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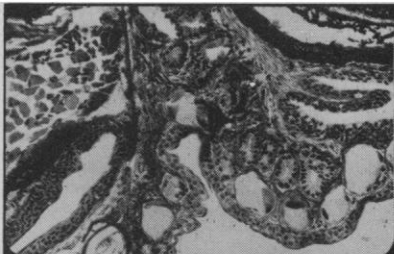
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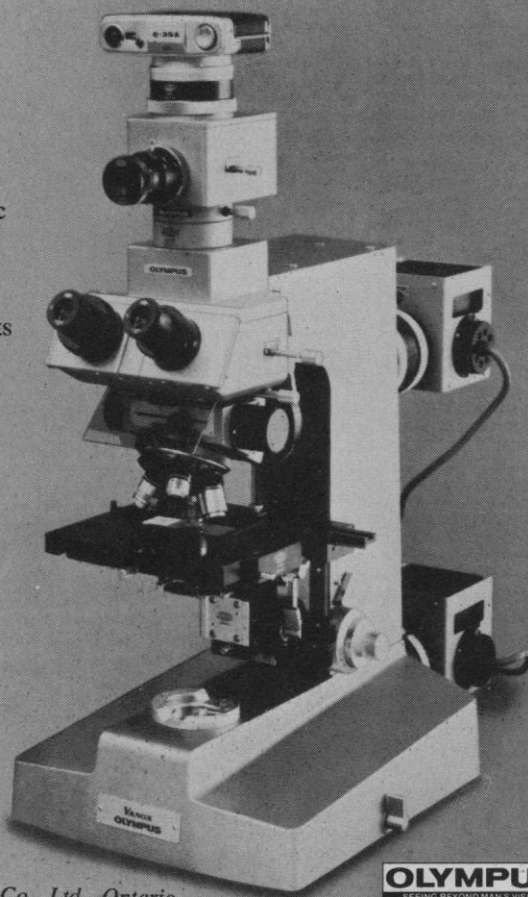
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## POSITIONS WANTED

**Biochemist/Plant Physiologist**, Ph.D., 29 years of experience in conducting and guiding research in physiology of cotton and linseed. More than 50 international publications. Presently heads research institute in India. Seeks research, teaching position. Box 200, SCIENCE. 7/20, 27

**Biochemist/Virologist**, Ph.D. 1974. Postdoctoral experience in nucleic acids, proteins, enzymes, RNA tumor viruses, and immunology. From New York City area. Will relocate. Seeks industrial or academic position. Box 213, SCIENCE. 7/20, 27

**Biologist**, Ph.D. Research in ultrastructure of algae and bioluminescent organs of fish. Extensive teaching experience in general biology for majors and nonmajors, phycology, microscopy. Postdoctoral experience; publications. Seeks combination research-teaching position with university or other institution. M. Watson, Department of Botany and Bacteriology, University of Arkansas, Fayetteville, Arkansas 72701. Telephone: 501-575-4901 or 501-442-8263. 7/20, 27

**Biologist**, Ph.D., with 6 years of college teaching experience beyond Ph.D., desires to relocate in more suitable geographical region and teach general biology, botany courses, ecology courses. Five years as chairman. Excellent teaching evaluations, references, and credentials. Box 214, SCIENCE. X

**CNS Pharmacologist**, Ph.D. Highly motivated and productive and interested in movement disorders, narcotics, hallucinogens, neuroleptics, and central stimulants; wants a senior research position. Will test own hypothesis on the involvement of a new neurotoxic substance in the etiology of behavioral and/or movement disorders. Will also work in the other fields of interest. Box 215, SCIENCE. 7/20; 8/3, 17, 31

**Environmental Scientist**—M.A. plant geography and geomorphology. Broad background includes aquatic and terrestrial plant ecology, botany, zoology, pedology, and geology. Seeking research or other responsible position in university, industry, or government. Box 216, SCIENCE. X

## POSITIONS WANTED

**Cytogeneticist**, Ph.D., 18 years of experience in human cytogenetics. Extensive medical school research, administrative, teaching, and service experience. Has developed and directed a human cytogenetics service which processes 1000 amniotic fluid, blood, bone marrow, tissue culture, and other specimens per year. Seeking senior level position in industry, government, or hospital, to develop or direct a human cytogenetics service and/or research facility. United States or abroad. Box 206, SCIENCE. 7/20, 27

**Geologist**, M.A. 1975, presently working with U.S. Geological Survey in petroleum geology, seeks position in the northeastern United States. Please contact: J. J. Tanner, 2601 Metairie Lawn Drive, Apartment 14-307, Metairie, Louisiana 70002. X

**Plant Pathologist**, Ph.D. 1973; specialization in viruses. Seeks position, field, research, university fellowship; broad experience, worked on variety of problems; publications. Will consider temporary appointment. Box 217, SCIENCE. X

## POSITIONS OPEN

**ANATOMIST AND/OR PHYSIOLOGIST**. Assistant professor position available August 1979 or later, until filled. Teach medical anatomy and/or physiology to allied and preallied health science and other pre-professional students. Need Ph.D. in anatomy and/or physiology. Appropriate research greatly encouraged. Academic year salary commensurate with background and experience. Opportunity for compensated summer research or teaching. Send résumé and three letters of recommendation to: **Chairman, Department of Anatomy and Physiology, Center for Health Sciences, Box 15045, Northern Arizona University, Flagstaff, Ariz. 86011.** Northern Arizona University is an Affirmative Action/Equal Opportunity/Section 504 Employer.

### ASSISTANT PROFESSIONAL SCIENTIST IN ENTOMOLOGY

Section of Faunistics and Insect Identification, Illinois Natural History Survey, will have a permanent position open for assistant professional scientist in September 1979. Required are a Ph.D., strong interest in research and publication, specialty in systematics of Homoptera (Aphididae, Cicadellidae, or Coccidae). Persons trained in related groups but willing to shift interest will be considered. Applications from all qualified candidates are welcome; preference will be accorded to applications received before the closing date of 31 August 1979. Send curriculum vitae, publications, and names and addresses of at least three references (to be contacted only if permission has been secured by applicant) to:

W. E. LaBerge, Chairman, Search Committee  
287 Natural Resources Building  
Illinois Natural History Survey  
Urbana, Ill. 61801

*The Illinois Natural History Survey is an Affirmative Action/Equal Opportunity Employer.*

The Department of Microbiology and Molecular Genetics at Harvard Medical School invites applications for the position of **ASSISTANT PROFESSOR** in the field of **BACTERIAL PATHOGENS AND PATHOGENESIS**. We are interested in candidates, Ph.D. or M.D., likely to make significant research contributions in the future, and also having talent and serious commitment to teaching of medical students as well as graduate students. Please send curriculum vitae with copies of publications, a discussion of your work and interests, and the names and addresses of three referees to: **Chairman, Department of Microbiology and Molecular Genetics, Harvard Medical School, 25 Shattuck Street, Boston, Massachusetts 02115**, before 31 October 1979.

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**VISITING ASSISTANT PROFESSORS OF BIOCHEMISTRY**. Two positions, one full time and one half time, temporary appointments for 1979-1980 academic year. Ph.D. in biochemistry required. Teaching duties will include introductory and/or advanced biochemistry courses. Research time and facilities available. Send curriculum vitae and three letters of recommendation to: **J. M. Shively, Head, Department of Biochemistry, Clemson University, Clemson, S.C. 29631**. Closing date: 3 August. *Clemson University is an Equal Opportunity/Affirmative Action Employer.*

## POSITIONS OPEN

Coastal and Oceanographic Engineering Department, University of Florida, invites applications for an **ASSISTANT OR ASSOCIATE PROFESSOR** position. Desired area of expertise: **ocean wave mechanics**. Experience in numerical modeling of coastal and ocean processes desirable. Ph.D. in related field required. Send inquiries and résumés to: **Dr. D. M. Sheppard, Acting Chairman, Coastal and Oceanographic Engineering Department, University of Florida, Gainesville, Florida 32611.**

### ASSISTANT PROFESSOR DEPARTMENT OF BIOLOGY MASSACHUSETTS INSTITUTE OF TECHNOLOGY

The Department of Biology announces an opening of a tenure-track position at the assistant professor level. The candidate should have carried out significant predoctoral and postdoctoral research on the genetics and molecular biology of prokaryotes or simple eukaryotes and should plan to continue independent research in this general area. Teaching, approximately one semester course per year, will be undergraduate and graduate genetics, microbiology, or molecular biology subjects.

Applicants should provide curriculum vitae, a short statement of the proposed research program, and the names of three scientists willing to write letters of recommendation.

Send applications to:

Dr. Boris Magasanik  
Massachusetts Institute of Technology  
Department of Biology, Room 56-423  
Cambridge, Mass. 02139

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### UNIVERSITY OF REGINA (CANADA) ASSISTANT PROFESSOR DEVELOPMENTAL BIOLOGY

Applications are invited from candidates who have training and experience in the biology of development at the molecular, cellular, and organismic level. Expertise in plant development and regeneration from somatic cells is desirable, but not essential. Applicants must have at least 2 years of postdoctoral experience.

