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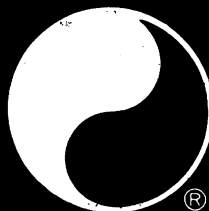
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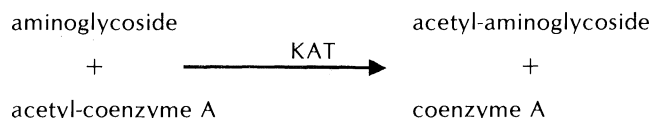
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Life Sciences Writer/Editor seeks free-lance assignments or position in university, foundation, association, government, or industry. Ten years of editorial experience includes magazine and newspaper journalism, scholarly articles and books, ghostwriting, advocacy. Expert in interpreting arcane matters for laymen and helping professionals be more lucid. Author of more than 200 signed biomedical encyclopedia articles. Awards. University teaching and research background in basic and clinical sciences. P. L. Petrakis, Ph.D., M.P.H., 12115 Bluhill Road, Silver Spring, Maryland 20902. Telephone: 301-949-4226. X

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POSITIONS WANTED

Microbiologist/Microbial Physiologist. Ph.D. 1966. Seeks position in industrial research or quality control. Fifteen years of experience includes environmental microbiology, soils, water pollution, anaerobes, and vaccine production. Publications. Box 151, SCIENCE. 5/11, 25

Microbiologist. Ph.D. 1976. Broad background in environmental, pharmaceutical, and food science. Specific interest in wastewater pollution, drug resistance, enzyme, enterotoxin, electron microscopy, computer modeling, and some programming. Desires position in government, industry, or academic/research institute. Relocation. Box 152, SCIENCE. X

Pharmacologist/Toxicologist. Ph.D. Semi-retired professor with extensive experience in drug screening, scientific writing, and pre-publication editing. College laboratory facilities available. Desires position as consultant. J. F. Reinhard, 41 Bay View Road, Wellesley, Massachusetts 02181. Telephones: 617-237-1797 (home), and 617-734-6700, extension 154 (office). X

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Position at professorial level 1 July 1979 in Department of Anesthesiology. Board-certified **ANESTHESIOLOGIST** with Michigan licensure. Appropriate publications and academic experience for rank. Research, clinical, and didactic experience. Reply to: **Box 154, SCIENCE.** Code 200B0. A non-discriminatory. Affirmative Action Employer.

ASSISTANT PROFESSOR. Tenure-accruing position to conduct ecological and physiological research relating to aquatic plant competition and the successions following use of different weed control technologies, and impact on water quality and non-target organisms. Ph.D. in aquatic plant ecology or plant physiology. A B.S. or M.S. in weed science desirable. Applications close 1 August 1979. Submit résumé, transcripts, and three letters of recommendation to: **Dr. W. B. Ennis, Jr., Center Director, University of Florida-IFAS, Agricultural Research Center, 3205 S.W. 70th Avenue, Fort Lauderdale, Florida 33314.**

ASSISTANT PROFESSOR OF BIOLOGICAL SCIENCES

Qualifications: Ph.D. in animal physiology.

Responsibilities: teaching biological science course, general physiology, and developing an advanced physiology course; supervision of graduate students in areas of specialization; initiation of vigorous research program in area(s) of major interest. This is a tenure-track position.

Salary: negotiable.

Date available: August 1979.

Application: forward letter of application, official transcripts, curriculum vitae, and three letters of recommendation to:

**Dr. James D. Yarbrough, Professor and Head
Department of Biological Sciences
Mississippi State University
P.O. Drawer GY
Mississippi State, Miss. 39762**

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

Application deadline: 15 June 1979.

ASSISTANT PROFESSOR OF LIMNOLOGY. Ph.D. required. Must also have competence in comparative anatomy and embryology. Position to begin January 1980. Send résumé and three references to: **Biology Search Committee, Biology Department, Ashland College, Ashland, Ohio 44805.**

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ASSISTANT PROFESSOR—MICROBIOLOGY, tenure-track position available 1 September 1979 for Ph.D. able to teach microbiology, emphasis on food and sanitation. Applicant will have other teaching responsibilities in Department of Biology and will have an opportunity to establish moderate research program involving undergraduate and master's level students. Send résumé to: **Dr. James Haynes, Chairman, Department of Biology, State University College at Buffalo, 1300 Elmwood Avenue, Buffalo, N.Y. 14222.** *State University College at Buffalo is an Affirmative Action/Equal Opportunity Employer.*

POSITIONS OPEN

ASSISTANT PROFESSOR DISEASE PHYSIOLOGIST

The Agricultural Research and Education Center at Lake Alfred, a branch of the University of Florida, Institute of Food and Agricultural Sciences (IFAS), invites applications for a 12-month tenure-accruing appointment at the assistant professor level. Salary depends upon qualifications and experience. Individual will conduct full-time research on the physiology of diseased plants with emphasis on blight and other decline diseases of citrus trees. Ph.D. required in plant pathology, plant physiology, biochemistry, forestry, or related fields. Candidates with training and/or experience in stress physiology and effects of diseases and toxins on the host will be given preference. Citizens of the United States will be given preference. Please send formal letter of application, résumé, college transcripts, and three letters of recommendations to: **A. W. Feldman, Chairman, Search Committee, University of Florida, IFAS, Agricultural Research and Education Center, P.O. Box 1088, Lake Alfred, Fla. 33850.** Refer to Position No. 91864. Closing date: 1 June 1979 or until an acceptable candidate applies. *An Equal Opportunity/Affirmative Action Employer.*

FULL-TIME ASSISTANT PROFESSOR OF PEDIATRICS, Board-eligible in pediatrics and 1-year postgraduate fellowship with experience in emergency room in a large pediatric institution with house-staff, private practitioners, surgeons, and full-time subspecialty faculty. Will work as a clinician in the pediatric emergency room and in the division of ambulatory pediatrics at the Children's Hospital Medical Center. Duties include: caring for children with various medical diseases, instructing pediatric houseofficers and medical students in the care of emergency and ambulatory pediatric problems, and giving conferences in ambulatory pediatrics.

FULL-TIME ASSISTANT PROFESSOR OF PEDIATRICS, Board-eligible in pediatrics and 3-year postresidency fellowship in gastroenterology including research. Must be capable of independent research in small intestinal mucosal lipid metabolism and able to work in the field of bile acid kinetics. Must be capable of patient care and teaching of general pediatric medicine at the "primary" and "tertiary" care levels. Duties include: research in gastrointestinal physiology, teaching of pediatric gastroenterology, and supervision of patient care by pediatric residents and fellows. Send curriculum vitae and letters of recommendation from three persons in your subspecialty to: **William K. Schubert, M.D., Chief of Staff, Children's Hospital Medical Center, Cincinnati, Ohio 45229.**

ASSISTANT PROFESSOR

Requirements: M.D. or M.D.-Ph.D. degrees with interest in the study of cardiac receptors. Must have basic training in and already demonstrated productivity in the evaluation of cardiac receptors and be committed to a career in basic research in academic cardiology. Duties include basic science investigation and teaching. Send curriculum vitae to: **Belinda Lambert, Ischemic Heart Center, Room L5.134, University of Texas Health Science Center at Dallas, Dallas, Texas 75235.** *An Equal Opportunity Employer, M/F/H.*

ASSISTANT PROFESSOR

Requirements: M.D. or M.D.-Ph.D. degrees. Skill and interest in basic cardiac electrophysiology. Must be capable in all investigational aspects of myocardial cellular electrophysiology including voltage clamp techniques. Must be committed to a career in basic research in academic cardiology. Duties include basic science investigation and teaching. Send curriculum vitae to: **Belinda Lambert, Ischemic Heart Center, Room L5.134, University of Texas Health Science Center at Dallas, Dallas, Texas 75235.** *An Equal Opportunity Employer, M/F/H.*

INSTRUCTOR OF INTERNAL MEDICINE

Requirements: M.D. degree with clinical training in internal medicine and cardiology. Investigational training and expertise in the evaluation of chronically instrumented animal models with heart failure or ischemic heart disease. Must be seriously committed to a career in academic cardiology. Duties include the research study of chronically instrumented animals and clinical cardiology responsibilities. Send curriculum vitae to: **Belinda Lambert, Ischemic Heart Center, L5.134, University of Texas Health Science Center at Dallas, Dallas, Texas 75235.** *An Equal Opportunity Employer, M/F/H.*

