

A Social History of Medicine, F. F. Cartwright, 10 Nov. 1978, 622

Social Learning and Cognition, T. L. Rosenthal and B. J. Zimmerman, 27 Apr. 1979, 400

Social Play in Primates, E. O. Smith, Ed., 16 Mar. 1979, 1103

Social Standing in America, R. P. Coleman and L. Rainwater, 8 Dec. 1978, 1074

The Sociology of Science in Europe, R. K. Merton and J. Gaston, Eds., 20 Oct. 1978, 300

Solute Movement in the Soil-Root System, P. H. Nye and P. B. Tinker, 12 May 1978, 680

Soviet Science, Zh. A. Medvedev, 22 Sept. 1978, 1115

Spore Research 1976, A. N. Barker, J. Wolf, D. J. Ellar, G. J. Dring, and G. W. Gould, Eds., 19 May 1978, 757

Stability and Constancy in Visual Perception, W. Epstein, Ed., 29 Sept. 1978, 1218

Statistical Mechanics and Statistical Methods in Theory and Application, U. Landman, Ed., 6 Oct. 1978, 45

Stem Cells and Tissue Homeostasis, B. I. Lord, C. S. Potten, and R. J. Cole, Eds., 12 Jan. 1979, 163

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Study of Travelling Interplanetary Phenomena 1977, M. A. Shea, D. F. Smart, and S. T. Wu, Eds., 9 June 1978, 1142

Sulidae, J. B. Nelson, 24 Nov. 1978, 879

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Theoretical Principles in Astrophysics and Relativity, N. R. Lebovitz, W. H. Reid, and P. O. Vandervoort, Eds., 12 May 1978, 675

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Topics in Interstellar Matter, H. van Woerden, Ed., 23 June 1978, 1376

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Why I Left Canada, L. Infeld, 6 Apr. 1979, 49

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Free-Lance Writer/Editor with extensive science and information service background seeks assignments. Competent in completing scholarly articles, books, and bibliographies. E. H. Feinberg, Ph.D., 6828 Anderson Street, Philadelphia, Pennsylvania 19119. Telephone: 215-844-5972. X

Neuropsychologist. Human event related brain potentials specialist, somatosensory system background, sensory-physiological, psychophysical, neuropsychological training, seeks permanent position, 75 percent basic/clinical research, 25 percent academic. Regular publications since 1972; ongoing research into psychophysics and correlated somatosensory/auditory ERBP of time interval detection, intra- and intermodal, interrupted by financial stringency axe at state level. Telephones: day, 912-453-4124; evening, 912-452-2537. Dr. H. Stowell, Principal Investigator, ERBP Unit, Rivers Laboratory, Central State Hospital, Milledgeville, Georgia 31062. X

Pharmacologist. Ph.D. 1976. Neuroscience; emphasis on behavioral pharmacology. Supervisory and postdoctoral experience. Seeks toxicology or pharmacology position in industry, government, or institute. Box 147, SCIENCE. X

Physical Oceanographer/Engineer (Ph.D. 1972/ B.S.E.E. 1965). Broad international university, industrial consulting experience in marine ecosystem analysis. Expertise in mathematical modelling, marine hydrodynamics, and digital computing with extensive experience in environmental impact studies of power generation and waste disposal, modelling of biochemical processes, and interdisciplinary field experiment design. Seeks research-teaching position in university/industrial/government situation. Box 155, SCIENCE. X

POSITIONS OPEN

ANATOMY FACULTY POSITION. Assistant or beginning associate professor with established research program and postdoctoral experience in developmental and ultrastructural biology. Instructional duties include participation in combined embryology and microscopic anatomy course for medical students and advanced courses designed for graduate students. Send résumé and three letters of evaluation to: **Dr. Douglas E. Kelly, Professor and Chairman, Department of Anatomy, University of Southern California School of Medicine, 2025 Zonal Avenue, Los Angeles, Calif. 90033.** Applications from qualified women and minority members especially welcome. *University of Southern California is an Affirmative Action Employer.*

ANIMAL PHYSIOLOGY—The Hope College Biology Department will have an opening in animal physiology beginning fall 1979. Applicants should have a strong interest in undergraduate education and plan to maintain an active research program that will involve undergraduates. Teaching includes mammalian physiology, a second advanced course, and part of the introductory course. Hope is a liberal arts college affiliated with the Reformed Church in America. Qualified applicants should arrange to have a résumé, transcripts, a statement of teaching competencies and interests, an outline of proposed research, and three letters of recommendation forwarded as soon as possible to: **Search Committee, Department of Biology, Hope College, Holland, Michigan 49423.** *An Equal Opportunity Employer.*

ANIMAL VIROLOGIST. (Search reopened.) Assistant/associate professorship, available August 1979. Two years of postdoctoral experience required. Conduct active research program in area of modern animal virology and participate in the teaching program at the undergraduate and graduate level. Salary competitive and commensurate with experience. Send curriculum vitae and names of three references by 15 July to: **Dr. Gary L. Smith, School of Life Sciences, The University of Nebraska-Lincoln, Lincoln, Nebraska 68588.** *Affirmative Action/Equal Opportunity Employer.*

ASSISTANT PROFESSOR. Applications are invited for a faculty position in atmospheric science. An individual with knowledge in one or more of the following areas is required: modern meteorological instrumentation, synoptic meteorology, air pollution meteorology, and field experiment design. Duties include undergraduate and graduate teaching in atmospheric science, development of a vigorous research program, advising graduate and undergraduate students, and directing students in Ph.D. and masters thesis research. Interested persons should send curriculum vitae and names of three references to: **F. L. Bartman, Department of Atmospheric and Oceanic Science, Space Physics Research Laboratory, University of Michigan, Ann Arbor, Michigan 48109.** *A non-discriminatory, Affirmative Action Employer.*

ASSISTANT PROFESSOR, library and information science (reopened). January 1980. Appropriate doctorate. Competence in information science; knowledge of library administration desirable. Salary from \$17,000, depending on qualifications. Closing date: 10 September 1979. Résumés to: **Ben-Ami Lipetz, Dean, School of Library and Information Science, State University of New York at Albany, Albany, N.Y. 12222.** *Affirmative Action/Equal Opportunity Employer.*

ASSISTANT PROFESSOR to teach microbiology, physiology, and general biology. Ph.D. must be committed to quality undergraduate education and be willing to develop/direct student projects in immunology, tissue culture, and/or computer simulation. Send letter stating career goals and teaching philosophy, curriculum vitae, transcripts, and three letters of recommendation by 15 June 1979 to: **John R. Jungck, Chairman, Department of Biology, Beloit College, Beloit, Wis. 53511.** *Equal Opportunity/Title IX Employer, M/F.*

TEMPORARY BIOLOGY POSITION beginning August 1979. Laboratory instruction in introductory biology and other undergraduate courses as assigned. Audio-tutorial experience helpful. Master's degree preferred. Summer employment should not be expected. Application deadline: 30 June. Send résumé, credentials, and letters of recommendation to: **Dr. Julius R. Kroschewsky, Chairman, Search Committee, Department of Biological and Allied Health Sciences, Bloomsburg State College, Bloomsburg, Pa. 17815.** *Equal Opportunity/Affirmative Action Employer.*

POSITIONS OPEN

ASSISTANT PROFESSORS OF BIOLOGY AND MICROBIOLOGY

The T. H. Morgan School of Biological Sciences of the University of Kentucky invites applications from qualified persons in the area of biology and in the area of microbiology. Qualifications: Ph.D., postdoctoral experience, and a strong commitment to development of an active research program (area of interest open); competency in teaching courses at the undergraduate level, including general biology or general microbiology, and graduate level in area of interest. Send curriculum vitae, a brief description of teaching and research interests, and the names of at least three references to: **Search Committee, Director's Office, School of Biological Sciences, University of Kentucky, Lexington, Kentucky 40506.** Deadline for receipt of applications is 4 weeks from date of appearance of this notice. *An Equal Opportunity/Affirmative Action Employer.*

