

Personnel Placement

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1515 Massachusetts Ave., NW
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POSITIONS WANTED

Animal Behaviorist/Developmental Biopsychologist. Ph.D. 1973 in animal psychology. Field and laboratory research on animal communication, species and individual recognition, and effects of domestication in birds. Former Humboldt Fellow in ethology. Teaching experience; 15 publications. Seeks teaching/research position. Box 294, SCIENCE. X

Biologist/Environmental Scientist. Ph.D. environmental biology, 1978. Experience in limnology, aquatic ecology, invertebrate zoology, water quality monitoring, project management. Teaching experience. Seeks staff position in industry, government, or academia. Box 295, SCIENCE. 10/26; 11/2

Electrophysiologist. Ph.D., with 10 years of experience recording human and animal evoked potentials and EEG desires interesting clinical or research positions; several publications. Box 285, SCIENCE. 10/26; 11/2

Microbiologist. Ph.D. Multidisciplinary. Broad industrial research/management and teaching background in sterilization, fermentation, and antimicrobial agents. Desires position in research, technical writing, management, or teaching. Publications and patents. Box 296, SCIENCE. X

Neurochemist/Biochemist. Ph.D. 1964. Experience in lipid neurochemistry. Seeks research/teaching position. Box 297, SCIENCE. X

Pharmacologist/Toxicologist. Ph.D. Semi-retired professor with extensive experience in drug screening, scientific writing, and prepublication editing. College laboratory facilities available. Desires position as consultant. J. F. Reinhard, 41 Bay View Road, Wellesley, Mass. 02181. Telephone: 617-237-1797 (home); 617-734-6700, extension 154 (office). 10/26; 11/2, 9

POSITIONS OPEN

ADJUNCT PROFESSORSHIP AT STANFORD UNIVERSITY

A research adjunct professorship is now open in the Mechanical Engineering Design Division at Stanford University. Applicants should be tenure-equivalent in mechanical, electrical, or biomedical engineering with a clear record of research productivity in the field of neuromuscular systems and rehabilitation engineering. The position carries principle-investigator status. The incumbent is expected to develop a sponsored research program and supervise doctoral candidate research. A co-appointment in the Civil Service of the Veterans Administration is available at the GS-14 level as associate director of the Neuromuscular Systems Program in the Rehabilitative Engineering Research and Development Center at the VA Medical Center in Palo Alto. The Neuromuscular Systems Program deals with the study and design of robotic and functional neuromuscular stimulation aids for the severely disabled. Applicants should send a detailed résumé, two selected publications, and the names of three references, as soon as possible, to: **Dr. Larry Leifer, Mechanical Engineering Design Division, Stanford University, Stanford, California 94305.** *Stanford University is an Affirmative Action/Equal Opportunity Employer.*

ANALYST/CHEMICAL OCEANOGRAPHER/ATMOSPHERE SCIENTIST. Postdoctoral research associate position available in large NSF-sponsored project to study sea-air exchange of trace organic compounds. Project involves fieldwork in remote marine areas and shipboard sampling. Applicant should be familiar with atmospheric sampling, trace organic analysis, chemical instrumentation, and GC/MS. Send curriculum vitae and three letters of recommendation to: **Dr. C. S. Giam, Department of Chemistry, Texas A & M University, College Station, Texas 77843.** *Texas A & M is an Equal Opportunity Employer.*

ANALYTICAL CHEMISTRY UNIVERSITY OF MARYLAND

The Chemistry Department plans to fill a tenure-track position, probably at the assistant professor level, although more senior candidates will be considered. Outstanding applicants in any area of analytical chemistry will be considered. Send curriculum vitae with list of publications to: **Dr. Glen E. Gordon, Department of Chemistry, University of Maryland, College Park, Md. 20742** by 1 January 1980. *The University of Maryland is an Equal Employment Opportunity/Affirmative Action Institution.*

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

Applications are being accepted for a position involving teaching of undergraduate **AQUACULTURE** courses and management of several instructional culture facilities. Persons with master's or Ph.D. degree in related field, broad interests in aquaculture, and teaching experience should send résumé and three letters of reference to:

Box 301, SCIENCE

ASSISTANT PROFESSOR. Ph.D. or M.D., at University of Florida's C.V. Whitney Laboratory for Experimental Marine Biology and Medicine. The position is primarily research-oriented; candidates must have established research productivity in cell recognition biology, comparative immunobiology, or related areas of quantitative biology. They must qualify for academic appointment in appropriate university department. Address inquiries to: **Richard T. Smith, M.D., Scientific Director, C.V. Whitney Laboratory, Route 1, Box 121, St. Augustine, Florida 32084.** *The University of Florida is an Equal Opportunity/Affirmative Action Employer.*

