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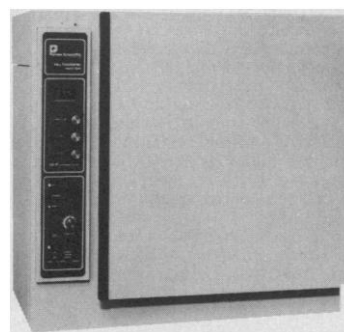


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Personnel Placement

Personnel advertising is accepted only with the understanding that the advertiser does not discriminate among applicants on the basis of race, sex, handicap, religion, age, color, or national origin.

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POSITIONS WANTED

Biochemist, M.S. Allergy to lab animals necessitates career change. Seven years industrial experience in atherosclerosis and platelet metabolism. Excellent references. Seeks challenging position utilizing my love of science and experience in the field. Interested in clinical duties, human studies, education, ecology, art. Your investment in my career will be rewarded. C. Malicki, 21 Bramblebrook Road, Ardsley, N.Y. 10502. X

Biochemist, Ph.D., seeks faculty/research/administrative position, preferably in one of the following areas: nutritional aspects of brain development, nerve regeneration, psychiatry, alcoholism or drug abuse, immunology (cancer) and preventive medicine. Previous experiences: mainly biogenic amines, their enzymes, psychopharmacologicals, pharmaceutical company and university, some teaching (biochemistry, neurochemistry, psychopharmacology, basic pharmacology; can also teach basic immunology). Not a junior or a senior scientist. Willing to accept an assistant professor position with eventual independent research possibilities, preferably in the area of nutritional aspects of nerve regeneration (have animal model). Very few publications due to drug company work for several years. Will consider other offers. Jourdikian, 252 Washington Boulevard, Oak Park, Illinois 60302. Home telephone: 312-524-1756. Business telephone: 312-525-2300, extension 705/706. X

Botanist, M.A. Four years of secondary school teaching, plus 4 years experience with environmental consulting firm. Specialty areas include lichen and vascular plant taxonomy and plant ecology. Publications. Seeks industrial, governmental, or academic position. Box 315, SCIENCE. X

Cellular Immunologist: Ph.D. 1974. Broad research experience in cellular immunology, tissue culture, animal studies, oncology. Postdoctoral experience. Publications. Seeking research position in industrial/research institute. Box 313, SCIENCE. 8/12, 19

Senior Level Scientist, Ph.D.—radiopharmaceutical R & D for 5 years. Broad background in immunochemistry, clinical immunology, and serology; innovator and instructor—medical technology program; will accept any challenging opportunity. Salary negotiable. Box 314, SCIENCE. X

POSITIONS OPEN

ASSISTANT DEAN OF STUDENT AFFAIRS

The University of Arizona College of Medicine is seeking an assistant dean for student affairs. Applicants should have an M.D. degree and be interested in both medical students and housestaff. The position encompasses the areas of admissions, student advising, National Internship and Residency Matching Program, and housestaff affairs. All letters of application, including curriculum vitae, should be received no later than 12 September 1977. Address all correspondence to: the Dean, University of Arizona College of Medicine, Tucson, Arizona 85724. The University is an Equal Opportunity/Affirmative Action/Title IX Employer.

McMaster University, Department of Biology anticipates appointing an **ASSISTANT PROFESSOR**, commencing 1 July 1978. The position is for a **QUANTITATIVE ANIMAL ECOLOGIST** preferably with experience in invertebrate ecology; Ph.D. is required. The preferred candidate should have a basic understanding of population biology and ecological genetics. Responsibilities include an introductory zoology course, senior undergraduate and graduate instruction and research. Present salary minimum: \$16,500. Applications with the names of at least two referees should be sent as soon as possible to: Dr. D. M. Davies, Department of Biology, McMaster University, 1280 Main Street West, Hamilton, Ontario, Canada L8S 4K1.

FACULTY OF AGRICULTURE MACDONALD COLLEGE OF MCGILL UNIVERSITY STE. ANNE DE BELLEVUE QUEBEC, CANADA

DEPARTMENT OF ENTOMOLOGY

- 1) Assistant Professor of Entomology.
- 2) Ph.D. in entomology with research and teaching interests in aquatic entomology, freshwater biology, and systems ecology.
- 3) Undergraduate and graduate teaching in insect morphology, biology of inland waters, and comparative vertebrate morphology. Research in aquatic entomology.
- 4) Current salary minimum for assistant professor: \$18,650.
- 5) Dr. R. K. Stewart, Chairman
Department of Entomology
Macdonald College
Ste. Anne de Bellevue
Quebec, Canada H0A 1C0

ASSISTANT PROFESSOR, NEUROBIOLOGY

The Department of Biology, University of Virginia, is seeking candidates in all areas of neurobiology for an assistant professorship for September 1978. Postdoctoral research experience is required. By 1 November 1977 candidates should send a curriculum vitae and summary of research plans and have three letters of recommendation sent to: R. H. Kretsinger, Faculty Search Committee, Department of Biology, Gilmer Hall, University of Virginia, Charlottesville, Va. 22901. An Affirmative Action/Equal Opportunity Employer.

ASSISTANT PROFESSOR OF PHARMACOLOGY

The Department of Pharmacology of Northwestern University Medical School in Chicago invites applications from qualified individuals for two positions at the level of assistant professor. Preferred fields of research include molecular pharmacology and toxicology such as receptor characterization, drug metabolism, and mode of action of environmental agents. However, individuals who have demonstrated excellence in research in other areas of pharmacology are also encouraged to apply. The department is rapidly developing with 18 faculty members who have expertise in various fields of pharmacology; the emphasis is on molecular and electrophysiological approaches. Excellent facilities are available in the department including those for NMR, GC-mass spectrometry, EM, and sophisticated electrophysiology such as voltage clamp. Applications should include a curriculum vitae, a list of publications, and names of three references, and should be submitted to: Dr. Toshio Narahashi, Professor and Chairman, Department of Pharmacology, Northwestern University Medical School, 303 East Chicago Avenue, Chicago, Illinois 60611. Northwestern University is an Equal Opportunity/Affirmative Action Employer.

POSITIONS OPEN

ASSISTANT RESEARCH BIOCHEMIST—Particular expertise in glycoprotein, micropolysaccharide biochemistry is desirable. Will work in close association with physiologists investigating surface coat structure and function in myocardial cells. Isolation, purification, and characterization of surface coat material will be the major focus of the work, though other routine biochemical studies will be required at times. Salary dependent upon qualifications.

If you are interested in this position, please send your letter of application and résumé to:

Dr. Glenn A. Langer
Professor and Vice Chairman
Department of Physiology
University of California

A3-375 UCLA Center for the Health Sciences
Los Angeles, California 90024

Affirmative Action/Equal Opportunity Employer. Minority and women candidates are encouraged to apply.

ASSISTANT VICE PRESIDENT FOR ACADEMIC PROGRAMS: The University of Louisville invites qualified applicants for the position of assistant vice president for academic programs. Applicants for the position should possess one of the following degrees: M.D., D.D.S., D.M.D., or Ph.D. The successful applicant will have experience in academic planning, educational research, and resource areas that support education in a Health Sciences Center. This is an excellent career opportunity. Submit curriculum vitae with salary history to: Chairman, Assistant Vice President for Academic Programs Search Committee, University of Louisville, Health Sciences Center, Louisville, Kentucky 40202. An Equal Opportunity/Affirmative Action Employer.

ASSOCIATE PROFESSOR IN CLINICAL MICROBIOLOGY

Position available immediately at Presbyterian-University Hospital and the University of Pittsburgh. A Ph.D. or M.D. required with training and research experience in clinical microbiology. Expertise in a special area such as mycology, parasitology, or anaerobic bacteriology desirable but not essential. Applicant should be able to attract research grants and to participate or lead in teaching and research in clinical microbiology. Send curriculum vitae to: Dr. Monto Ho, Presbyterian-University Hospital, 230 Lothrop Street, Pittsburgh, Pa. 15213. An Equal Opportunity Employer, M/F.

University of California, Irvine, Department of Pathology, recruiting for faculty position at **ASSOCIATE PROFESSOR** level. Required: M.D., Ph.D. biochemistry/biophysics, clinical board qualified, service experience in clinical chemistry, demonstrated interest in independent research. Duties: teach medical students and house staff, limited administrative responsibility in area of clinical chemistry. All qualified candidates welcome: minorities and women encouraged to apply. Send curriculum vitae and references to: Edward R. Arquilla, M.D., University of California, Irvine, Calif. 92717, by 15 September 1977.