VISITING ASSISTANT PROFESSOR OF PHYSICS

The University of Kansas invites applicants for the 1-year position of visiting assistant professor of physics or astronomy. Duties will consist of teaching physics or astronomy at the elementary (freshman, sophomore) level and working with the faculty and students in one of the research areas, experimental high energy physics, experimental space plasma physics, and/or experimental astrophysics. A Ph.D. degree in physics (experimental high energy and/or current research experience, or experimental space plasma) or astronomy is required. Research and experience in areas which would lead to productive interaction with members of the department who work in high energy experimental physics (some preference for experience with electronic techniques) or experimental space plasma physics and/or experimental astrophysics will be preferred. Salary depends upon appointee's qualifications and experience. Send professional summary and three letters of reference to: **Professor J. P. Davidson, Chairman, Department of Physics and Astronomy, 143 Malott Hall, University of Kansas, Lawrence, Kan. 66045.** All applications received by 13 July 1979 will be considered. Late applications will be considered if the position is unfilled. *The University of Kansas is an Equal Opportunity Employer. Women and minorities are encouraged to apply.*

ASSOCIATE DIRECTOR AGRICULTURAL EXPERIMENT STATION

The Maine Agricultural Experiment Station has created a new position for an associate director, effective 1 September 1979, responsible for long-range planning and project supervision for all agricultural research. Applicants must have an earned doctorate in an agricultural science or closely related field, an established research record, and should be familiar with the land-grant system and with experiment station administrative procedures. Previous administrative experience is highly desirable. Send résumé and names of three references by 1 June 1979 to: **Dr. Norman Smith, Chairman of the Screening Committee, 105 Winslow Hall, University of Maine at Orono, Orono, Maine 04469.** Telephone: 207-581-7161.

BIOLOGIST, Ph.D.

With well-developed interests in neurobiology and animal behavior for a position as assistant professor starting 1 September 1979. Send curriculum vitae and three letters of recommendation to: **Dr. Miriam F. Bennett, Department of Biology, Colby College, Waterville, Maine 04901.**

An Equal Opportunity/Affirmative Action Employer

A **BIOLOGIST** is required to teach microbiology and genetics to undergraduate biology majors. The position is at the assistant professor level and is in a tenure-track. Although teaching is the primary concern at Canisius, facilities for research are available and modest research activity is encouraged and expected. Canisius is a liberal arts college in the Jesuit tradition. Address applications with full curriculum vitae and arrange for three letters of recommendation to be sent to:

Vincent P. Stouter, Ph.D.
Acting Chairman
Department of Biology
Canisius College
Buffalo, New York 14208

Applications must be received by 31 May 1979. *Canisius College is an Affirmative Action/Equal Opportunity Employer.*

POSITIONS OPEN

ASSISTANT RESEARCH BIOMEDICAL ENGINEER, Department of Medicine, University of California, Los Angeles (UCLA) School of Medicine. Minimum of 5 years of postdoctoral experimental and theoretical experience that enables the candidate to conduct all aspects of in vivo and in vitro studies of lipid and carbohydrate metabolism using radioactive tracers and mathematical modeling of metabolic systems and multicompartmental analysis of tracer-kinetic data. The project, funded by NCI, involves the study of lipid transport and metabolism in cancer host systems. Support available for 2½ years starting 1 July 1979. Salary negotiable and dependent on experience. Send letter of qualifications, research interests, curriculum vitae, bibliography, and three references to: **Dr. Nome Baker, Tumor-Lipid Laboratory, VA Wadsworth Hospital, Building 115, Room 316, Los Angeles, Calif. 90073. UCLA is an Equal Opportunity/Affirmative Action Employer.**

CLINICAL MICROBIOLOGIST. To coordinate university hospital clinical microbiology laboratory component of infectious disease program. The position will also have medical school academic appointment with teaching responsibilities. Activities will include technical direction of laboratory and applied research. Applicant must have Ph.D. and be American Board of Medical Microbiology—certified or -eligible. Send résumé and names of three references to: **Dr. Neil R. Blacklow, University of Massachusetts Medical Center, Worcester, Mass. 01605. An Equal Opportunity/Affirmative Action Employer.**

OPENING—Two CYTOGENETICS LABORATORY TECHNICIANS. Bachelor's degree preferred or previous experience in the area of cytogenetics and tissue culture. Salary is dependent on past experience. Have all inquiries directed to:

Dr. Razia Muneer
Scientific Director
Genetics Laboratories
Oklahoma Children's Memorial Hospital
Department of Pediatrics
P.O. Box 26901
Oklahoma City, Okla. 73190

POSITIONS OPEN

ATMOSPHERIC SCIENTIST to work in well-equipped laboratory, with a team on the atmospheric planetary boundary layer. The team is involved at a fundamental level in all aspects of the lower troposphere, and work in progress includes airborne measurement studies and theoretical modeling of the surface layer, clouds, and precipitation. Requires Ph.D., or equivalent, in related area. Must be skilled with computer programming, numerical methods, and mathematical analysis. A good background in physical understanding is important and ability to participate in all aspects of the program is desirable. The level of appointment is dependent upon ability and qualifications, and opportunities exist for contributing to training graduate students and lecturing. Minimum starting salary: \$18,000, plus liberal benefits. Send résumé postmarked by 30 June 1979 to: **Personnel Department, Desert Research Institute, University of Nevada System, P.O. Box 60220, Reno, Nevada 89506. Affirmative Action/Equal Opportunity Employer.**

CHIEF: DEPARTMENT OF PSYCHOPHARMACOLOGY

We seek a clinical pharmacologist (Ph.D. or M.D., Ph.D.) with interest in psychoactive drugs and clinical collaboration. Must have extensive background in drug kinetics and metabolism as well as demonstrated ability to develop analytic methodology for both identification and quantification of lipid soluble compounds. Evidence of independence and originality essential as are administrative and teaching skills. Salary on hard monies. Four thousand feet of laboratory and support space available. Appointment is a joint position at the New York State Psychiatric Institute and College of Physicians and Surgeons, Columbia University.

Send curriculum vitae and letter of interest to:

Alexander H. Glassman, M.D.
Chairman, Search Committee
Department of Psychiatry
722 West 168 Street
New York, N.Y. 10032

We are an Equal Opportunity/Affirmative Action Employer.

POSITIONS OPEN

BOTANY

A tenure-track teaching and research position at the assistant professor level is expected to become available beginning September 1979. Teaching responsibilities will include an introductory course in **plant physiology** and development of **field oriented botany** courses that utilize the unique floral environments of south Florida. In addition, the applicant should be prepared to develop an integrated program in the plant sciences with assistance from adjunct faculty. Postdoctoral experience and demonstrated research productivity in one or more of the following areas is expected: **tropical botany, wetlands ecology, physiological plant ecology, systems ecology, plant propagation, plant tissue culture, or plant virology.** Send curriculum vitae, reprints, statements of research interests, and names of at least three references to:

Dr. Walter M. Goldberg
Botany Search and Screen Committee
Department of Biological Sciences
Florida International University
Tamiami Trail
Miami, Florida 33199

The deadline for receiving applications is 15 June 1979.

Florida International University is part of the Florida State University System, an Equal Opportunity/Affirmative Action Employer.