The appointee will share in the teaching of undergraduate and graduate students and is expected to develop an active research program. Minimum salary: \$18,829. Starting date: as soon as possible.

Applications, including curriculum vitae, list of publications, a statement of research interests, and the names of at least three referees, should be sent to: **Dr. H. Bertrand, Department of Biology, University of Regina, Regina, Saskatchewan, Canada S4S 0A2**, before 20 August 1979.

### ASSISTANT PROFESSOR OF PHARMACOLOGY SEARCH REOPENED

The College of Osteopathic Medicine of the Pacific is seeking a Ph.D. in pharmacology. Duties will include participation in the pharmacology course for first and second year medical students. A research program is being initiated at the college and research is encouraged. Send curriculum vitae to: **College of Osteopathic Medicine of the Pacific, 309 Pomona Mall East, Pomona, California 91766.**

### ASSOCIATE PROFESSOR, BIOCHEMISTRY

A faculty position for a nutritional biochemist at the associate professor level is available in the Division of Nutritional Sciences at Cornell University effective 1 September 1980. The position involves teaching at the undergraduate or graduate level and establishment of a vigorous research program. The successful applicant will have a dual appointment in the Section of Biochemistry, Molecular and Cell Biology in the Division of Biological Sciences. Candidates should possess a doctoral degree in biochemistry or nutrition and an outstanding record of accomplishments in research and teaching. Preference will be given to research interests potentially relevant to the nutritional sciences. Inquiries and résumés with three letters of recommendation should be sent to: **Andre Bensadoun, Division of Nutritional Sciences, Cornell University, 242 Savage Hall, Ithaca, New York 14853.**

Closing date for applications is 15 October 1979. *Cornell University is an Equal Opportunity/Affirmative Action Employer.*

## R&D SCIENTIST DERMATOLOGIC DRUGS

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Excellent technical support and research environment.

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Two positions are available under the Inter-governmental Personnel Act of 1970 for persons now employed in state/local government or in colleges and universities. These positions are within the Environmental Observation Division of the Office of Space and Terrestrial Applications, National Aeronautics and Space Administration (NASA) Headquarters. Both positions are for 1 year with the possibility for renewal for an additional year. Pay will be at a level commensurate with experience, and will be established after a review of qualifications.

Candidates must have been employed by the university in a permanent position for at least 90 days or be a career employee of a state or local government. Candidates must also meet the federal qualification standards for the position. These are as follows: a degree in an appropriate field of science, plus 3 years of progressively responsible experience in duties related to the position.

### OCEANOGRAPHER (one position)

This individual will provide scientific guidance to NASA management in the development and implementation of a scientific research program in remote satellite sensing of oceanic processes in coastal regions. A background in coastal oceanography or ocean optics is preferred, with experience in physical, biological, and/or geological oceanography. A Ph.D. or equivalent training and experience is mandatory. Experience in remote sensing is desirable, especially as related to ocean color.

### METEOROLOGIST/CLIMATOLOGIST (one position)

This individual will provide technical and scientific expertise to NASA management in the applications program in remote satellite sensing of atmospheric processes. A background in meteorology, climatology, or atmospheric physics is required. A background in remote sensing is desirable. A Ph.D. or the equivalent training and experience is mandatory.

Interested parties should send a current résumé to: NASA Headquarters, Attention: Sarah Keegan, Code EPM-3, Washington, D.C. 20546.

## Project Scientist (Combustion Research)

We're Combustion Power Company, a growing environmental equipment company. Our product line includes: Granular Bed Filters and Fluid Bed Burners. We have an immediate opportunity in our Research Department for a recent PhD in Chemical, Mechanical, Aeronautical or Aerospace Engineering.


If you possess an interest in interdisciplinary research in the areas of fluid mechanics and combustion, you can quickly become project director and company expert in fluid bed combustion.

You should enjoy the challenge of customer contact and have the ability to supervise a small staff of professional and technical personnel. A solid background in mathematical analysis, good writing and interpersonal skills is preferred. Some industrial experience in either incineration or boiler manufacturing industries would be considered a plus.

We offer excellent company-paid employee benefits. Salary is open. Qualified candidates should submit their resume with present salary and salary requirements to:

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## INTERNATIONAL LABORATORY FOR RESEARCH ON ANIMAL DISEASES (ILRAD) Nairobi, Kenya

## IMMUNOLOGISTS TO WORK ON PARASITIC DISEASES

There are in the laboratory of the director of ILRAD two vacancies for immunologists to work on theileriosis. The research will include infection and transformation of bovine lymphocytes and other cell types by theileria parasites and analysis of cell-mediated immune responses to the parasites and parasitized cells.

Applicants should have experience in cellular immunology and in parasitic or other infectious diseases.

Salary will depend on age and experience. Perquisites include moving allowance, housing and commutation allowances, medical and retirement benefits.

Applications, with curriculum vitae, list of publications and the names of three referees, should be submitted to: Director, ILRAD, P.O. Box 30709, Nairobi, Kenya, by 20 August 1979.

## BIOLOGIST

Tampa office of a prominent total services environmental sciences consulting firm has an opening for an aquatic biologist with an MS or PhD and 2-4 years experience.

## ESTUARINE MEROPLANKTON SPECIALIST

Specialist in estuarine meroplankton (fish and/or invertebrate) ecology with experience in power plant entrainment and 316 A/B projects. Starting salary: \$16,400.-\$20,200.

Will be responsible for conducting comprehensive studies in coastal waters of southeastern U.S., provide assistance in preparation of field sampling programs, location/collection of appropriate biota in the field and provide interpretive documentation such as potential or realized impacts due to operation of power plant. Contact with clients and regulatory agencies as required. Marketing responsibilities and project management opportunities based on previous experience.

Regular merit reviews, paid group health, and life insurance, sick leave and holidays.

If you wish to be considered for these positions send your resume with salary history to Lenie Breeze.

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**ASSISTANT RESEARCH PEDIATRICIAN 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. Also expertise in glucose and fatty acid metabolism is desirable. The work will focus on intermediates of glycolysis and oxidative phosphorylation. 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:

Jay M. Jarmakani, M.D.  
UCLA Center for the Health Sciences  
Department of Pediatrics  
University of California  
Marian Davies Building B2-470  
Los Angeles, California 90024

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

### ASSISTANT SCIENTIFIC DIRECTOR NATIONAL PANCREATIC CANCER PROJECT

Full-time position. Ph.D. and/or M.D.: background experience in pancreatic cancer research. University title; salary dependent upon qualifications and background. Apply with curriculum vitae to: Isidore Cohn, Jr., M.D., Louisiana State University Medical Center, 1542 Tulane Avenue, New Orleans, La. 70112. *An Equal Opportunity Employer.*

### BIOCHEMIST—CLINICAL PATHOLOGY LABORATORY

University of California in affiliation with Fresno Veterans Administration (VA) Hospital is searching for a biochemist, doctoral level, to oversee and implement clinical pathology laboratory procedures in clinical chemistries, radioimmuno assays. Hospital is a 275-acute-care teaching hospital. *The university and the VA are Equal Opportunity/Affirmative Action Employers.*

Send résumé with first inquiry to:

Jean Beland, M.D.  
Chief, Pathology Service  
Veterans Administration Medical Center  
2615 East Clinton Avenue  
Fresno, California 93703

### BIOCHEMIST

P-L Biochemicals, Inc., has an opening for a biochemist to work in new development and preparation of molecular biology research enzymes.

M.S. degree in biochemistry or microbiology with 1 to 2 years of experience in molecular biology area. Salary commensurate with qualifications and experience. Send résumé and salary requirements to:

Employment Supervisor  
P-L BIOCHEMICALS, INC.  
Subsidiary of  
Pabst Brewing Company  
917 West Juneau Avenue  
Milwaukee, Wisconsin 53201

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### CELLULAR IMMUNOLOGIST

To assume a major role in conduct of 5-year NIH-supported research project on immunoregulatory disturbances in leprosy and systemic mycoses. Close collaboration with, and short-term travel to, Chiang Mai University, Thailand. Ph.D. or M.D. with postdoctoral training required. Must be experienced in immunoregulatory cell interaction studies and advanced cell separation technology. Position available on or after 15 September 1979. First year salary: \$21,500 with fringe benefits; faculty rank possible. Send curriculum vitae to: Dr. Ward E. Bullock, Department of Medicine, University of Kentucky College of Medicine, Lexington, Ky. 40536. *Affirmative Action/Equal Opportunity Employer.*

**POSTDOCTORAL POSITION IN CELLULAR IMMUNOLOGY** to study immunoregulatory disturbances in systemic mycotic infections and leprosy. Experience in lymphocyte and macrophage interaction studies desired. Two-year appointment available to recent Ph.D. on or after 15 September 1979. Salary: \$14,000 plus fringe benefits. Send curriculum vitae and names of three references to: Dr. Ward E. Bullock, Department of Medicine, University of Kentucky College of Medicine, Lexington, Ky. 40536. *Affirmative Action/Equal Opportunity Employer.*