CHAIRMAN, Department of Chemistry, University of Missouri—Columbia. Applications and nominations are invited for the position of chairman, Department of Chemistry. Candidates must have a distinguished research record and a commitment to continued research and teaching participation. The chairman is also responsible for providing leadership and fiscal direction for undergraduate and graduate teaching and research programs in chemistry. The department is housed in a well-equipped building completed in 1972. The University also includes schools of medicine, agriculture, and engineering, and has an enrollment of over 22,000 students. Facilities include an excellent library, a large research reactor, and a trace substances laboratory. Opportunities for collaborative research exist at state and federal research facilities located on or near campus. Inquiries, nominations, and applications should be directed to the address below and should be in the hands of the Search Committee by 15 September 1977. The appointment will begin August 1978. Dr. David E. Troutner, Chairman, Search Committee, Department of Chemistry, University of Missouri, Columbia, Missouri 65201. An Equal Opportunity/Affirmative Action Employer.

POSITIONS OPEN

BASIC AND CLINICAL PHARMACOLOGISTS

Positions in both basic and clinical pharmacology at the rank of assistant professor to associate professor are open in the newly formed Department of Pharmacology at Duke University. Applicants should send a curriculum vitae, a brief description of research plans, and the names of three people for references to: **Dr. Norman Kirshner, Chairman, Department of Pharmacology, Duke University, Durham, N.C. 27710.**

Duke University is an Equal Opportunity/Affirmative Action Employer.

CELL BIOLOGIST University of Guelph

Applications are invited for a faculty position in cell biology. Preference will be given to applicants in the field of immunogenetics, cell surface receptors, antibody synthesis, or eukaryote nucleic acid metabolism. The successful applicant will be expected to teach at both the undergraduate and graduate levels in the areas of cell biology and genetics and to carry on an active independent research program. Rank and salary negotiable.

Submit curriculum vitae, résumé of research, and names of three references to: **Chairman, Department of Botany and Genetics, College of Biological Science, University of Guelph, Guelph, Ontario, Canada N1G 2W1.**

CHAIRPERSONS: Departments of Medicine, Surgery, Pediatrics, Obstetrics/Gynecology, Psychiatry/Behavioral Sciences, and Family/Community Medicine. Closing date: 30 September 1977. Respond to: **Thomas J. Scully, M.D., Associate Dean for Academic Affairs, University of Nevada, Reno, School of Medical Sciences, Reno, Nev. 89557. Telephone: 702-784-6001. Affirmative Action/Equal Opportunity Employer.**

CHAIRPERSON-BIOLOGY

Applications are invited for the position of chairperson of the Department of Biological Sciences, Wichita State University. The university is located in a metropolitan area of nearly 400,000 people and enrolls more than 15,000 students. The department, with 16 full-time faculty, is housed in a new building and offers the B.A., B.S., and M.S. degrees. There are approximately 210 majors and 36 graduate students.

Candidates should have the Ph.D., experience in university teaching, a strong record of scholarly achievement, and evidence of or potential for academic and administrative leadership. Rank and salary will be commensurate with qualifications.

Send letter of interest, curriculum vitae, and names of at least three references by 16 September 1977 to:

**Chairperson, Selection Committee
Department of Biological Sciences
Wichita State University
Wichita, Kansas 67208**

Wichita State University is an Affirmative Action Employer and operates under affirmative action policy. Applications from minority persons and women are encouraged.

EXECUTIVE DIRECTOR

The Commission on Natural Resources (CNR) of the National Academy of Sciences/National Research Council is seeking an executive director to manage a complex organization that conducts studies advisory to the government on national policy issues relating to natural resources and environmental quality. The CNR oversees the work of three boards on: agriculture and renewable resources, environmental studies, and mineral and energy resources, as well as selected special projects. The study programs are performed by committees of experts facilitated by about 30 permanent professional staff members. Candidates, preferably, should be professionals from fields within the natural sciences or engineering, with a Ph.D. degree. Substantial leadership experience in scientific research, the administrative management of research and analysis programs, and the utilization of technical advice in policy formation and decision-making is required. Familiarity with government agencies, and with grant and contract matters is desirable. Applicants should send résumé to: **Dr. Robert W. Johnston, Associate Executive Officer, National Academy of Sciences, 2101 Constitution Ave., NW, Washington, D.C. 20418.**

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POSITIONS OPEN

CHAIRPERSON, DEPARTMENT OF OPHTHALMOLOGY

Rush-Presbyterian-St. Luke's Medical Center and Rush Medical College invite applicants for the position of chairperson of the Department of Ophthalmology. The appropriate individual should be capable of providing clinical and academic leadership in the reorganization and development of the department. Send curriculum vitae to: **Dr. Steven G. Economou, Chairman, Search Committee for Chairperson in Ophthalmology, Rush Medical Center, 1753 West Congress Parkway, Chicago, Illinois 60612. Rush-Presbyterian-St. Luke's Medical Center is an Equal Opportunity/Affirmative Action Employer.**

EM LABORATORY TECHNICIAN

Fully trained and experienced in basic techniques of tissue preparation for TEM. Must be proficient in ultrathin sectioning. Salary from \$10,000 to \$12,000 per year, depending on qualifications. Write: **Dr. Greta E. Tyson, Head, Electron Microscope Center, Drawer EM, Mississippi State University, Mississippi State, Miss. 39762.**

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

FACULTY POSITION: PHARMACOLOGY

Applications are invited for one position at the rank of assistant professor starting spring 1978 or fall 1978. Preference will be given to candidates who have had recent postdoctoral training and research accomplishments. Teaching responsibilities include participation in medical school courses, undergraduate paramedical courses, and graduate courses. The applicants will be expected to develop an active research program and to direct graduate students. The Université de Montréal is a French-speaking institution. Therefore, a working knowledge of spoken French is required. Please send a curriculum vitae and the names of three references to:

**Dr. Gabriel L. Plaa, Directeur
Département de Pharmacologie
Faculté de Médecine
Université de Montréal
C.P. 6128
Montréal, Québec, Canada**

FACULTY POSITIONS IN MICROBIOLOGY POSTDOCTORAL FELLOWSHIPS IN IMMUNOLOGY

Academic openings in medical microbiology, bacterial physiology, virology, immunology, and related disciplines. Send résumé and three letters of reference to: **Dr. David Eidinger, Chairman, Department of Microbiology, University of Saskatchewan, Saskatoon, Saskatchewan, Canada.**

FACULTY POSITIONS AVAILABLE

TRANSPLANTATION IMMUNOLOGIST to direct Histocompatibility Laboratory and conduct research on transplant rejection. Teaching responsibilities minimal. Must have experience in HLA typing, MLR. Administrative capability necessary. Salary and position dependent on experience, nontenured.

TUMOR IMMUNOBIOLOGIST. Research position, should have postdoctoral experience in cellular and humoral immunology, immunogenetics. Salary dependent on experience.

Send letters of inquiry to: **Dr. E. G. Reisner, Box 3010, Division of Immunology, Duke University Medical Center, Durham, N.C. 27710.**

An Equal Opportunity/Affirmative Action Employer

FISH POPULATION BIOLOGIST

Research position: applications are invited from fish population biologists with training in the population dynamics of fishes; experience with coastal marine species is particularly desirable. Position is as a member of a team evaluating effects on marine biota of heated effluents from a power plant in San Diego County, California. This is an independent study funded by the California Coastal Zone Conservation Commission. Position open as of 1 October 1977. Salary and rank commensurate with qualifications and experience. Applications with curriculum vitae and details of training and experience in research should be sent to: **Dr. Joseph H. Connell, Chairman, Marine Review Committee, Department of Biological Sciences, University of California, Santa Barbara, Calif. 93106.** Applications must be received before 15 September 1977.

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LAWRENCE BERKELEY LABORATORY University of California Energy & Environment Division

has undertaken responsibilities for the ERDA Conservation Division in the management and technical support of an RD and D Program on Energy Efficient Building Envelopes and Ventilation Systems. The laboratory responsibilities include long-range program planning, program management, in-house research, technical monitoring and coordination of both on-going and new projects, and the administration and management of subcontracts with other government agencies and the private sector. The in-house R and D program will focus on improved building envelopes, i.e. walls, roofs, attics, and windows; on improved ventilation systems; and on ventilation requirements for the maintenance of indoor air quality. Buildings with these improved envelopes will require a careful assessment of the ventilation requirements and an R and D program in this area is already underway. A major part of the program will be directed toward field demonstrations of the ways in which buildings in several regions of the U.S. will be retrofitted to improve energy efficiency and maintain acceptable indoor air quality. Substantial efforts are anticipated in the instrumentation and analysis of these demonstrations.

