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Microbiology Dissertations planning, preparing. English, French, German, Italian, Latin knowl-edge. Long experience as research librarian. Publications. Dr. Mora, "Rebecca" 413, 10920 Connecticut Ave., Kensington, Md. 20795. Tel. (301) 933-5784. X

Neurochemist/Immunologist (Ph.D. 1970, McGill, Montreal, DNA enzymology). Woman. Publica-tions. Three years postdoctorate in axonal pro-tein transport, membranes, affinity chromatog-raphy, radioimmunoassay. Teaching experience. Vivien Brévart, Neurochemie, M.P.I. Psychiatrie, Kraepelinstr. 2, Munich 40, Germany. X

Established **Protein Chemist-Endocrinologist**, Ph.D. 1951. Broad experience in research, ad-ministration, and teaching. Seeks academic ap-pointment with opportunity for strong research program with teaching responsibility. Box 350, SCIENCE. 7/19, 26

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ASSISTANT PROFESSOR. Ph.D. in the field of analytical-environmental chemistry. Duties in-clude teaching, research, and collaboration with other faculty involved with environmental prob-lems. Successful candidate will play a major role in the development of an environmental chemis-try program. Send résumé, names of three refer-ences, and a critique of research interests and plans to: Chairman, Search Committee, Depart-ment of Chemistry, College of Environmental Science and Forestry, Syracuse, New York 13210. Position available 1 January 1975. An Equal Opportunity/Affirmative Action Environment

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POSITIONS OPEN 

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Assistant Professor with postdoctoral experience in insect physiology, effective 1 April 1975. Undergraduate and graduate teaching, develop-ment and direction of a research program in insect physiology and application of some aspects of this field to agricultural or forest entomology. Maximum starting salary \$14,043. Send curricu-lum vitae and names of three referees by 31 October 1974 to: Dr. George E. Ball, Chairman, Department of Entomology, 260 Agriculture Building, University of Alberta, Edmonton, Alberta, T6G 2E3, Canada.

#### ASSISTANT PROFESSOR OF PHARMACOLOGY

PHARMACULOGY Position open to individual with training in lipid chemistry and particularly peroxidation and the role of peroxides in tissue metabolism. Teaching experience with medical students and graduate students desirable. Teaching duties to include medical and graduate school lectures and as-sistance with medical laboratory teaching. Salary to \$16,000. Equal Opportunity Employer. Write Dr. S. P. Bessman, Chairman, Department of Pharmacology, University of Southern Califor-nia, 2025 Zonal Avenue, Los Angeles, Califor-nia 90033.

#### ASSISTANT PROFESSOR OF WILDLAND RECREATION

To teach graduate and undergraduate courses and conduct research in the wildland recreation field. Teaching and field experience highly desir-able. Ph.D. with at least one degree in a natural resource management area such as wildlife, for-estry, range, or recreation mandatory. Contact Grant A. Harris, Department of Forestry and Range Management, Washington State University, Pullman, Wash. 99163. Search closes 15 August 1974.

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#### CENTER FOR POPULATION RESEARCH

The National Institutes of Health now has positions available in Bethesda, Maryland. Posi-tion for epidemiologist preferably with medical background for work in research contracts pro-gram concerned with the evaluation of various methods of contraception. Must have research experience. \$17,497 to \$31,519.

experience. \$17,497 to \$31,519. Position available for scientist for administra-tion of contracts in contraceptive development. Area of responsibility requires familiarity with drug delivery systems, pharmacokinetics, drugs bioavailability and material-tissue interactions. Background in reproductive biology (as well as in general pharmacology) is desirable. \$17,497 to \$26,878.

Forward résumé or Federal Application Form (SF-171) to: Mrs. Donna H. Thiele, Personnel Office, Building 31, Room 2A-25, National In-stitute of Child Health and Human Development, National Institutes of Health, Public Health Service, Bethesda, Maryland 20014.