## POSITIONS OPEN

**BIOCHEMIST**—Assistant research biochemist with training in microbiology. Applicant should have a Ph.D. (or equivalent) and experience in modern protein purification procedures and carbohydrate chemistry. A good working knowledge of microbial genetics and human red cell antigens would be desirable. This position requires independent and team research. Starting October 1979. Salary range: \$18,000 to \$20,000. Send résumé with list of publications and references by 15 September to: Director, Naval Biosciences Laboratory, University of California, Building 844, Naval Supply Center, Oakland, 94625. *The University of California is an Affirmative Action Employer.*

**BIOCHEMISTRY research associate** starting 1 September 1979 or later; \$12,000 per year. To continue studies of tRNA structure using rigid, variable length crosslinking reagents. Nucleic acids experience desirable. Send curriculum vitae and three letters of recommendation to: Dr. Eric Wickstrom, Department of Chemistry, University of Denver, Denver, Colorado 80208. *An Equal Opportunity/Affirmative Action Employer, M/F/H.*

**BIOCHEMIST AND BIOPHYSICIST**—Postdoctoral positions available immediately to investigate: (i) regulation and mechanism of gene expression, (ii) nucleic acid-protein interactions. Send curriculum vitae and three reference letters to: Professor C. W. Wu, Department of Biochemistry, Albert Einstein College of Medicine, 1300 Morris Park Avenue, Bronx, N.Y. 10461. *An Equal Opportunity Employer.*

**CHIEF OF STAFF, SHRINERS BURNS INSTITUTE**, The University of Texas Medical Branch, Galveston, Texas. Nominations and applications are invited for this position. Applicants should possess nationally recognized capability in clinical burn surgery, teaching, and investigation. The chief of staff directs all clinical, teaching, and investigative activities of the Shriners Burns Institute, Galveston, and is a member of the faculty of the Department of Surgery, The University of Texas Medical Branch, Galveston. Letters of application and curriculum vitae should be sent to: C. William Daeschner, Jr., M.D., Chairman, Faculty Search Committee, Department of Pediatrics, The University of Texas Medical Branch, UTMB Substation, Box 146, Galveston, Texas 77550. *We are an Equal Opportunity/Affirmative Action Employer, M/F/H.*

**FACULTY POSITION IN PHARMACEUTICS**. The School of Pharmacy at the State University of New York at Buffalo has an opening for a faculty position in pharmaceuticals. Applicants should have a Ph.D. degree, preferably with GC-MS experience and should have demonstrated scholarship in analytical chemistry and drug metabolism. Rank and salary commensurate with qualifications and experience. Active graduate research program and excellent laboratory facilities. Reasonable teaching load. Apply by sending curriculum vitae and outline of research interests by 31 August 1979:

Dr. Ho-Leung Fung, Chairman  
Department of Pharmaceuticals  
517 Hochstetter Hall  
State University of New York at Buffalo  
Amherst, New York 14260

*The University is an Affirmative Action/Equal Opportunity Employer.*

### HEART METABOLISM

**POSTDOCTORAL POSITION** available in the areas of cardiac metabolism, creatine kinase, and mitochondrial bioenergetics. Position open to Ph.D. in biochemistry or M.D. with strong research background. Salary: \$12,000. Send résumé and three letters of recommendation to: Dr. William E. Jacobus, 509 Blalock Building, The Johns Hopkins University School of Medicine, 600 North Wolfe Street, Baltimore, Md. 21205. *An Equal Opportunity/Affirmative Action Employer.*

### TEMPORARY INSTRUCTOR IN ANATOMY THE UNIVERSITY OF MICHIGAN

Two temporary instructor positions are open in the Anatomy Department from 1 September 1979 to 30 June 1980. Teaching responsibilities will be either in histology or in gross anatomy. Excellent department research facilities for electron microscopy and other aspects of cell biology will be available. Individuals with backgrounds in reproductive biology or cell biology will be favored. Reply to: Box 211, SCIENCE. Code 900B0. *A nondiscriminatory, Affirmative Action Employer.*

## POSITIONS OPEN

### EFFECTS OF IONIZING RADIATION

The Division of Medical Sciences of the Assembly of Life Sciences, National Research Council, seeks candidates for three positions for a new program, Federal Research on Effects of Ionizing Radiation. These appointments are anticipated to extend from 1 July 1979 to 31 December 1980. The type of experience required for these positions is in radiation biology, medicine, physics, or related fields.

**SENIOR STAFF OFFICER**—Senior staff responsibility for committee management, financial coordination and control, management and analysis of research data, and assistance in report development. Applicants should have an advanced educational degree or equivalent, 4 to 6 years of experience in this field, plus at least 2 years of program/staff/financial managerial experience. Starting salary: approximately \$40,000 per year.

**SENIOR STAFF OFFICER**—Senior staff responsibility for management of subpanels, financial matters, and research analysis, plus assisting with report development. Applicants should have an advanced degree or equivalent and 4 to 6 years of experience, with demonstrated skill in program/financial management and analysis of radiation/biological data. Starting salary: approximately \$35,000 per year.

**STAFF OFFICER**—Staff responsibility for management of study panels and consultants, related financial matters and research data and assisting in report development. Applicants should have an advanced degree or equivalent and 1 to 4 years of experience in the areas of managing program and financial affairs and data analysis. Starting salary: approximately \$30,000 per year.

Please send résumé to: Dr. Daniel L. Weiss, Executive Secretary, Division of Medical Sciences, National Academy of Sciences, 2101 Constitution Avenue, NW, Washington, D.C. 20418. *An Equal Opportunity Employer.*

### EM LABORATORY TECHNICIAN

Fully trained and experienced in basic techniques of tissue preparation for TEM. Must be proficient in ultrathin sectioning. Salary: \$12,800 per year. 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 as RESEARCH ASSOCIATE**, available 1 August 1979. Research in vegetation management. Ph.D. (completed or near completion) required, in forest ecology, silviculture, vegetation management, or weed science; \$15,000 to \$19,000 per year. Fixed-term appointment for 1 year, subject to renewal thereafter based on continued grant support. Send letter of application, curriculum vitae, transcripts, and three letters of recommendation to: Dr. John C. Gordon, Head, Department of Forest Science, Oregon State University, Corvallis, Oregon 97331. *Oregon State University is an Affirmative Action/Equal Opportunity Employer and complies with Section 504 of the Rehabilitation Act of 1973.*

### FACULTY POSITION IN PHYSIOLOGY

The Department of Animal Physiology, University of California, Davis, invites applications for a 9-month position for a **visiting assistant professor**, beginning 24 September 1979. Appointment will be made for 1 year, with re-employment possible for a second year. Teaching responsibilities will include participation in undergraduate systemic physiology lecture and laboratory courses. Although emphasis will be on teaching, the applicant will be expected to participate in a research project through collaboration with departmental faculty. The Ph.D., or its equivalent, is required. Salary is to be in the range of \$15,000 to \$15,700. Applications, including curriculum vitae, a statement of teaching and research background and interests, recent reprints, names and addresses of at least three references, and transcripts (required of recent graduates only) are to be sent to: Dr. W. Jeffrey Weidner, Chairman, Search Committee, Department of Animal Physiology, University of California, Davis, Calif. 95616. Applications will be accepted until 1 August 1979. *In compliance with federal and state laws and university policy, the University of California does not discriminate on the basis of race, color, national origin, religion, sex, handicap, age, or against disabled veterans or veterans of the Vietnam era. The University of California is an Affirmative Action/Equal Opportunity Employer.*



**UNIVERSITY OF NATAL  
DEPARTMENT OF BOTANY  
PIETERMARITZBURG**

Applications are invited from suitably qualified persons regardless of sex, religion, race, colour or national origin, for appointment to the post of

**LECTURER**

Preference will be given to candidates who have a particular interest in the field of the higher cryptogams but who would also be willing to assist in the teaching of flowering plant taxonomy and/or phytogeography.

The successful applicant will be expected to participate in the normal teaching of undergraduate courses, including field excursions, and to engage and supervise research in one of the above fields of botany.

The salary will be in the range:

R8 100—R13 200 per annum.

The commencing salary will be dependent on the qualifications and/or experience of the successful applicant. In addition, an annual vacation savings bonus is payable, subject to Treasury regulations.

Application forms, further particulars of the post and information on pension, medical aid, group insurance, staff bursary, housing loan and subsidy schemes, long leave conditions and travelling expenses on first appointment are obtainable from the Registrar, University of Natal, P.O. Box 375, Pietermaritzburg, 3200, South Africa, with whom applications, on the prescribed form, must be lodged not later than 31 August 1979, quoting reference *PMB 33/79*.