Continuing opportunities exist in the following disciplines. Ph.D. or equivalent experience in relevant fields is preferred.

- Architecture
- Chemistry
- Physics
- Toxicology
- Computer Sciences
- Epidemiology
- Mechanical Engineering

Submit resumes to:

**Florence Flint
(Personnel Dept.)
One Cyclotron Road
Berkeley, CA 94720**

Equal Opportunity/Affirmative Action

LAWRENCE BERKELEY LABORATORY

An Equal Opportunity Employer

DEAN GRADUATE SCHOOL OF BIOMEDICAL SCIENCES

A School of The University of Texas Health Science Center at Houston

Candidates are sought for the position of Dean of the Graduate School of Biomedical Sciences (GSBS) established in 1963 in recognition of the unique resources in the Texas Medical Center for research and research training in the biomedical sciences. The faculty of the graduate school is drawn from The University of Texas Medical School, The Dental Branch, School of Public Health, Graduate School, and the University of Texas System Cancer Center M.D. Anderson Hospital and Tumor Institute. Inter-institutional, faculty groups related in educational and research interests have been organized in biochemistry, biomathematics, biophysics and medical physics, cell biology, molecular biology, human genetics, pathology, physiology and reproductive biology, pharmacology, and neurosciences. The diverse faculty with broad multidisciplinary interests creates unusually broad research and educational opportunities. The dean acts as chief administrator of the graduate faculty and has the opportunity to play an important and creative role in the growth and development of the programs within the Health Science Center and the System Cancer Center.

Individuals seeking the position should have an extensive and broad knowledge of the biomedical sciences, their current status, and future prospects. A recognized record of creative and significant research contributions and academic achievement plus demonstrated administrative and leadership abilities are desirable.

Those interested should send a résumé to: **Dr. John A. DeMoss, Chairman, Search Committee, The University of Texas Medical School at Houston, Department of Biochemistry, P.O. Box 20708, Houston, Texas 77025. Equal Opportunity/Affirmative Action Employer.**

POSITIONS OPEN

GENERAL MICROBIOLOGIST (LABORATORY SPECIALIST)

Minimum requirements: B.S. in microbiology, prefer M.S. in microbiology or B.S. plus M.T. board certification in bacteriology, with teaching and supervisory experience. Primary duties: (i) to assist and supervise two laboratory technicians in operating the prep room for all microbiology teaching labs, (ii) to maintain a culture collection and prepare cultures for teaching labs, and (iii) to assist faculty in maintaining high instructional quality and developing effective teaching aids in our rapidly growing microbiology program. Annual salary beginning at \$9600 plus state benefits. For application form contact: **Pamela R. McLaughlin, Personnel, 324 Burruss, Virginia Polytechnic Institute and State University, Blacksburg, Virginia 24061; telephone: 703-951-5301. An Equal Opportunity/Affirmative Action Employer.**

The Hellenic Anticancer Institute invites applications for research appointments as **DEPARTMENT HEADS** in the areas listed below:

**Epidemiology
Biochemistry
Virology
Cell physiology
Immunology
Genetics
Experimental surgery**

Applications are also invited for **RESEARCH FELLOWS** in the following posts:

**Biostatistics
Electron microscopy
Pathology
Animal supply-Veterinarian**

Applicants must have proven experience in cancer research and ability of developing their own research program in the corresponding field, a summary of which must accompany the application.

Applications and detailed curriculum vitae including names of three references to arrive not later than 30 September 1977 should be addressed to:

**Hellenic Anticancer Institute
171 Alexandras Avenue
Athens, Greece**

HEALTH SCIENTIST

With project management experience to direct epidemiologically oriented study of the effects of industrial pollution on community diseases. Clinical/epidemiology research design experience desirable. Send résumés to **M. L. Bradley, Enviro Control, Inc., 11300 Rockville Pike, Rockville, Maryland 20852.**

An Affirmative Action/Equal Opportunity Employer

HISTOLOGY/EXPERIMENTAL PATHOLOGY

The Department of Oral Medicine and Hospital Dentistry, School of Dentistry, University of California, San Francisco, is seeking a full-time faculty member at the assistant professor level. Responsibilities will include teaching in the dental and dental hygiene curricula, in dental specialty programs, and to graduate students. A dental/medical degree and/or a Ph.D. in anatomy, cell biology, oral biology or pathology required. A demonstrated ability to conduct research is essential, preferably in immunopathology. This position will be available 1 October 1977. Applications must be received by 31 August 1977. *The University is an Equal Opportunity/Affirmative Action Employer. Women and minorities are encouraged to apply.* Send curriculum vitae to: **Professor John S. Greenspan, Department of Oral Medicine and Hospital Dentistry, School of Dentistry, University of California, San Francisco, Calif. 94143.**

THE UNIVERSITY OF MICHIGAN Department of Psychiatry Instructor or Assistant Professor

Two faculty positions available in the Department of Psychiatry. Qualifications include successful completion of an APA-approved clinical Ph.D. program and internship and experience in the practice and supervision of dynamically oriented individual treatment and diagnosis of children and adolescents. Experience or a strong interest in neuropsychological assessment is necessary. Teaching and supervision of residents, psychology interns, medical students and others, plus programmatic research over a wide range of areas. Send résumé to: **Box 317, SCIENCE, Code 500F0, 1000F0 and 2000B0. A Nondiscriminatory, Affirmative Action Employer.**

POSITIONS OPEN

A position is available immediately for an **HISTOLOGIST** with experience in photomicrography, biological illustration, basic statistics, and preferably computer programming. Some training in pathology would be useful. The position is for 1 to 3 years at a base salary of \$10,000 plus benefits. It entails evaluating selected avian tissues. Send curriculum vitae, transcripts, and three letters of recommendation to: **Dr. Michael D. Kern, Department of Biology, The College of Wooster, Wooster, Ohio 44691. The College is an Equal Opportunity/Affirmative Action Employer.**

HUMAN GENETICIST: to teach and conduct research in human genetics. Ph.D. or equivalent academic degree. Assistant professor level. Position open immediately. Apply with curriculum vitae including research interests and names of three references on or before 15 October 1977 to:

**M. M. Green
Department of Genetics
University of California
Davis, Calif. 95616**

An Equal Opportunity Employer

DEPARTMENT OF ENTOMOLOGY MICHIGAN STATE UNIVERSITY

INSECT TOXICOLOGIST. Ph.D. Research (75 percent) on toxicological principles of insecticide action in target and nontarget species; candidate with interest in environmental toxicology preferred. Instruction (25 percent) of basic and specialized insect toxicology. Appointee will be a participant in the interdisciplinary Pesticide Research Center.

APPLIED INSECT ECOLOGIST. Ph.D. Research (60 percent) and extension (40 percent) in biology, dynamics, and management of insects in the vegetable ecosystem. Appointee will have opportunity to join interdisciplinary team studying design and management of agroecosystems.

These assistant or associate professor, tenure-track, positions are available 1 October 1977. Send résumé, statement of research interests, transcripts, reprints, and three letters of reference by 1 September 1977 to: **James Bath, Department of Entomology, Michigan State University, East Lansing, Michigan 48824. An Equal Opportunity/Affirmative Action Employer.**

INSTRUCTOR/ENABLER

Physical sciences degree, physics/chemistry background. Ability to interact creatively with children in exciting atmosphere. New York City child-oriented institution. At least 2 years' experience teaching elementary and junior high school age children. \$8977 plus liberal benefits. *An Equal Opportunity Employer.* Write to: **Box 316, SCIENCE.**

MARINE CHEMIST-POSTDOCTORAL FELLOW. Immediate opening. The successful candidate will have a major role in a study: the fate and effects of hydrocarbons entering Port Valdez, Alaska. Experience in trace hydrocarbon analysis, gas chromatography, or chemical oceanography is highly desirable. To be considered, submit résumé and two letters of reference to: **Dr. D. G. Shaw, Institute of Marine Science, University of Alaska, Fairbanks, Alaska 99701.**

MICROBIOLOGIST, Manager Sterility Testing Laboratory, supervise, train, schedule personnel; aseptic handling wide variety medical devices for USP sterility testing; all techniques including fluid path, membrane filter, biological indicators, inoculation products; bioburden, bacteriostasis, D-values, death curves, organism speciation; Clean Room maintenance, media prep, QC, GLP, and SOP. Strong client communications. Supervise eight to ten technical and support personnel. Rapidly growing independent laboratory, Toledo, Ohio. Send detailed résumé with salary history to: **Director of Professional Personnel, North American Science Associates, 2261 Tracy Road, Northwood, Ohio 43619.**