#### DIRECTOR

The Jackson Laboratory invites applications for the position of Director of the Laboratory, which will become open on 1 October 1975. Qualified applicants are invited to submit a curriculum vitae and summary of experience to one of the following:

- one of the following:
  Dr. James D. Ebert, Chairman, Search Committee, Marine Biological Laboratory, Woods Hole, Massachusetts 02543
  Dr. James F. Crow, Member, Search Committee, Department of Medical Genetics, University of Wisconsin, Madison, Wisconsin 53706
  Dr. Douglas L. Coleman, Secretary, Search Committee, The Jackson Laboratory, Bar Harbor, Maine 04609

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Department of Kinesiology SIMON FRASER UNIVERSITY

Burnaby, British Columbia, V5A 1S6

(From whom further details can be obtained)



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# THE UNIVERSITY OF WEST FLORIDA FACULTY OF BIOLOGY

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# BIOMEDICAL PROFESSOR OF BIOCHEMISTRY

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FAMILY PRACTICE The University of Oklahoma College of Medi-cine, Tulsa, a new clinical branch of the Uni-versity of Oklahoma College of Medicine for predoctoral and postdoctoral programs, is seek-ing an outstanding academic physician to direct the Department of Family Practice and to assist the college in developing new programs of health care delivery for the State of Oklahoma. Inter-ested parties should send a curriculum vitae and three references to the Office of the Dean, Uni-versity of Oklahoma College of Medicine, Tulsa, 3233 East 31 Street, Tulsa, Oklahoma 74105. The University of Oklahoma is an equal opportunity employer

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ELECTRON MICROSCOPIST and MOLECU-LAR BOTANIST positions available. First posi-tion with demonstrated research experience in area of cryptogamic ultrastructure, to teach fine structure of plant cells and at introductory botany level. Assist in training graduate students in botany and related plant departments. Carry on active research program. Salary and rank commensurate with experience. Second position at Assistant Professor level. Teach in area of molecular botany and introductory botany level. Guide graduate students in dissertation studies. Research interest in plant nucleic acid and/or protein metabolism. Curriculum vitae, bibliog-raphy, and reference letters to: Head, Botany Department, University, of Massachusetts, Am-herst, Mass. 01002. The University Is an Equal Opportunity/Affirmative Action Employer.

#### DEAN

DEAN Dean of the School of Mathematics and Science, Montclair State College. A college of 7000 under-graduates and 4600 graduate students, located ½ hour from New York City. Applicant should have a terminal degree in one of the following: biological or physical sciences or mathematics. Proven scholarship and administrative experi-ence: concern for students and the quality of teaching. Starting salary no higher than mid-point of the range \$21,876 to \$29,534. Position open after 1 February 1975. Send applications and supporting documents to: Dr. Philip S. Cohen Search Committee, Russ Hall Montclair State College Upper Montclair, N.J. 07043 Montclair State College is an equal opportunity/ affirmative action institution.

The Philadelphia Regional Office of the U.S. Environmental Protection Agency is seeking a FACULTY MEMBER with a background in Physics, Electrical and Mechanical, Civil or Chemical Engineering for an intergovernmental personnel act assignment starting after the spring session for 1 year. The assignment will be to develop the noise program of the region. Salary and benefits are negotiable with the institution concerned. For further information, contact the Personnel Office, Environmental Protection Agency, Sixth and Walnut Streets, Philadelphia, Pa, 19106. The Philadelphia Regional Office of the U.S. Pa, 19106.

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# DEPARTMENT OF GEOLOGICAL SCIENCES COLUMBIA UNIVERSITY Faculty Position

**COLUMBIA UNIVERSITY Faculty Position** The Department of Geological Sciences (for-merly Geology) in Columbia University has an opening for a faculty member with responsibility for teaching mineralogy at the undergraduate and graduate levels. Preference will be given to candidates with research interests in petrology (metamorphic and/or igneous) who would con-duct energetic programs closely related to the studies in petrology, structural geology, s'ratig-raphy, and tectonophysics currently being under-taken at Lamont-Doherty Geological Observa-tory. This position was previously advertised as an opening for a mineralogist. The appointment is most likely to be made at the Assistant Professor level. The position need not be filled until the fall of 1975, but if a well-qualified candidate is found, an appointment will be made for the fall of 1974. Interested scientists should send their curriculum vitae and the names of at least three referees to: **Professor Ian W. D. Dalziel, Chairman Department of Geological Sciences Columbia University in the City of New York New York, New York 1027** 