CARDIOVASCULAR PHYSIOLOGIST UNIVERSITY OF NEBRASKA MEDICAL SCHOOL

The Department of Radiology is seeking a cardiovascular physiologist to head its research laboratory. Immediate opening at the assistant professor level. Ph.D. preferred, but not necessary. Send curriculum vitae and three references before 31 May to:

Harold A. Baltaxe, M.D.
Professor and Chairman
Department of Radiology
The University of Nebraska Medical Center
42nd and Dewey Avenue
Omaha, Nebraska 68105

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STATE UNIVERSITY OF NEW YORK (SUNY) COLLEGE AT OLD WESTBURY

Applications are invited for the following positions in the **Biological Sciences Program** of a small, innovative, 4-year college:

BIOLOGICAL SCIENCES: assistant or associate professor of biology. Ph.D. required; full-time teaching experience preferred. Responsibilities include teaching general biology, environmental studies, and social aspects of science in an undergraduate biological sciences program. Other responsibilities include advising and supervising student laboratory research projects. An interest in innovative teaching methods desirable. Salary dependent upon qualifications—assistant: minimum \$12,200; maximum \$17,000, associate: minimum \$16,000; maximum \$21,000. **SEARCH COMMITTEE CHEM.**

SCIENCE TECHNICAL ASSISTANT: responsibilities are to assist the laboratory manager in the preparation of materials for laboratory classes in biology, chemistry, and physics; maintenance of stockrooms including inventory and ordering of supplies and equipment; expertise in field of scientific instruments or electronics is desirable. Applicants must have a minimum of a B.S. degree in a science area, preferably chemistry. Experience in academic laboratory preparation is desirable. Salary dependent upon qualifications: minimum \$10,000; maximum \$12,000. **SEARCH COMMITTEE STA.**

Starting date for both positions: September 1979. Deadline for all applications: 1 June 1979. These positions are tentative pending approval by the New York State Division of the Budget. *Minorities and women are strongly encouraged to apply.* Send résumé to:

appropriate search committee
SUNY/College at Old Westbury
P.O. Box 210
Old Westbury, New York 11568
An Affirmative Action/Equal Opportunity Employer

Faculty of Medicine

KUWAIT UNIVERSITY

CHIEF TECHNICIAN DEPARTMENT OF SURGERY

Applications are invited for the appointment of Chief Technician in the Department of Surgery. The Department of Surgery is one of the newly created clinical departments in the Faculty of Medicine and is housed in temporary accommodation at Al-Sabah Hospital. Within the next two years the Department will move to ample accommodation in the new Medical School Building currently under construction. The appointee will be expected to help establish and manage research programs in the Department where the main research interests are transplantation, immunology, artificial organs, vascular and haemodynamic problems.

Applicants should possess a FIMLS, or equivalent qualification, and have fifteen years' experience including training.

Salaries will be in the range KD 310-477 per month, (KD 1 = £1.7; US\$ 3.6 approx.). There is no income tax in Kuwait and currency is transferable without restriction. Free, furnished, air-conditioned accommodation is provided, and electricity and water supplied free of charge. Sixty days paid annual leave for each completed year of employment, and annual economy class return air tickets to the country of origin for the appointee, spouse and three dependent children, are provided. Free medical treatment is available under the State Health Service.

APPLICATIONS IN DUPLICATE SHOULD BE SUBMITTED TO:

PROFESSOR G. J. M. ABOUNA, CHAIRMAN OF SURGERY,
FACULTY OF MEDICINE,
UNIVERSITY OF KUWAIT
P.O. BOX 5969
KUWAIT

with detailed curriculum vitae, recent passport photograph, and the names of three references, to arrive not later than 16 June 1979.

POSITIONS OPEN

The Department of Anatomy at the University of Miami School of Medicine announces a tenure-track position in the area of **CELLULAR OR MOLECULAR NEUROBIOLOGY**. This opening is offered at the assistant or associate professor level. The individual selected will be expected to collaborate with cell and neurobiologists in anatomy and other basic science departments. Current research efforts center on membrane structure and function, cell kinetics in tumor induction in the central nervous system, retinal regeneration, neuronal development, tissue culture of nervous tissue, spinal cord plasticity, neurotransmitter localization and identification, and axonal transport. Modest teaching load; seed funds and salary negotiable. Contact: **Robert W. Rubin, Chairman, Neurobiologist Search Committee, Department of Anatomy, R-124, University of Miami Medical School, P.O. Box 016960, Miami, Florida 33101.**

UNIVERSITY OF NEW ENGLAND Biddeford, Maine

CHEMISTRY FACULTY POSITION

Assistant professor of physical/analytical chemistry. Doctorate in chemistry required with broad interests in science to teach in programs with strong biology orientation. Physical chemist with analytical and instrumental capability desired. Must have strong interest in undergraduate teaching.

Employment begins 6 September 1979. Salary from \$12,000, depending on qualifications and experience. Please send letter of application, résumé, and supporting letters of recommendation by 8 June 1979 to:

Office of Academic Dean
University of New England
Undergraduate College
605 Pool Road
Biddeford, Maine 04005

The University of New England is an Equal Opportunity Employer.

CHIEF CLINICAL CHEMIST

The rapid expansion of our national medical reference laboratory has created an opening for a chief chemist. The successful candidate will have a Ph.D. with a strong background in protein chemistry, protein purification, and amino acid analyses. A strong background in endocrinology and RIA is very desirable. Strong research postdoctoral experience would be a plus. We offer a unique working environment which stresses professional achievement and individual growth as well as an excellent benefits package including dental coverage. Send résumé to: **C. William Wood, Human Resources Staffing Manager (or contact at the Endocrine Society Meeting in June), P.O. Box 92797, World Way Postal Center, Los Angeles, Calif. 90009. An Affirmative Action/Equal Opportunity Employer, M/F.**

Research associate position available immediately for a **DEVELOPMENTAL NEUROANATOMIST** to study the effects of prenatal and postnatal malnutrition on the rat brain. The position involves a cooperative effort between the U.S. Department of Agriculture, Human Nutrition Laboratory, and the University of North Dakota. Salary ranges from \$12,500 to \$15,000. Candidates should send curriculum vitae and names of three references to: **Dr. E. S. Halas, Human Nutrition Laboratory, 7166 University Station, Grand Forks, N.D. 58202.**

FACULTY POSITION

The University of California, Irvine, Department of Biological Chemistry in the College of Medicine, invites applications for an appointment as **professor**; applications will also be considered at the **associate professor** level. Teaching responsibilities involve instructing medical and graduate students in selected areas of biochemistry. Research experience and interest in eukaryotic cell systems dealing with genetics, protein synthesis, RNA synthesis and metabolism, or macromolecular processing and its control is preferred. Faculty members are expected to have a strong, independent, ongoing research program. *Applications from all qualified candidates are welcome; minorities and women are encouraged to apply.* Send curriculum vitae, three letters of reference, and a detailed description of proposed research program to:

Kivie Moldave
Department of Biological Chemistry
College of Medicine
University of California, Irvine
Irvine, California 92717

POSITIONS OPEN

ELECTRICAL ENGINEER/BIOMEDICAL ENGINEER. The Cullen Cardiovascular Surgical Research Laboratories of the Texas Heart Institute of St. Luke's Episcopal and Texas Children's Hospitals will consider applications for two electrical/biomedical engineering positions. Candidates should have an M.S. degree and experience in biomedical instrumentation and cardiovascular physiology. The position(s) will involve investigation of prosthetic circulatory assist devices at investigative research and clinical levels. Send curriculum vitae and names of three references to: **John C. Norman, M.D., Director, Cullen Cardiovascular Surgical Research Laboratories, Texas Heart Institute, P.O. Box 20269, Houston, Texas 77025.**