POSTDOCTORAL POSITION: geophysical fluid dynamicist to collaborate on thermal and mechanical modeling of terrestrial planetary interiors. Must have extensive knowledge of numerical, finite-difference and finite-element computational methods and basic interests in thermal convection. Send curriculum vitae and names of three references to: **Dr. Gerald Schubert, Department of Earth and Space Sciences, University of California, Los Angeles 90024. The University of California at Los Angeles is an Equal Opportunity/Affirmative Action Employer.**

POSITIONS OPEN

IMMEDIATE OPENING: NONTERRESTRIAL MATERIALS/ INDUSTRIAL SPACE PROCESSING

One postdoctoral or senior Ph.D. position for a chemical engineer available for engineering planning and research of in-space processing of raw materials (lunar and asteroidal) into industrial feedstock. The appointment is for 1 year, and the position is available now. Applications (with references and short description of interest) should be submitted to:

**Dr. David Criswell
Lunar Science Institute
3303 NASA Road One
Houston, Texas 77058
Telephone: 713-488-5200**

NUTRITIONIST

Nutrition science position available 1 September at an assistant/associate professor level, depending on qualifications. Ph.D. in nutrition or a related science required. Evidence of research competence and experience in teaching preferable. Position responsibilities: (i) teaching graduate courses in **nutrition biochemistry**, (ii) student advising at Ph.D. level in **nutrition**, and (iii) developing a research program and/or participating in research activities in areas of **human nutrition** such as metabolic response to nutrition, interaction between nutrition and human health, effects of food technology on food quality. Salary competitive and dependent on qualifications and experience. Applications, including curriculum vitae, reprints, and three letters of recommendation should be sent to:

**Dr. G. Brisson, Chairman
"Programme de Doctorat en Nutrition"
Nutrition Research Center
Université Laval
Cité Universitaire
Ste-Foy, Québec, Canada G1K 7P4**

OCCUPATIONAL MEDICINE, HEAD OF DIVISION, with primary responsibility for training in occupational medicine. Medical and public health background with 5 to 10 years of combined academic and applied experience in occupational and preventive medicine. Broad leadership ability in scientific, administrative, and educational areas.

Write: **Chairman, Department of Environmental Health Sciences, Johns Hopkins School of Hygiene and Public Health, 615 North Wolfe Street, Baltimore, Md. 21205,** and include professional credentials and accomplishments. *All interested persons are encouraged to apply.*

PLANT VIROLOGIST

Assistant or associate professor level. Full-time research with responsibility on virus diseases of grapes and tree fruit crops. Development of an aligned basic research program is expected. Ph.D. in plant pathology required. Applications accepted to 1 October or until position is filled. Send curriculum vitae and four letters of reference to: **J. E. Hunter, Head, Department of Plant Pathology, New York State Agricultural Experiment Station, Geneva, N.Y. 14456. Cornell University is committed to an Affirmative Action Program.**

POSTDOCTORAL POSITION

Applications are invited from individuals having a biochemical or chemical background desiring training in the following areas: (i) ionophore mediated divalent cation transport, (ii) mitochondrial Ca^{2+} metabolism, and (iii) mitochondrial lipid metabolism. Appointment for 1 year, renewable; stipend of \$12,264 negotiable, depending on experience. Early starting date possible. Send curriculum vitae and three letters of reference to: **Dr. Douglas R. Pfeiffer, The Hormel Institute, University of Minnesota, 801 16th Avenue NE, Austin, Minn. 55912. The University of Minnesota is an Equal Opportunity Educator and Employer.**

POSTDOCTORAL POSITION IN REPRODUCTIVE BIOLOGY. Available summer 1977. To work on mechanisms of mucus production by mammalian endocervical cells in vitro. Preference given to applicants with experience or interest in cell isolation and culture, in glycoprotein biochemistry, and in radioisotopic techniques. Send curriculum vitae and letters of reference to: **Dr. S. V. Nicosia, Division of Reproductive Biology, Department of Obstetrics and Gynecology, University of Pennsylvania School of Medicine, Philadelphia, Pennsylvania 19104.**

**DEPARTMENT OF AGRICULTURE
WESTERN AUSTRALIA
SORGHUM AGRONOMIST-KUNUNURRA, W.A.
(CONTRACT POSITION-3 YEARS)**

SALARY: Within the range A\$13,952 to A\$15,224 per annum, depending upon experience plus district allowance A\$1,701 married, A\$851 single, per annum.

QUALIFICATIONS: University degree in agricultural science or approved equivalent. Experience in research with sorghum and other crops under tropical conditions is essential. Preference will be given to applicants with experience in research under irrigation conditions.

DUTIES: To conduct a field research program into aspects of growing sorghum and other crops in the Ord River Irrigation Area of the northwest of Western Australia. Fertilizer-use efficiency will require particular emphasis. The successful applicant will be required to collaborate with other agronomists in developing an efficient land-use system on the irrigated soils.

GENERAL: Kununurra is located in the northwest of Western Australia approximately 2750 kilometers by air from Perth and 100 kilometers inland from Wyndham on the Ord River. Successful applicant will be provided with a three-bedroom, partially furnished house on rental basis. Reasonable amount allowed for transport of married appointee and dependent family from present location to Kununurra. Single person would receive assistance in the form of fares only. Five-weeks annual leave, free return travel pass Kununurra to Perth each 12 months for annual leave, cumulative sick leave.

APPLICATIONS: In writing, giving full details of academic qualifications, previous experience, and enclosing two copies of recent references to:

**Director of Agriculture
Department of Agriculture
Jarrah Road
South Perth 6151
Western Australia**

as soon as possible.

COMMUNIQUÉ

A competition of scientific works, destined to encourage the study of the evolution of the Universe and of its consequences on our planet has recently been created under the name:

Louis Jacot Prize

This prize is of the value of:

150,000 French Francs
of which the first prize is of the value
of 50,000 Francs.

The jury is chaired by Mr. Pierre AIGRIN, and has as members Messrs. Robert CLARKE, Jean-François DENISSE, Jacques LABEYRIE, Xavier LE PICHON, Jacques LEVY, LICHNEROWICZ, Jean-Claude PECKER and Ichtiak RASOOL.

**All submissions must be made before
31 December 1977**

Do not make any submission without full knowledge of the rules governing the competition.

These are to be obtained on simple demand addressed to the
FONDATION LOUIS JACOT, Éditions de la Pensée Universelle,
3 bis, quai aux Fleurs, 75004 PARIS FRANCE.

GROUP LEADER IN METABOLISM AND DOSIMETRY

The newly organized Health and Safety Research Division of Oak Ridge National Laboratory is seeking an individual with established credentials and leadership potential to head an expanding interdisciplinary group in the area of metabolism and dosimetry. A candidate should hold a doctorate and/or have broad experience in one or more of the following areas: biostatistics, biophysics, biochemistry, toxicology, radiation biology, and radiation dosimetry. Position duties include interaction with committees for radiation protection (NCRP and ICRP) and federal regulatory and funding agencies. The program will involve increasing emphasis on dosimetry of chemicals and nonnuclear pollutants.

ADDITIONAL POSITIONS

Positions are also available in the Metabolism and Dosimetry, Health Effects and Epidemiology, Assessment Methodology Development and Evaluations, Assessment Applications, and Off-Site Pollutant Measurements Groups of the Health and Safety Research Division of Oak Ridge National Laboratory for candidates with a Ph.D. or equivalent experience in one or more of the following areas: biostatistics, epidemiology, radiation dosimetry, biophysics, physiology, radiation physics, nuclear engineering, radiobiology, and health physics.

Résumés and letters referring to this notice should be sent to: **E. M. Vendley, Employment Department, Oak Ridge National Laboratory, P.O. Box X, Oak Ridge, Tennessee 37830.** The Oak Ridge National Laboratory, operated by Union Carbide Corporation-Nuclear Division, is an Equal Opportunity/

Affirmative Action Employer.



ANTICIPATED FACULTY POSITIONS

The College of Medicine The University of South Florida

Vacancies are available during the 1977-78 academic year for full-time and part-time faculty in the following departments:

Department	Chairperson
Anatomy	Dr. Norman Schnitzlein
Biochemistry	Dr. Joseph Cory
Comprehensive Medicine	Dr. William Sodeman (Acting)
Family Medicine	Dr. Roland Blankenbaker
Internal Medicine	Dr. Roy Behnke
Medical Microbiology	Dr. Charles Fishel
Obstetrics/Gynecology	Dr. James Ingram
Ophthalmology	Dr. William Edwards
Pathology	Dr. Sherman Bloom (Acting)
Pediatrics	Dr. Lewis Barness
Pharmacology	Dr. Andor Szentivanyi
Physiology	Dr. Carleton Baker
Psychiatry	Dr. Anthony Reading
Radiology	Dr. Arthur Graham
Surgery	Dr. Roger Sherman

Applications should include curriculum vitae addressed to: the appropriate chairperson at the Medical Center, College of Medicine, 12901 North 30th Street, University of South Florida, Tampa, Fla. 33612.