POSITIONS OPEN

ASSISTANT PROFESSOR. The Department of Chemistry, University of Virginia, invites application for full-time tenure-track appointments beginning September 1980. Candidates with research interests in any area of organic or biologically oriented chemistry are invited to apply. Applicants should submit curriculum vitae, an outline of proposed research, and at least two letters of recommendation to: **R. J. Sundberg, Department of Chemistry, University of Virginia, Charlottesville, Virginia 22901.** *An Equal Opportunity Employer.*

ASSISTANT PROFESSOR. Applications are invited for a position as assistant professor starting July or September 1980. We seek an experimental chemical physicist or a physical analytical chemist who will establish a vigorous, productive research program and who will excel at teaching. Candidates whose chemical physics research interests lie in the areas of spectroscopy and/or modern kinetics are particularly welcome. Applicants in the physical analytical area should have demonstrated expertise in the use of mass spectroscopic techniques, preferably applied to environmental problems.

The new appointee will be expected to contribute to the teaching of general chemistry as well as physical chemistry or instrumental analysis. Applicants should submit a résumé, a statement of research interests and accomplishments, a statement of teaching interests and accomplishments, transcripts, and a brief description of one or more future research projects. In addition, candidates should arrange to have three letters of recommendation sent to: **Faculty Search Committee, Department of Chemistry, Dartmouth College, Hanover, New Hampshire 03755.** Such application material should be received by 15 December 1979. *Dartmouth College is an Equal Opportunity/Affirmative Action Employer.*

ASSISTANT PROFESSOR

Assistant professor for research into the molecular biology of the latency of viral infections. Must possess Ph.D. in biochemistry, and have minimum of 3 years of experience in the techniques of cell fractionation, nucleic acid preparation, RNA fingerprinting and DNA sequencing, hybridization, transcription promoter mapping, cloning of DNA viral fragments, and restriction enzymology. Salary: \$22,000. Submit replies to: **Box 300, SCIENCE.**

ASSISTANT PROFESSOR

We have an opening at the assistant professor level in the Department of Microbiology at the University of British Columbia (UBC). We are seeking an individual with training in any aspect of molecular biology. Responsibilities would include teaching at the undergraduate level, direction of graduate students, and development of a strong research program. There are several active molecular biology groups at UBC with which the individual may interact. Please send curriculum vitae and the names of three referees to: **Dr. J. J. R. Campbell, Professor and Head, Department of Microbiology, University of British Columbia, 2075 Wesbrook Mall, Vancouver, British Columbia, Canada V6T 1W5.**

ASSISTANT OR ASSOCIATE PROFESSOR. Anticipated opening to begin 1 January 1980 for research position to study hydrodynamics of coastal systems and effects of hydrologic modification on ecosystem function. Ph.D. with expertise in ecology and hydrology or engineering. Nontenured position; to assume responsibility for research contracts and to supervise research associates and assistants. Applicants should send comprehensive résumé with three references to: **Director, Coastal Ecology Laboratory, Center for Wetland Resources, Louisiana State University, Baton Rouge, La. 70803.** *An Equal Opportunity/Affirmative Action University.*

ASSISTANT PROFESSOR OF BIOLOGY. Tenure-track position in a Jesuit university starting September 1980 for an immunologist with additional training in hematology, endocrinology, or virology. Postdoctoral research or college teaching experience expected; completed Ph.D. degree required. Send résumé, complete undergraduate and graduate transcripts, and the names of three persons able to evaluate your qualifications to: **Search Committee, Department of Biology, University of Santa Clara, Santa Clara, Calif. 95053.** Closing date for applications is 15 January 1980. *The University of Santa Clara is an Affirmative Action/Equal Opportunity Employer.*

POSITIONS OPEN

ASSISTANT PROFESSOR POSITION GEORGIA TECH

The School of Physics of Georgia Institute of Technology expects to make an appointment for the fall quarter 1980 at the assistant professor level in the area of experimental laser spectroscopy. This is a tenure-track position and a Ph.D. in physics is required. The school is seeking applicants who are committed to undergraduate and graduate teaching, and can initiate and direct an active research program. Applicants should be able to complement ongoing experimental programs in laser Raman and Brillouin spectroscopy or solid state surface studies or a theoretical program in high resolution atomic-molecular spectroscopy. Please send curriculum vitae and the names of at least three professional references to: **Professor D. C. O'Shea, School of Physics, Georgia Institute of Technology, Atlanta, Georgia 30332.** Women and members of minority groups are encouraged to apply.