EXECUTIVE DIRECTOR. National Science Teachers Association (NSTA) invites nominations and applications for the position of executive director. NSTA is a professional organization of educators and scientists devoted to the stimulation, improvement, and coordination of science education at all levels of instruction. NSTA maintains its national headquarters in Washington, D.C. It publishes three journals and other materials; holds an annual convention and area conventions; and is involved with many special projects both nationally and internationally. Candidates should have a minimum of a baccalaureate degree, preferably in the sciences or science education. Administrative achievement and a demonstrated capacity to exercise educational leadership are important qualities. The application deadline is 25 July 1979. Nominations and inquiries to: **Roger G. Olstad, 115 Miller DQ-12, University of Washington, Seattle, Washington 98195. An Equal Opportunity/Affirmative Action Employer.**

FACULTY POSITION IN BIOMEDICAL ENGINEERING

The University of Southern California invites applications for a faculty position in biomedical engineering available 1 September 1979. Applicants must have a Ph.D. in engineering or physiology-biophysics with "hybrid training" including both mathematics-engineering and systems physiology. Duties include both teaching and research. Interest and experience in cardiovascular-pulmonary systems preferred. Rank and salary dependent on qualifications and experience. Send résumé and three letters of recommendation to: **Fred S. Grodins, Chairman, Biomedical Engineering, University of Southern California, University Park, Los Angeles, California 90007. An Equal Opportunity/Affirmative Action Employer.**

JUNIOR FACULTY or POSTDOCTORAL POSITION available immediately at The University of Michigan, with collaborative research in Ann Arbor and with Dr. K. Yasunobu at the University of Hawaii, Honolulu, on sequencing cytochrome P-450. Previous experience in protein sequencing desirable. Send credentials to: **Dr. M. J. Coon, Professor and Chairman, The University of Michigan, Department of Biological Chemistry, Ann Arbor, Mich. 48109. An Equal Opportunity/Affirmative Action Employer**

LABORATORY CHIEF: CLINICAL PHARMACOLOGY. Individual needed to develop and supervise performance drug assays for research and special patient care projects. Individual will participate in originating, conducting, and reporting clinical pharmacology research studies. Ph.D. in a scientific discipline relevant to clinical pharmacology required; some experience in performing and/or supervising drug assay work, and analysis experience (fluorometry, gas chromatography, radioimmunoassay, and so forth) preferred. Salary is commensurate with experience. Excellent employee benefit program. Send detailed résumé with salary requirement to: **Dr. Roger K. Ferguson M.D., Director of Clinical Pharmacology, Thomas Jefferson University Hospital, Room 502, Main Building, 10th and Walnut Streets, Philadelphia, Pa. 19107. Affirmative Action/Equal Opportunity Employer.**

POSTDOCTORAL POSITIONS IN DEVELOPMENTAL NEUROBIOLOGY. Two positions are available; one involves research on the differentiation of nerve cells and synapses in culture; the second involves development of central auditory pathways. Send curriculum vitae, names of referees, and proposed starting date to: **Dr. Marcus Jacobson, Chairman, Department of Anatomy, University of Utah College of Medicine, Salt Lake City, Utah 84132 before 30 June 1979. The University of Utah is an Equal Opportunity Employer.**

POSITIONS OPEN

The **DEPARTMENT OF OPHTHALMOLOGY**, University of Minnesota, seeks a full-time faculty member with experience in glaucoma and interest in research. Salary and rank will be commensurate with experience. Inquiries should be made to: **Dr. Donald Doughman, Department of Ophthalmology, University of Minnesota, Box 493, Health Sciences Unit C 9-245, 516 Delaware Street, SE, Minneapolis, Minn. 55455. The University of Minnesota is an Equal Opportunity Employer.**

PHARMACOLOGY TEACHERS. English or Spanish for accredited medical school in Puerto Rico. Immediate opening at all levels from instructor through full professor. Doctor's degree preferred. Research encouraged. Fringe benefits. Answers: **Chairman, Department of Pharmacology, Catholic University of Puerto Rico School of Medicine, Ponce, Puerto Rico 00731.**

POSTDOCTORAL ASSOCIATE—Biochemist is sought, preferably with interest in protein sequencing and/or chemical modification of proteins. The 2-year position, with possibility for renewal, is available immediately for sequence and affinity labeling studies on ribulosebiphosphate carboxylase at a salary of \$12,000 to \$13,500. A complete application requires résumé, transcripts, and three letters of reference sent to: **Dr. Fred C. Hartman, The University of Tennessee—Oak Ridge Graduate School of Biomedical Sciences, P.O. Box Y, Oak Ridge, Tenn. 37830. For further information, telephone: 615-574-0959. An Equal Opportunity/Affirmative Action Employer.**

POSTDOCTORAL FELLOW—MICROBIOLOGY. Immediate opening for individual interested in viral-cell chromosome interactions. Research involves the mechanisms of integration and excision of a temperate bacillus phage analyzed by structural analysis of phage and prophage DNA's. Please send curriculum vitae and references to: **Dr. A. Garro, Department of Microbiology, THE MOUNT SINAI SCHOOL OF MEDICINE, One Gustave L. Levy Place, New York, N.Y. 10029. An Equal Opportunity Employer.**

POSTDOCTORAL POSITION

Available 1 September 1979. Recent Ph.D. in microbiology or biochemistry with strong background in microbiological techniques, to continue study on new respiratory mutants of *Azotobacter vinelandii* in relation to energy conservation. One-year appointment, renewable. Stipend: \$12,000 for first year. Send curriculum vitae and three references to: **Dr. Daniel V. DerVartanian, Boyd Graduate Studies Research Center, University of Georgia, Athens, Georgia 30602.**

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

POSTDOCTORAL POSITION available to Ph.D. for research in virology. Opportunity to examine the role of temperature-sensitive (*ts*) and/or defective-interfering (DI) particles of VSV in producing: (i) persistent viral infection in vivo and in vitro and (ii) altering pathogenesis of neurovirulent infection with VSV. Background in microbiology or biochemistry preferred. Salary: \$10,000 to \$12,000, plus fringe benefits. Position available 1 June 1979. Send curriculum vitae and three letters of reference to:

Dr. Stanley G. Rabinowitz
Department of Medicine
Northwestern University Medical School
303 East Chicago Avenue
Chicago, Ill. 60611

POSTDOCTORAL POSITIONS (two). Opportunities for research in the isolation, and chemical and immunological characterization of protein and carbohydrate antigens from microbes and parasites. Available immediately. Two-year appointments. Chemical background preferable. Send résumés and references to: **John H. Hash, Department of Microbiology, Vanderbilt University School of Medicine, Nashville, Tenn. 37232. An Equal Opportunity/Affirmative Action Employer.**

POSTDOCTORAL POSITION IN GENETIC REGULATION. Available immediately; \$12,000 per year. The molecular mechanism for regulating β -galactosidase synthesis in yeast will be studied using the cloned β -galactosidase gene for genetic and biochemical experiments. Send curriculum vitae and names of three references to: **Dr. Robert C. Dickson, Department of Biochemistry, University of Kentucky Medical Center, Lexington, Kentucky 40536.**

STRUCTURAL MOLECULAR BIOLOGIST

Position now available in the Biology Department of Brookhaven National Laboratory for a structural molecular biologist with considerable experience in instrumentation in the field of small angle scattering. The appointment is to the scientific staff. The scientist will be involved in the development of the Brookhaven National Laboratory Synchrotron facilities for use in small angle scattering experiments.