The University of South Florida is an Affirmative Action Employer.

POSITIONS OPEN

PATHOLOGIST

University of Connecticut Health Center, Farmington, position of **director of anatomical service**, Department of Pathology. Position involves responsibility for surgical and autopsy pathology and diagnostic EM service. Applicant must be Board-certified (AP). There is an active residency program in anatomic pathology with special emphasis in immunopathology. Clinical facilities include a 220-bed university hospital. A junior position is also open. Appointments are made by the University of Connecticut School of Medicine. *An Affirmative Action/Equal Employment Opportunity Employer.* Please submit résumé and references to: **Peter A. Ward, M.D., Professor and Chairman, Department of Pathology, University of Connecticut Health Center, Farmington, Conn. 06032.**

CLEVELAND CHIROPRACTIC COLLEGES OF KANSAS CITY AND LOS ANGELES

Applications are invited for several full-time positions in the following departments:

ANATOMY: teaching responsibilities in either gross anatomy, neuroanatomy, or histology.

MICROBIOLOGY: teaching responsibilities in organic and biochemistry, and nutrition.

CHEMISTRY: teaching responsibilities in organic and biochemistry, and nutrition.

PHYSIOLOGY: teaching responsibilities in physiology.

Openings are available immediately to all qualified individuals. Send references and recommendations to:

**Cleveland Chiropractic College
6401 Rockhill Road
Kansas City, Missouri 64131
Attention: Academic Dean**

**Cleveland Chiropractic College
590 North Vermont Avenue
Los Angeles, California 90004
Attention: Academic Dean**

POSTDOCTORAL POSITION

Available immediately (\$10,000 per year) for individual interested in hormonal control of metabolism. An earned doctorate in pharmacology, biochemistry, or some related area required. Experience in cyclic nucleotide research preferred. Send curriculum vitae and two references to: **Dr. D. O. Allen, Department of Pharmacology, School of Medicine, University of South Carolina, Columbia, S.C. 29208.**

POSTDOCTORAL POSITION—Isolation and characterization of venom components. Available immediately. One- or 2-year appointment. Recent Ph.D. with biochemical and/or physiological expertise preferred. Send résumé and two references to: **Dr. Collis R. Geren, Department of Chemistry, University of Arkansas, Fayetteville, Arkansas 72701. The University of Arkansas is an Equal Opportunity/Affirmative Action Employer.**

POSTDOCTORAL POSITION available to explore and develop separation and purification techniques with the ultimate goal being application to the preparation of steroid hormone-containing tissue extracts for ultra low-level analysis by GC-MS and/or radioimmunoassay. Candidate must have a major in chemistry with a minor in biochemistry or vice versa. In addition, the candidate must have a strong background in physical chemistry and mathematics and be conversant with separation techniques and instrumentation. Stipend is \$11,500 with good benefits and position is potentially renewable. Send résumé and names of three references to: **Dr. Enrico Forchielli, Institute of Biological Sciences, Syntex Research, 3401 Hillview Avenue, Palo Alto, Calif. 94304. An Equal Opportunity/Affirmative Action Employer**

POSTDOCTORAL POSITION available immediately. Research area in lipoprotein metabolism with major emphasis on apoproteins. Strong background in biochemistry—experience in protein chemistry, isolation, and purification is helpful. Ph.D. with some postdoctoral experience or recent Ph.D. Apply with curriculum vitae and references to: **Dr. Paul S. Roheim, Department of Physiology, Louisiana State University Medical Center, Building 112, 1100 Florida Avenue, New Orleans, Louisiana 70119.**

POSITIONS OPEN

POSTDOCTORAL POSITION available 1 September 1977. Isolation and sequencing of mRNA and recombinant DNA. Salary \$12,000 and fringe benefits. Send résumé and two references to: **Dr. K. Itakura, Ph.D., Biology Department, City of Hope National Medical Center, Duarte, Calif. 91010.**

POSTDOCTORAL POSITION open for nutritionist to work on animal behavioral models for detection of food contaminants.

Send résumé to:

**Dr. Robert L. Squibb
Rutgers University
39 Easton Avenue
New Brunswick, N.J. 08903**

POSTDOCTORAL POSITION

Available fall 1977 for recent Ph.D. to do research in the biochemistry and ultrastructure of cell movement and adhesion in tissue culture and embryonic cells. Send curriculum vitae and names of three references to:

**Dr. Howard Gershman
Department of Biochemistry
Case Western Reserve University
Cleveland, Ohio 44106**

POSTDOCTORAL POSITION available immediately to study endocrine control of lipid and lipoprotein metabolism. Studies include both basic and clinical research. Send curriculum vitae and two reference letters to:

**Dr. Herbert K. Naito
Department of Atherosclerosis and
Thrombosis Research
Division of Research
The Cleveland Clinic Foundation
Cleveland, Ohio 44106**

POSTDOCTORAL POSITION: metabolism of drugs and chemical carcinogens. Available 1 October 1977 or after. Send résumé to: **Uniformed Services University of the Health Sciences, Dr. K. Yang, Department of Pharmacology, 6917 Arlington Road, Bethesda, Md. 20014.**

POSTDOCTORAL POSITION. Chemical mutagenesis, genetics of DNA repair, and/or molecular characterization of DNA synthesis and repair during growth and development of the cellular slime mold, *D. discoideum*. One to 2½ years. Up to \$12,000 per year, plus benefits. Send curriculum vitae and names of three references to: **Dr. R. A. Deering, Biochemistry and Biophysics, 618 Life Sciences, Pennsylvania State University, University Park, Pa. 16802. Affirmative Action/Equal Opportunity Employer.**

POSTDOCTORAL POSITION available immediately. To study enzyme expression and turnover in mammalian cells as regulated by hormones, metabolites, and cell-cell interactions. Ph.D. in biochemistry with training in mammalian cell culture and/or enzymology helpful. Send curriculum vitae and the names of three references to: **Dr. Ross Shiman, Department of Biological Chemistry, The Milton S. Eshel Medical Center, The Pennsylvania State University, Hershey, Pennsylvania 17033. An Equal Opportunity Employer.**

POSTDOCTORAL RESEARCH

Ph.D. with emphasis in soil chemistry or physics and an interest in soil microarthropods to work on a desert ecosystem study. Position available after 1 September 1977. Send curriculum vitae to: **Dr. Walter G. Whitford, Biology Department, New Mexico State University, Las Cruces, N.M. 88001. New Mexico State University is an Equal Opportunity/Affirmative Action Employer.**

POSTDOCTORAL RESEARCH ASSISTANT in Department of Medicine, 9 a.m. to 5 p.m. Qualified individual with experience in immunology, cell membrane study and cell culture is needed. Ph.D. should be trained in biochemistry. Apply to: **Personnel Department, ST. LUKE'S HOSPITAL CENTER, Amsterdam Avenue and West 113th Street, New York, N.Y. 10025. An Equal Opportunity Employer, M/F.**

POSITIONS OPEN

POSTDOCTORAL RESEARCH ASSOCIATE, 2-year appointment. To purify and characterize blood coagulation factors. Experience in protein or membrane biochemistry desirable. Salary negotiable. *Yale University is an Affirmative Action/Equal Opportunity Employer.* Reply to:

**Dr. Frances Ann Pittlick or Dr. William Konigsberg
Department of Molecular Biophysics
and Biochemistry
Yale University
333 Cedar Street
New Haven, Conn. 06510**

POSTDOCTORATE IN RUMINANT NUTRITION (with emphasis toward beef cattle)

Duties: Research in one or more of the following areas: (i) processing of corn stover—ammonia-high-pressure steam; (ii) preservatives for silages and "wet" hay or grains; (iii) evaluation of single-cell protein produced from wastes.

Availability: 1 September 1977 (1-year term with possibility of a 2-year term).

Salary: \$14,000 per annum.