ASSISTANT OR ASSOCIATE PROFESSORSHIP BIOCHEMISTRY AND MOLECULAR BIOLOGY

The Department of Biophysical Sciences at the University of Houston invites applications for an anticipated faculty position at the assistant or associate professor level commencing fall 1980. Candidates are being sought with postdoctoral experience, recognized scientific accomplishments, and a strong background in biochemistry or molecular biology. Individuals who are interested in the following areas are especially encouraged to apply: biochemistry of membranes; protein or nucleic acid structure and function; and molecular mechanisms of differentiation or oncogenesis. The new faculty member will be expected to establish a vigorous independent research program of outstanding quality and to participate actively in the undergraduate and graduate instruction of the department. Application deadline is 30 November 1979. Interested persons should send curriculum vitae, a statement of their research plans and goals, copies of major publications, and the names of at least three references to: **Dr. Brian S. Middleditch, Chairman, Faculty Search Committee, Department of Biophysical Sciences, University of Houston, Houston, Texas 77004.** An Equal Opportunity Employer.

ASSISTANT PROFESSOR OF BIOLOGY (invertebrate neurobiology, medical microbiology, clinical biochemistry, parasitology, or hematology/serology). Applications are invited for a tenure-track position (teaching/research) beginning September 1980. Salary up to \$16,500 for 9 months. A seed grant of \$7,000 plus much departmental equipment available. Teaching duties: (i) a two-quarter sequence of human physiology (lecture only) at the junior level, (ii) one course at the senior/graduate level in the area of the candidate's specialization, and (iii) supervision of a freshmen biology laboratory course for one quarter. Also expected to participate in senior research and in the graduate program (M.S./Ph.D.) and to develop and maintain an active independent research program in any one discipline mentioned early. Ph.D. and postdoctoral training required. Send curriculum vitae and have three letters of recommendation sent to: **Dr. Woon H. Jung, Chairman, Department of Biology, University of Toledo, Toledo, Ohio 43606.** Affirmative Action/Equal Opportunity Employer.

ASSISTANT PROFESSORS IN BOTANY

The Department of Biology of the University of South Carolina is seeking qualified applicants for **TWO** tenure-track positions at the level of assistant professor. Successful candidates will be expected to develop and maintain a vigorous program of research and teaching in **PLANT BIOLOGY**. Preference will be given to candidates in vascular plant ecology and experimental plant systematics. Final selections will be made upon the qualifications of the individual applicants, and highly qualified scientists in all areas of plant biology are encouraged to apply. The department will provide modern research facilities including a new research greenhouse. Sufficient funds will be provided for initiation of research, but the successful candidates will be expected to obtain outside grant support. Applicants should, prior to 26 November 1979, submit curriculum vitae, copies of recent research publications, a description of proposed research, and letters of reference to: **Dr. Anthony Huang, Plant Biology Search Committee, Department of Biology, University of South Carolina, Columbia, S.C. 29208.** The University of South Carolina is an Equal Opportunity/Affirmative Action Employer. Applications from women and minority individuals are particularly encouraged.

POSITIONS OPEN

ASSISTANT PROFESSOR OF BIOPHYSICS DEPARTMENT OF BIOPHYSICS AND MEDICAL PHYSICS UNIVERSITY OF CALIFORNIA, BERKELEY

Pending final budgetary approval, an opening at this level will be available beginning 1 July 1980. Applicants should hold the Ph.D. degree, have a strong background in the physical sciences, have acquired a thorough knowledge of the relevant biology, and be engaged in research in basic processes of neural structure and function, transduction or transmission processes fundamental to a neurological process, integrative aspects of neurobiology, or a related field. Preference will be given to those applicants having teaching and postdoctoral research experience. This appointment is full-time and tenure-track, with duties including: teaching at the undergraduate and graduate levels, research in the field of neurobiophysics, and supervision of graduate thesis research in this area. Applications including a letter specifying qualifications and research interests, curriculum vitae, a list of publications, reprints, and the names of four persons whom we may contact for letters of evaluation should be sent to: **Professor Alan Bearden, Chairman, Department of Biophysics and Medical Physics, University of California, Berkeley, California 94720.** The closing date for receipt of applications is 2 January 1980. The University of California is an Affirmative Action Employer.