POSITIONS OPEN

ASSISTANT PROFESSOR OF PHARMACY IN-RESIDENCE

The School of Pharmacy, University of California, San Francisco, is recruiting for an assistant professor in-residence who will perform laboratory and data analytical operations of the Drug Studies Unit, an organized research unit. This unit performs phase I through IV clinical trials in normal individuals and in patients. Required: Ph.D. degree with training in analytical methodology, pharmacokinetics, data analysis, and clinical trial design. Duties: conduct research operations of the Drug Studies Unit, research; teaching in the Department of Pharmacy. *All qualified candidates welcome; minorities and women encouraged to apply.* Send curriculum vitae and three references before 1 June 1979 to:

Dr. Roger L. Williams
926-S
University of California
San Francisco, Calif. 94143

ASSISTANT PROFESSOR OF PHYSICS—Ph.D. or A.B.D. in physics plus some teaching experience at college level. Teach all phases of undergraduate physics for physics majors and for other science and nonscience majors. Support undergraduate student research. Participate in governance and committee work. \$14,505 to \$15,956; 10 months. Start September 1979. Send résumés by 22 May 1979 to: **Affirmative Action Office, Ramapo College of New Jersey, 505 Ramapo Valley Road, Mahwah, N.J. 07430.** *An Affirmative Action/Equal Opportunity/Disabled Employer. RCNJ is barrier free. Women, minority, disabled, and veterans are encouraged to apply.*

NATIONAL SCIENCE FOUNDATION DIVISION OF MATERIALS RESEARCH

The National Science Foundation is seeking applicants for the position of **ASSISTANT/ASSOCIATE PROGRAM DIRECTOR**, Solid State Physics Program, Condensed Matter Sciences Section, Division of Materials Research. The position is excepted from the competitive civil service and is equivalent to the GS-13/14 level (\$27,453 to \$42,171). This position will be filled on a rotational basis. Applicants should have a Ph.D. or equivalent experience and training in an appropriate field plus 6 years of successful scientific research experience. A broad general knowledge of the field and some administrative experience are also required. Those interested should send current résumés by 15 June 1979 to: **Division of Personnel Management, National Science Foundation, 1800 G Street, NW, Attention: Personnel Management Branch, Washington, D.C. 20550.** For further information, telephone: E. Paul Broglio at 202-632-4106. *The National Science Foundation is an Equal Opportunity Employer.*

NATIONAL SCIENCE FOUNDATION DIVISION OF MATERIALS RESEARCH

The National Science Foundation is seeking qualified applicants for the position of **ASSISTANT/ASSOCIATE PROGRAM DIRECTOR** for the Metallurgy Program, Metallurgy and Materials Section, Division of Materials Research. The position is excepted from the competitive civil service and is equivalent to GS-13/14 level (\$27,453 to \$42,171 per annum). This position will be filled on a rotational basis. Applicants should have a Ph.D. or equivalent in experience and training in an appropriate field plus 6 years of successful scientific research experience. A broad general knowledge of the field and some administrative experience are also required. Those interested should send current résumés by 1 July 1979 to: **Division of Personnel and Management, Room 212, 1800 G Street, NW, Attention: Personnel Management Branch, Washington, D.C. 20550.** For further information, telephone: E. Paul Broglio at 202-632-4106. *The National Science Foundation is an Equal Opportunity Employer.*

BIOLOGY INSTRUCTOR

Instructor in biology. It does not lead to tenure. Primary duties: supervision and coordination of laboratory preparation for multisection courses in biology staffed by Botany-Bacteriology and Zoology Departments; lecture one section. M.S./M.A. in biological sciences minimal; experience desirable. Twelve-month appointment; salary: \$12,500-\$13,000. Send curriculum vitae and three letters of recommendation by 31 May 1979 to: **Dr. Raj V. Kilambi, Biology Chairman, Science Building, Room 405, University of Arkansas, Fayetteville, Arkansas 72701.**

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

POSITIONS OPEN

ASSOCIATE DEAN. Applications are invited for the position of associate dean of the School of Medical Sciences, University of Nevada, Reno. Responsibilities include day-to-day operation of the medical school, budget development, and implementation of affiliation agreements with associated hospitals in the Reno area. Candidates must have a M.D., Ph.D., or equivalent; experience in medical school administration; and the interpersonal skills needed to foster constructive working relationships in a medical school environment.

The position is available in summer 1979; deadline for application is 15 June 1979. Send curriculum vitae and names of three references to:

Thomas R. Kozel, Ph.D.
Chairman of Associate Dean Search Committee
School of Medical Sciences
University of Nevada
Reno, Nevada 89557

The University of Nevada is an Equal Opportunity Employer and does not discriminate on the basis of sex, race, color, religion, handicaps, or national origin in the educational programs or activities which it operates.

BIOCHEMICAL GENETICIST. The Department of Human Genetics of the New York State Institute for Basic Research in Mental Retardation is seeking a full-time member at the research scientist grade 22 level. The preferred candidate would have a Ph.D. degree and have experience in the field of the mucopolysaccharidoses. Send curriculum vitae, brief description of research interests, and three letters of recommendation to: **Personnel, Attention: Dr. Nicholas G. Beratis, New York State Institute for Basic Research in Mental Retardation, 1050 Forest Hill Road, Staten Island, New York 10314.** Reference job #58. *Equal Opportunity/Affirmative Action Employer.*

BIOCHEMICAL TOXICOLOGIST

A senior-level permanent position for a research chemist, biologist, or pharmacologist to develop, conduct, and lead research on the biochemical mechanisms of chemical toxicity with emphasis in one or more of the following areas: metabolic activation, alteration of macromolecules, detoxification pathways, cellular repair mechanisms, or tumor promotion and cocarcinogenesis. A Ph.D., or equivalent, with several years of postdoctoral experience in one of these areas is required. Salary range is \$27,453 to \$32,442 (GS-13/14), depending on qualifications of applicant. Send résumé and Standard Form 171 to: **National Center for Toxicological Research, Personnel Office, HFT-15, Jefferson, Arkansas 72079.** *An Equal Opportunity/Affirmative Action Employer.*

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

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

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

BIOLOGIST—TECHNOLOGY AND POLICY ASSESSMENT

School of Engineering and Applied Science, Princeton University, has immediate opening for research leader for technology and policy assessment of toxic wastes. Research position equivalent to associate professor. Applicant should have Ph.D. in biology, refereed publications, strong references, and federal government experience in Legislative or Executive Branch. Salary commensurate with training and experience.

Please send résumé and names and addresses of five references to:

Professor David Ollis
Department of Chemical Engineering
Princeton University
Princeton, N.J. 08544

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POSITIONS OPEN

BIOCHEMIST. A position as assistant professor/research associate is expected to be available for 1 to 2 years in the Department of Biochemistry at the University of Massachusetts. Responsibilities include teaching a course in molecular biology as well as a small segment of a team-taught course in general biochemistry. In addition, the candidate will help to direct, and actively participate in, research on ribosome structure and function. Prior experience in protein synthesis research required. Send résumé and names of three references to: **Dr. R. A. Zimmermann, Department of Biochemistry, University of Massachusetts, Amherst, Mass. 01003.** *An Affirmative Action/Equal Opportunity Employer.*

BIOLOGIST, Ph.D.

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

An Equal Opportunity/Affirmative Action Employer

CHAIRMAN DEPARTMENT OF SURGERY GEORGETOWN UNIVERSITY SCHOOL OF MEDICINE

The school is searching for a new chairperson for this important clinical department who will also be chief of the surgical service at Georgetown University Hospital and director of the residency programs. The department has services at several affiliated hospitals including the District of Columbia General Hospital. Applicants should be experienced in a surgical specialty, teaching at the undergraduate and postgraduate levels, and in research. *Georgetown University is an Affirmative Action/Equal Opportunity Institution in employment and admissions.* Letters from interested persons or proposals for the position should be addressed to:

Heinz Bauer, M.D.
Professor of Pathology
Georgetown University
School of Medicine
Washington, D.C. 20007

DEPARTMENT CHAIRMAN, Design and Environmental Analysis, New York State College of Human Ecology. Administration of teaching, research, and extension/public service in a multidisciplinary department. Ph.D. or equivalent professional training and experience. Date of appointment is 1 January 1980 or as soon as possible thereafter. Send academic credentials, references, and résumés by 1 June to: **Marion E. Minot, Professor, New York State College of Human Ecology, Cornell University, Ithaca, New York 14853.** *Cornell University is an Equal Opportunity/Affirmative Action Employer. New York State College of Human Ecology is seeking ethnic diversity.*

CLIMATE DYNAMICIST

The Department of Land, Air, and Water Resources—Atmospheric Science Program, invites application for a 2-year position, half-time being devoted to teaching and half-time to research. Research emphasis should be in the areas of climate and climatic change and biometeorology, with emphasis on the use of numerical methods for climate modeling. Teaching may include both undergraduate and graduate level courses in meteorology. Rank and salary depend on qualifications; the Ph.D. is the minimal qualification. Applicants should submit curriculum vitae, statement of teaching and research interests and background, undergraduate and graduate transcripts, list of publications, reprints, and names and addresses of at least three references, to be sent to: **Bryan C. Weare, Search Committee, Department of Land, Air, and Water Resources, Hoagland Hall, University of California, Davis, California 95616.** Closing date is 1 July 1979.