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#### HEAD, DEPARTMENT OF ENGINEERING

HEAD, DEPARTMENT OF ENGINEERING Purdue University Calumet Campus solicits applications for the position of Head of the Engineering Department starting with academic year 1975-76. Duties comprise minimal class-room teaching and emphasis on administering a growing engineering curriculum including gradu-ate studies. Applicants with Ph.D. should possess thorough grounding in some specialty of mechani-cal engineering with demonstrated administrative ability and initiative. Send résumé to Dr. A. L. Kaye, Chairman, Engineering Search Committee, Purdue University Calumet Campus, Hammond, Indiana 46323. Purdue Calumet Is an Equal Op-portunity and Affirmative Action Employer.

#### INSTRUCTOR

INSTRUCTOR Position available in the Department of Oph-thalmology, University of Michigan Medical School. Must be Board certified or eligible with special training in fluorescein angiography, medi-cal ophthalmology, and ocular genetics. Must be capable of running a fluorescein angiography laboratory, have experience in the teaching of medical students and residents, and must make a long-term commitment to academic ophthalmol-ogy. Send résumé to **Box 351, SCIENCE**. *A Nondiscriminatory Affirmative Action Em-*ployer. ployer

#### POSITIONS OPEN

#### JUNIOR FACULTY POSITION

To participate in studies planned on aerosol be-havior in the lung. Background in respiratory physiology and particle behavior or fluid dy-namics important. To begin the fall of 1974. Please send résumé and references to: Dr. Robert Frank, Department of Environmental Health, University Washington School of Public Health, Seattle, Wash. 98195. An equal oppor-tunity employer.

#### MARINE CHEMIST

To conduct laboratory separation and analysis of marine organic natural products in Seward, Alaska. Qualification: M.S. in natural science or B.S. plus research experience in organic natural products analysis, Send curriculum vitae, and two letters of ref-erence, to Dr. R. A. Nevé, Institute of Marine Science, University of Alaska, Seward, Alaska 99664

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MOLECULAR BIOLOGIST-BIOCHEMIST

Postdoctoral position (Ph.D.), Research in nucleic acids and protein synthesis in inverte-brates. Send curriculum vitae to

Dr. M. Agosin Department of Zoology University of Georgia Athens, Georgia 30602

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Candidates should have a Ph.D. in operations research or a related field and experience in applying operations research methodology in applying applying operations research methodology in health. Faculty position and salary commensurate with ability and experience. Equal opportunity employer. Send detailed résumé to Dr. R. Forthofer, University of Texas, School of Public Health, P.O. Box 20186, Houston, Texas 77025.

#### PATHOLOGY FACULTY WANTED

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### PHARMACOLOGY FACULTY OPENINGS

PHARMACOLOGY FACULTY OPENINGS Two faculty openings in the Department of Pharmacology and Toxicology at the University of Mississippi Medical Center. Both at the as-sistant or associate professor level. M.D. or Ph.D. required for either. Applicants for posi-tion one should have active research interests in areas of psychopharmacology or peripheral neuropharmacology. Applicants for position two must have active research interests in general toxicology or environmental toxicology. Both positions require teaching of medical and gradu-ate students. Send curriculum vitae and names of three references to Dr. W. O. Berndt, Chair-man, Department of Pharmacology and Toxicol-ogy, University of Mississippi Medical Center, Jackson, Miss. 39216. An Equal Opportunity Employer, Male/Female

#### Ph.D.

Ph.D. The University of Washington is seeking a qual-ified Ph.D. for a position to be held jointly be-tween the Applied Physics Laboratory and the Department of Oceanography. The position will involve some teaching. The candidate must have a Ph.D. in oceanography or a related degree and have demonstrated capability in the field of theoretical studies of space and time scales of oceanic structure. The candidate must be inter-ested in carrying out a theoretical research pro-gram in conjunction with several interconnected experimental programs. Applicants should contact Dr. Terry Ewart (206-543-1327), or send curricu-lum vitae and bibliography to the Applied Physics Laboratory, 1013 N.E. 40 Street, Seat-tle, Washington 98195. The University of Washington is an equal opportunity-affirmative action employer and will welcome applications from members of minority groups and women.