ASSISTANT PROFESSOR CELLULAR NEUROPHYSIOLOGY

The Department of Physiology and Biophysics at The University of Iowa College of Medicine invites applications for tenure-track appointment at the assistant professor level. Applicants must have the Ph.D. and/or M.D. degree and two or more years of postdoctoral training, with a record of productivity in original research. Candidates should be prepared to conduct a strong, independent research program in vertebrate, preferably mammalian, neurophysiology, with focus on regulatory mechanisms at the cellular level. Departmental interests include, but are not limited to, neurotransmitter and neuropeptide cell biology, neuroendocrinology, regulation of brain development, electrophysiology of excitable cells, and properties of CNS cells in culture. Applicants should also be prepared to take an active part in the medical and graduate teaching activities of the department. Please send curriculum vitae and a brief description of research interests, teaching experience, and career objectives, with names of at least three references, to: **Dr. Robert E. Fellows, Department of Physiology and Biophysics, The University of Iowa College of Medicine, Iowa City, Iowa 52242.** The University of Iowa is an Equal Opportunity/Affirmative Action Employer.

ASSISTANT OR ASSOCIATE PROFESSOR OF ENTOMOLOGY. Research; some teaching in quantitative approaches to pest management and crop protection. Must be willing to cooperate in team efforts. Competence in statistics and modeling and completed Ph.D. required. Direct inquiries and applications before 16 November 1979 to: **Dr. C. W. Pitts, Head, Department of Entomology, 106 Patterson Building, The Pennsylvania State University, University Park, Pa. 16802.**

ASSISTANT VICE PRESIDENT FOR RESEARCH, The University of Georgia. The University of Georgia invites nominations and applications for the position of assistant vice president for research. The assistant vice president, under the direction of the vice president for research, will supervise certain internal research funding programs of the university, will administer a research proposal development program, and will supervise certain regulatory aspects of the research program.

The desired qualifications for the position include an earned doctorate, preferably in the sciences or the humanities, demonstrated leadership abilities as a research administrator in a research university, and qualification for appointment as a full professor in an academic department of the university.

The position is to be filled on 1 July 1980. Salary is competitive and commensurate with qualifications. Letters of application with resumé, or of nomination, should be received by 15 November 1979, and should be addressed to:

**Dr. Emily Pou, Chairperson,
Assistant Vice President Search Committee
Office of the Vice President for Research
Graduate Studies Research Center
University of Georgia
Athens, Georgia 30602**

An Equal Opportunity/Affirmative Action Employer

POSITIONS OPEN

The University of Notre Dame, Department of Microbiology, invites applications and nominations for the position of **ASSOCIATE PROFESSOR OF MICROBIOLOGY**, with special competence in immunology. We wish to fill this position by August 1980. Applicants should have demonstrated aptitude to develop independent research programs. They should have experience in teaching immunology at the undergraduate and graduate levels. Send curriculum vitae, bibliography, and three reference names and addresses to: **Dr. Morris Pollard, Department of Microbiology, University of Notre Dame, Notre Dame, Indiana 46556.** The University of Notre Dame is an Equal Opportunity/Affirmative Action Employer.

ASSOCIATE RESEARCHER POSITION, beginning approximately 1 November 1979, renewable, depending upon availability of funds. Ph.D. with at least 5 years of postdoctoral experience, ability to conduct independent research, extensive experience and substantial publication record in development and application of likelihood and structural equation models for genetic epidemiology. Send curriculum vitae and publication list to: **Dr. N. E. Morton, Population Genetics Laboratory, University of Hawaii, 1980 East West Road, Honolulu, Hawaii 96822.** An Equal Opportunity/Affirmative Action Employer.

ASTROPHYSICISTS

The Department of Physics and Astronomy at Dartmouth College invites applications for either of two regular assistant professor positions. One appointment will be made in theoretical astrophysics and the other in optical observational astrophysics; preference in both cases will be given to candidates with experience in high energy astronomy. The appointees will be expected to take part in both graduate and undergraduate physics and astronomy teaching and to carry out an effective research program. The department presently has an observational program on x-ray sources. The primary observing facility is the 1.3 meter telescope at the McGraw-Hill Observatory on Kitt Peak. Appointments are expected to begin September 1980. Applications close 15 January 1980. Applications, including the names of three references, should be sent to: **Chairman, Department of Physics and Astronomy, Dartmouth College, Hanover, N.H. 03755.** Affirmative Action/Equal Opportunity Employer.

