxicology or related field, with evidence of academic research background in toxicology, is required. Specified training in pharmacokinetics or inhalation toxicology is desirable. The successful candidates will be expected to participate in graduate training and to develop an active research program. Deadline for applications is 15 March 1979. Summer or fall appointments, 1979. Applicants should submit curriculum vitae and have three letters of recommendation sent to: Dr. Herbert Cornish, Department of Environmental and Industrial Health, School of Public Health, The University of Michigan, Ann Arbor, Mich. 48109. A nondiscriminatory, Affirmative Action Employer.

POSITIONS OPEN

UROLOGIST—Full-time and part-time faculty in major Midwestern university; assistant professor rank; opportunity for academic career development with participation in teaching, consultation, and research. Board-eligibility required; quality university medical faculty background and interest in urodynamics or oncology. *Equal Opportunity Employer.* **Box 53, SCIENCE.**

WILDLIFE BIOLOGIST

Applications invited for faculty position in wildlife biology. Position available 1 July 1979 as tenuretrack appointment at associate or assistant professor level. Ph.D. degree required. Preference given to individuals with at least one degree in wildlife science and professional expertise in one or more of following areas: quantitative methods, ecosystem modeling, natural resource decision-making; applied animal behavior, remote sensing, management of forest wildlife species. Duties include teaching at graduate and undergraduate levels and development of a research program. Submit curriculum vitae and names and addresses of three references before 1 April 1979 to: Chairman, Wildlife Search Committee, School of Natural Resources, University of Vermont, Burlington, Vermont 05405.

An Affirmative Action Employer

SYMPOSIA

Symposium on Energy and Human Health: Human Costs of Electric Power Generation Sponsored by the University of Pittsburgh and Ohio River Basin Energy Study 19 to 21 March 1979 Pittsburgh Room William Penn Hotel Pittsburgh, Pennsylvania

Topics to be included: methodologic problems in detecting health effects: environmental and occupational health aspects of coal and uranium mining, coal and nuclear power plants and fuel cycles, transportation of fuels and wastes, power transmission, and waste disposal.

There is no registration fee, but the number attending will be limited.

For a program and registration information write to:

Edward P. Radford, M.D. Department of Epidemiology Graduate School of Public Health University of Pittsburgh Pittsburgh, Pa. 15261

An International Symposium on Ribosomes will be held 4 to 8 July 1979, at the University of Wisconsin-Madison under the auspices of the Harry Steenbock Symposia Committee. Persons interested in receiving application forms and other information should write to: J. Davies, Department of Biochemistry, University of Wisconsin-Madison, Madison, Wis. 53706. Requests for applications must be received by 28 February 1979.

TRAINING PROGRAMS

PRE- AND POSTDOCTORAL TRAINEESHIPS AND FELLOWSHIPS in an interdepartmental program in EXPERIMENTAL PARASITOLOGY are available, as of 1 September 1979, at the University of Massachusetts, Amherst. Training is provided in the biological, immunological, physiological, and biochemical aspects of protozoal, helminth, and arthropod parasites. Write to: Dr. B. M. Honigberg, Parasitology Program, Department of Zoology, University of Massachusetts, Amherst, Mass. 01003. An Affirmative Action/Equal Opportunity Employer.

GRADUATE TRAINING IN ENVIRONMENTAL TOXICOLOGY. A program of research experience and course work prepares students for the Ph.D. degree. Faculty research includes biochemical, behavioral, physiological, and developmental toxicology, with major programs in inhalation and heavy metals toxicology. Fellowships and tuition waivers are available. For information write: Dr. Victor G. Laties, Acting Director, Toxicology Training Program, P.O. Box Toxicol, University of Rochester School of Medicine and Dentistry, Rochester, New York 14642.

TRAINING PROGRAMS

PRE- AND POSTDOCTORAL TRAINING IN ENVI-RONMENTAL TOXICOLOGY. Beginning 1 July 1979 the Environmental Health Science Center at Oregon State University (OSU) will administer an inter-departmental program leading to the Ph.D. in either biochemistry and biophysics, food science and technology, or pharmacology and toxicology. Research emphasis is on the metabolism and mode of toxic action of environmental contaminants. Candidates with degrees in chemistry, biochemistry, or the biological sciences will be considered for the postdoctoral positions—prior experience in toxicology is not essential. Only U.S. citizens or permanent residents are eligible for support from this National Research Service Award sponsored by NIEHS. For further information write to: Dr. Ian J. Tinsley, Program Director, Environmental Health Sciences Center, Oregon State University, Corvallis, Ore. 97331. OSU is an Equal Opportunity/Affirmative Action Employer in compliance with Section 504 of the Rehabilitation Act of 1973.