The University of California is an Equal Opportunity/Affirmative Action Employer and invites application from all qualified individuals.

CLINICAL MICROBIOLOGIST. Ph.D. with training and experience in clinical microbiology to supervise diagnostic laboratory and participate in teaching programs. Research interest desirable. Salary and faculty rank at University of Southern California School of Medicine commensurate with experience. Send curriculum vitae and three letters of recommendation to: **A. I. Lipsey, M.D., Childrens Hospital of Los Angeles, P.O. Box 54700, Los Angeles, California 90054.** *Childrens Hospital and University of Southern California are Equal Opportunity/Affirmative Action Employers.*

POSITIONS OPEN

DEAN OF THE SCHOOL OF NURSING

The University of South Carolina at Spartanburg (USCS) is accepting applications and nominations for dean of the School of Nursing. The dean is the chief administrative officer of the school reporting directly to the vice chancellor for academic affairs. The School of Nursing offers a bachelor of science in professional nursing degree and an associate degree in technical nursing. USCS, located in the Piedmont region of South Carolina, is a commuter college branch of the University of South Carolina with over 2200 students.

Qualifications: earned doctorate in appropriate field, bachelor and master of science degrees in nursing required, administrative and teaching experience, evidence of professional accomplishment, ability to establish and maintain positive relationship with the health community. Salary competitive. Position available 1 July 1979. Applicants should send a letter of intent, résumé, three letters of reference, and transcripts to: **Carol Schwartz, Chairperson of Search Committee, School of Nursing, University of South Carolina at Spartanburg, Spartanburg, S.C. 29303.** Applications will be accepted until 1 July 1979. *USCS is an Affirmative Action/Equal Opportunity Employer.*

ECOLOGIST. The Department of Biological Sciences, Purdue University, seeks a population or community ecologist to join faculty working in the areas of ecology, evolutionary biology, animal behavior, and population genetics. Applicants must show evidence of academic excellence by publications or research grants and demonstrated teaching ability. Candidates who are contributing to the development or field-testing of ecological theory will be favored. The appointment, probably but not necessarily at the level of assistant professor, is available 1 July 1979. Applications, including curriculum vitae, list of publications, statement of research interests, and the names of three references, should be submitted before 31 May 1979 to: **Professor Struther Arnott, Head, Department of Biological Sciences, Purdue University, West Lafayette, Ind. 47907.** *Purdue University is an Equal Opportunity/Affirmative Action Employer.*

ELECTROPHYSIOLOGIST

Eli Lilly and Company, a leading worldwide manufacturer of pharmaceutical products, agricultural products, cosmetics, and electronic medical instrument systems, is searching for a qualified individual who will be a member of the central nervous system research department responsible for the development of quality pharmaceutical products.

Responsibilities include in vivo and in vitro research on the effects of neuro-transmitter candidates and drugs on single neurons in the central nervous system. Emphasis will be placed on the study of the neuro-pharmacology of peptides and amino acids.

Applicants should have the B.S. or M.S. degree with experience in electrophysiology (particularly with recording single neuronal activity with single- or multiple-barreled micropipettes). Experience in the techniques of microelectrophoresis and on-line computer analysis is desirable.

Send résumé with salary requirements to:

**Peter D. Cullen
Senior Personnel Representative
Eli Lilly and Company
307 East McCarty Street
Indianapolis, Indiana 46206**

FACULTY POSITION

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

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

POSITIONS OPEN

EXPERIMENTAL PATHOLOGIST

Opportunity available for individual with a professional degree (D.V.M. or M.D.), well-trained in anatomic pathology (Board-certified or Board-eligible), to contribute to the experimental pathology efforts of the Inhalation Toxicology Research Institute. The institute has a strong multidisciplinary team research effort involving scientists in physical, biophysical, and medically related fields including D.V.M. and M.D. pathologists and D.V.M.'s in other areas. The institute, which is heavily oriented to comparative animal experimentation, is addressing significant problems concerning the effects of airborne toxic materials on man and his environment. The successful candidate will be expected to design and implement both independent and collaborative research on inhaled toxicants and to conduct histopathologic examination of a wide range of species and organ systems with primary emphasis on evaluation of respiratory disease. Salary and starting date negotiable. Submit résumé to: **Personnel Unit, Inhalation Toxicology Research Institute, Lovelace Research Institute, P.O. Box 5890, Albuquerque, New Mexico, 87115 or telephone collect: 505-264-9431.** *An Equal Opportunity/Affirmative Action Employer, M/F.*

FACULTY POSITIONS— ANATOMY

Full-time tenure-track faculty positions are available in the Department of Anatomy, Temple University School of Medicine, at the assistant professor level and at the associate professor-professor level. Candidate must have experience teaching either human growth anatomy, microscopic anatomy, or neuroanatomy. Applicants must hold the Ph.D. or M.D. degree and demonstrate research productivity commensurate with rank sought. Send curriculum vitae and names of three references to:

**Carson D. Schmeck, M.D., Ph.D.
Professor and Acting Chairman
Department of Anatomy
3420 North Broad Street
Philadelphia, Pa. 19140**

Temple University is an Equal Opportunity/Affirmative Action Employer.

FACULTY POSITION AVAILABLE IN CLINICAL PHARMACOLOGY

An assistant professor position is available for an individual with an M.D. or M.D.-Ph.D. degrees and residency and fellowship training in internal medicine and clinical pharmacology. Opportunities exist to develop a clinical and/or basic research program and teach in the Departments of Internal Medicine and Pharmacology.

Send inquiries and curriculum vitae to: **Dr. F. Murad, Director, Division of Clinical Pharmacology, Department of Internal Medicine and Pharmacology, Box 419, University of Virginia, Charlottesville, Virginia 22908.**

An Affirmative Action/Equal Opportunity Employer

FACULTY POSITION—Applications are invited from qualified individuals with Ph.D.'s for a tenure-track position at the assistant professor level. An individual is sought with an interest in maintaining and developing the present departmental computer facility. The successful candidate will be expected to collaborate with members of the department in developing software for specific data analysis problems and mathematical models of biological systems. Candidates should have a good background in computer science, engineering, or applied mathematics. Send applications with curriculum vitae, bibliography, and names of three references to: **Dr. Burgess Christensen, Faculty Search Committee, Department of Physiology and Biophysics, University of Texas Medical Branch, University P.O. Box 146, Galveston, Texas 77550**

An Affirmative Action/Equal Opportunity Employer

MICROBIOLOGIST/PUBLIC HEALTH. Full-time faculty, Ph.D. preferred, M.S. acceptable. Team teach medical microbiology and public health, organize and supervise fundamental microbiology laboratories. Research possible, but major emphasis is teaching professional chiropractic students. Ability to work well with people from bachelor's through doctorate required. Salary: master's, \$14,000 to \$18,500; Ph.D., \$16,000 to \$24,000. Rank and salary dependent upon qualifications. Send résumé and three letters of reference to: **Dr. C. C. Kuehner, Chairman, Search Committee, National College of Chiropractic, 200 East Roosevelt Road, Lombard, Ill. 60148.**

POSITIONS OPEN

CHAIRMAN DEPARTMENT OF CLINICAL STUDIES

The University of Pennsylvania School of Veterinary Medicine is accepting applications for the position of chairman of the Department of Clinical Studies at New Bolton Center. Responsibilities of the position include direction and supervision of the large animal teaching, research, and service programs. The candidate should have a strong clinical and research background and be sensitive to the needs of the agricultural community. Applications should be received by 1 July 1979. Curriculum vitae, including a list of references, should be sent to: **Dr. William Chalupa, Chairman, Search Committee, New Bolton Center, School of Veterinary Medicine, University of Pennsylvania, Kennett Square, Pa. 19348.**