BASIC SCIENCES MONTERREY TECH DIVISION OF HEALTH SCIENCES

Applications are invited for two tenure-track positions as Basic Scientists at recently created Division of Health Sciences of The Instituto Tecnológico y de Estudios Superiores de Monterrey (ITESM). Candidates must hold M.D. Degree, be committed to excellence in teaching and research, and be fluent in Spanish. Address inquiries or send resumé to: **Miguel Bedolla, M.D., ITESM, Sucursal de Correos "J", Monterrey, México. Telephone: 58-20-00, extension 164.**

A senior level position is open for a **BIOCHEMICAL PHARMACOLOGIST** in the Department of Biochemistry in affiliation with the Oncology Research Center. The candidate would be responsible for a program to develop anti-tumor agents for eventual use in drug trials. A strong emphasis in the mechanism of action of potential drugs is essential. Interested candidates should contact: **Dr. M. Waite, Department of Biochemistry, Bowman Gray School of Medicine, Winston-Salem, North Carolina 27103.** Telephone: 919-727-4373.

CHAIR OF MATHEMATICS AUSTRALIAN NATIONAL UNIVERSITY

Applications are invited from suitably qualified persons in any field of mathematics for appointment as **PROFESSOR OF MATHEMATICS** in the Research School of Physical Sciences. This is a non-teaching position devoted to research and graduate training, and the appointee will be expected to accept initial appointment as head of department. Salary will be not less than A\$34,119 per annum. (Present exchange rate: A\$1 = U.S.\$1.12; UK.50NP.) Further information may be obtained from: **The Registrar, Australian National University, Canberra ACT 2600, Australia**, with whom applications close on 1 April 1980.

**VIRGINIA POLYTECHNIC INSTITUTE
AND STATE UNIVERSITY
DIRECTOR
of the CENTER for the STUDY
of SCIENCE in SOCIETY**

The Center has been established to promote research, teaching, and continuing education in, and to foster coherence among, the specialties concerned with science and technology as cultural phenomena: **HISTORY, PHILOSOPHY, and SOCIOLOGY OF SCIENCE and TECHNOLOGY; SCIENTOMETRICS; TECHNOLOGY ASSESSMENT; SCIENCE POLICY;** and so forth. The Center was set up as a result of the efforts of some two dozen individuals in various departments and has strong administrative support. Copies are available of the proposal which led to the establishment of the Center, with details of current activities and of proposed developments.

To serve as **DIRECTOR**, we seek a scholar of entrepreneurial and administrative bent, interested in social and policy aspects of science and technology, anxious to develop multidisciplinary research, sufficiently well-established to qualify for a tenured faculty appointment. Rank is open and salary is competitive; high qualifications for this particular position will be the sole criterion, since we do not discriminate on the basis of such irrelevant attributes as gender, ethnic origin, and so forth. We offer an ambience of high morale, encouragement, and the ambition to build a first-rate and comprehensive program.

Please send applications and nominations to, and request further information from: **Henry H. Bauer, Dean, College of Arts and Sciences, Virginia Polytechnic Institute and State University, Blacksburg, Va. 24061; telephone: 703-961-5421.** Closing date for applications is 16 November 1979; preferred date for initial appointment is 1 September 1980.

**STATE UNIVERSITY OF NEW YORK
AT BUFFALO
DEPARTMENT OF BIOLOGICAL SCIENCES**

The following positions are available beginning September 1980:

ENDOCRINOLOGY:

Beginning in September 1980, a tenure-track position will be available in the Department of Biological Sciences at the rank of assistant through full professor level.

We are seeking someone in the area of reproductive and/or neuroendocrinology. At the associate or full professor level, the candidate will be expected to have an on-going, well-defined, successful research program in addition to demonstrable teaching skills.

DEVELOPMENT BIOLOGY:

Beginning in September 1980, a tenure-track position will be available in the Department of Biological Sciences at the rank of assistant through full professor level.

We are seeking someone who has demonstrated his/her expertise in the field of developmental biology. At the associate or full professor level the candidate will be expected to have a well-defined, successful, on-going research program in addition to demonstrable teaching skills.

PLANT PHYSIOLOGY:

Beginning in September 1980, a tenure-track position will be available in the Department of Biological Sciences at the assistant professor level in the area of plant physiology. Applicants must have 2 to 3 years of postdoctoral experience in their area of expertise. Candidates must be able to demonstrate the potential for setting up an independent research program and demonstrate the potential for superior teaching.