SUMMER RESEARCH

FIELD BIOLOGY. Stipends of \$1500 are available for postdoctoral summer research at the Mountain Lake Biological Station of the University of Virginia. Proposals for studies on a wide variety of terrestrial and fresh water environments at Mountain Lake will be considered. Deadline: 1 May 1979. Write to: James L. Riopel, Director, Mountain Lake Biological Station, Gilmer Hall, University of Virginia, Charlottesville, Va. 22903. Equal Opportunity/Affirmative Action Employer.

ASSISTANTSHIPS

ANATOMY TEACHING ASSISTANTSHIPS

Predoctoral teaching assistantships available for graduate study leading to the Ph.D. degree in anatomy. Specific faculty research interests include: cellular immunology, ultrastructure and development of respiratory, digestive and cardiovascular systems, cell cycle kinetics, reproductive physiology, ultrastructural virology, physical anthropology, comparative neurology, experimental teratology, epidermal cell proliferation, and radiological anatomy. Stipends are \$4686 per year and are awarded on a competitive basis. For application and catalog write to: Dr. Joseph Bast, Director of Graduate Studies, Department of Anatomy, University of Kansas Medical Center, College of Health Sciences and Hospital, Kansas City, Kansas 66103. Applications will be considered for fall 1979 semester and early applications are encouraged. An Equal Opportunity/Affirmative Action Employer.

ASSOCIATESHIPS

At the University of Toronto, a **RESEARCH ASSO-CIATESHIP** is available. Experience in nucleic acid chemistry, protein biosynthesis and microbiology genetics preferred. A Ph.D., 2 years of postdoctoral experience, and three letters of reference required. Write:

Professor M. C. Ganoza Banting and Best Department of Medical Research 112 College Street Toronto, Ontario, Canada M5G 1L6

GRADUATE STUDY

ANATOMY GRADUATE PROGRAM TEXAS TECH UNIVERSITY SCHOOL OF MEDICINE

The Department of Anatomy provides graduate programs leading to the M.S. and Ph.D. degrees. Research areas include: developmental and reproductive biology, mineralized tissues and neurobiology. Deadline: 30 April. Address correspondence to: Dr. David L. Bolender, Department of Anatomy, Texas Tech University School of Medicine, Lubbock, Texas 79430.

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Should be Ph. D. or equivalent, experienced with regulatory affairs and phases I, II and III trials.

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Please apply in confidence in your own handwriting and send your CV with identity photo to SNPM - 100 avenue Charles De Gaulle - 92522 Neuilly Cédex (France), under reference number 1528. SOCIETY FOR DEVELOPMENTAL BIOLOGY 39TH SYMPOSIUM THE CELL SURFACE: MEDIATOR OF DEVELOPMENTAL PROCESSES UNIVERSITY OF BRITISH COLUMBIA CAMPUS VANCOUVER, BRITISH COLUMBIA, CANADA

June 25, 26, 27, 1979

	Speakers	
S. H. Barondes	L. Glaser	E. Reich
D. Branton	U. Goodenough	B. M. Shapiro
R. P. Elinson	M. W. Krischner	T. P. Stossel
D. Epel	H. F. Linskens	V. D. Vacquier
J. Folkman	G. R. Martin	J. Wartiovarra
N. B. Gilula	Y. Masui	K. M. Yamada

Poster Sessions space available to all attending. Young Investigator Prize awarded for best poster by a graduate student or postdoctoral person.

Write to: N. K. Wessells, Department of Biological Sciences, Stanford University, Stanford, CA 94305 for information, or reservation of poster space.

THE OPEN UNIVERSITY FACULTY OF MATHEMATICS **PROFESSOR OF STATISTICS**



Applications for this Chair are invited from candidates with proven ability for both teaching and research in STATISTICS. The successful applicant will be expected to provide leadership in the area of statistics and to take a major part in the planning and design of courses involving teaching statistical principles and techniques to a wide variety of student audiences.

The University is currently seeking to expand its research activities so that the active prosecution of both personal and collaborative research will form an important part of the Professor's duties, in particular, the person appointed will be expected to encourage and stimulate the application of statistical techniques to a variety of research problems of concern to staff in the University.