An EPA sponsored National Conference:

**Cardiovascular  
Disease and  
Drinking Water**

October 9—11, 1979 at the  
University of Massachusetts/  
Amherst

Recognized authorities will present their latest research concerning the role of drinking water factors as etiologic agents in cardiovascular disease. The following three specific areas will be addressed in detail:

1. The influence of elevated levels of sodium in drinking water on human health.
2. The influence of selected heavy metals (e.g. cadmium, copper, lead, selenium, and zinc) in drinking water on cardiovascular disease.
3. The influence of hard and soft water on cardiovascular disease.

For further information concerning conference attendance write to:

Edward J. Calabrese, Ph.D.

or

Gary S. Moore, Dr. P.H.

Conference Directors

Division of Public Health

University of Massachusetts

Amherst, Massachusetts 01003

**SENIOR SUPERVISORY  
OCEANOGRAPHERS  
(TWO POSITIONS)**

NOAA, Pacific Marine Environmental Laboratory, Seattle, WA is looking for Group Leaders for its Coastal Physics Group and Deep Sea Physics Group. Applicants for these staff positions must have management or supervisory experience. US citizenship is required for appointment, which will be in the Federal Civil Service at the GS-14 to GS-15 grade level (\$32,442 to \$47,500 per annum) depending upon the present salary and qualifications of the candidate selected for each position.

Applicants for the position of Leader, Coastal Physics Group must have a strong research background in field studies of coastal and estuarine physical processes, and a good grasp of the theoretical basis for nearshore dynamics. The group is engaged in process-oriented studies of coastal Pacific waters. A doctoral degree in physical oceanography, physics, or atmospheric science is desired, with at least 3 years of appropriate research experience.

Applicants for the position of Leader, Deep Sea Physics Group, must have a strong research background in field studies of open-ocean physical processes and a good grasp of the theoretical basis for large-scale ocean/climate dynamical interactions. The group is engaged in process-oriented studies of equatorial and southern Pacific waters, with a view toward understanding the role of the tropical and subpolar ocean in establishing climate variability. A doctoral degree in physical oceanography, physics, or atmospheric science is desired, with at least 3 years of appropriate research experience.

Applicants should send a government application (Standard Form 171), available at most federal offices, a curriculum vitae with references, and a list of publications to: NOAA/PMEL, Area Personnel Officer, 3711 15th Ave. NE, Seattle, WA 98105. Inquiries and applications will be accepted until Aug. 5, 1979; entry on duty around October 1, 1979. *An Equal Opportunity/Affirmative Action Employer.*

**GROUP LEADER**

CALBIOCHEM-BEHRING CORP., La Jolla, California, has an immediate opening for a creative Group Leader to direct product oriented research and development of invitro diagnostic products. This individual will manage and coordinate the development of new analytical methods and systems through the supervision of a team of professional chemists.

This position offers a unique opportunity to participate in all phases of new product development. CALBIOCHEM-BEHRING CORP. is a moderate-sized company, a subsidiary of American Hoechst Corporation and the clinical chemistry resource for Hoechst AG, the world's largest chemical manufacturer. Individual initiative and creativity is given international recognition.

Candidates are invited to apply who have a PhD in Chemistry or Biochemistry plus previous experience and evidence of accomplishment in diagnostic products development with full project responsibility.

Excellent salary and fringe benefits, including relocation. Please submit resume and salary history in confidence to:

**Ms. M. Comtois**

**CALBIOCHEM-BEHRING  
CORPORATION**

10933 North Torrey Pines Rd.  
La Jolla, CA 92037

*Equal Opportunity Employer*

## POSITIONS OPEN

### FACULTY POSITIONS

The Department of Pharmacology, University of Alabama in Birmingham Medical Center, Birmingham, Alabama, invites applications for tenure-track faculty positions. Rank and salary will be commensurate with the applicant's experience and stature. Candidates should have a Ph.D. or M.D. degree, postdoctoral or faculty experience, and be committed to a productive, funded, research program and excellence in teaching. *The University of Alabama in Birmingham, Birmingham, Alabama, is an Affirmative Action Employer and invites applications from women and minority applicants.* Send curriculum vitae, a brief statement of research interests and plans, and have three letters of recommendation sent to:

**Dr. Elias Meezan, Professor and Chairman,  
Department of Pharmacology  
University of Alabama Medical Center  
Birmingham, Alabama 35294**

**FACULTY POSITION.** Ph.D. physiologist or biologist to conduct research in experimental ischemic myocardial disease and participate in clinical research projects. Experience with government grant writing and administration helpful. Please contact: **Director of Cardiology, St. Louis University Medical School, 1325 South Grand Boulevard, St. Louis, Missouri 63104; telephone: 314-771-2074.** *An Equal Opportunity/Affirmative Action Employer, M/F/H.*

**GEOLOGIST**—Temporary, 1 year, 1979-1980; assistant professor; Ph.D. or all but dissertation. Leave replacement to teach several courses including geomorphology, aerial photography and remote sensing, and conservation of natural resources. Send résumé, transcripts, and three letters of recommendation by 30 July to: **Dr. M. Kontrovitz, Geosciences, Rider College, Lawrenceville, N.J. 08648.** *An Equal Opportunity/Affirmative Action Employer.*

### IMMUNOLOGISTS NEEDED

**IMMUNOLOGIST**—Candidate for position should have a Ph.D. degree and postdoctoral experience. Must be familiar with assays for cellular immunology and serology. Position is research and service (50/50). Available end of September 1979. Send résumé, bibliography, and salary requirements to: **Director, Department of Immunology, Biotech Research Laboratories, Inc., 12601 Twinbrook Parkway, Rockville, Maryland 20852.**

**IMMUNOLOGY TECHNICIAN**—Two positions available:

- 1) Requires B.S. or equivalent experience and experience in cell culture, both cellular and humoral assays, and EIA or RIA, and
- 2) Requires B.S. or equivalent experience and experience in cell culture techniques and common serologic assays.

Positions available August-September 1979. Send résumé and salary requirements to: **Director, Department of Immunology, Biotech Research Laboratories, Inc., 12601 Twinbrook Parkway, Rockville, Maryland 20852.**

**IMMUNOLOGIST POSITION.** The University of Florida, Department of Immunology and Medical Microbiology in the College of Medicine, invites applications for an appointment as **professor**; applications will also be considered at the **associate professor** level. Salary: commensurate with experience and qualifications. Teaching responsibilities involve professional (M.D., D.V.M., D.D.S.) and graduate students in immunology. Recognized achievement in an independent research program is required. The position is anticipated to be open as of January 1980. Candidates should send curriculum vitae and names of three references to: **Dr. Kenneth I. Berns, Department of Immunology and Medical Microbiology, University of Florida, College of Medicine, Box J-266, Gainesville, Florida 32610.** *Equal Opportunity/Affirmative Action Employer.*

**TEACHING POSITION** available September 1979. Microbiologist preferable, with a cell biology orientation. Applicants must show strong teaching credentials in microbiology and general biology at the introductory level. Appointment will be at the instructor or assistant professor level. Master's degree minimum. Closing date: 15 August 1979. Applicants must send curriculum vitae, transcripts, and three letters of recommendation to: **Dr. Donald M. Meisner, Chairman, Biology Department, Raymond Walters General and Technical College, University of Cincinnati, 9555 Plainfield Road, Cincinnati, Ohio 45236.** *Equal Opportunity/Affirmative Action Employer.*

## POSITIONS OPEN

### MARINE GEOLOGY

The Horn Point Environmental Laboratories (HPEL), a branch of the University of Maryland Center for Environmental and Estuarine Studies, invites applications and nominations for a tenured professorship in marine geology. Applications from qualified associate professors welcomed. Candidates must have a distinguished research record and proven ability in grantsmanship. Degree in geology with experience and interest in sedimentary processes in the coastal marine environment required. Interests in land/water interface problems and benthic ecology desirable. Incumbent will develop research programs and train graduate students. Opportunity exists for teaching formal courses.

HPEL is multidisciplinary, emphasizing research in a wide variety of marine, estuarine, terrestrial, and environmental subjects. The facility is located on a 850-acre campus on the Eastern Shore of Maryland, has a tenure-track faculty of 12, and a total staff of 55.

Candidates should submit a résumé, a statement of research interests, and the names of six referees to: **Search Committee, HPEL, Box 775, Cambridge, Md. 21613, by 7 September 1979.** *An Equal Opportunity/Affirmative Action Employer.*

## MASS SPECTROMETRIST

Opportunity currently exists for a person with a B.S./M.S. in chemistry or related field to do high-resolution GC/MS analysis of environmental residue samples. High-resolution MS electronics troubleshooting and design experience preferred.