To apply, submit curriculum vitae, including bibliography, statement of research interests, teaching background, and have at least four referees send references directly to: **Dr. Om P. Bahl, Chairman, Department of Biological Sciences, State University of New York at Buffalo, 109 Cooke Hall, Amherst, N.Y. 14260.**

Application deadline: 15 December 1979.

State University of New York at Buffalo is an Equal Opportunity/Affirmative Action Employer.

**DEPARTMENT OF STATE
AGENCY FOR INTERNATIONAL
DEVELOPMENT (USAID)**

**BANGKOK—Renewable Nonconventional
Energy Project (493-0304)**

USAID is soliciting expressions of interest for service of an individual or firm (U.S. source and origin) for a two-and-one-half-year contract as coordinator of a renewable nonconventional energy project in Thailand. One full-time advisor to be located in Bangkok, Thailand, is required. A cost reimbursement contract is anticipated and payment will be made in U.S. dollars.

The project includes assessment of nonconventional energy resources (including lignite, oil shale, tar sands, geothermal and conservation methods and technologies appropriate to Thailand; support for establishing an energy data gathering, storage and disseminating system; testing and awarding small scale rural oriented energy technologies; and developing and testing techniques for disseminating proven technologies in rural areas). Technologies to be considered include solar, wind, small scale hydropower, village woodlots, and biomass conversion.

The coordinator will be responsible for identifying appropriate energy specialists to provide approximately 300 person months of technical assistance to the project in all the above areas, and will also be responsible for identifying short-term training opportunities for approximately 250 person months of training in the United States and other countries for Thai energy officials. The coordinator will be expected to facilitate contacts with the U.S. energy community and provide advice on overall project management as appropriate.

Three copies of expressions of interest must be received by **Monica Sinding** (address below) by 15 November 1979. Addresses and details available from: **U.S. Agency for International Development, Department of State, ASIA/PD/SA, Monica Sinding** (Telephone number 703-235-8582), 611 RPC, Washington, D.C. 20520.

STAFF SCIENTIST

(Instrumentation for Materials Characterization)

Assume operational responsibility for electron optical instrumentation, e.g. AMR 1000 SEM, EM 400 STEM, PHI 390 SAM. The responsibilities will include training of users, assisting users in the interpretation of results, supervision of maintenance, and operation of instruments for special projects. A BS or MS in Physical Science and at least five years experience in electron optical instrumentation, especially scanning electron microscopy, are prerequisites. Experience with energy dispersive analysis of x-ray emission and electron microprobe instrumentation is preferred. Salary level (range \$1485—\$2855/Mo.) commensurate with education and experience. Please send two copies of resume to Employment Office, # 1 Cyclotron Road, Lawrence Berkeley Laboratory, University of California Berkeley, CA 94720.



An equal opportunity employer M/F/H

FACULTY POSITIONS IN PHARMACEUTICS UNIVERSITY OF PITTSBURGH SCHOOL OF PHARMACY

Applications are invited for three tenure-track, 12-month faculty positions in the Department of Pharmaceutics of the University of Pittsburgh School of Pharmacy. All appointments to begin 1 February 1980 or soon thereafter.

1) **TWO ASSOCIATE PROFESSORS IN PHARMACEUTICS:** applicants should possess a baccalaureate degree from an accredited college of pharmacy and a Ph.D. degree in pharmaceutics with specialization in either physical pharmacy or biopharmaceutics and pharmacokinetics. Applicants must be qualified to teach both undergraduate and graduate courses in either dosage form technology and physical pharmacy or in biopharmaceutics and pharmacokinetics. A strong background in analytical chemistry, physical chemistry, mathematics, computer science, or clinical drug testing is desirable. The successful applicants are expected to participate in the graduate program and to develop an independent research program. Salary will be commensurate with qualifications and experience.

2) **ONE ASSISTANT PROFESSOR IN PHARMACEUTICS:** applicants should possess a baccalaureate degree from an accredited college of pharmacy and a Ph.D. degree in pharmaceutics. Applicants must be qualified to teach both undergraduate and graduate courses in either dosage form technology and physical pharmacy or in biopharmaceutics and pharmacokinetics. A strong background in analytical chemistry, physical chemistry, mathematics, or computer science is desirable. The successful applicant is expected to participate in the graduate program and to develop an independent research program. Salary will be commensurate with qualifications and experience.