#### POSTDOCTORAL POSITION

Available immediately for Biochemist or Micro-biologist to work on membrane permeability and the mechanism of action of colicins, Salary \$8000, Send curriculum vitae and references to

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SCIENCE, VOL. 185

### POSITIONS OPEN

#### POSTDOCTORAL ASSOCIATE

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An equal opportunity employer. Yale welcomes women & minority group applicants.

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Applicant holding Ph.D. with training in natu-ral product isolation will be considered. Research emphasis will involve isolation and identification of metabolites from potato tubers which have been subjected to injury and disease. Applicant must be familiar with IR, NMR, and mass spec-tral methods of analysis. Make application to:

Dr. Richard J. Spangler

University of Idaho **Department of Chemistry** Moscow, Idaho 83843

The University of Idaho is an Affirmative Action/Equal Opportunity Employer. All quali-fied applicants will be considered without regard to race, color, national origin, sex, or religion.

#### **PROFESSOR OF BIOMETRY** OR BIOSTATISTICS

OR BIOSTATISTICS Applicants are invited to apply for a new senior-faculty position in the Statistical Science Division, Department of Computer Science, starting in September 1975. Applicants should have an outstanding record of research, train-ing, and collaboration in the Health and Statisti-cal Sciences. Responsibilities include teaching, developing curriculum for undergraduate and graduate courses in Biometry and Statistical Science for specialists and nonspecialists, and active participation in the collaborative activities within the Statistical Laboratory, Applications from women and minority candidates will be especially welcome. Please send curriculum vitae to: Professor Marvin Zelen, Chairman, Search Committee, Statistical Laboratory, State Univer-sity of New York at Buffalo, 4230 Ridge Lea Road, Amherst, New York 14226.

Applications are invited for a position involving **DEVELOPMENT OF RADIOIMMUNOASSAYS** in support of a broadly based program in drug and hormone research. Applicants should have experience in radiolabeling and purification of radiolabeled substances and in the coupling of materials to carriers for enhancement of immuno-genicity. Successful applicant will also become the corporate radiochemical officer. Candidates with Masters or Ph.D. degrees will be consid-ered. Send résumés to:

Peter D. Cullen Senior Personnel Representative ELI LILLY AND COMPANY 240 East McCarty Street Indianapolis, Indiana 46206 ELI LILLY AND COMPANY An Equal Opportunity Employer

#### **RESEARCH ASSOCIATE**

**RESEARCH ASSOCIATE** At West Virginia University Medical Center, located in beautiful mountainous resort area 70 miles south of Pittsburgh, Pennsylvania. Will conduct research under a National Cancer In-stitute grant. Research involves the isolation and identification of human tumor-associated lung carcinoma antigens. Ph.D. required and back-ground in column chromatography, polyacrylam-ide gel electrophoresis and chemical fractiona-tion of cellular antigens. Send résumé to: Dr. Robert W. Veltri, Director, Otolaryngology Re-search, West Virginia University Medical Center, Morgantown, West Virginia 26506. An Equal Opportunit, /Affirmative Action Employer.

### POSITIONS OPEN

# **UT-AEC COMPARATIVE ANIMAL** RESEARCH LABORATORY TWO FULL-TIME RESEARCH STAFF POSITIONS OFFERED

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Qualified candidates should submit applications to: Dr. H. E. Walburg, Director, UT-AEC Comparative Animal Research Laboratory, 1299 Bethel Valley Road, Oak Ridge, Tennessee 37830. An Affirmative Action/Equal Opportunity Employer

An Applications are invited for TWO SENIOR Applications are invited for TWO SENIOR (PH.D.) BIOLOGIST OR CELL PHYSIOLO-GIST POSITIONS involving research on the establishment of mammalian cells in culture and the study of factors affecting their growth and rate of synthesis and release of biologically-active macromolecules. Send résumé to: Peter D. Cullen Senior Personnel Representative ELI LILLY AND COMPANY 240 East McCarty Street Indianapolis, Indiana 46206 ELI LILLY AND COMPANY An Equal Opportunity Employer