Applicants should submit curriculum vitae (including a list of publications) and the names of three references to:

Dr. Benno P. Schoenborn
Biology Department
Brookhaven National Laboratory
Associated Universities, Inc.
Upton, Long Island, N.Y. 11973
Equal Opportunity Employer, M/F

**BROOKHAVEN
NATIONAL
LABORATORY**



Faculty of Medicine

KUWAIT UNIVERSITY

CHIEF TECHNICIAN DEPARTMENT OF PATHOLOGY

Applications are invited for the appointment of Chief Technician in the Department of Pathology. Applicants should possess a degree in the biomedical sciences with a major in histotechnology, or the FIMLS in histotechnology, or an equivalent qualification, and have fifteen years' experience, including training, in laboratory work. Proficiency in all histological techniques, including a working knowledge of histochemistry, and museum techniques is required. The successful applicant will be expected to have administrative responsibility for ordering laboratory equipment, to take an active role in the training and supervision of the technical staff, and to assist the chairman with budgeting and departmental accounts.

Salaries will be in the range KD 310-477 per month (KD 1 = £1.7; US\$ 3.6 approx.). There is no income tax in Kuwait and currency is transferable without restriction. Free, furnished, air-conditioned accommodation is provided, and electricity and water supplied free of charge. Sixty days paid annual leave for each completed year of employment, and annual economy class return air tickets to the country of origin for the appointee, spouse and three dependent children, are provided. Free medical treatment is available under the State Health Service.

APPLICATIONS IN DUPLICATE SHOULD BE SUBMITTED TO:

PROFESSOR M. Y. ALI, CHAIRMAN OF PATHOLOGY,
FACULTY OF MEDICINE,
UNIVERSITY OF KUWAIT
P.O. BOX 5969
KUWAIT

with detailed curriculum vitae, recent passport photograph, and the names of three references, to arrive not later than 16 June 1979.

PhD

Laboratory Automation

Play a key role in Merck's Laboratory Automation Group collaborating with our research scientists to develop and install laboratory computer systems in a variety of the experimental sciences.

PhD in a physical or biological science plus experience in real-time data acquisition and control of laboratory instruments are required. On-going interaction with research management and laboratory personnel requires effective written and oral communication skills.

Merck is noted for its professional environment, excellent salaries and outstanding benefits program. To explore this opportunity, forward credentials with earnings history in confidence to: Mr. F. Mieso,



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ASSOCIATE DEAN FOR RESEARCH COLLEGE OF HUMAN DEVELOPMENT THE PENNSYLVANIA STATE UNIVERSITY

Candidates are being sought for the position of Associate Dean for Research in the College of Human Development. The College of Human Development is a multi-professional and multi-disciplinary College conducting education and both basic and applied research in a broad range of scientific fields and related human service professions: health services planning, social welfare and community development, the administration of justice, individual and family development over the life span, nursing, nutrition, behavioral science applications to environmental planning and design, food service and housing administration, and others. It represents a major part of The Pennsylvania State University's commitment to research and education directed toward improving the quality of life for individuals, families, and communities, and toward the prevention of major personal and community problems such as illness, poverty, discrimination, family deterioration, crime and community disorganization.

Major responsibility involves providing administrative leadership for the continuation and further development of a broad array of research activities in the College. Candidates should have a doctorate in an area of behavioral, biological, or social science and a distinguished record in research and scholarship. Background and experience should reflect commitment to an interdisciplinary orientation, assertive leadership in the administration of both basic and applied research programs, successful record of obtaining research grant funding, and prior affiliation with strong graduate programs. Candidates should have a commitment to continuation of personal involvement in research in an area related to the mission of the College.

Nominations and applications will be received until June 15, 1979. Curriculum vitae and inquiries should be addressed to:

Dr. John R. Nesselrode
Search Committee Chairman
College of Human Development, Box 108
The Pennsylvania State University
University Park, Pennsylvania 16802

AN EQUAL OPPORTUNITY/AFFIRMATIVE ACTION EMPLOYER

POSITIONS OPEN

OCEANOGRAPHER

An opening exists in the Oceanography and Climate Group, Jet Propulsion Laboratory, for an individual possessing a strong background in oceanography and physics of the marine atmosphere. Position will be oriented towards research in the area of remote sensing in physical oceanography and/or air-sea interaction as it relates to climate. Ph.D. degree in physical oceanography or related field is required. Send résumé to:

**Professional Staffing Department
Jet Propulsion Laboratory
California Institute of Technology
4800 Oak Grove Drive
Pasadena, Calif. 91103**

An Equal Opportunity Employer

POSTDOCTORAL POSITION—DRUG DISPOSITION. Available on or before 1 August 1979 to study the disposition of drugs in humans. Responsibilities include assisting with monitoring volunteers and collecting biological fluids with full responsibility for HPLC assay for drug and known metabolites, isolation and identification of additional metabolites, and computer fitting of data. Stipend is \$11,880 plus fringe benefits. Send curriculum vitae and three letters of reference to: **Betty-ann Hoener, Ph.D., School of Pharmacy, 926-S, University of California, San Francisco, Calif. 94143.** The university is an Affirmative Action/Equal Opportunity Employer.

POSTDOCTORAL POSITION for a molecular biologist available October 1979, to assist in research using recombinant DNA techniques on the role of RNA polymerases in controlling transcription of ribosomal RNA genes in a differentiating eukaryotic cell system. Salary: \$11,500 per 12 months. Search will terminate 1 July 1979. Send inquiries and résumés, with three references, to: **Dr. Marvin R. Paule, Department of Biochemistry, Colorado State University, Fort Collins, Colorado 80523.** Colorado State University is an Equal Opportunity Employer.

POSTDOCTORAL POSITION available for studies on the biochemistry of vaccinia virus with particular emphasis on mRNA biogenesis. Send curriculum vitae and three letters of recommendation to: **Dr. Enzo Paoletti, Division of Laboratories and Research, New York State Department of Health, Albany, New York 12201.** An Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL POSITION IN SOMATIC CELL GENETICS available immediately to examine mechanisms of acquired resistance of malignant human breast cells to endocrine therapy. Experience in tissue culture, an appreciation for the genetic and/or epigenetic factors in the phenotypic expression of variant or mutant clones, and an interest in tumor biology are necessary. Support available for up to 3 years. Send curriculum vitae, statement of interests, and letters of recommendation to: **Dr. Charles McGrath, Chairman, Tumor Biology Department, Michigan Cancer Foundation, 110 East Warren Avenue, Detroit, Michigan 48201.**

POSTDOCTORAL RESEARCH—Two positions available July 1979 for Ph.D.'s for neuronal recording in developing and adult mammalian CNS. Must have experience in single neuron recordings. Send curriculum vitae and names of referees to: **N. A. Buchwald, Director, Mental Retardation Research Center, University of California, Los Angeles, 760 Westwood Plaza, Los Angeles, Calif. 90024.** Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL RESEARCH IN CELL BIOLOGY

Position open as a research staff cell biologist for recent Ph.D. with research experience in cell biology, to work on a project concerned with secretory processes (including membrane recycling) in endocrine and exocrine cells. Experience with cell fractionation required. Background in electron microscopy desirable. Salary \$12,000 to \$16,000 per annum. Send curriculum vitae and names of three or four references to:

**Dr. Marilyn Gist Farquhar
Section of Cell Biology
Yale University School of Medicine
New Haven, Conn. 06510**

Yale University is an Equal Opportunity/Affirmative Action Employer.