Candidates are invited to submit résumés with salary history, in confidence to: T. R. Smith

## NORTHROP SERVICES, INC.

P.O. Box 12313  
Research Triangle Park, N.C. 27709

*An Equal Opportunity Employer, M/F*

### MOLECULAR TOXICOLOGY

Postdoctoral position, available immediately, for research on biochemical and biologic mechanisms underlying drug cytotoxicity. Strong background in biochemical pharmacology/enzymology/organic chemistry, or pathobiology needed. Send résumé to: **Dr. D. Jollow, Pharmacology Department, Medical University of South Carolina, Charleston, S.C. 29401.**

### PHYSICS—MATHEMATICS

Faculty position in liberal arts college related to the American Baptist churches. Duties include teaching physics in premed program, teaching and working with math majors. The applicant would also teach one section in a general education program. Ph.D. is preferred. Send résumé and credentials to: **Keith Shumway, Academic Vice President, Ottawa University, Ottawa, Kansas 66067.** Salary and rank commensurate with background. *An Equal Opportunity/Affirmative Action Employer.*

**PLANT PHYSIOLOGIST** (assistant or associate professor). The Department of Life Sciences, Indiana State University, will have a teaching-research position in plant physiology to begin January or September 1980. The successful applicant will be expected to be active in the graduate program (both Ph.D. and master's degrees are offered). Teaching responsibilities will include plant physiology and participation in other botanical offerings by the department. Interested individuals should submit curriculum vitae, including evidence of an active research program, and have three letters of recommendation sent to: **Dr. William J. Brett, Chairperson, Department of Life Sciences, Indiana State University, Terre Haute, Indiana 47809.** Applications will be accepted until 30 September 1979. *Indiana State University is an Equal Opportunity/Affirmative Action Employer.*

## POSITIONS OPEN

### NEUROPHYSIOLOGIST

Position available for neurophysiologist. Ph.D. required and minimum of 2 years of experience. Appointment subject to approval by the University of Minnesota. Please send curriculum vitae, references, and transcripts to: **Chief, Personnel Service (05A), VA Medical Center, 54th Street and 48th Avenue South, Minneapolis, Minn. 55417.** *An Equal Opportunity Employer.*

### PHYSICAL OCEANOGRAPHER

A postdoctoral position is open for a scientist interested in the physical oceanography of deep ocean currents, eddies, and fronts. The candidate should have experience in experimental techniques and oceanographic data analysis. The position offers the opportunity to participate in the analysis and interpretation of velocity profiles and collaborative measurements obtained in the POLYMODE field program and in the planning and execution of future experiments focusing on oceanic fronts, air-sea interaction, and mid-ocean eddies. The research program emphasizes the development and use of innovative instrumentation. Training in physical oceanography is preferred but an applicant could have a doctorate in mathematics, physics, or engineering.

Contact: **T. B. Sanford, Ocean Physics Department, Applied Physics Laboratory, University of Washington, 1013 Northeast 40 Street, Seattle, Washington 98105.**

*An Equal Opportunity Employer*

**PHYSICIANS** (multiple openings)—The Food and Drug Administration (*An Equal Opportunity Employer*) has Civil Service and Commissioned Corps (U.S. Public Health Service) openings for evaluation of new drug clinical testing and potential effects of drugs. Some investigation positions also available in the bioresearch monitoring program. Vacancies are for physicians qualified in specialties (endocrinology, internal medicine, pulmonary disease, or rheumatology), or with clinical pharmacology training/experience, or with research experience in development of new drugs.

Positions have no patient-care duties, are located in Rockville, Maryland, and require medical judgments, effective writing and speaking, and ability to organize work and to meet deadlines. Grades GS-14 and GS-15 (salary range \$40,009 to \$47,500 per year, depending upon experience and qualifications). Comprehensive fringe benefits available.

Requirements: medical degree (M.D. or doctor of osteopathy) and Board-eligibility in above listed specialty; or equivalent experience in clinical pharmacology or drug research. Acceptability of degree source governed by Civil Service regulations.

Send résumé or curriculum vitae to:

**George H. Calvert  
Food and Drug Administration  
Division of Personnel Management  
5600 Fishers Lane  
Rockville, Maryland 20857**

**POSTDOCTORAL APPOINTMENTS** starting September 1979 for kinetic, physical, and structural studies on thiol-treated superactive ribonuclease [see *Science* 199, 1084 (1978)] and/or high-field (360 MHz) NMR studies on protein dynamics and the unfolding and refolding of proteins [see *BBRC* 86, 885 (1979)]. Applicants with expertise in protein chemistry or physical biochemistry are desired. The initial appointments will be for 1 year with the possibility of renewal. Please send résumé, including details of research experience, and three letters of recommendation to: **Dr. F. W. Benz, Department of Pharmacology and Toxicology, University of Louisville, School of Medicine, P.O. Box 35260, Louisville, Kentucky 40232.** *The University of Louisville is an Affirmative Action/Equal Opportunity Employer.*

**POSTDOCTORAL POSITIONS** available immediately (2 years, beginning 1 July; \$10,500 to \$12,000 plus benefits) to study: (i) immunogenetics and pathogenetic mechanisms of mycoplasma diseases and experimental models of inflammation; good background in cell culture and immunogenetics desired; and (ii) mechanisms and significance of interferon induction by mycoplasmas and mycoplasma viruses in lymphocyte cultures; good background in virology, interferon and biochemical assays required. Send curriculum vitae, reprints, and names of three references to: **Barry C. Cole, Ph.D., Department of Internal Medicine, University of Utah, College of Medicine, Salt Lake City, Utah 84132.**

*The University of Utah is an Equal Opportunity Employer.*

## Oceanographer/Deputy Director

NOAA, Pacific Marine Environmental Laboratory, Seattle WA is looking for a scientist to serve as its Deputy Director. U.S. citizenship is required for appointment, which will be in the Federal Civil Service at the GS-13 to GS-14 grade level (\$27,453-42,171 per annum) depending upon the present salary and qualifications of the candidate selected. The person selected will serve as a general line manager or executive officer for the laboratory, will share in the overall management and administration with the Director, and will supervise much of its day-to-day operations. Some opportunity to carry out individual research will be available. Applicants must have a strong background in management and supervision. A doctoral degree in oceanography, physics, chemistry, or atmospheric science is desired, with at least 3 years of appropriate research experience.

Applicants should send a government application (Standard Form 171), available at most federal offices, a curriculum vitae with references, and a list of publications to: NOAA/PMEL, Area Personnel Officer, 3711 15th Ave NE, Seattle, WA 98105. Inquiries and applications will be accepted until 5 August 1979. An Equal Opportunity/Affirmative Action Employer.

## CHIEF, LABORATORY OF MICROBIAL STRUCTURE AND FUNCTION

National Institutes of Health, National Institute of Allergy and Infectious Diseases is recruiting for the position of Chief, Laboratory of Microbial Structure and Function.

This laboratory, which is located at the Rocky Mountain Laboratory facilities in Hamilton, Montana, has been recently established to provide a major emphasis and effort in basic and applied research on bacterial diseases. The laboratory is now staffed by approximately thirty professional and technical personnel. Two other laboratories and a support branch are located at the same facility. The position is tenured and additional resources will be provided to the laboratory chief to conduct research of his or her choosing within the mission and goals of the laboratory of microbial structure and function.

Applicants must have a M.D., D.O. or equivalent in a biomedical science. Additionally, it is desirable that scientists have a clinical background, established recognition in biomedical research and proven capabilities and experience in leadership and guidance of other scientists with related research interests.

This position may be filled via the U.S. Public Health Service Commissioned Corps or the career Civil Service. Civil Service salary range is \$43,248 to \$47,500. (The individual selected may be eligible for an annual bonus of up to \$7,000—\$10,000 under the Federal Physicians Comparability Allowance Act of 1978).

Interested applicants should submit a curriculum vitae, bibliography and three references to: Kenneth W. Sell, M.D., Ph.D., Scientific Director, National Institute of Allergy and Infectious Diseases, National Institutes of Health, Public Health Service, 9000 Rockville Pike, Building 5, Room 139, Bethesda, MD 20205 or call (301) 496-2144. An Equal Opportunity Employer.

**NATIONAL INSTITUTES OF HEALTH**

# PHD

## MICROBIAL GENETICIST

SmithKline Corporation a diversified multinational pharmaceutical firm, located in Philadelphia, Pennsylvania, is seeking a person to develop and apply modern genetic technology to the discovery of antibiotics and other biologically active agents.

This position is located at our suburban facility, 17 miles from Philadelphia. The successful candidate for this new position should be capable of directing a research program on molecular genetics and become a leader in the development of novel techniques for discovery of new biologically active agents. This person should have a PhD or equivalent in Microbial Genetics with experience in recombinant DNA technology, and membrane proteins. Preference will be given to persons with work experience in eukaryotic and prokaryotic cells.

SmithKline offers an excellent compensation program and opportunity for professional growth. Please send resume with salary history to: Mr. William Groves, SMITH KLINE & FRENCH LABORATORIES, A Division Of SmithKline Corporation, 1506 Spring Garden Street, P.O. Box 7929, Philadelphia, Pennsylvania 19101. We Are An Equal Opportunity Employer, Male/Female/Handicapped/Veteran.