Salary: Within the UGC approved professorial range, minimum $\pounds 9,443$. plus membership of the Universities Superannuation Scheme (USS).

Further particulars are available, by postcard request please from The Recruitment Office (MB3561/2), The Open University, P.O. box 75, Walton Hall, Milton Keynes, MK7 6AL England or by telephone from Milton Keynes 63406: there is a 24 hour answering service on 63868.

Applications including curriculum vitae should be returned by 30th March.

16 FEBRUARY 1979

GRADUATE STUDY

GRADUATE STUDIES IN NEUROBIOLOGY. The Division of Neurobiology of the Department of Physiology, State University of New York (SUNY) Physiology, State University of New York (SUNY) at Buffalo, offers highly individualized training di-rected towards a Ph.D. in physiology with a special-ization available in cellular neurobiology, primate CNS neurophysiology, and developmental neuro-chemistry. The program is also part of an Inter-disciplinary Graduate Group in Neurosciences which allows students additional or alternative op-portunities for training in conjunction with faculty. which allows students additional or alternative op-portunities for training in conjunction with faculty in the Departments of Pharmacology, Biochemistry, Anatomy, Biophysics, Biology, and Psychology. All applicants admitted to the Department of Physiology receive waiver of tuition plus an assistantship sti-pend of \$4205 per year. Students with advanced de-grees are also encouraged to apply. GRE scores for aptitude and one advanced test required. Send in-quiries to: Dr. Donald S. Faber, Director, Division of Neurobiology, 317 Cary Hall, SUNY at Buffalo, Buf-falo, N.Y. 14214.

GRADUATE TRAINING IN BASIC MEDICAL SCIENCES

The College of Medicine, University of South Ala The College of Medicine, University of South Ala-bama, invites applications from qualified individuals interested in pursuing the Ph.D. degree in basic med-ical sciences. Applications are now being accepted for June 1979 entrance into the graduate program leading to the doctorate with specialization in either anatomy, biochemistry, microbiology/immunology, pharmacology, or physiology. This is a unique pro-gram designed to accept both qualified nondegree-holding students after only 3 years of appropriate un-dergraduate study as well as applicants holding de-grees. Fellowships are available which provide tui-tion and stipends. For further information write: Edwin R. Hughes M.D. Director

Edwin R. Hughes, M.D., Director Graduate Program in Basic Medical Science Medical Sciences Building, Room 2152 University of South Alabama Mobile, Alabama 36688

FELLOWSHIPS

FELLOWSHIPS IN HEALTH COMPUTER SCIENCES

Predoctoral, postdoctoral, and postprofessional NIH Predoctoral, postdoctoral, and postprofessional NIH fellowships for training in the application of comput-ers to health fields are available starting 1 July 1979. Candidates should have an interest in health com-puter sciences and experience in health sciences. Predoctoral candidates should have a master's de-gree in the natural sciences. Postdoctoral candidates should have either an M.D. degree (training may be combined with a clinical residency) or a Ph.D. de-gree in the natural sciences. Health professionals should have a B.A. or equivalent degree. Send inshould have a B.A. or equivalent degree. Send in-quiries and applications before 2 April 1979 to: Dr. Lynda Ellis, Box 511, Mayo Building, University of Minnesota Medical School, Minneapolis, Minn. 55455.

An Affirmative Action/Equal Opportunity Employer

MARINE BIOLOGICAL LABORATORY voods Hole, Massachusetts invites applications for MACY FOUNDATION FELLOWSHIPS AND SCHOLARSHIPS FOR BLACKS AND OTHER MINORITIES

The Josiah Macy, Jr. Foundation has provided funds to support blacks and other minority groups in educational and research activities at the laboratory. Preference is given to the needs of faculty members and students in 4-year, predominantly black col-leges. Fellowships of up to \$5500 may be used to defray the costs of housing, personal expenses, and travel, as well as laboratory fees, for faculty who wish to improve their research and teaching skills through a summer of independent investigation. Scholarships of lesser amount may be used for tui-tion, travel, and personal expenses for applicants ac-cepted to Marine Biological Laboratory summer and January courses.



Applications and additional in-Applications and additional in-formation are available from: Admissions Office, Marine Bio-logical Laboratory, Woods Hole, Mass. 02543; telephone: 617-548-3705.