POSITIONS OPEN

POSTDOCTORAL POSITION IN DIABETES

One postdoctoral position is available 1 September 1979. Appointee will participate in a NIH Training Program for research in diabetes. Candidate must have a Ph.D. and/or M.D. degree, be a permanent resident of the United States, and be committed to a career in diabetes research. Stipend ranges from \$10,000 to \$12,000, depending on experience. Please send curriculum vitae and outline of research interests to:

**A-M. Carpenter, Ph.D., M.D.
Department of Anatomy
262 Jackson Hall, 321 Church Street, SE
University of Minnesota
Minneapolis, Minnesota 55455**

POSTDOCTORAL RESEARCH—BIOCHEMICAL TOXICOLOGY. Studies are being conducted in two areas: (i) altered toxicity related to changes in drug metabolism in young animals, and (ii) mechanisms of the toxicity of various diabetogenic chemicals to the endocrine pancreas. Ph.D. with good background in biochemistry and/or pharmacology required. Send résumé to: **Dr. L. J. Fischer, The Toxicology Center, Department of Pharmacology, College of Medicine, University of Iowa, Iowa City, Iowa 52242.** Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL RESEARCH ASSOCIATE

Position available immediately for Ph.D. or M.D. to collaborate in research on carbohydrate metabolism in human cells and tissues with special reference to congenital disorders of glycogen metabolism. Starting salary: \$12,500. Send curriculum vitae and names of two references to:

**Dr. David H. Brown or Dr. Barbara I. Brown
Department of Biological Chemistry
Washington University School of Medicine
Saint Louis, Missouri 63110**

An Equal Opportunity/Affirmative Action Employer

POSTDOCTORAL RESEARCH POSITIONS dealing with the biochemistry and endocrinology of uterine endometrial function in domestic animals. Applicants must hold the Ph.D. and have a strong background in reproductive biology, endocrinology, and biochemistry. Stipend: \$12,000. Send curriculum vitae and three letters of reference to either: **Dr. Fuller W. Bazer, Department of Animal Science or Dr. R. Michael Roberts, Department of Biochemistry, University of Florida, Gainesville, Fla. 32611.** Equal Opportunity Employer.

POSTDOCTORAL RESEARCH POSITION available immediately in synthesis and ^{75}Se FT NMR studies of organoselenium compounds and selenium containing biomolecules. Available NMR equipment includes XL-100, WP-200, and WH-400 spectrometers. Synthetic experience essential, \$11,000 per year. Send curriculum vitae and names of three references to: **Dr. J. D. Odom, Department of Chemistry, University of South Carolina, Columbia, S.C. 29208.** Equal Opportunity Employer.

PROFESSOR AND CHAIRMAN DEPARTMENT OF NEUROLOGY

Applications are invited for appointment to chairmanship of the Department of Neurology at the University of Maryland School of Medicine. Faculty, residents, fellows, and staff occupy ample physical facilities in University Hospital and adjoining new medical school buildings. The new chairman will play an essential role in the internationally recognized Neurosciences Program of the School of Medicine. Board-certified neurologists with demonstrable teaching and administrative skills as well as substantive research interests in the neurosciences are encouraged to apply. Contact: **Irving I. Kessler, M.D., Dr. P.H., Chairman, Neurology Search Committee, 13-007 HHT, University of Maryland School of Medicine, 655 West Baltimore Street, Baltimore, Maryland 21201.** An Equal Opportunity/Affirmative Action Employer.

RESEARCH ASSOCIATE

Immediate opening for Ph.D. with background in protein chemistry and immunochemistry for research on immunochemical electron microscopy of structural proteins in neurons. Send curriculum vitae and three letters of recommendation to: **Dr. J. Metzels, University of Ottawa School of Medicine, Faculty of Health Sciences, 275 Nicholas Street, Ottawa, Ontario, Canada K1N 9A9.**

POSITIONS OPEN

THE UNIVERSITY OF BRITISH COLUMBIA DEPARTMENT OF OBSTETRICS AND GYNAECOLOGY REPRODUCTIVE ENDOCRINOLOGY

Position available for a Ph.D. involving independent and collaborative research in human reproduction with emphasis on mechanisms of disordered endocrine function of pituitary, gonadal, and trophoblastic tissue. Experience in the following areas is required:

- 1) Tissue culture and in vitro techniques of studying hormone synthesis and release.
- 2) Radioimmunoassay and radioreceptor assays,
- 3) Peptide receptor analysis, and
- 4) Immunochemistry.

Salary depends on experience and qualifications. If interested, kindly send curriculum vitae and names of three referees to:

**Dr. V. Gomel
Professor and Head
Department of Obstetrics and Gynaecology
Vancouver General Hospital
Vancouver, British Columbia, Canada V5Z 1M9**

RESEARCH ASSOCIATE. Requires 2 years of postdoctoral training in muscle electrophysiology, experience with gap voltage clamp methods for cardiac and skeletal muscle, and advanced training in physics and applied mathematics. Familiarity with data taking and analysis by laboratory computer is desired; \$15,000 to \$18,000 per year. Send curriculum vitae and names of three references to: **Dr. M. F. Schneider, Department of Physiology, University of Rochester Medical Center, 601 Elmwood Avenue (Box 642), Rochester, N.Y. 14642.** An Equal Opportunity/Affirmative Action Employer.

RESEARCH ASSOCIATE—University of Connecticut Health Center. Ph.D. to direct cardiac surgical research laboratory engaged in physiologic and biochemical studies of animal heart. Prefer Ph.D. with biochemical and/or cardiology background. Send résumé to: **Donna Buxton, Department of Personnel, University of Connecticut Health Center, Farmington, Conn. 06032.**

RESEARCH ASSOCIATE (POSTDOCTORAL). Cellular or molecular immunologist to participate in collaborative and independent research in broad areas of genetic control of the immune response using synthetic polymers of amino acids. Emphasis on T cell factors, receptors, idiotype, and hybridomas. Send complete curriculum vitae and three letters of recommendation to: **Dr. Paul H. Maurer, Department of Biochemistry, Jefferson Medical College, Thomas Jefferson University, 1020 Locust Street, Philadelphia, Pa. 19107.** An Equal Opportunity/Affirmative Action Employer.

RESEARCH ASSOCIATE OR POSTDOCTORAL—Available 1 July or sooner. Prefer an independent worker with a strong virology or molecular biology background. Research involves the investigation of messenger RNA control in differentiating muscle cells utilizing techniques of messenger isolation, cDNA-RNA hybridization, cell free translation, two dimensional gel electrophoresis, electron microscopy, and molecular cloning. Particular emphasis at present concerns the mammalian actin gene: control of transcription and organization in the muscle genome. Starting salary: \$12,000 to 15,000, depending on experience. Send curriculum vitae and names of three references to: **Dr. Robert H. Singer, Department of Anatomy, University of Massachusetts Medical School, 55 Lake Avenue North, Worcester, Mass. 01605.** An Equal Opportunity/Affirmative Action Employer.

RESEARCH EDITOR, International Crops Research Institute for the Semi-Arid Tropics (ICRISAT), Hyderabad, India. Applications are invited for the position of research editor, the principal scientific editor of the institute. Responsibilities include editing and preparing for publication scientific and technical information, including the annual report, journal articles, conference proceedings, and specialized publications. Qualifications: appropriate degrees and at least 5 years of editing experience with an agricultural experiment station or similar biologically oriented research organization. Salary commensurate with experience; excellent fringe benefits, including TIAA-CREF and annual home leave.

Send résumé to: **H. L. Thompson, Head, Information Services, ICRISAT, 1-11-256 Begumpet, Hyderabad 500 016, India.**

NOMINATIONS INVITED FOR THE BROOKDALE AWARDS IN GERONTOLOGY

The Gerontological Society is pleased to announce the Brookdale Awards in Gerontology. Two awards for distinguished service to gerontology are to be given annually for the next 3 years: one in the biological sciences or clinical medicine, and the other in the behavioral and social sciences. The amount of each award will be \$20,000.