Interested persons are requested to send résumé, transcripts, and three references to: **Dr. D. N. Mowat, Department of Animal and Poultry Science, Ontario Agricultural College, University of Guelph, Guelph, Ontario, Canada N1G 2W1.**

Stanford University School of Medicine invites the nomination or application of candidates for the position of **Professor and Chairman** of the Department of Medicine and physician-in-chief of the Stanford University Medical Center. *Stanford University is an Equal Opportunity Employer and welcomes nominations of women and minority group members and applications from them.* Interested candidates should send curriculum vitae and supporting documents to: **Irving Schulman, M.D., Chairman, Department of Pediatrics, Stanford University Medical Center, Stanford, Calif. 94305.**

RESEARCH ASSOCIATE. Position available fall 1977, for biochemist to conduct studies in connective tissue biochemistry. Applicant should have a Ph.D. with experience in protein chemistry. Salary negotiable. Send résumé and names of three references to: **Dr. William T. Butler, Institute of Dental Research, University of Alabama in Birmingham, Birmingham, Alabama 35294. An Equal Opportunity/Affirmative Action Employer.**

RESEARCH ASSOCIATE

A 1- to 2-year appointment for a Ph.D. trained in the biochemistry and physiology of pituitary hormones, including their isolation and assay methodology.

We have an intellectually stimulating environment and well-equipped laboratories. Salary commensurate with experience and training, and liberal benefits.

For immediate consideration send résumé and references to:

**John F. McGough
Manager-Personnel
Research and Development
SANDOZ, Inc.
Route 10
East Hanover, New Jersey 07936**

RESEARCH ASSOCIATE POSITION

Qualifications: (i) 2 years of experience in encapsulation of miniature implantable electronic devices using biocompatible polymers; (ii) 2 years of experience in design and development of digital electronic equipment involving applications in the field of telemetry and stochastic-ergodic signal-processing systems.

Responsibilities: to design and develop digitally encoded multichannel miniature implantable telemetry systems. To design and develop a digital autocorrelator for applications in laser light-scattering spectroscopy. To implement reliable methods for encapsulation of implantable telemetry devices using biocompatible polymers. Salary negotiable according to qualifications. Send résumé and three letters of recommendation to: **Professor Richard J. Blandau, Department of Biological Structure, University of Washington, Seattle, Washington 98195.**

We are an Equal Opportunity and Affirmative Action Employer.

POSITIONS OPEN

RESEARCH ASSOCIATE position available immediately in muscle protein chemistry. Project involves structure-function relationships of cardiac regulatory proteins. Ph.D. in biochemistry or chemistry. Salary \$12,700 per year, subject to renewal. Send résumé and names of three references to: **Dr. Marion Greaser, Muscle Biology Laboratory, University of Wisconsin, Madison, Wisconsin 53706.** An Equal Opportunity/Affirmative Action Employer.

RESEARCH ASSOCIATE

Postdoctoral position to study the inheritance and expression of endogenous avian RNA tumor viruses is immediately available in the laboratory of Dr. Harriet Robinson. A recent Ph.D. with a background in molecular biology or genetics and an interest in the organization and control of gene expression is preferred. Send résumé and request three references to: **Personnel Office, Worcester Foundation for Experimental Biology, 222 Maple Avenue, Shrewsbury, Mass. 01545.**

An Equal Opportunity/Affirmative Action Employer

RESEARCH ASSOCIATE position available immediately to study aspects of the enzymology or chemical mechanisms of bioactivation of toxic and carcinogenic materials. Ph.D. in biochemistry or related field. Send résumé and letters of reference to: **Dr. F. P. Guengerich, Department of Biochemistry and Center in Toxicology, Vanderbilt University, Nashville, Tenn. 37232.**

Wanted: **RESEARCH SPECIALIST IN IONOSPHERIC PHYSICS.** Salary \$22,000 per annum. Hours: 8 a.m. to 4:30 p.m. at Lexington, Mass. Requirements include advanced academic degree in physics (Ph.D. preferred), expertise in state-of-the-art techniques in systems configurations, space communication, thorough awareness of current literature related to ionospheric scintillations, and extensive publication in this field. Please send complete résumé including transcript and list of publications to: **Professor M. P. Hagan, Physics Research Division, Emmanuel College, 400 The Fenway, Boston, Mass. 02115.** Written correspondence will be sent to all respondents regarding acceptability.

CSIRO RESEARCH SCIENTIST DIVISION OF FISHERIES AND OCEANOGRAPHY CRONULLA, N.S.W.

CSIRO has a broad charter for research into primary and secondary industry areas. The organization has approximately 7000 employees, 2200 of whom are research and professional scientists, located in divisions and sections throughout Australia.

Field: BIOLOGICAL OCEANOGRAPHY.

GENERAL: The division is Australia's principal marine research institution with about 50 scientists investigating the fisheries resources and the physical, chemical, and biological features of the oceans and estuaries around Australia. Headquarters of the division are at Cronulla, Sydney, with regional laboratories in Perth, Brisbane, and Karumba. On-line access to a CYBER 76 computer is available at Cronulla. Seagoing facilities include two medium-sized chartered vessels and several smaller vessels. The appointee will be located in Cronulla but may be required to develop and supervise research at the regional laboratories in Brisbane and Perth.

The division wishes to revive a biological oceanography program which was terminated in the late 1960's because suitable vessels were no longer available at that time.

The appointee will join a marine ecosystems group containing specialists in primary and secondary production, detritus, sea grasses, and the ecology of phytoplankton, zooplankton, and epibenthos. This group is currently engaged in a major study on the interaction between energy flow, diversity and stress in estuarine ecosystems, and has a developing interest in coral-reef productivity.

DUTIES: To take a leading role in developing research programs in biological oceanography within an ecosystem context. To collaborate with physical and chemical oceanographers and other scientists in planning interdisciplinary oceanographic research programs on pelagic ecosystems and in planning and executing cruises in the Tasman and Coral seas. To develop a general knowledge of the crustacean zooplankton of the open ocean and specialist expertise in a particular group such as the euphausiids. To collaborate with colleagues studying shallow-water ecosystems in developing a general understanding of the structure and functioning of marine ecosystems.

QUALIFICATIONS: Ph.D. or equivalent qualifications with considerable experience in a relevant field of biological oceanography. Ability to work at sea must be a proven attribute.

SALARY: Senior research scientist A\$17,815 to A\$20,414 per annum, principal research scientist A\$21,185 to A\$24,047 per annum.

TENURE: Indefinite or fixed term.

Applications in writing, quoting reference number 320/581 should state full name, date and place of birth, details of qualifications and experience, and the names of at least two persons from whom an employment reference could be obtained, and should be sent to: **The Chief, Division of Fisheries and Oceanography, P.O. Box 21, Cronulla, N.S.W. 2230, Australia,** by 26 August 1977.

POSITIONS OPEN

RESEARCH BIOCHEMIST—Postdoctoral position to study biochemical mechanisms of taste and olfaction. Unique interdisciplinary research institute. Position available starting fall-winter 1977. Send curriculum vitae to: **Dr. Robert H. Cagan, Monell Chemical Senses Center, University of Pennsylvania, 3500 Market Street, Philadelphia, Pa. 19104.** An Equal Opportunity Employer.

SUPERVISORY OCEANOGRAPHER

Coast Guard Research and Development Center, functions as chief, Oceanography Branch. Conceives, plans, directs applied R & D programs in physical oceanography currently involved in oil spill movement prediction, iceberg drift and deterioration, probability of detection in Search and Rescue, and various polar programs including polar vessel information systems. Broad progressive education with advanced degrees in physical oceanography or equivalent experience is required as well as demonstrated or potential ability to direct professional and technical personnel in theoretical, laboratory, and field research. Experience in high-seas oceanography, instrumentation, computer data reduction, and computer modeling is preferred. Career Civil Service position. Salary \$28,725 to \$37,347. Submit SF-171, United States Employment Form, to: **R. MARTIN, Code SC, United States Coast Guard R & D Center, Avery Point, Groton, Conn. 06340.** Closing date: 15 September 1977. *Equal Opportunity Employer.*

SYSTEMATIC BOTANIST: California Academy of Sciences, Golden Gate Park, San Francisco, Calif. 94118. Curator-level position in the Department of Botany, to begin 1 January 1978. Qualifications include a Ph.D., demonstrated ability to conduct systematic research, and the interest and ability to assist in curating a major United States herbarium. Salary and rank depend on experience and qualifications. Send résumé and names of three individuals as references by 1 October 1977 to: **Dr. William N. Eschmeyer, Director of Research.** An Equal Opportunity Employer.

POSITIONS OPEN

RESEARCH SPECIALIST: postdoctoral position to study the surface distributions of polynuclear aromatic hydrocarbons on particulate matter and their cellular availability using fluorescence spectroscopy. Starting salary \$11,000. Application deadline: 1 September 1977. Send résumé and letters of recommendation to: **Dr. Joseph R. Lakowicz, Freshwater Biological Institute, University of Minnesota, P.O. Box 100, Navarre, Minn. 55392.** The University of Minnesota is an Equal Employment Opportunity/Affirmative Action Employer.