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#### SENIOR PSYCHOLOGIST

SENIOR PSYCHOLOGIST Applications are invited for a permanent posi-tion at the rank of full professor, effective 1 July 1975, in any area (nonclinical) of psychol-ogy at Scarborough College in the University of foronto. Duties—undergraduate and graduate instruction in psychology and the development of an active research program. Applicants must have a Ph.D. or equivalent, about 10 years of academic or equivalent, about 10 years of academic or equivalent experience, and an established reputation in scholarship. Salary negotiable. Appointment is effective 1 July 1975. Closing date for applications is 1 January 1975 or when position is filled. Send applications, including a complete curriculum vitae and the names of three referees, to Dr. J. C. Ritchie, Chairman, Division of Life Sciences, Scarborough College, University of Toronto, 1265 Military Trail, West Hill, Ontario.

# FELLOWSHIPS

## **POSTDOCTORAL FELLOW**

Cardiovascular Pharmacology

Cardiovascular Pharmacology We currently have an excellent opportunity for an individual to collaborate with established senior research investigators in the area of hypertension. Requirements include recent training (Ph.D.) in pharmacology or physiology with experience in the autonomic area. (Publications are encour-aged.) We offer an excellent salary plus an out-standing benefits package. Qualified applicants should forward a curriculum vitate to J. E. Allen, Squibb Institute for Medical Research, P.O. Box 4000, Princeton, N.J. 08540.

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# POSTDOCTORAL FELLOWSHIPS AVAILABLE IN GENERAL AREAS INVOLVING ALCOHOL

The Johnson Research Foundation invites ap-plications for two postdoctoral fellowships to begin in the fall of 1974. Applicants must hold a Ph.D. or M.D. degree, in physics, chemistry, biology, biochemistry, pharmacology, physiology, or medicine biology, bio or medicine A stipen

or medicine. A stipend of \$10,000 plus dependency allow-ance accompanies an award. Inquiries should include a résumé (curriculum vitae, transcript of graduate or medical educa-tion, and three letters of recommendation) and should be sent to: Dr. Ronald G. Thurman, Johnson Research Foundation, Department of Biophysics and Physi-cal Biochemistry, University of Pennsylvania School of Medicine, Philadelphia, Pa. 19174.

#### POSTDOCTORAL RESEARCH FELLOWSHIP Molecular Biology and Immunology of the **Coagulation System**

Investigative training for Ph.D. or M.D. in Basic Research Institute. To participate in re-search programs devoted to the molecular im-munology of the coagulation system, and the interface of the coagulation system with other molecular and cellular systems.

Dr. Thomas S. Edgington Department of Molecular Immunology Scripps Clinic and Research Foundation La Jolla, California 92037

## FELLOWSHIPS

#### POSTDOCTORAL RESEARCH FELLOWSHIPS IN BIOLOGICAL PSYCHOLOGY

Recent Ph.D.'s in psychology or related biological sciences are invited to apply for anticipated 1- to 2-year postdoctoral fellowships in one of four areas: (1) psychopharmacology (animal); (2) biological rhythms and sleep; (3) psychophysiology and biofeedback; or (4) human neuropsychology. Please send curriculum vitae and the names of three references to **Dr. Oscar** A. Parsons, Department of Psychiatry and Behavioral Sciences, University of Oklahoma Health Sciences Center, P.O. Box 26901, Oklahoma City, Oklahoma 73190.

An Equal Opportunity Employer

THE AUSTRALIAN NATIONAL UNIVER-SITY is inviting applications for appointment as Fellow/Senior Fellow in the Department of En-vironmental Biology, Research School of Bio-logical Sciences. The Department has an active program of research in plant and animal ecology and related areas of plant physiology. Applicants should be capable of establishing a strong re-search program in an aspect of community or population ecology. Present interests in these subjects include:

1) Effects of environmental factors on the structure and function of communities and of whole ecosystems.

whole cosystems,
2) First-order interactions between species within an ecosystem; for example, competition between species dependent on similar physical or biotic resources, interactions between herbivore and plant, and between predator and prey.
3) Higher order effects in which the interactions between species are mediated by the activity of other biotic factors in the system.

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For entry blanks and detailed rules, contact Grayce A. Finger, American Association for the Advancement of Science, 1515 Massachusetts Avenue, NW, Room 306, Washington, D.C. 20005. Or call 202-467-4483.