**SmithKline**  
Smith Kline & French Laboratories

Chemist

## RESEARCH CHEMISTS



Varian Instrument Group is an innovative group involved in the research, development, and manufacture of analytical instruments.

We are located in the East Bay Foothills, within easy reach of San Francisco. We are a rapidly growing division of Varian Associates, an established Fortune 500 Company headquartered on the San Francisco Peninsula.

We are searching for four independent, creative Research Chemists to join our expanding Research Department team:

- Develop new columns and column materials for High Performance Liquid Chromatography; become a recognized leader in HPLC Columns. Requires Ph.D. in Synthetic Organic Chemistry. No previous Chromatography experience is required.

- Develop Gas Chromatograph detectors. Requires Ph.D. in Physics, Chemical Physics, or Physical Chemistry; should have expertise in flames, optical emission, chemiluminescence, electron affinity measurements, properties of thermionic materials, or other related experience. No previous Chromatography experience is required.

- Develop advanced sampling systems and novel instrumental techniques for Gas Chromatography. Requires Ph.D. in Analytical Chemistry with a minimum of four years industrial experience as an Analytical Chemist. Experience with environmental regulatory analyses is highly desirable.

- Develop on-line chemical reaction schemes for Chromatographic Analyses. Requires Ph.D. in Organic Analytical Chemistry. Must have an interest in hardware/instrument development balanced with innovation in use of chemical reactions. Please send resume, including salary history, to:

**Personnel Manager**  
**Varian Instrument Group/**  
**Walnut Creek Division**  
2700 Mitchell Drive  
Walnut Creek, CA 94598

Equal Opportunity Employer M/F





## POSITIONS OPEN

### POSTDOCTORAL APPOINTMENT IN PRODUCT SAFETY AND RELIABILITY

Unique opportunity in the Carnegie-Mellon University, Department of Engineering and Public Policy, for developing research directions in hazard and risk analyses related to product safety and reliability. Mechanical engineering background preferred. Send résumé or telephone: **Alvin S. Weinstein, Professor of Mechanical Engineering and Public Policy, Carnegie-Mellon University, Pittsburgh, Pennsylvania 15213; telephone: 412-578-2509.**

### POSTDOCTORAL FELLOW

Postdoctoral position available immediately for research on nuclear proteins and macromolecular biosynthesis. Preference will be given to candidates with experience in protein and nucleic acid chemistry. Send curriculum vitae with names of references and proposed starting date to:

**Francoise Farron-Furstenthal, Ph.D.  
La Jolla Cancer Research Foundation  
P.O. Box 1376  
La Jolla, Calif. 92038**

### POSTDOCTORAL FELLOW— NEUROPHYSIOLOGY

Applicants should have interests in voltage clamp analysis and computer simulation of neurons and neural circuits mediating simple behaviors in *Aplysia*. Send curriculum vitae and names of three references to: **Dr. John H. Byrne, Department of Physiology, University of Pittsburgh, School of Medicine, Pittsburgh, Pa. 15261. Equal Opportunity/Affirmative Action Employer.**

**POSTDOCTORAL POSITION** available immediately in molecular pharmacology to study environmental factors affecting the metabolism of drugs. Experience in biochemistry and/or pharmacology are essential. Send résumé and two letters of recommendation to: **Dr. G. M. Rosen or Dr. E. J. Rauckman, Department of Pharmacology, Duke University Medical Center, Durham, N.C. 27710. Duke University is an Equal Opportunity/Affirmative Action Employer.**

### POSTDOCTORAL POSITION

A postdoctoral position has become available unexpectedly in the laboratory of **Dr. Neal Rubinstein, Department of Anatomy, University of Pennsylvania, Philadelphia, Pa. 19104.**

Stipend: \$10,000 per year.

Starting date: Anytime after 1 July 1979.

Research will include studies of contractile proteins during myogenesis and during chronic stimulation, denervation, and regeneration. Specific project will depend on interests of the successful applicant. Techniques involved include tissue culture of muscle, chromatography, isoelectric focussing, SDS gel electrophoresis, fluorescence microscopy, immunoelectrophoresis, and a variety of other biochemical and immunological techniques. Experience in some of these techniques would be helpful. The Department of Anatomy is the center of a number of interdepartmental, interdisciplinary programs, including the Pennsylvania Muscle Institute, The Institute for Neurological Sciences, and the Program in Cell Differentiation.

Interested applicants should send curriculum vitae, plus names, addresses, and telephone numbers of three references, to Dr. Rubinstein at the above address.

**POSTDOCTORAL POSITION IN BIOCHEMISTRY** available immediately. Prefer background in membrane biochemistry. Project involves isolation of CNS and PNS membrane fractions derived from myelinated axons and characterization of the molecular interaction of the neuronal axon plasma membrane with the glial myelin membrane.

Send curriculum vitae and two letters of recommendation to: **Dr. George H. De Vries, Department of Biochemistry, Medical College of Virginia, MCV Station, Box 614, Richmond, Va. 23298.**

**POSTDOCTORAL POSITION—MICROBIAL GENETICIST.** Starting September or later (\$12,000) to carry out a genetic analysis of ketone oxidation by pseudomonads. Send résumé to:

**A. J. Markovetz  
Department of Microbiology  
University of Iowa  
Iowa City, Iowa 52242**

*An Equal Opportunity/Affirmative Action Employer*

## POSITIONS OPEN

**POSTDOCTORAL POSITION.** Immediately available. Applicant should have experience in cellular immunology and/or immunochemistry. Experience and/or interest in idiotypes and their role in immune regulation is desired. Salary commensurate with experience. Send curriculum vitae and three references to: **Dr. C. J. Bellone, Personnel Services, 3556 Caroline Street, St. Louis, Mo. 63104. An Equal Opportunity/Affirmative Action Employer, M/F/H.**

**POSTDOCTORAL POSITIONS** (two) available immediately to individuals interested in the pathobiology of biomembranes. Major projects include malaria, hyperthermia effects on biomembranes, characterization of tumor antigens, and lymphocyte stimulation. Send curriculum vitae and names of three references to: **Dr. Ross B. Mikkelsen or Dr. Donald F. H. Wallach, Department of Therapeutic Radiology, Tufts-New England Medical Center, 171 Harrison Avenue, Boston, Mass. 02111.**

**POSTDOCTORAL POSITION IN ALGAL PHYSIOLOGICAL ECOLOGY** available immediately to study relationship between herbicide uptake and seasonal changes in primary production, morphology, and organic ligand production in filamentous green algae; 1- to 2-year tenure. Submit résumé and two letters of reference to: **Dr. Carole A. Lembi, Department of Botany and Plant Pathology, Purdue University, West Lafayette, Indiana 47907. Equal Opportunity/Affirmative Action Employer.**

Two **POSTDOCTORAL POSITIONS** in biochemistry to study isolation, characterization, and mechanism of action of iron transport agents (siderophores) produced by plant growth-promoting rhizobacteria. Experience in isolation and characterization of natural products helpful but not required. Positions available July 1979 and 1980. Salary commensurate with experience and begins at \$12,700. Send curriculum vitae, letter of recommendation from thesis adviser, names of two other references, and summary of thesis research to: **Professor John Leong, Department of Chemistry, D-006, University of California, San Diego, La Jolla, Calif. 92093.**

**POSTDOCTORAL POSITION** for study of non-histone chromatin proteins in tumor cell lines. Position is available 1 September but will be held until a suitable applicant is found. Applicant should have recent Ph.D. in biochemistry or related discipline. Send résumé and names of three references to: **Dr. Gerald R. Reeck, Department of Biochemistry, Kansas State University, Manhattan, Kans. 66506. Kansas State University is an Equal Opportunity/Affirmative Action Employer.**

**POSTDOCTORAL POSITION** available 1 September 1979 for research on the genetic control of cell differentiation. Our system utilizes eight mutants affecting pigment production in cultured chick embryo pigment cells. Approaches will involve electrophoresis and electrofocusing, somatic cell fusion, and electron microscopy. Previous experience in electrophoretic techniques or cell culture of electron microscopy desirable. Appointment renewable annually with salary of \$12,500. Send curriculum vitae and three letters of reference by 1 August to: **Dr. John Brumbaugh, School of Life Sciences, The University of Nebraska-Lincoln, Lincoln, Nebraska 68588. Affirmative Action/Equal Opportunity Employer.**

**RESEARCH ASSOCIATE.** The Department of Earth and Planetary Sciences is seeking a marine geophysicist with experience in methods of plate reconstruction, to run an ongoing field program in Antarctica. Individual will be required to apply a sound knowledge of magnetics, gravity, heat flow, and multichannel seismics to the running of the program. Will have opportunity to supervise individuals at all levels. Person must be willing to spend at least 2 months a year at sea.

Qualifications: Ph.D. in marine geophysics or geology, or a closely related field is necessary. Must have an advanced knowledge of FORTRAN and its use in an IBM 360 or 370 environment. Prior experience in running a field program in Antarctica, or similar fieldwork, would be helpful. Salary: \$15,000 to \$18,000, depending on qualifications.