Criteria for Eligibility

The nominees must be citizens of the United States who have made outstanding contributions to the field of gerontology and thus to our knowledge and understanding of the aged and aging.

Nominations

1) Nominations may be made by members and fellows of either the Gerontological Society or of the professional society of the nominee's own discipline. Each nomination must be endorsed by three additional persons, one of whom must be a member of the Gerontological Society.

2) Nominations must be made in the form of a letter setting out in detail the significance of the work upon which the nomination is based. Accompanying the nomination must be: curriculum vitae, a selected bibliography, reprints of at least three articles published in refereed journals, and/or other relevant publications. Ten copies of all these materials must be submitted.

Screening and Selection

1) **Screening:** the Screening Committee will consist of eight persons. Five will be members of the Gerontological Society, four of whom will specifically represent the sections of the Society. The three other members will be representatives of other societies concerned with gerontology, appointed by their respective organizations.

The members of this committee will screen the candidates and submit three or four names in each award area (biological sciences and clinical medicine, and behavioral and social sciences) to the Awards Committee of the Gerontological Society.

2) **Selection:** the final selection of the award winners will be announced by the society's Awards Committee at a ceremony at the Gerontological Society's Annual Scientific Meeting in Washington, D.C., 26 to 29 November 1979.

Deadline for Receipt of Nominations

The deadline for receipt of nominations is 1 August 1979. Send to:

Chairperson
Brookdale Awards Screening Committee
The Gerontological Society
1835 K Street, NW
Washington, D.C. 20006

MAX-PLANCK-INSTITUT FÜR BIOCHEMIE AT MARTINSRIED NEAR MUNICH

The
Deutsche Stiftung für Krebsforschung,
together with the
Max-Planck-Gesellschaft zur Förderung
der Wissenschaften e.V.,
offers
A YOUNG SCIENTIST

the opportunity to set up a research group in the above institute in the field of basic, medically oriented tumor research and to conduct his/her research programme independently.

Fields of activity of the institute are biochemistry, physical biochemistry, molecular biology, structure research, genetics, cellular biology, and virus research. There also exist good opportunities for cooperative links with clinics.

Applicants should already have accomplished internationally recognised research; their special field of research should fit into the frame of the institute's activities.

Work should start at the earliest possible date. The appointment will be made for an initial period of five years. The salary will be calculated according to group AH3 of the Niedersächsische Besoldungsgesetz.

The group will be provided with up to two positions for German or foreign scientific co-workers and with up to three positions for technical staff. It will be given its own laboratory, appropriate equipment and adequate operating funds.

Applications should include a tabular curriculum vitae, a list of publications and a short description of scientific work, both achieved and intended, and should be sent to

Dr. Mildred Scheel—Deutsche Stiftung für Krebsforschung—Villa Hammerschmid—D-5300 Bonn-Bad Godesberg—

no later than 31 May 1979.



Open to both
men and women

Public Service
Canada
Fonction publique
Canada

MARINE RESOURCES ASSESSMENT SCIENTISTS

Salary: \$16,500 to \$39,517 (depending on qualifications)
Fisheries and the Environment
Fisheries Management
St. Andrew's, New Brunswick

Two positions are available at the St. Andrew's Biological Station, to develop and evaluate resource inventory methods for pelagic and groundfish stocks in Eastern Canadian waters as part of the stock assessment process.

SECTION HEAD, RESOURCE INVENTORY (109-025-017)

Ref.No: 79-NCRSO-32-150 (S)

The senior position of the two vacancies is for the leader of the Resource Inventory Section which has a staff complement of about twenty. In addition to coordinating the development of resource inventory programs, the successful candidate will manage the fish aging service of the division; will coordinate the fish sampling activities and computer services of the section; and, will collect data on oceanographic parameters.

RESEARCH SCIENTIST, FISH SURVEYS (109-037-023)

Ref. No: 79-NCRSO-32-149 (S)

The junior position is for a scientist to conduct research primarily on the design and development of pelagic fish survey techniques.

QUALIFICATIONS

Applicants for either of the above positions must possess a PhD in quantitative fish biology with specific training in statistical methodology. A lesser degree coupled with evidence of research experience and productivity which is equivalent to a doctorate is also acceptable.

For the junior position, experience in applied fisheries research and evidence of ability in program management are desirable.

For the senior position, applicants must have published a substantial number of scientific papers and be recognized as experts in this field at the national level. Experience in program management is essential for this position.

Knowledge of English is essential.

How to Apply

Send your application form and/or résumé to:

D.E. Fraser, Staffing Officer
National Capital Region Staffing Office
Public Service Commission of Canada
Ottawa, Ontario K1A 0M7
Closing Date: May 31, 1979

Please quote the applicable reference number at all times.

POSITIONS OPEN

PROFESSORSHIP IN MOLECULAR GENETICS

Seeking individual for professorship in molecular genetics. Individual must be established investigator for research and teaching in molecular genetics.

Position in Cancer Center with broad laboratory research programs including cellular genetics and development, tumor immunology, viral oncology, and chemical carcinogenesis.

Salary negotiable dependent on level of experience and academic rank of applicant. Send curriculum vitae and inquiries to: Chairman, Molecular Genetics Professor Search Committee, Cancer Center/Institute of Cancer Research, Columbia University, 701 West 168 Street, New York, New York 10032.

An Equal Opportunity Employer

RESEARCH ASSOCIATE OR POSTDOCTORAL POSITION available immediately to study regulation of membrane and lipoprotein synthesis in chicken hepatocytes. The applicant will be responsible for developing the hepatocyte culture system and should have experience in this area. Salary: \$12,000 per year, for 2 years. Send résumé and two letters of recommendation to:

Dr. Peter W. Holloway
University of Virginia
School of Medicine
Jordan Building, Box 440
Charlottesville, Va. 22908

An Equal Opportunity/Affirmative Action Employer

The Australian National University, John Curtin School of Medical Research, Department of Pharmacology, **RESEARCH FELLOW**. Applications are invited for appointment to the above post. The successful applicant will be expected to pursue research under the general direction of Professor D. R. Curtis into synaptic mechanisms within the mammalian central nervous system at a cellular level and to be familiar with the relevant anatomical, biophysical, and pharmacological techniques. Further information may be obtained from Professor Curtis. Appointment will be for 2 years in the first instance with the possibility of extension to a maximum of 5 years. Salary will be in accordance with qualifications and experience within the range A\$15,786 to A\$20,606 per annum. A salary loading of up to A\$5000 per annum may be paid to an applicant holding appropriate medical qualifications. Current exchange rates are A\$1:U.S.\$1.11:C\$1.27. **Other conditions:** reasonable appointment expenses are paid. Superannuation benefits are available for applicants who are eligible to contribute. Assistance with finding accommodation is provided for an appointee from outside Canberra. The university reserves the right not to make an appointment or to make an appointment by invitation at any time. Prospective applicants should write to: Registrar, Australian National University, P.O. Box 4, Canberra, ACT 2600, Australia for further particulars before lodging applications, the closing date for which is 15 June 1979.

SOCIALIST/ANTHROPOLOGIST/BEHAVIORAL SCIENTISTS teaching social science principles at community scale for students in design professions (architecture, planning, urban design, and so forth). Research or professional experience in community development, urban sociology, or social anthropology preferred, 50 percent, 2-year appointment at associate or assistant professor level. September opening.