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

MEMBRANE BIOCHEMISTRY

Postdoctoral position available summer to fall 1979 for a recent Ph.D. to participate in research on the structure and function of eukaryote plasma membranes. Reply with curriculum vitae and names of three references to: **Dr. Gene A. Scarborough, Department of Pharmacology, School of Medicine, The University of North Carolina at Chapel Hill, Chapel Hill, N.C. 27514.**

PLANT GENETICIST

Faculty position in plant genetics, assistant professor and assistant geneticist in Experiment Station; 15 percent teaching, 85 percent research. Ph.D. in genetics with extensive training in plant breeding. Research program in plant genetics and host disease or insect resistance with responsibility for lettuce breeding program. Teaching responsibilities in the departmental program. Applicants should submit curriculum vitae, reprints of pertinent publications, thesis summary, transcripts, and the names of at least three references to: **Dr. T. J. Orton, Department of Vegetable Crops, University of California, Davis, Calif. 95616,** prior to 15 June 1979. Position available 1 July 1979. *The University of California is an Equal Opportunity/Affirmative Action Employer and invites applications from all qualified individuals.*

BIOMEDICAL ENGINEER Research Scientist

Our Consumer Business product evaluation lab has immediate need for a biomedical engineer. Involves developing instrumentation for applied research and development and developing new physiological measurement techniques.

Advanced degree preferred. Strong background required in instrumentation, biomechanical or biomedical engineering. Knowledge of pressure measurements and ability to use computers effectively in research desirable.

Relocation expenses paid to a pleasant, relaxed Wisconsin community located on a lake with year-round recreation and nearby universities.

This opportunity offers an outstanding benefits package and excellent salary, commensurate with qualifications and experience. Send your resume with salary history in confidence to:

Corporate Recruiting-ECJ



KIMBERLY-CLARK
NEENAH, WISCONSIN 54956

An Equal Opportunity Employer

POSITIONS OPEN

FACULTY AND DEAN POSITIONS

THE AMERICAN UNIVERSITY OF THE CARIBBEAN

School of Medicine, located on the island of Montserrat in the West Indies, has the following administrative and faculty openings:

FACULTY OPENINGS

Openings in the areas of psychology, biochemistry, pathology, neuroanatomy, physiology, microbiology, gross anatomy, and pharmacology. Twelve-month contract. Ph.D. or M.D. required.

DEAN OF MEDICAL SCIENCES

Requires 30 percent teaching and 70 percent administration. Ph.D. or M.D. with teaching or administrative experience required.

DEAN OF CLINICAL STUDIES

Supervise the clinical studies in the hospitals. M.D. with professional or administrative or teaching experience required.

Please send résumé with required salary to:

American University of the Caribbean
U.S. Office
Mount St. Joseph, Ohio 45051

MICROBIOLOGIST. To teach undergraduate courses in microbiology and immunology. **VERTEBRATE MORPHOLOGIST/EMBRYOLOGIST.** To teach undergraduate courses in comparative anatomy and embryology. Assistant professor rank; Ph.D. required. Positions are nontenurable beginning September 1979. Apply to: James Vaughan, Biology Department, Muhlenberg College, Allentown, Pa. 18103. An Equal Opportunity Employer.

HARVARD MEDICAL SCHOOL NEUROBIOLOGIST

The Department of Neurobiology is seeking a new faculty member at the assistant professor level to begin 1979 or 1980. *Applications from women and minority people are encouraged.* Please send curriculum vitae and a brief outline of research plans and have three letters of reference sent to:

Search Committee
Department of Neurobiology
Harvard Medical School
25 Shattuck Street
Boston, Mass. 02115

PHARMACOLOGIST. The Hospital for Sick Children Research Institute (University of Toronto) invites applications for the position of scientist in the Division of Clinical Pharmacology. Ph.D. or equivalent with at least 2 to 5 years of postdoctoral experience required. Emphasis on developmental biochemical pharmacology preferred. University rank and salary negotiable. Send letter of application, curriculum vitae, and three reference letters to: Dr. S. M. MacLeod, Division of Clinical Pharmacology, Hospital for Sick Children, 555 University Avenue, Toronto, Ontario, Canada M5G 1X8.

PLANT MOLECULAR BIOLOGIST ZOECON CORPORATION

Zoecon Corporation, a leader in innovative agricultural chemical research, is establishing a major research effort in higher plant molecular biology. Research directions will include the application of the techniques of molecular biology to crop improvement. Qualified scientists will join a research team working in a unique scientific environment. Zoecon offers an opportunity to develop and direct a research program, the intellectual stimulation of interaction with excellent colleagues, and the opportunity to contribute to the expansion of this exciting field. Individuals with expertise in plant genetics, biochemistry and physiology are encouraged to apply. The positions require a Ph.D. in a field of plant biology, preferably with postdoctoral experience.

Zoecon is a division of Occidental Petroleum Corporation with substantial domestic and international operations. Corporate headquarters and corporate research are located in the Stanford Industrial Park, in close proximity to San Francisco. Submit detailed résumés in confidence to:

Kathy Moore
Manager, Employee Relations
Zoecon Corporation
975 California Avenue
Palo Alto, California 94304

POSITIONS OPEN

PHARMACOLOGIST at the level of assistant or associate professor. The position is a tenure-track position in the Department of Pharmacology, University of Minnesota, Duluth, School of Medicine. It is available as of 1 September 1979, although a later starting date is possible. Qualifications should include: a doctoral degree, an interest or experience in teaching pharmacology or chemotherapeutic agents, and research experience in autonomic pharmacology, neuropharmacology, mechanisms of hormone action or pharmacology of chemotherapeutic agents. However, individuals with demonstrated research excellence in other areas are also encouraged to apply. Those interested should send curriculum vitae, a summary of teaching and research experience, reprints of publications, and have three letters of reference sent to: Dr. Edward Knych, University of Minnesota, Duluth, School of Medicine, Duluth, Minnesota 55812 by 1 June 1979.

The University of Minnesota is committed to the policy that all persons shall have equal access to its programs, facilities, and employment without regard to race, creed, color, sex, national origin, or handicap.

PHARMACOLOGIST

The Upjohn Company currently has an opening available for a Ph.D. in pharmacology with a strong biochemical orientation and at least 1 to 3 years of postdoctoral research experience. Successful candidates will organize and lead a laboratory for finding and developing CNS drugs and will interact with other laboratories with similar objectives. Work will include pharmacodynamic studies to help solve problems on drug leads. Interest and ability in developing new methods for finding psychoactive drugs is also essential. Submit résumé in confidence to: Kent S. Morgan, Employment Representative.

Upjohn

The Upjohn Company
7171 Portage Road
Kalamazoo, Mich. 49001

An Equal Opportunity Employer, M/F

PHYSIOLOGIST

A junior or senior faculty position for a Ph.D., M.D., or equivalent degree holder is available beginning 1 July 1979. Rank of this tenure-track position depends on the qualifications of the candidate. For consideration as assistant professor, a minimum of 2 years of postdoctoral experience is required. We are seeking a **CELL PHYSIOLOGIST** working in any area of physiology. Applicants are expected to participate in the teaching of medical, paramedical, and graduate students and to have an independent, vigorous research program, capable of competitive support from granting agencies. Deadline for applications is 15 July 1979.

Applicants should submit curriculum vitae, a summary of current and future research plans, and the names of three references to:

Chairman, Department of Physiology
University of Kansas Medical Center
39th and Rainbow Boulevard
Kansas City, Kansas 66103

An Equal Opportunity/Affirmative Action Employer

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

POSITIONS OPEN

POSTDOCTORAL AQUATIC BIOLOGIST/TOXICOLOGIST. Position available approximately 1 June as part of EPA-funded study of impacts of energy production on aquatic organisms. Aquatic biologist with training in environmental toxicology. Special expertise in effects of environmental contaminants of fish, phytoplankton, and zooplankton. Send résumé to: F. R. Connor, Box 135, University of Colorado at Denver, 1100 14th Street, Denver, Colorado 80202. An Equal Opportunity Employer.

POSTDOCTORAL CLINICAL FELLOW sought for training in general medical genetics and clinical investigations on the natural history of Von Recklinghausen neurofibromatosis (NFT). Evaluation of large NFT population already begun; trainee-collaborator sought. Amount and source of stipend negotiable. Apply to: Vincent M. Riccardi, M.D., Kleberg Genetics Center, Baylor College of Medicine, Texas Medical Center, Houston, Texas 77030.