This is a permanent research staff position, and will be available 1 January 1980. Please submit résumés for consideration to: **Massachusetts Institute of Technology, Personnel Office, 400 Main Street, Cambridge, Mass. 02139. Attention: Job No. R79-117. MIT is an Equal Opportunity/Affirmative Action Employer.**

## POSITIONS OPEN

**POSTDOCTORAL RESEARCH ASSOCIATE** position available September 1979, in the area of human erythrocyte physiology and biophysics, including studies of membrane and cellular mechanics, suspension viscosity, and drug-cell interactions. Normal and pathologic cells involved, with emphasis on sickle-cell disease. Laboratory equipped for light and scanning microscopy, video recording-analysis, and for macro- and microrheologic measurements. Send curriculum vitae and names of references to: **Dr. Herbert J. Meiselman, Department of Physiology and Biophysics, University of Southern California, School of Medicine, 2025 Zonal Avenue, Los Angeles, Calif. 90033.**

**POSTDOCTORAL RESEARCH ASSOCIATE**—Position available immediately to work on the subcellular basis of hormone action in active project involving the association of exocytosis and endocytosis with antidiuretic hormone-induced membrane alteration. Experience in membrane and organelle isolation desired. Candidate should have biochemical background and will be collaborating with investigator employing primarily ultrastructural cytochemical and physiological techniques. Salary range: \$12,000 to \$15,000. Work will be done in well-equipped department in dynamic medical and graduate center. Please send résumé and names of references to: **Dr. S. K. Masur, Department of Physiology and Biophysics, THE MOUNT SINAI SCHOOL OF MEDICINE, One Gustave L. Levy Place, New York, New York 10029. An Equal Opportunity Employer.**

**POSTDOCTORAL OR RESEARCH ASSOCIATE POSITION** available to study metabolic regulation and/or enzyme turnover in cultured cells. Experience in protein isolation techniques desirable. Salary to \$13,000. Send résumé and names of references to: **Dr. Ifeanyi Arinze, Department of Biochemistry, Meharry Medical College, Nashville, Tennessee 37208.**

**PRE- and POSTDOCTORAL POSITIONS** are available for individuals with microbiology background for studies on the protein-synthesizing system with special emphasis on ribosomes—topography, biogenesis, and function. Teaching opportunities available. Reply with résumé to: **Dr. Bruce H. Sells, Professor and Director, Laboratories of Molecular Biology, Faculty of Medicine, Health Sciences Centre, Memorial University of Newfoundland, St. John's, Newfoundland, Canada A1B 3V6.**

**PROCESS DEVELOPMENT BIOCHEMIST:** Growing program in the isolation and characterization of blood proteins is seeking a process development biochemist. Ph.D. in biochemistry or advanced degree in engineering to apply protein isolation methodologies to the large-scale fractionation of blood. Knowledge of technique for the isolation and analysis of protein essential. Related experience helpful but not necessary. Salary to \$22,000. Send résumé to: **Dr. Bernard Horowitz, Associate Director, Blood Derivatives Program, The New York Blood Center, 310 East 67 Street, New York, N.Y. 10021. An Equal Opportunity Employer.**

**PROFESSOR AND CHAIRMAN**, Department of Pediatrics. The University of Maryland, School of Medicine, invites applications for the position of chairman of the Department of Pediatrics. The person to be appointed will be expected to lead and direct the teaching, research, and patient care activities of the department. An interest in community pediatrics is desirable. Please send curriculum vitae and references to: **Ralph M. Scott, M.D., Department of Radiation Therapy, University of Maryland Hospital, 22 South Greene Street, Baltimore, Md. 21201.**

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**RESEARCH ASSISTANT** to direct biochemical genetics tissue culture laboratory. Individual should have a M.S. in biochemistry or genetics (or equivalent). Must have knowledge of fibroblast and amniotic-fluid cell culture techniques and enzymatic assays. Opportunity for biochemical genetic research available.

**Box 210, SCIENCE**

**RESEARCH ASSOCIATE**—Ph.D. Studies of effects of environmental agents on alveolar macrophage function. Background in cellular immunology necessary. Washington, D.C. area. Salary range: \$14,000 to \$18,000, depending on background. Position available September 1979. Send curriculum vitae and names of three references to: **Box 212, SCIENCE.**

# FELLOWSHIPS

To help meet the significant need for professionals trained in various scientific disciplines which have been oriented toward, and applied to further development of the field of toxicology, Monsanto Fund announces a program to provide financial assistance to institutions eligible for foundation grants for both pre- and post-doctoral students carrying on full-time research studies.

Information and application material may be obtained by writing:

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**La Trobe University  
Melbourne, Australia**

## La Trobe Research Fellowship

Applications are invited for a La Trobe Research Fellowship.

Applicants should be at the recent (within the last 5 years) post-doctoral level and Fellowships will normally be awarded to applicants with research experience away from La Trobe University. The successful applicant must hold a doctoral degree or have equivalent qualifications at the time of commencement of the Fellowship.

The Fellowship will be awarded initially for a period of 12 months and may be renewed for a further maximum period of 12 months. Applicants must be able to take up the Fellowship no later than 30th June, 1980.

Salary: \$A15,786 per annum.

Further information and application forms are available from the Graduate Studies Officer.

Enquirers should indicate the research discipline of interest to them. The closing date for applications is 31st August, 1979.

D. D. Neilson,  
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## POSITIONS OPEN

A position is available in the School of Dentistry and the Dental Research Center for a **RESEARCH ASSISTANT PROFESSOR**. Qualified applicants will bring to the center a defined research program complementary to an existing program on the purification, characterization, and function of phosphatases. This is not a tenure-track position and the successful applicant will be expected to secure salary funds from other than university sources. The position will become available 1 September 1979.

Send curriculum vitae, statement of research plans, and names of three references to:

**Dr. Philip F. Hirsch**  
Director, Dental Research Center 210H  
University of North Carolina  
Chapel Hill, North Carolina 27514

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

### RESEARCH ASSOCIATE, FACULTY POSITION.

Conduct research related to hearing-impaired young adults, particularly in areas of visual perception processes and interaction between sensory systems. Ph.D. in visual perception necessary, with some experience in language learning, sensory processing, and research design. Send résumé in confidence to: **Personnel Manager, Box S 79 National Technical Institute for the Deaf, Rochester Institute of Technology, 1 Lomb Memorial Drive, Rochester, New York 14623.** NTID at RIT is an Affirmative Action/Equal Opportunity Employer.

**RESEARCH ASSOCIATE**, Ph.D. in biochemistry, or related area. Position immediately available for a minimum of 2 years. The research will involve studies on the molecular basis on insulin and glucagon action in controlling the rate limiting enzymes of fatty acid and glycogen synthesis, acetyl CoA carboxylase and glycogen synthase. Salary for the position commensurate with experience. Send résumé and names of references to: **Dr. K. H. Kim, Department of Biochemistry, Purdue University, West Lafayette, Ind. 47907.** Purdue University is an Equal Opportunity/Affirmative Action Employer.

**RESEARCH ASSOCIATE** position available immediately to study mRNA, regulation of gene expression at translation, transcription and deprimers. Applicant should have experience in this area. Funds on NIH grant available for 1 year. Possibility of continuation. Send résumé and letter of recommendation to: **Professor M. Hillar, Department of Biology, Texas Southern University, Houston, Texas 77004.**

**RESEARCH ASSOCIATE**—Position available immediately. Salary: \$19,600. Ph.D. or M.D. with strong background in cellular immunology and experience in B & T cell biological assays and enumeration techniques. Research areas include experimental allergic encephalitis and slow and persistent viral infection. Telephone: **Personnel for interview (Position #97) at 212-698-1122, extension 619. Institute for Basic Research in Mental Retardation, 1050 Forest Hill Road, Staten Island, New York 10314.** Affirmative Action/Equal Opportunity Employer.

**RESEARCH ASSOCIATE.** Postdoctoral position for studies on drug-transport mechanisms in GI epithelia. Experience with epithelial transport, compartmental analysis, or synthetic membranes required. Starting salary: \$10,500 to \$12,000. Send curriculum vitae and names of three references to: **Dr. Michael J. Jackson, Department of Physiology, George Washington University Medical Center, 2300 Eye Street, NW, Washington, D.C. 20037.** An Equal Opportunity/Affirmative Action Employer.