RESOURCE ECONOMIST in the Massachusetts Institute of Technology (MIT) Energy Laboratory to study and model supplies of primary energy resources (coal, oil, gas, and nuclear materials). Requires Ph.D. or equivalent in resource economics, training as a geologist/geophysicist, strong background in applied math and statistics. Please submit résumé to: **MIT Personnel Office, 400 Main Street, Cambridge, Mass. 02139.** Attention: Job No. R77-124. An Equal Opportunity/Affirmative Action Employer.

THE AUSTRALIAN NATIONAL UNIVERSITY invites applications for appointment as **SENIOR FELLOW OR FELLOW** in the Department of Developmental Biology, Research School of Biological Sciences. Applicants should have extensive research experience in cell biology, with special interests in investigating problems of differentiation and morphogenesis in plant cells and tissues, using techniques of electron microscopy in conjunction with other experimental approaches. The post will be in an existing group headed by Professor B. Gunning, and opportunities for collaboration in the group and with others in the school are good. Appointment for 5 years in first instance with provision for reappointment, after review, to retiring age. Salaries: senior fellow, A\$22,505 to A\$26,251 per annum; fellow, A\$16,742 to A\$22,473 per annum; exchange rate A\$1: U.S.\$1.10. Reasonable travel expenses; assistance with housing. Superannuation benefits available. Applications, including curriculum vitae and summary of proposed initial research program, should be forwarded to: **Academic Registrar, Australian National University, P.O. Box 4, Canberra, ACT, 2600, Australia,** no later than 9 September 1977.

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- ☐ \$58 Air-surface delivery via Holland
- ☐ **Subscriber rates**
- ☐ \$60 USA ☐ \$70 Canada, PUAS ☐ \$73 Foreign
- ☐ \$90 Air-surface delivery via Holland

- ☐ Payment enclosed ☐ Bill me later

Name Please print

Address

City State Zip

MRO8

**ATTACH
LABEL
HERE**

POSITIONS OPEN

RESEARCH PHYSICIAN (M.D.) for independent research in various subjects related to the membrane attack complex of complement. Minimum of 1 year additional training in biochemistry and 1 year experience in complement research is required. Applicant must be familiar with the purification of complement proteins, radiolabeling of proteins, two-dimensional electrophoresis, affinity chromatography, model membranes, and detergent-binding studies. Salary: \$21,000 per annum. Interested individuals submit curriculum vitae, list of publications, and three letters of reference by 9 September 1977, to: **John Oliver, Employment Development Department, 4235 National Avenue, San Diego, California 92113.** Advertisement paid for by the employer. *Equal Opportunity Employer.*

Opening for **SENIOR SCIENTIFIC PROGRAMMER/ANALYST.** Work entails programming a PDP-8E to perform real-time data acquisition and analysis and application of microprocessors to physiological measurements. Entails some design and fabrication of analog, digital, and hybrid circuits. M.S. in electrical or mechanical engineering required. Knowledge of physiological systems and techniques preferred. Salary \$10,000 to \$13,000 per annum, depending on qualifications. Send curriculum vitae and names of three references to: **Chairman, Department of Physiology and Biophysics, College of Medicine, University of Kentucky, Lexington, Kentucky 40506.**

Equal Opportunity/Affirmative Action Employer

TECHNICAL SPECIALIST

Electronic engineer for the Department of Physiology and Biophysics. Responsibilities include design, construction, and modification of apparatus; maintenance and troubleshooting; and limited instruction of graduate students. Reply to:

William G. Van der Kloot
Professor and Chairman
Department of Physiology and Biophysics
State University of New York at Stony Brook
Stony Brook, New York 11794

Equal Opportunity/Affirmative Action Employer

VETERINARIAN. Assistant professor, laboratory animal medicine. Duties: responsibility as campus veterinarian for animal health programs, supervisor clinical laboratory, teaching at graduate level, and opportunity for individual research. Qualifications: experience in laboratory animal medicine, preference given those having ACLAM certification or Board eligibility. Application deadline: 31 August 1977. Submit curriculum vitae and three references to: **Dr. Robert Allen, Chairman, Department of Laboratory Animal Medicine, Medical University of South Carolina, Charleston, S.C. 29401.** An Affirmative Action/Equal Opportunity Employer.

A faculty position exists at the senior level **VIROLOGIST/MICROBIOLOGIST.** Wright State University School of Medicine, for an experienced individual whose research interest and experience lie in medical virology or mechanisms of bacterial pathogenesis. Preference will be given to those who have demonstrated excellence in research and in the teaching of medical and graduate students.

The Department of Microbiology and Immunology participates in the training of medical and undergraduate students and is involved in interdisciplinary graduate programs.

The successful applicant will be appointed to the faculty of The School of Medicine and The College of Science and Engineering. Send curriculum vitae, brief statement of research plans, and three letters of recommendation to:

Nancy J. Bigley, Ph.D., Chairman/Program Director
Department of Microbiology and Immunology
Wright State University
Dayton, Ohio 45435

Applications received after 30 September, 1977 may not be considered.

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

FELLOWSHIPS

POSTDOCTORAL FELLOWSHIP in laboratory actively investigating relationship of platelet prostaglandin synthesis to hemostasis and thrombosis. Experience in related areas desirable. Start September 1977. Stipend \$10,000 to \$13,000, depending on experience. Send curriculum vitae and three letters of recommendation to: **Dr. M. J. Silver, Cardeza Foundation, Thomas Jefferson University, 1015 Walnut Street, Philadelphia, Pa. 19107.**

FELLOWSHIPS

PHS POSTDOCTORAL FELLOWSHIPS in health sciences and behavioral sciences. Applications invited from holders of Ph.D. degrees for research training in the area of alcohol and alcohol abuse in animal models and clinic populations. Interdisciplinary 2-year program. Applications accepted immediately. Send curriculum vitae, grade transcript, and letter detailing possible research interests to: **Marc A. Schuckit, M.D., Director, Alcoholism and Drug Abuse Institute, 3937 15th Avenue, NE, NL-15, Seattle, Wash. 98105.**

POSTDOCTORAL FELLOWSHIPS now available for 2-year training program in pulmonary biology and disease. Program is designed to provide the fellow (M.D. or Ph.D.) with an introduction to basic disciplines relevant to lung and comprehensive training and experience in a selected area of interest, such as biochemistry, biophysics, cell biology, ultrastructure, physiology, and clinical correlations. Submit curriculum vitae, research experience, and names of three references to: **Dr. Emile M. Scarpelli, Department of Pediatrics, Albert Einstein College of Medicine, 1300 Morris Park Avenue, Bronx, N.Y. 10461.**

POSTDOCTORAL FELLOWSHIPS IN NUTRITION and CARDIOVASCULAR DISEASE

Wide-range research training opportunities in the area of nutrition and nutritional biochemistry in relation to cardiovascular disease. Applicants should submit curriculum vitae, names of three references, and graduate/medical school transcripts to: **Dr. Robert P. Geyer, Chairman, Department of Nutrition, Harvard School of Public Health, 665 Huntington Avenue, Boston, Massachusetts 02115.**

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POSTDOCTORAL RESEARCH TRAINING FELLOWSHIPS IN SENSORY NEUROPHYSIOLOGY

Positions available 1 July 1978 under an NIH-National Research Service Institutional Award providing multidisciplinary training in audition, vision, somesthesia, motor systems, or the chemical senses. Initial appointment 1 year, renewable for 1 additional year. Candidates must be pursuing a career which includes, as an important component, research in sensory neurophysiology. Applicants should submit, by 30 September 1977, a letter outlining career plans, a curriculum vitae, and two letters of reference to: **J. E. Hind, Chairman, Department of Neurophysiology, University of Wisconsin Medical School, Room 283 Medical Sciences Building, Madison, Wisconsin 53706.** An Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL FELLOWSHIPS IN IMMUNOLOGY are available August 1978 through the Division of Immunology, Department of Microbiology and Immunology, Duke University Medical Center. Training is offered in cellular immunology, human immunogenetics, tumor immunology, cell surface immunochimistry, and clinical immunology. Fellowships are open to American citizens and foreign nationals with permanent United States resident visas holding the Ph.D., M.D., or equivalent degree who have had less than 3 years of postdoctoral experience. Send letters of inquiry to: **Dr. E. G. Reisner, Box 3010, Division of Immunology, Duke University Medical Center, Durham, N.C. 27710.**

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TRAINING PROGRAM IN REPRODUCTIVE BIOLOGY

Predoctoral and Postdoctoral Fellowships in Reproductive Biology

The University of Texas Medical School and Graduate School of Biomedical Sciences announce a multidisciplinary training program in reproductive biology sponsored by the National Institute of Child Health and Human Development. Training is provided at both the predoctoral and postdoctoral levels and encompasses faculty primarily from the Department of Reproductive Medicine and Biology. The primary area of research interest is male reproductive biology with a special emphasis upon testicular function.