POSTDOCTORAL FELLOW

Positions available for Ph.D. or M.D. in cancer related research in: (i) cell kinetic effects of irradiation, drugs, and radiation-drug combinations on normal and malignant cell populations, (ii) human tumor biology, (iii) virus leukemias, and (iv) cancer immunobiology. Positions (up to 3 years) available immediately. Cancer Research Unit is closely associated with Divisions of Radiation Oncology and Medical Oncology. Send curriculum vitae, summary of past research, and names of references to: Dr. Samuel W. Leshner, Cancer Research Unit, Allegheny-Singer Research Corporation, 320 East North Avenue, Pittsburgh, Pa. 15212.

POSTDOCTORAL FELLOW DEPARTMENT OF BIOCHEMISTRY MEMORIAL UNIVERSITY OF NEWFOUNDLAND

Applications are invited, with two letters of reference, for the position of postdoctoral fellow to work on the structure of fish antifreeze proteins, mechanism of action, biosynthesis, and the control mechanism of these proteins, effective 1 April 1979, under the terms of MRC of Canada. Salary is \$12,050 first year, \$13,350 second year. The above research will be carried out at the Marine Science Research Laboratory. Write to: Dr. Choy-L. Hew, Department of Biochemistry, Memorial University of Newfoundland, St. John's, Newfoundland, Canada A1B 3X9.

POSTDOCTORAL POSITION

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

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

POSTDOCTORAL POSITION in well-equipped protein laboratory in the following research areas: sequencing methodology and structure function mechanisms of immunological proteins. Salary competitive. Position available June or September 1979. Send résumés in confidence and names of three professional references to: Dr. Clyde Zalut, Protein Laboratory Department of Immunology, CHILDREN'S HOSPITAL MEDICAL CENTER, 300 Longwood Avenue, Boston, Mass. 02115. An Affirmative Action/Equal Opportunity Employer.

POSTDOCTORAL POSITION IN CHEMICAL CARCINOGENESIS available immediately for research on mechanism of action of nitrosamines. Experience in enzymology or drug metabolism desirable. Send curriculum vitae and references to: Dr. Michael C. Archer, Department of Medical Biophysics, University of Toronto, 500 Sherbourne Street, Toronto, Ontario, Canada M4X 1K9.

POSTDOCTORAL POSITION to work on the genetic and biochemical characterization of mutants in cultured human and Chinese hamster cells is available immediately for 2 years. Starting salary: \$12,000 to \$13,000. Recent Ph.D. in biochemistry, cell biology, or molecular biology with some experience with tissue cultured cells preferred. Please send résumé and name of three references to: Dr. R. S. Gupta, Department of Medicine (4n83), McMaster University Medical Centre, 1200 Main Street West, Hamilton, Ontario, Canada L8S 4J9.

POSITIONS OPEN

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

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

POSTDOCTORAL POSITION IN REPRODUCTIVE BIOLOGY

Available 1 July 1979 for research on protein synthesis and secretory activity of hormone-dependent tissue culture systems (testis and epididymis). Applicants with previous experience in polyacrylamide gel electrophoresis, isoelectric focusing, and affinity chromatography will be considered. Résumés and three letters of recommendation should be sent to: **Dr. A. L. Kierszenbaum**, Department of Anatomy, University of North Carolina, 111 Swing Building 217H, Chapel Hill, N.C. 27514.

POSTDOCTORAL POSITION available immediately for research on membrane transport in *E. coli*. Research focuses on sequencing of cloned genes for leucine transport, analysis of transport regulatory mechanisms, and analysis of membrane protein biogenesis in vitro and in vivo. Background in biochemistry/molecular genetics necessary. Send résumé and names of three referees to: **Dr. Dale L. Oxender**, Department of Biological Chemistry, The University of Michigan, Ann Arbor, Mich. 48109.

An Equal Opportunity/Affirmative Action Employer

POSTDOCTORAL POSITION in the Dermatology Research Laboratories at Duke University Medical Center, Durham, North Carolina, available 1 September 1979. Epidermal and epithelial differentiation in genetic diseases and neoplasia using monoclonal antibody and cell hybridization methodologies are to be studied. NIH stipend levels for U.S. citizens and permanent residents. Applications with curriculum vitae and names of three references to: **Professor Lowell A. Goldsmith**, Genetics Laboratory, Department of Biochemistry, Oxford University, South Parks Road, Oxford OX1 3QU, England. *Duke University is an Equal Opportunity Employer.*

POSTDOCTORAL POSITION. Interdisciplinary joint project on new methodology for hormone analysis involving researchers at Northeastern University and Harvard Medical School to start in the fall. Methodology involves a combination of affinity, organic, and chromatographic techniques. Training in such areas as biochemistry, organic chemistry, or analytical chemistry may be appropriate. Send curriculum vitae to: **Roger W. Giese**, 312 Mugar Hall, Northeastern University, 360 Huntington Avenue, Boston, Mass. 02115. *An Equal Opportunity/Affirmative Action Employer.*

POSTDOCTORAL POSITIONS IN GENETICS, BIOCHEMISTRY, OR MOLECULAR BIOLOGY

To conduct research on RNA processing and RNA metabolism in *Escherichia coli*, yeast, and mammalian cells. Address inquiries, including curriculum vitae and list of publications, to: **Dr. David Apirion**, Department of Microbiology and Immunology, Box 8093, Washington University School of Medicine, St. Louis, Mo. 63110.

Equal Opportunity/Affirmative Action Employer, M/F/H

POSTDOCTORAL RESEARCH ASSOCIATE

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

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

An Equal Opportunity/Affirmative Action Employer

SOURCES SOUGHT: RENEWABLE ENERGY POLICY ANALYSIS

The Department of Energy (DOE) seeks information from organizations with capability to perform innovative planning, research, and analysis for the development of renewable energy resources at the local, state, and regional level. Renewable systems that are efficiently matched to local needs in scale and thermodynamic quality, and that can be locally developed and controlled are of primary interest.

Capabilities to perform planning, research, and analysis are sought for a broad range of factors—economic, environmental, administrative, technical, and others—that affect the use of renewable energy resources. Such analyses would account for local variations in resource availability, climate, economic activity, and end-use demands. Analyses would emphasize inexpensive systems that might be locally implemented in the near-term and frequently would require involvement of state and local governments and public participation.

Organizations are invited to send a brief (not more than about five pages) description of their interest, capabilities, and experience in this area of work to:

U.S. Department of Energy
Division of Advanced Energy Systems Policy
Room 6E-068 J
Forrestal Building
Washington, D.C. 20585

Statements should describe specific areas of interest in local renewable energy systems development, background and experience of principal staff, and organizational resources and capabilities. Statements should be sent by 30 May 1979, or within 30 days of the publication date of this notice, whichever comes later.

This notice invites expressions of interest and capability. Responses will be used to assess program feasibility and to aid design of future programs. DOE will not award contracts or grants on the basis of this notice, or otherwise pay for information solicited.

A summary of the responses to this notice will be available to the public upon request.

SAVANNAH RIVER ECOLOGY LABORATORY (SREL) NSF VISITING FACULTY PROGRAM

SREL, which is operated by the University of Georgia under a prime contract with the Department of Energy, has received an NSF Industrial Research Participation grant. SREL seeks applicants who: (i) are U.S. citizens or nationals, (ii) have held an academic appointment for at least 4 years, and (iii) can participate in full time research at SREL for approximately 10 weeks beginning in summer or fall 1979. For a maximum stipend of \$400 per week, participants will work with an SREL faculty member on one of the projects described below:

Dr. James J. Alberts: Distribution and Availability of Radioisotopes in Sediments of a Reservoir,
Dr. Steven M. Bartell: Modeling Growth Dynamics of Bass in a Thermal Reservoir,
Dr. Gordon J. Leversee: Uptake of Polycyclic Aromatic Hydrocarbons by Fish, and
Dr. James H. Thorp: Predation and Benthic Community Organization in a Thermally Destabilized Reservoir.

APPLICATION PROCEDURES

For information and application materials write to one of the faculty listed above or to: **Dr. James H. Thorp**, NSF Faculty Program, Savannah River Ecology Laboratory, Drawer E, Aiken, S.C. 29801.