An Affirmative Action/ Equal Opportunity Institution

FELLOWSHIPS

CANCER BIOLOGY TRAINING

Pre- and postdoctoral fellowships are available in the biochemistry of cancer, environmental carcino-genesis, metabolic regulation, biology of neoplastic transformation of liver cells, and in mutagenesis in mammalian cells. Must be a U.S. citizen or have permanent immigrant status. The predoctoral fel-lowships will only be awarded for study leading to the Ph.D. degree in biochemistry or microbiology. Applications and additional information are avail-able from:

Dr. Edward Bresnick Department of Biochemistry The University of Vermont College of Medicine Burlington, Vermont 05405

PREDOCTORAL FELLOWSHIPS in physiology PREDOCTORAL FELLOWSHIPS in physiology and biophysics. Training in cardiovascular, cell, en-docrine, muscle, neuro-, renal, and respiratory physiology. Applicants must submit GRE scores (verbal, quantitative, and one advanced test). Dead-line for applications is 16 April 1979. For application materials write: Department of Physiology and Bio-physics, West Virginia University Medical Center, Morgantown, West Virginia 26506.

POSTDOCTORAL FELLOWSHIPS IN BIOCHEMISTRY AND IMMUNOLOGY

Research areas are: (i) cell surface proteins involved in immune recognition—background in protein bio-chemistry and immunology desired; (ii) biochemical and functional characterization of a tumor factor and functional characterization of a tumor factor which suppresses host defense mechanisms and con-fers transformed phenotype to normal cells—back-ground in biochemistry or cell biology desired; and (iii) cellular immunology. Apply, indicating area of interest, to: Secretary, Immunobiology Research Center, University of Wisconsin, 1150 University Ave-nue, Madison, Wisconsin 53706. Affirmative Action/ Equal Opportunity Employer, M/F.

POSTDOCTORAL FELLOWSHIPS

Positions become available from time to time for Positions become available from time to time to persons with an M.D., or Ph.D. to conduct research as a member of a group in any one of the following areas: neurophysiology; electrophysiology and bio-physical theory; membrane phenomena, biophysics physical theory; membrane phenomena, biophysics and active transport; cellular neurophysiology; car-diovascular physiology; circulation; respiration; be-havioral and sensory physiology; and physiology of the heart and muscle, or other related specialties. Applicants are expected to be familiar with ad-vanced research techniques relevant to the area of interest and must have strong academic background. Stipends usually range from \$10,000 to \$14,000, de-pending upon postdoctoral experience. Applicants with own private funding will also be considered. Applicants should submit curriculum vitae with a list of publications and names of references to: **Professor** Wilfried F. H. M. Mommaerts, Chairman, Depart-ment of Physiology, University of California, 53-259 CHS, Los Angeles, California 90024. The University of California is an Affirmative Action Employer with an Equal Opportunity Program. Women and minorities are encouraged to apply.

NEUROLOGY FELLOWSHIP. Two-year appointment beginning July 1979, for M.D. with clini-cal and research experience to work in field of taste cal and research experience to work in field of taste and smell disorders. Research areas include human nerve growth factor, isolation and activity of sali-vary and nasal mucous proteins, anatomy and physi-ology of taste bud receptors and trace metal metabo-lism in patients with neurological and neuromuscular disorders. Clinical areas include head trauma, brain tumors, and olfactory phantoms with and without accompanying seizure activity. Salary commensu-rate with experience. Send curriculum vitae with bibliography to: Dr. Robert I. Henkin, Director, Cen-ter for Molecular Nutrition and Sensory Disorders, Georgetown University Medical Center, Washington, D.C. 20007. An Equal Opportunity Employer.

POSTDOCTORAL FELLOWSHIP. Position avail-able beginning 1 September 1979 for individual with background in physiology and pharmacology; some experience and interest in techniques and methodology for measurement of cardiovascular parameters and coronary blood flow. Project concerns a study of the role of prostagiandins in cardiovascular function. Send curriculum vitae and names of three references to: Gabor Kaley, Ph.D., Professor and Chairman, Department of Physiology, New York Medical Col-lege, Valhalla, N.Y. 10595. Affirmative Action/Equal Opportunity Employer.