**RESEARCH FELLOW.** Growing program in the isolation and characterization of blood proteins is seeking a research fellow. Ph.D. in biochemistry or cell biology to work on the isolation and characterization of human plasma fibronectin. Knowledge of protein methodologies essential and opsonization and phagocytosis helpful. Related experience helpful but not necessary. Salary to \$18,000. Current expansion of our program offers a realistic opportunity for permanent employment following the period of fellowship. Send résumé to: **Dr. Bernard Horowitz, Associate Director, Blood Derivatives Program, The New York Blood Center, 310 East 67 Street, New York, N.Y. 10021.**

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## POSITIONS OPEN

**RESEARCH GRANTS ADMINISTRATOR**—M.D. or Ph.D. with understanding of basic biomedical research and clinical investigations to staff scientific advisory review committee and administer grants awarded. Voluntary health organization; New York City area. Submit curriculum vitae and salary requirements to: **Box 203, SCIENCE.**

**RESEARCH SCIENTIST**, Ph.D. required, to study primate neurobiology and its relation to behavior. Assistant professor level with permanent career prospects. Interest in either neuroscience, neurochemistry, or bioengineering is essential. Apply to: **Dr. Richard P. Michael, Department of Psychiatry, Emory University, Atlanta, Georgia 30322.** Telephone: 404-894-5947. An Equal Opportunity/Affirmative Action Employer.

### NEW ZEALAND FOREST SERVICE SCIENTIST, PRODUCTION FORESTRY DIVISION, FOREST RESEARCH INSTITUTE, ROTORUA

Applications are invited for the above position. Salary up to N.Z.\$16,685 per annum, depending on qualifications and experience.

A forest soils scientist is required to join a team of eight scientists and 15 support staff studying tree nutrition, soil fertility, and forest site productivity in New Zealand. A major part of the programme involves pinus radiata plantations and includes soil chemistry, soil physics, tree nutrition, nutrient cycling, and biomass production.

Qualifications desired: Ph.D. in soil science with supplementary training and experience in forestry, or Ph.D. in forestry with supplementary training and experience in soil science.

Housing available for an initial 2-year period.

Application forms may be obtained from: **New Zealand Embassy, 37 Observatory Circle, NW, Washington, D.C. 20008**, with whom applications close on 20 September 1979. Please quote: **Vacancy Number 9/79/1375.**

Further particulars may be obtained from: **the Director, Production Forestry Division, Forest Research Institute, Private Bag, Rotorua, New Zealand.**

### VICE PRESIDENT FOR HEALTH AFFAIRS

The University of Connecticut is seeking candidates for the position of vice president for health affairs. This senior officer reports directly to the president and is responsible for all university health-related programs including the Schools of Medicine and Dental Medicine, the Dempsey Hospital, and clinical programs located primarily on the University Health Center campus in Farmington; and the schools of Allied Health Professions, Nursing, Pharmacy, and the Student Health Service, all on the Storrs campus. Candidates should have doctoral-level professional qualifications, preferably in a field and of a quality suitable for professional appointment in a university department, plus substantial senior administrative experience, preferably in an academic health center or its equivalent.

Résumés and the names and addresses of at least three references should be sent no later than 15 October 1979 to: **Office of the Vice President, The University of Connecticut Health Center, Farmington, Connecticut 06032.**

## FELLOWSHIPS

**RESEARCH FELLOWSHIP.** Research fellowship is available immediately for an individual interested in cardiovascular physiology. The work will focus on ionic exchange, electrophysiology, and the biochemistry of the neonatal myocardium. Previous experience with any of these disciplines is desired.

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

**Jay M. Jarmakani, M.D.**  
UCLA Center for the Health Sciences  
Department of Pediatrics  
University of California  
Marian Davies Building B2-470  
Los Angeles, California 90024

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

## FELLOWSHIPS

### SENIOR RESEARCH FELLOWSHIP AVAILABLE

The World Life Research Institute has an opening for a senior research fellow to research scientific literature, setting out data as to principles, concepts, hypotheses, theories, and experimental procedures relating to the use of adaptogenic agents and enzyme systems used in hyperbaric medicine in the treatment of spinal cord injuries.

The minimum requirements for this position are M.D. degree, but license is not required; 2 years of surgical experience; candidate must have completed and had published one or more original medical articles and must be able to read, speak, and write Russian, Arabic, and English.

This position may require travel to the U.S.S.R. and Arab countries at periodic intervals. Travel expenses will be paid by the institute. This is a full-time (40 hours per week) position, and we offer a salary of \$1,666.67 per month. Send curriculum vitae, photo, and character references. Submit applications to:

**Fellowship Program**  
World Life Research Institute  
23000 Grand Terrace Road  
Colton, Calif. 92324

### POSTDOCTORAL FELLOWSHIPS IMMUNOBIOLOGY OF AGING— TUMOR BIOLOGY

Postdoctoral fellowships are available in a joint program between the Sloan-Kettering Institute for Cancer Research and Cornell University Medical College to study the immunobiology of aging. Applicants should send curriculum vitae to: **Dr. Gregory W. Siskind, Cornell University Medical College, 1300 York Avenue, New York, N.Y. 10021.** Postdoctoral fellowships are also available for the study of tumor biology at the Sloan-Kettering Institute for Cancer Research. Applicants should send curriculum vitae to: **Dr. Malcolm A. S. Moore, The Sloan-Kettering Institute, 1275 York Avenue, New York, N.Y. 10021.**

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**POSTDOCTORAL FELLOWSHIP (NIH-supported) for research and diagnostic training in medical mycology.** Applications are invited for a 2-year fellowship in medical mycology with dual emphasis: (i) taxonomy, biochemistry, and/or host immune responses in the mycoses, especially candidiasis, cryptococcosis, and other opportunistic mycoses using mainly animal models and (ii) hospital diagnostic procedures. Inquiries should be addressed to: **Judith Damer, Ph.D., or Stephen Moser, Ph.D., Tulane Medical School, Department of Microbiology, 1430 Tulane Avenue, New Orleans, Louisiana 70112.**

**RESEARCH FELLOWSHIP** available. Background preferably in molecular biology and/or protein chemistry. Our research groups are interested in the molecular and genetic mechanisms responsible for antigenic variation in trypanosomes. Applicant should be a U.S. citizen or have permanent resident status. Please write to: **Dr. Frank F. Richards, Department of Internal Medicine, Yale University School of Medicine, 333 Cedar Street, New Haven, Connecticut 06510.** Yale University is an Equal Opportunity/Affirmative Action Employer. Applications from women and minority groups are encouraged.

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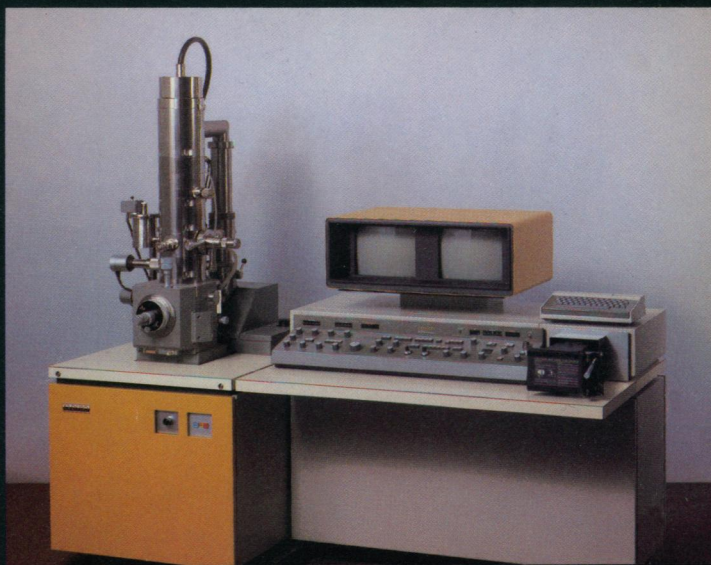
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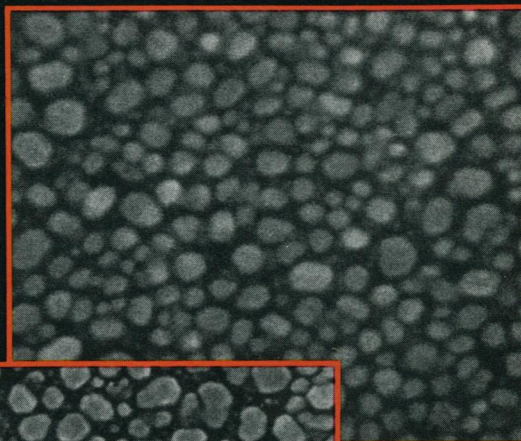


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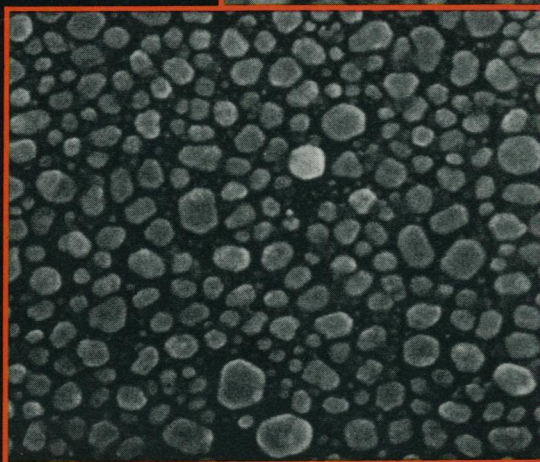
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