The following application material should be received by 15 June 1979: (i) letters of recommendation from two colleagues familiar with the applicant's research capabilities, (ii) recent curriculum vitae, (iii) a completed application form, and (iv) a university salary schedule. *SREL encourages applications from men and women of all races, creeds, and national origins.*

OTHER PROGRAMS

Information regarding undergraduate, graduate student, and other faculty research participation programs may be requested from the above address. *An Equal Opportunity/Affirmative Action Institution*

Bio-Analytical Chemist



Career Opening with Supervisory Functions, with Sandoz, a Company Respected Worldwide

Sandoz has a long record of achievement in the pharmaceutical industry. With this outstanding company, you can enjoy an exceptionally creative, professional atmosphere, and equally attractive, solid career prospects.

This position calls for at least 5-10 years of pharmaceutical background, with proven ability in analytical techniques utilizing HPLC, GLC (ECD, FID, N-P), UV and Fluorescence Spectroscopy and GC-MS experience. Knowledge is needed in the areas of pharmacokinetics, automation of methodologies, use of computers, and requirements for GLP and NDA governmental regulations and submissions. 5 years demonstrated skill in managing technical and professional subordinates is also a must.

Salary initially will be in the mid-twenties range, plus excellent benefits. Please send resume detailing pertinent experience, and indicating salary history, in confidence to John McGough, Personnel Manager, Research & Development.



SANDOZ, INC.
RESEARCH and DEVELOPMENT
Route 10, East Hanover, New Jersey 07936
An Equal Opportunity Employer M/F

POSITIONS OPEN

POSTDOCTORAL POSITION. Available 15 June 1979. Research on the microbiology, genetics, and biochemistry of *Rhizobium*. Ph.D. required. Annual salary: \$14,000 to \$15,000. Send résumé, transcripts, and two letters of recommendation by 1 June to: **Professor Harold J. Evans, Laboratory for Nitrogen Fixation Research, Oregon State University, Corvallis, Oregon 97331.** An Affirmative Action/Equal Opportunity Employer, in compliance with Section 504 of the Rehabilitation Act of 1973.

Position available—**POSTDOCTORAL RESEARCH ASSOCIATE.** NIH-supported project on histocompatibility immune response genes in chickens. Ph.D. in biochemistry or immunobiology. Starting 1 September or sooner. \$14,000. Contact: **Dr. Arne Nordskog, Animal Science-Poultry Department, 201 Kildee Hall, Iowa State University, Ames, Iowa 50011.** Iowa State University is an Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL RESEARCH ASSOCIATE position, starting July 1979, available for Ph.D. with an interest in studying the immunology of pulmonary fibrosis. Applicants must have a strong background in cellular immunology and experience in B and T cell biological assays and enumeration techniques. The associate will function as part of an ongoing interdisciplinary program in pulmonary research associated with the Vermont Pulmonary Specialized Center of Research (SCOR). The individual will have an opportunity to interact with biochemists, pharmacologists, physiologists, and cell biologists at the University of Vermont, as well as physicians in pulmonary medicine at the Medical Center Hospital of Vermont. Applicants should forward current curriculum vitae and three letters of reference to: **Dr. Beth Hart, Department of Biochemistry, Given Medical Building, University of Vermont, Burlington, Vermont 05405** by 1 June 1979.

PRESIDENT
THE NATIONAL COLLEGE OF
NATUROPATHIC MEDICINE (NCNM)
Uniquely challenging position with rapidly growing medical college of 200 students. Requires firm commitment to natural holistic medicine and successful administrative record with leadership in development, accreditation, and public relations. Send letter of application, résumé, and three letters of recommendation by 1 June to: **Presidential Search Committee, NCNM, 510 S.W. Third Avenue, Portland, Oregon 97204.**

PRESIDENT **PENNSYLVANIA COLLEGE OF OPTOMETRY**

The Board of Trustees of the Pennsylvania College of Optometry invites nominations and applications for the position of president. The president is appointed as the chief executive officer of the college by the Board of Trustees and is entrusted with the ultimate responsibility for the management, development, advancement, and representation of the college and its programs.

The Pennsylvania College of Optometry is a private, urban institution located in Philadelphia with approximately 570 students enrolled in a 4-year professional curriculum leading to the degree of doctor of optometry.

The candidates professional background should include an earned doctorate degree and appropriate academic, administrative, and managerial experience. The new president should have the qualities necessary to be an effective and creative leader in directing and inspiring all constituents in the pursuit of institutional goals. A complete job description is available upon inquiry.

Nominations or applications with current résumés should be sent prior to 15 June 1979 to:

President Search Committee
Pennsylvania College of Optometry
1200 West Godfrey Avenue
Philadelphia, Pennsylvania 19141

Affirmative Action/Equal Opportunity Employer

PROFESSIONAL RESEARCH ASSISTANT

Background in physiological plant pathology, to assist in studies of fungal pathogens of plants. M.S. degree preferred; B.S. and Ph.D. will be considered. Salary commensurate with training and experience. Position available immediately. Applicants should send résumé to: **Dr. Peter Albersheim, Chemistry Department, Box 215, University of Colorado, Boulder, Colo. 80309.**

An Equal Opportunity/Affirmative Action Employer

POSITIONS OPEN

PROFESSEUR EN PRODUCTIVITE **AQUATIQUE**

L'Université du Québec à Chicoutimi est à la recherche d'un scientifique (biologiste, chimiste, physicien) pour participer à des activités d'enseignement et de recherche dans le cadre d'un nouveau programme de maîtrise multidisciplinaire en productivité aquatique. Le candidat est muni d'un doctorat, possède une expérience en productivité aquatique et peut s'intégrer à une équipe multidisciplinaire tout en développant un secteur original de recherche touchant aux mécanismes de productivité. On fait parvenir son offre de service accompagnée d'un curriculum vitae avant le 25 mai 1979 à: **M. Guy J. Collin, directeur, Département des sciences pures, Université du Québec à Chicoutimi, 930 rue Jacques-Cartier est, Chicoutimi, Québec, Canada G7H 2B1.**

PROFESSORSHIP IN MOLECULAR GENETICS

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

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

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

An Equal Opportunity Employer

SESNON PROFESSOR OF ANIMAL SCIENCE

Applications are invited for the Sesnon Professor of Animal Science, an endowed chair in the Department of Animal Science, University of California, Davis. Applicants should have made distinguished research contributions to the field of animal science relevant to livestock production. Such contributions may have been made in basic disciplines such as biochemistry, genetics, nutrition, and physiology or in the interdisciplinary areas of animal science. The successful applicant will be expected to develop a research program, to contribute to both undergraduate and graduate instruction, and to provide intellectual leadership to the department, college, and campus. Appointment will be at one of the higher steps of the full professor series. Professorship open until filled. Review of applications will begin 1 June 1979.

Applications, with the names of three referees, should be submitted to:

Search Committee
Sesnon Professor of Animal Science
Dean's Office
College of Agricultural and Environmental Sciences
University of California
Davis, Calif. 95616

The University of California is an Equal Opportunity/Affirmative Action Employer and invites applications from all qualified persons.

PROFESSOR OF PHARMACOLOGY, tenurable, full-time position. Minimum qualifications: Ph.D. or M.D.; significant previous experience and responsibilities in medical and graduate teaching programs in pharmacology; proven record of research productivity and funding. Dedication to independent research; interest in and enthusiasm for teaching broad areas of pharmacology to undergraduate, medical, and graduate students. Minimum salary: \$25,116. Apply with curriculum vitae, selected reprints, and statement of goals to: **Dr. Bert Lum, Department of Pharmacology, University of Hawaii, 1960 East West Road, Honolulu, Hawaii 96822.** Closing date: 2 June 1979.

RESEARCH ASSOCIATE

Position immediately available in the laboratory of Dr. Edward A. Berger to study the molecular basis of cell-cell recognition during development, using the cellular slime mold *Dictyostelium discoideum* as a model system. Ongoing projects aimed at elucidating the role of endogenous carbohydrate-binding proteins (lectins) in morphogenetic cell cohesion, using biochemical, genetic, and immunological approaches. Ph.D. required in biochemistry, cell biology, or related area, preferably with experience in protein chemistry, immunochemistry, or carbohydrate chemistry. Send curriculum vitae and names of three references to: **Dr. Edward A. Berger, c/o Personnel Office, Worcester Foundation for Experimental Biology, Shrewsbury, Mass. 01545.**

An Equal Opportunity/Affirmative Action Employer

POSITIONS OPEN

UNIVERSITY OF MICHIGAN **DEPARTMENT OF PSYCHIATRY**

PSYCHIATRIST to be team leader in adult outpatient section of Department of Psychiatry. Must have documented evidence of research and teaching abilities and be a skilled clinician. Academic rank depends on qualifications. Reply to: **Box 153, SCIENCE**. Code 310010. A nondiscriminatory, Affirmative Action Employer.