BIOENGINEER/SYSTEMS ANALYSIS/HUMAN ECOLOGIST teaching principles of bioengineering, human physiology, and ecology from a systems perspective. Applied research and experience in structures and materials, biomorphology, energy systems, and/or operations research helpful. One year, full-time, visiting assistant or associate professor with possibility of tenure track in 1981. Salary negotiable. Send curriculum vitae and three letters of reference to: Dr. Spenser Havlick, Search Committee, College of Environmental Design, University of Colorado, Boulder, Colorado 80309. *An Affirmative Action/Equal Opportunity Employer.*

TEACH SCIENCES IN AN INDEPENDENT SCHOOL

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

PERIODICAL SEARCH

Wanted for *Science's* archives. Original issues of 1880-1882 *Science* (subtitled "A Weekly Record of Scientific Progress"). The first issue was dated 3 July 1880; the last was dated 4 March 1882. We want to assemble a full set of the 82 published issues of this early journal, the forerunner of the present *Science*. If you have any issues of the 1880-1882 *Science* that you would be willing to part with, please write: Janet Kegg, Library, American Association for the Advancement of Science, 1515 Massachusetts Avenue, NW, Washington, D.C. 20005, or telephone 202-467-4428.

ASSOCIATESHIP

POSTDOCTORAL ASSOCIATESHIP

The Jet Propulsion Laboratory, California Institute of Technology, announces that a limited number of postdoctoral associateships will be filled on a continuing basis. One-year renewable appointments are available for research and development in a wide range of scientific and engineering activities. Stipends range from \$10,500 to \$16,000, and associates are accorded full benefits.

To apply for postdoctoral associateships, send résumé to:

Dr. Arden L. Albee, Chief Scientist
Jet Propulsion Laboratory
California Institute of Technology
Code 249-102
4800 Oak Grove Drive
Pasadena, Calif. 91103

An Equal Opportunity Employer

FELLOWSHIPS

POSTDOCTORAL FELLOWSHIPS—The Cancer Research Center of the University of North Carolina at Chapel Hill has limited openings in summer and fall 1979 for persons completing graduate studies to train under investigators in basic cancer-related research in tumor virology, tumor immunology, chemical carcinogenesis, cancer cell biology, and anti-neoplastic drugs. Unique resources and departmental affiliations. Present stipends are \$10,000 to \$13,000 per year. Candidates must be U.S. citizens or permanent residents. Send for brochure and apply with curriculum vitae, three letters of recommendation, a statement of research interests, and graduate school records to: Director, Cancer Research Center, Box 30, MacNider Hall, Chapel Hill, N.C. 27514.

HYPERTENSION RESEARCH FELLOWSHIPS. Fellowships in hypertension research for 2 years, with option of one or more additional years of clinical training for qualified applicants, are available at the Mayo Clinic and Mayo Graduate School of Medicine. This NIH-funded multidisciplinary program provides research training in hypertension by faculty in nephrology, endocrinology, cardiovascular disease, clinical pharmacology, pediatrics, biochemistry, and physiology. Applicants should have the M.D. or Ph.D. degree and hold a permanent visa if not a citizen of the United States. Degree programs leading to the master's or Ph.D. degree are available to individuals with the M.D. degree. For further information write to: R. D. Brown, M.D., Director, Multidisciplinary Hypertension Research Training Program, Mayo Clinic, Rochester, Minn. 55901.

Mayo Foundation is an Equal Opportunity/Affirmative Action Institution.

IMMUNOBIOLOGY

Postdoctoral fellowships in cancer immunobiology are available at Sloan-Kettering Institute for Cancer Research for training in cellular and molecular immunology, development and interaction of lymphoid cells, clinical and tumor immunology, cell surface immunochemistry and immunogenetics. Individualized research program with qualified mentors is offered either in New York City or at Walker Laboratory, Rye, N.Y. Open only to U.S. citizens or foreign nationals with permanent resident or immigrant visa. Send curriculum vitae to: Dr. Y. S. Choi, Sloan-Kettering Institute for Cancer Research, 145 Boston Post Road, Rye, N.Y. 10580.

An Equal Opportunity/Affirmative Action Employer

FELLOWSHIPS

POSTDOCTORAL FELLOWSHIPS in physiological psychology at University of California, Los Angeles (UCLA). Training in basic research and experience with application of physiological methods to clinical problems will be provided. Faculty include: Drs. A. Arnold, J. Beatty, L. Butcher, G. Ellison, J. Garcia, F. Krasne, J. Liebeskind, D. Novin, and E. Zaidel. Send transcript, names of three references, curriculum vitae, and a statement of research interests to: Dr. Donald Novin, Program Director, Psychology Department, UCLA, Los Angeles, Calif. 90024. *The University is an Equal Opportunity/Affirmative Action Employer and applications from qualified minority candidates are invited.*

POSTDOCTORAL FELLOWSHIPS IN CARDIOPULMONARY BIOMEDICAL ENGINEERING

Multidisciplinary research training in biomedical engineering aspects of cardiopulmonary systems available 1 June 1979 under an NIH-National Research Service Institutional Award. Appropriate for fellows with Ph.D. degrees in engineering, physiology, or biophysics, or a medical degree (M.D.). Stipend: \$10,000 to \$14,000, depending on experience. Send résumé and references to: Dr. Fred S. Grodins, Biomedical Engineering, University of Southern California, Los Angeles, California 90007. *An Equal Opportunity/Affirmative Action Employer.*

RESEARCH FELLOWSHIPS IN HEMATOLOGY

The Hematology Unit, University of Rochester, has research fellowship positions available beginning July 1980. Research projects include studies of cell and organ ultrastructure, cell culture, immunology and membrane transport, and coagulation protein structure. Candidates must be M.D. or Ph.D. and U.S. citizen or on a permanent visa. Submit curriculum vitae and the names of two references to: Research Fellowships, Hematology Unit, P.O. Box Med, University of Rochester, 601 Elmwood Avenue, Rochester, N.Y. 14642. *Applications from all qualified individuals will be considered.*

CONFERENCE

A Conference on Lasers in Photomedicine and Photobiology will be held in Florence from 3 to 7 September 1979 to promote the nonsurgical application of VIS and UV lasers in medicine, and the study of those fundamental processes in photobiology which can be induced or investigated by lasers. A section will also be devoted to laser techniques in biology and to laser surgery. Registration deadline: 1 July. Correspondence: Professor R. Pratesi, Laboratorio di Elettronica Quantistica, Via Panciatichi 56, Firenze, Italia.

PROGRAM

VETERANS ADMINISTRATION ANNOUNCES THE SECOND ROUND—ALCOHOLISM PROGRAM EMPHASIS ON BASIC RESEARCH TO ADDRESS ETIOLOGY OF ALCOHOLISM

Three-year awards, up to \$100,000 per year. Applications accepted from VA and non-VA scientists, Ph.D.'s and M.D.'s

Research to be conducted in a VA Medical Center

Applications procedure:

Letter of intent to apply due 1 June 1979.

Ten-page application due 15 July 1979.

Decision on awardees and funding before January 1980.

Application should include the following:

- 1) Proposed investigation,
- 2) Curriculum vitae, and
- 3) Two letters of recommendation.

For further information contact:

Dr. Marcus Rothschild
VA Medical Center
New York, New York 10010
Telephone: 212-586-7500, extension 405

Dr. Robert Allen (151F)
VA Central Office
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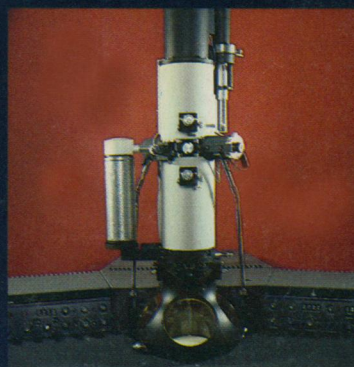
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Electron Diffraction pattern of CdS from a single grain in a solar cell. Courtesy of Dr. J.W. Edington, Dept. of Aeronautical Engineering, Univ. of Del.



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