Interested applicants should send a letter of application, (prior to 15 December 1979), accompanied by curriculum vitae, with a complete bibliography, brief outline of current research interests and future research objectives, and the names and addresses of four to six persons for reference, to:

**Dr. Theodore R. Bates, Chairman
Department of Pharmaceutics
University of Pittsburgh School of Pharmacy
718 Salk Hall
Pittsburgh, Pa. 15261**

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

POSITIONS OPEN

BIOCHEMIST. Applications invited for tenure-track teaching position starting September 1980. Superior teaching ability and experimental research experience in biochemistry are sought. Teaching responsibilities in the area of biochemistry, general chemistry, and possibly physical chemistry. Rank open, but assistant professor preferred. Ph.D. by 1 September 1980 required. Send résumé, transcripts, statement of research plans, and three letters of recommendation to: **Dr. James H. Hammons, Chemistry Department, Swarthmore College, Swarthmore, Pa. 19081.** Closing date for applications is 30 November 1979. *An Equal Opportunity Employer.*

BIOCHEMIST/MOLECULAR BIOLOGIST

Immediate opening for a Ph.D. to join a team of investigators working in the area of hormonal regulation of gene expression in rat liver. Salary and title according to qualifications and experience. Send résumé and names of three references to: **Dr. Arun K. Roy, Professor of Biological Sciences, Oakland University, Rochester, Mich. 48063.**

DEPARTMENT OF CHEMISTRY APPOINTMENT IN BIOCHEMISTRY

Applications are invited for a tenure-track appointment at the assistant professor rank, preferably with specialization in the area of macromolecular biochemistry, starting 1 September 1980. The appointment is subject to budgetary approval. The successful applicant will be required to teach graduate and undergraduate courses in biochemistry and to establish a vigorous research program.

The current base of the assistant professor rank is \$19,720 per annum.

Simon Fraser University is situated in Greater Vancouver, British Columbia.

Applications, including curriculum vitae, a concise statement of proposed research, and the names of three referees, should be sent by 31 December 1979 to:

**Dr. C. H. W. Jones, Chairman
Department of Chemistry
Simon Fraser University
Burnaby, British Columbia, Canada V5A 1S6**

BIOLOGICAL OCEANOGRAPHY. Research assistant professor to work with current staff to assist in supervising graduate student research and to develop funded research activity in areas of culture, larval ecology, and developmental biology of crustaceans. Ph.D. required. Salary competitive. Position available 1 December 1979. Send résumé by 7 November 1979 to: **Dr. A. J. Provenzano, Old Dominion University, Department of Oceanography, Norfolk, Va. 23508.** *An Affirmative Action/Equal Opportunity Employer.*

Ph.D.—BIOPHYSICAL SCIENCE

Challenging opportunity, Western Pennsylvania. Head up team for biophysical research laboratory, cardiac. Capable of independent investigation in basic and applied cardiology. Knowledgeable in applying for grants and computer applications. Experienced in publication of papers. Salary negotiable. Send curriculum vitae to: **Box 302, SCIENCE.**

BIOPHYSICS, FACULTY POSITION, Georgia Institute of Technology invites applications for a tenure-track position at the assistant professor level in molecular biophysics. The position is expected to be a shared appointment between the Schools of Physics (2/3) and Biology (1/3). Candidates must have a Ph.D. in physics or equivalent training, and post-doctoral experience. Applicants are expected to show evidence of ability to initiate a strong research program and have a commitment to quality graduate and undergraduate teaching. Research area should complement current research programs in molecular genetics and/or neurobiology. Send curriculum vitae and names and addresses of three references by 1 March 1980 to: **Dr. Roger M. Wartell, Search Committee, School of Physics, Georgia Institute of Technology, Atlanta, Georgia 30332.** *An Equal Opportunity/Affirmative Action Employer.*

BIOSTATISTICIAN wanted to supervise data management system and provide analytical support for major oil shale project in Colorado. Duties include ecosystem analysis, experimental design of field programs, and software development. M.S. in statistics with biological emphasis required. Experience desired. Send résumé to: **R. Gash, Director, Environmental Affairs, Rio Blanco Oil Shale Company, 9725 East Hampden Avenue, Denver, Colorado 80231.** *An Equal Opportunity Employer.*

POSITIONS OPEN

OCEANOGRAPHY, CHAIRMAN. Applications are invited from persons with an earned doctorate, teaching, and research experience. Administrative experience is desirable, but not mandatory. Starting date: 1 January 1980 or 1 August 1980. Old Dominion is a state university. The Oceanography Department offers programs leading to the M.S. and Ph.D. degrees with concentrations in biological, chemical, geological, and physical oceanography, as well as some undergraduate service courses. The departmental emphasis is on research and graduate teaching. The department has at present ten faculty and 110 students. From two to four additional faculty may be added in the next 3 years. Applicants should submit curriculum vitae and a list of three references before 15 November 1979 to: **Professor Chester E. Grosch, Department of Oceanography, Old Dominion University, Norfolk, Va. 23508.** *An Affirmative Action/Equal Opportunity Employer.*