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

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

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

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

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

REPRODUCTIVE ENDOCRINOLOGY faculty position available in Section of Reproductive Studies, Department of Clinical Studies, School of Veterinary Medicine, University of Pennsylvania. Responsibilities: teaching, research, and clinical service in both large and small domestic animals. Salary and level of appointment based on qualifications. Send complete curriculum vitae to: **Dr. R. M. Kenney, University of Pennsylvania, School of Veterinary Medicine, New Bolton Center, Kennett Square, Pa. 19348.** University of Pennsylvania is an Equal Opportunity/Affirmative Action Employer.

SCIENCE DIRECTOR **ENVIRONMENTAL CANCER** **PREVENTION CENTER (ECPC)**

The ECPC, a federally funded, interdisciplinary project to reduce human exposure to industrial and environmental carcinogens, seeks Ph.D. or M.S. with extensive experience, to lead scientific investigations and to assist in legal advocacy and community education. Background in environmental carcinogenesis, pollution control technology, or other environmental science essential. Position available summer 1979. Please submit curriculum vitae, writing sample, and names of two references to: **Albert J. Slap, Esq., Public Interest Law Center of Philadelphia, 1315 Walnut Street, Philadelphia, Pa. 19107.** An Equal Opportunity/Affirmative Action Employer

TROPICAL FIELD STATION DIRECTOR. The Organization for Tropical Studies, Inc. (OTS) seeks an experienced tropical biologist to manage and participate in developing the facilities and research programs at Finca La Selva, Heredia Province, Costa Rica. **Requirements:** bilingual (Spanish); Ph.D. with applicable research program; administrative skill; maintenance and construction savvy. **Benefits:** minimum \$12,000, with fringe; accommodations and board at the station, in-country travel allowance; 1-month paid vacation each year. Two-year appointment; anticipated start 1 September 1979. Send curriculum vitae and recommendations to: **D. E. Stone, Executive Director, OTS, P.O. Box DM, Duke Station, Durham, North Carolina 27706.** An Equal Opportunity Employer

VERTEBRATE PHYSIOLOGIST. Tenure-track opening at the level of assistant professor, or associate professor without tenure, in the Division of Biology and Medicine at Brown University. Applicants must have Ph.D. or M.D. degree, minimum of 2 years of postdoctoral experience, demonstrated research ability, and competence to teach mammalian physiology to medical students. Research interests should complement existing interests in membrane, renal, or respiratory physiology. Send curriculum vitae, summary of research and teaching interests, and three letters of reference by 15 June 1979 to: **Dr. K. M. Chapman, Division of Biology and Medicine, Box G, Brown University, Providence, R.I. 02912.** An Equal Opportunity/Affirmative Action Employer.

**ASSOCIATE DEPUTY ASSISTANT
ADMINISTRATOR FOR
ENERGY, MINERALS, AND INDUSTRY**

The U.S. Environmental Protection Agency (EPA) is seeking an associate deputy assistant administrator for energy, minerals, and industry within the Office of Research and Development. The associate shares fully with the deputy assistant administrator in the planning, management, and evaluation of a research program to assess the environmental and socioeconomic impacts of energy and mineral resource extraction, processing, conversion and utilization systems, and of other industrial operations; develop and demonstrate cost-effective methods for the control and management of such operations; identify and evaluate alternatives, including conservation measures; and coordinate associated intra- and interagency research activities. Candidates must have a bachelors or higher degree in physical science, engineering, or mathematics that included 24 semester hours in physical science such as mechanics, dynamics, properties of materials; equivalent combination of 4 years of experience and education that included 24 semester hours of physical science and/or closely related engineering science. In addition, at least three or more years of professional experience in the physical science field are required. One year of the required experience must have been at a level of difficulty comparable to the next lower level in the Federal Service. In addition to the above requirements, applicant's Standard Form 171 (Personal Qualifications Statement) (SF-171) must show experience as listed below to be minimally qualified for the position. Unacceptable ratings on one or more of the mandatory factors will result in an ineligible rating and no further consideration. Mandatory factors include: experience in administering national programs in energy/industrial research or related fields; professional experience and extensive training in technical issues regarding environmental aspects of energy systems and control, and resources extraction, processing, and utilization; and experience in national-level policy analysis, and in dealing with state and local agencies as well as interagency groups.

Location: Washington, D.C.

Salary range: \$44,756 to \$47,500 plus civil service benefits.

Contact: please submit a completed SF-171, which is available in Federal Job Information Centers and federal agency personnel offices, to reach EPA no later than 7 June 1979, to: **Barbara Perkins, Environmental Protection Agency, 401 M Street, SW, Washington, D.C. 20460. Telephone: 202-755-2625.**

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**U.S. DEPARTMENT OF THE INTERIOR
BUREAU OF MINES**

The Bureau of Mines is currently recruiting for the position of **RESEARCH DIRECTOR**—Denver Mining Research Center, GS-15/16 (current salary range: \$38,160 to \$47,500 per annum), in Denver, Colorado.

The research director manages highly diversified mining research programs which involve the development of improved methods for rock mass characterization and mine design, techniques for detecting geologic and other safety hazards to mining, methods to predict and control subsidence, and improvements in mined land reclamation technology. The research director is responsible to the assistant director-mining for the effective management, control, direction and coordination of the research programs, personnel, facilities, funds, and equipment at this research center and for contribution to the planning and development of the overall bureau mining research program. Specific qualifications are (i) knowledge of and proficiency in the physical sciences and engineering and knowledge of mining technology and (ii) managerial ability to formulate goals and objectives for a research program.

Applications and résumés are now being accepted from U.S. citizens by the:

**Chief, Branch of Personnel Operations (B)
Division of Personnel
2401 E Street, NW
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If selected for this position, relocation expenses will be paid. Applications/résumés must be received by or postmarked no later than 4 June 1979. For further information telephone: **Robert Langan at 202-634-4726.** This position is being proposed for inclusion in the Senior Executive Service.

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**Drug Metabolism
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Scientist**

An excellent opportunity is now available in our Drug Metabolism Unit for a Senior Scientist to supervise and conduct studies relevant to elucidation of the pathways of biotransformation of drugs under development. The successful candidate will supervise several people at the junior scientist and technician levels, participate in drug development planning and possesses the potential to accept greater responsibilities.

The ideal candidate should have a Ph.D. in organic chemistry with interest in the biological areas and an identification of natural products or products of biotransformation and have 3 to 5 years of industrial experience in drug metabolism. Definite assets would include experience in the isolation and identification of metabolites in body fluids and tissues and the development of assay methods in these media.

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Candidates should submit C.V. and salary history to: *Jane Belansky*

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POSITIONS OPEN

RESEARCH ASSISTANT PROFESSOR. One or more positions available now to work with medical genetics group at University of Utah. Appointments will be sought in appropriate department at the University of Utah. Applicants should have Ph.D. or M.D. and considerable experience in population-genetic or genetic-epidemiological analysis. Training in human genetics and statistics required. Application material should include three names to be used for letters of reference, curriculum vitae, a list of publications, and at least three full-length manuscripts published or submitted for publication. Apply by 15 June to: **Dr. M. Skolnick, Medical Genetics Search Committee, Department of Medical Biophysics and Computing, LDS Hospital, Salt Lake City, Utah 84143.** Positions will be funded by NIH grants through the University of Utah and the Deseret Foundation of the LDS Hospital, both of which are *Equal Opportunity/Affirmative Action Employers.*

RESEARCH ASSOCIATE

Ph.D. background in electrophysiology, neurophysiology, neuropharmacology, or neuroanatomy. Position will include developing technique of single-unit recording in freely moving rats before and after administration of opiate drugs and training in, and use of, the technique of microiontophoresis. Neuroanatomical tracing techniques using horseradish peroxidase and radioactive leucine are also being developed in this laboratory. Position available immediately. Send curriculum vitae and names of three references to:

Henry J. Haigler, Ph.D.
Department of Pharmacology
Emory University School of Medicine
Atlanta, Georgia 30322

Emory University is an Equal Opportunity/Affirmative Action Employer.