FELLOWSHIPS

POSTDOCTORAL FELLOWSHIP. Two years: available immediately for basic research related to gastroenterology (intestinal transport and/or induction of hepatic enzymes). Send curriculum vitae and names of three references to:

Dr. Leon Lack Box 3185 Department of Pharmacology Duke University Medical Center Durham, N.C. 27710

FELLOWSHIP. Pediatric endocrinology/diabetes. Clinical, clinical research, and research training ap-pointment available for start of 1979-1980 academic pointment available for start of 19/9-1980 academic year. Excellent opportunities in many areas are af-forded through full liaison with Basic Science, Inter-nal Medicine, and Obstetrics-Gynecology Depart-ments and the Diabetes Research and Training Cen-ter. Contact: Dr. Lan Burr, Departments of Pediatrics and Physiology, Vanderbilt University School of Med-icine, Nashville, Tennessee 37232.

IMPERIAL CANCER RESEARCH FUND LONDON, ENGLAND Visiting Fellowships

The Council of the Fund invites applications for visiting fellowships to be held in any of the following: the Central Laboratories of the Fund at Lincoln's Inn Fields; Mill Hill Laboratories; the Breast Cancer Unit, Guy's Hospital; Cancer Epidemiology and Clinical Trials Unit, OXford University; Medical On-cology Unit, St. Bartholomew's Hospital; or Tu-mour Immunology Unit, University College, London.

These fellowships will be open to any applicant, irre-spective of citizenship, who has (or is about to ob-tain) a Ph.D. or its equivalent and who is temporarily or permanently resident outside the U.K. Remuner-ation will be comparable with postdoctoral fellow-ships in country of origin; the award will be for 1 year. Return air fares at the lowest practicable rates will be paid for the fellow and family, and medical insurance where necessary. The award constitutes a Contract of Service, namely to undertake specified cancer studies for a stated nericid Fellowships are cancer studies for a stated period. Fellowships are not pensionable.

Application to: the Director of Research, Imperial Cancer Research Fund, Lincoln's Inn Fields, London W.C.2. England, should be accompanied by full cur-W.C.2. England, should be accompanied by full cur-riculum vitae and list of publications, the names of two referees, an account of the applicant's current and proposed research extending to about 500 words, and a short account of the relevance of the above work to the alleviation of cancer. The labora-tory or unit in which the candidate wishes to work should be specified. Closing date: 31 March 1979.

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OF KUWAIT **KUWAIT** UNIVERSITY

STATE

ENVIRONMENTAL/ GEOMORPHOLOGY GEOLOGY DEPARTMENT

The Department invites applicants for a 2 year renewable appointment starting September 1979. Qualifications include a Ph.D., experience in teaching environmental geology and geomorphology and willingness to participate (on rotating basis) in instructing elementary courses in marine, geostatistics and introductory Geology. The candidate will be expected to assist in developing research programs in Geology and teaching in the Graduate School which opens shortly. Applicants should send resume and three letters of reference to:



Department of Administrative Affairs P.O. Box 5969, Kuwait.

PHARMACOLOGIST CARDIOVASCULAR

Ortho's rapidly diversifying Pharmacology Department has an opportunity available for an individual with a Ph.D. in Pharmacology and a background in cardiovascular control mechanisms. Two years of direct laboratory experience in Cardiovascular Pharmacology beyond the doctorate level is required. Also an appropriate scientific achievement has evidence by publications and abstracts is preferred.

Position offers direct involvement at the bench, developing methods to identify and evaluate cardiovascular drugs for the treatment of hypertension, heart failure, dysrhyphmis.

Excellent opportunity to join a multidisciplinary group to study drug actions and mechanisms at various levels of biological organizations.

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Forward curriculum vitae in confidence to: R.T. Elliott, Manager-Selection

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The Clinical and Scientific Affairs Department of Pfizer's Pharmaceuticals Products Group has an excellent career opportunity for a Microbiologist with a PhD Degree in Clinical Microbiology.

The incumbent will participate in managing clinical research programs (protocol design, investigator selection, monitoring, data collection and interpretation); monitor pre-clinical studies, screen research proposals for specific interest to Pfizer and potential medical value, and review pre-clinical and clinical data of drugs undergoing licensing evaluation for accuracy, completeness and scientific quality.

Candidates shouls have a minimum of 2 years experience in an approved Clinical Microbiological program in addition to the PhD degree. The position offers high visibility, good promotional opportunities, commensurate salary. Send requirements in strictest confidence to:



S. D. Kenady, Manager, Professional Placement, Pfizer Pharmaceuticals, Inc., 235 East 42nd Street, New York, N.Y. 10017.

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