Please send résumé (curriculum vitae) and three letters of recommendation to: **James P. Preslock, Ph.D., Program Director, Training Program in Reproductive Biology, Department of Reproductive Medicine and Biology, The University of Texas Medical School at Houston, P.O. Box 20708, Houston, Texas 77025.** An Equal Opportunity/Affirmative Action Employer.

FELLOWSHIPS

POSTDOCTORAL RESEARCH FELLOWSHIPS IN LIPOPROTEIN METABOLISM

Projects are available in apoprotein synthesis and lipoprotein production by gut and liver, in the development of immunoassays for apolipoproteins, and in studies of apoprotein immunology. Ph.D.'s in biochemistry with experience in appropriate techniques preferred. Send applications to: **Dr. Gustav Schonfeld, Washington University School of Medicine, 4566 Scott Avenue, St. Louis, Missouri 63110.**

COURSES

BIOLOGICAL ELECTRON MICROSCOPY FOR TECHNICIANS

A residential laboratory course will be offered by the **Marine Biological Laboratory**
Woods Hole, Massachusetts

4 to 9 December and, again, 11 to 16 December 1977.

These identical programs are intended primarily for technicians with some experience in electron microscopy who wish to add to their formal training and to explore broader aspects of the field. The courses also will be of value to inexperienced persons having some theoretical preparation but lacking laboratory practice. Personnel associated with anatomic pathology laboratories may benefit especially from the training provided. Enrollment will be limited to 12 to ensure each student extensive access to equipment and proper individual instruction. Detailed information and application materials may be obtained from: **the Director of Admissions, Marine Biological Laboratory, Woods Hole, Mass. 02543; telephone: 617-548-3705.** The Marine Biological Laboratory admits students of any race, color, and national or ethnic origin.

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PULMONARY RESEARCH POSITIONS

The National Institute of Environmental Health Sciences, National Institutes of Health, Public Health Service, invites applications for positions in various fields of pulmonary research. The NIEHS is establishing new laboratories for pulmonary function and toxicology. For this purpose it invites applications from senior as well as junior scientists with experience and interests in the following fields: pulmonary morphology and pathology, including morphometry and ultrastructure; pulmonary cell biology (in vivo and in vitro); pulmonary biochemistry; mucus, collagen and elastin biochemistry; pulmonary metabolism; pulmonary defense mechanisms; aerosol and particle toxicology; and carcinogenesis.

All positions require a Ph.D. or equivalent, preferably with post-doctoral experience and publications in one or more fields relevant to pulmonary research. The senior research positions require not only scientific excellence, but also leadership capabilities. The positions will be filled through career Civil Service or service fellowship appointments. Salaries will range from \$15,100 to \$26,500 per annum (\$19,700 to \$32,800 for M.D.), depending on qualifications. Letters of application with curriculum vitae, bibliography, and the names and addresses of two references should be mailed no later than September 6, to:

Penelope P. Gardner
Personnel Office, NIEHS
P.O. Box 12233, Dept. S
Research Triangle Park, N.C. 27709

An Equal Opportunity Employer M/F.

The University of Texas Medical Branch at Galveston ASSOCIATE DEANS School of Medicine



The UTMB School of Medicine is seeking candidates with a strong academic background for the following positions in the Office of the Dean of Medicine:

ASSOCIATE DEAN FOR CURRICULAR AFFAIRS
 ASSOCIATE DEAN FOR CONTINUING MEDICAL
 EDUCATION
 ASSOCIATE DEAN FOR GRADUATE MEDICAL
 EDUCATION

These positions will be available on August 31, 1977.

Preference will be given to individuals with demonstrated academic competence in educational administration in each of these areas. Qualified individuals with a strong interest in these areas but who do not have an administrative background are also encouraged to apply.

Applicants for the positions in Continuing Education and Graduate Education positions should possess a Doctor of Medicine degree, should be qualified in a medical specialty, preferably with specialty board certification, should be able to obtain a license to practice medicine in Texas, and should be a member of a medical faculty. Applicants for the position of Associate Dean for Curricular Affairs may possess either an M.D. or a Ph.D. in the basic medical sciences with experience in medical education.

UTMB provides excellent fringe benefits, and the salary will be commensurate with qualifications. Please send an up-to-date curriculum vitae to George T. Bryan, M.D., Dean of Medicine, The University of Texas Medical Branch, Galveston, Texas 77550. Applications will be received through August 31, 1977. We are an Affirmative Action/TITLE IX employer.

Message to 3 Ph.D. chemical scientists willing to consider a move to Kodak

One of you is a **PHYSICAL CHEMIST** who has done post-doctoral work in the biomedical field, is familiar with protein chemistry, and not too shy to reveal leadership potential. We want you to investigate the physical-chemical effects of various biological fluids on clinical methods of analysis.

The second is a **SURFACE CHEMIST** who as a post-doc (or possibly from industry) has published some stimulating experimental approaches to the colloid-chemical characterization of small-particle dispersions of inorganic solids and organic liquids, such as latices or oil/water emulsions.

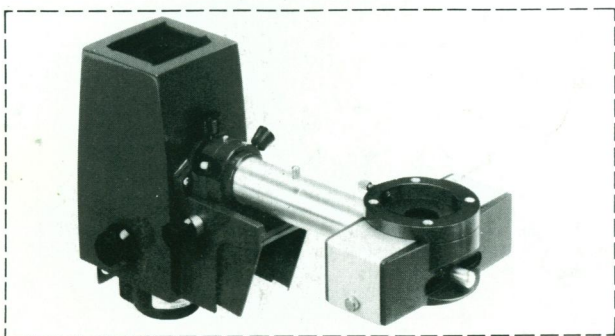
The third is a **BIOCHEMIST** with interests in physical biochemistry. Temperamentally suited to join a group effort in developing new enzymatic and immunological clinical lab tests, then quantitatively evaluating their performance.

Please introduce yourself by collect phone call or letter to Deo Dobbins, Business and Technical Personnel, Rochester, N.Y. 14650, phone 716-724-4607. No need to bother writing up a formal resume. These are Ph.D.-level positions in the Kodak Research Laboratories in Rochester, N.Y. or Kingsport, Tenn.



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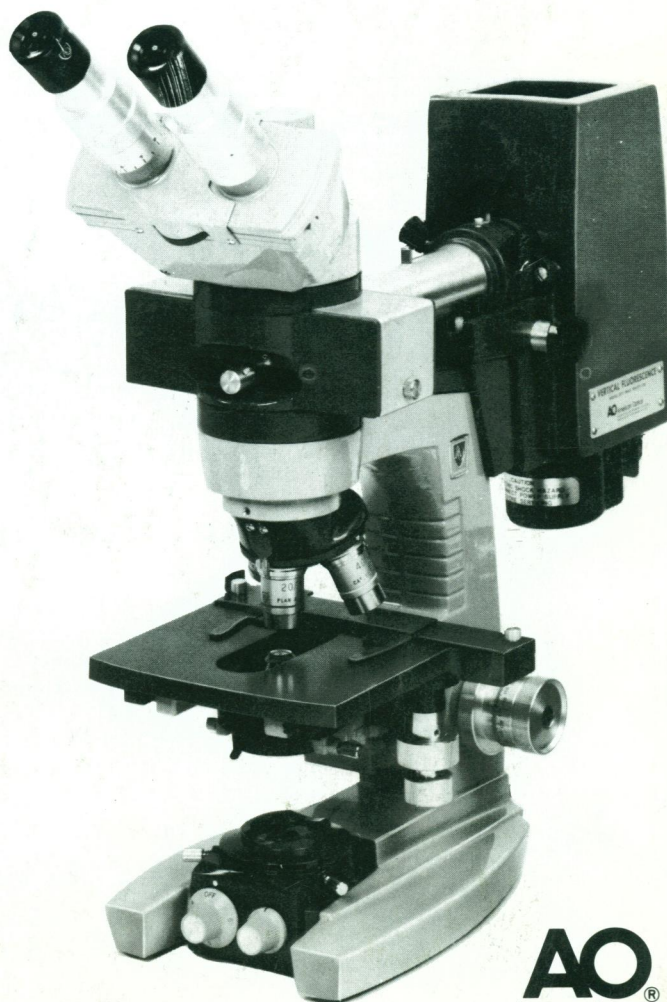
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