RESEARCH ASSOCIATE or POSTDOCTORAL POSITION—Ph.D. in biochemistry or organic chemistry with experience in enzymology and peptide chemistry. Possibility of faculty appointment. Salary commensurate with experience. Please submit curriculum vitae to: **Box M.O., Department of Pharmacology, THE MOUNT SINAI SCHOOL OF MEDICINE, One Gustave L. Levy Place, New York, N.Y. 10029.** *An Equal Opportunity Employer.*

SENIOR IMMUNOLOGIST with experience in the development of diagnostic immunological products is needed in clinical department to formulate and implement product-oriented research and development program. Please send résumé to: **Personnel Manager, Sigma Chemical Company, 3500 DeKalb Street, St. Louis, Mo. 63118.** *An Equal Opportunity Employer, M/F.*

SYNCHROTRON RADIATION RESEARCH—CHESS

The Cornell High Energy Synchrotron Source (CHESS) facility seeks a Ph.D. scientist to participate in the development and installation of x-ray diffraction equipment and position-sensitive detectors, to be used for biochemical and chemical crystallography. Experience in instrumentation and software is required; background in diffraction experiments would be helpful. The applicant will work closely with Dr. Keith Moffat (biochemistry) and Dr. Jon Clardy (chemistry). Send curriculum vitae to: **Dr. Boris Batterman, Director, CHESS, Department of Applied Physics, Clark Hall, Cornell University, Ithaca, New York 14853.**

Cornell is an Equal Opportunity/Affirmative Action Employer.

PERIODICAL SEARCH

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

PROGRAM

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Application should include the following:

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

For further information contact:

Dr. Marcus Rothschild
VA Medical Center
New York, New York 10010
Telephone: 212-586-7500, extension 405
Dr. Robert Allen (151F)
VA Central Office
Washington, D.C. 20420
Telephone: 202-389-2124

FELLOWSHIPS

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

POSTDOCTORAL RESEARCH TRAINING FELLOWSHIP IN PSYCHOENDOCRINOLOGY OF SEXUAL BEHAVIOR. Immediate opening to study biochemical basis of behavioral response to hormones. The candidate should be knowledgeable in the mechanism of action of steroid hormones and have experience with one of the following: radioligand assays of steroids, dissection of specific brain regions, and quantitation of sex behavior in rodents. Fellows are part of the interdisciplinary team at new Health Sciences Center. Apply to: **Dr. Charles Doering, Department of Psychiatry and Behavioral Science, Health Sciences Center, State University of New York at Stony Brook, Long Island, N.Y. 11794.** *Equal Opportunity/Affirmative Action Employer.*

POSTDOCTORAL POSITION

Postdoctoral position available 1979 to 1981 to study role of sulfhydryl groups in microtubule assembly. Laboratory actively engaged in study of regulation of microtubule assembly and of interaction of microtubules with drugs. Background in biochemistry essential. Person with cell biology background will be considered. Send curriculum vitae and three references to:

Dr. Richard F. Luduena
Department of Biochemistry
University of Texas Health Science Center
7703 Floyd Curl Drive
San Antonio, Texas 78284

POSTDOCTORAL FELLOWSHIP. Two-year postdoctoral fellowship for research training in neuroendocrinology related to visual system starting July 1979. For U.S. citizens or permanent residents with Ph.D. or M.D. in scientific discipline related to endocrinology with research experience in radioimmunoassay techniques. Excellent collaboration with Endocrinology Division. Supported by NIH training grant. Send curriculum vitae to: **Bernard Schwartz, M.D., Ph.D., Chairman and Professor, Department of Ophthalmology, Tufts-New England Medical Center, 171 Harrison Avenue, Boston, Mass. 02111.** *An Affirmative Action/Equal Opportunity Employer.*

FELLOWSHIPS

RESEARCH FELLOWSHIP IN PLANT ECOLOGY

A 1-year postdoctoral fellowship in plant ecology is available at the Archbold Biological Station for research related to the natural environments of the 3800-acre station property. The appointment includes a stipend of \$10,000 and housing for the recipient and family. The preferred starting date is 15 September 1979 but alternative dates are possible. A letter of application describing interests and proposed research, complete curriculum vitae, list of publications, and three letters of recommendation should be sent by 15 June 1979 to: **Dr. James N. Layne, Executive Director, Archbold Biological Station, Lake Placid, Fla. 33852.** Telephone: 813-465-2571.

POSTDOCTORAL FELLOWSHIPS UNIVERSITY OF WESTERN ONTARIO

Applications invited for several postdoctoral fellowships in membrane biochemistry, lipid metabolism, physical biochemistry, perinatal development, or enzymology. Current MRC stipends starting at \$12,200 for graduating Ph.D. Write to: **Dr. Bill McMurray and Dr. Fred Possmayer, Department of Biochemistry, University of Western Ontario, London, Ontario, Canada N6A 5C1.**

POSTDOCTORAL FELLOWSHIP is available from 1 October 1979, for research in fungal host-parasite interaction of surface components at cellular and biochemical levels. Applicants must have a strong background in biochemistry/microbiology and some experience with electron microscopy/protein chemistry. Applications, including curriculum vitae and names of three referees, should be sent to: **Dr. M. S. Manocha, Department of Biological Sciences, Brock University, St. Catharines, Ontario, Canada L2S 3A1,** by 1 September 1979.

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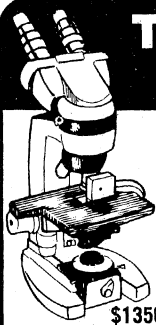
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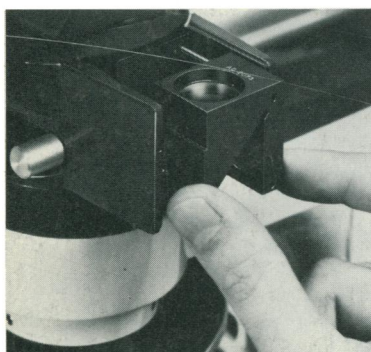
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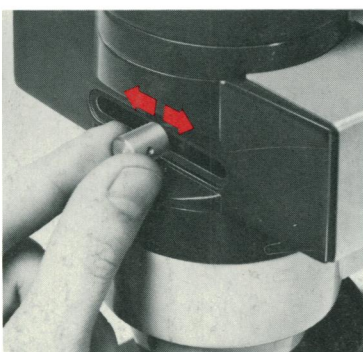
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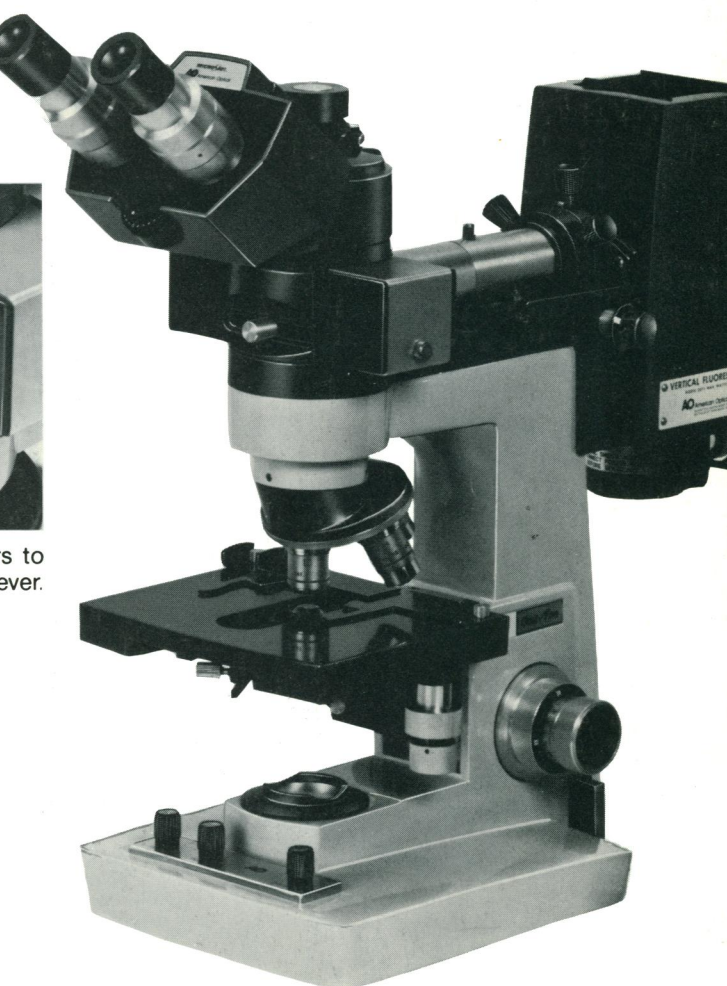


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