DEAN SCHOOL OF MEDICINE

Because of the rapid expansion of health-related academic programs in a vigorous young university, it has become necessary to divide the responsibilities of the present Vice President for Health Affairs/Dean, School of Medicine, to achieve the total developmental potential of the university and its component programs, effective 1 July 1980, or sooner. The School of Medicine has enrolled 100 students (design size) in its fourth class and is fully operational in a decentralized community-based mode.

The dean is the major academic and administrative officer of the School of Medicine and, as such, must have prior experience as a dean or associate dean of a school of medicine or equivalent major administrative experience in an academic health center. Familiarity with the university environment, appropriate faculty experience, the M.D. degree, and demonstrated management, planning, and budgetary/fiscal experience are needed. A large number of clinical affiliations have been developed, as well as programs in graduate medical education. The position demands a philosophical commitment to a community-based medical educational program and a willingness to participate in, and work closely with, the practicing medical community. A letter of application, including curriculum vitae and the names of three references, should be sent to: **John R. Beljan, M.D., Vice President for Health Affairs, Dean, School of Medicine, Wright State University, Dayton, Ohio 45435.** Closing date for applications or nominations is 30 November 1979. *Wright State University is an Equal Opportunity Employer.*

DIRECTOR FOR ALLIED HEALTH PROGRAMS

The director for allied health programs will be a major associate of the vice president for health affairs and will have primary responsibility for allied health programs in a growing major university. The director must have prior experience in a major administrative position in an academic health center, familiarity with a university environment, a terminal degree, and faculty member experience in a recognized health profession. Appropriate planning, management, budgetary and fiscal experience, including new program development, is expected. The newly created administrative unit for health affairs at Wright State University includes an existing medical school, a new School of Professional Psychology, and other major health-related entities. A large number of important clinical affiliations have been developed. A letter of application, including curriculum vitae and the names of three references, should be sent to: **John R. Beljan, M.D., Vice President for Health Affairs, Wright State University, Dayton, Ohio 45435.** Closing date for applications or nominations is 30 November 1979. *Wright State University is an Equal Opportunity Employer.*

The Department of Psychology at the University of Pittsburgh is interested in hiring a **DEVELOPMENTAL PSYCHOLOGIST** at the rank of professor or possibly associate professor. The individual should have an established research record. Experience working with graduate students as well as post-doctoral students is desired. The individual's primary area of interest within developmental psychology is not specified. There is the possibility of affiliation with the Learning Research and Development Center, pending the individual's interests. Please send curriculum vitae and four letters of recommendation to either: **Dr. Mark Strauss or Dr. James F. Voss, Department of Psychology, University of Pittsburgh, Pittsburgh, Pa. 15260.** *The University of Pittsburgh is an Equal Opportunity Employer.*

POSITIONS OPEN

DEPARTMENT OF PHARMACOLOGY LOUISIANA STATE UNIVERSITY (LSU) MEDICAL CENTER

The LSU Medical Center and School of Medicine in New Orleans is seeking a **CHAIRMAN** for the Department of Pharmacology. The appropriate individual should be capable of providing leadership in teaching and research in a department with teaching responsibilities in the Schools of Medicine, Dentistry, Nursing, and Allied Health.

Interested individuals are invited to submit credentials to:

**Gerald R. Gehringer, M.D.
Chairman, Search Committee for Pharmacology
Department of Family Medicine
1542 Tulane Avenue
New Orleans, La. 70112**

An Equal Opportunity/Affirmative Action Employer

DRUG ANALYSIS AND METABOLISM. The School of Pharmacy at the State University of New York at Buffalo has an opening for a faculty position in pharmaceuticals. Applicants should have a Ph.D. degree and should have demonstrated scholarship in analytical chemistry and drug metabolism. Rank and salary commensurate with qualifications and experience. Active graduate research program and excellent laboratory facilities. Reasonable teaching load. Apply by sending curriculum vitae and outline of research interests by 15 November 1979:

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

The University is an Affirmative Action/Equal Opportunity Employer.

Department of Pathology seeks an **ELECTRON MICROSCOPIST** (M.D. or Ph.D.) to supervise EM facility. Experience with TEM, SEM, and freeze-fracture is essential. Interest in applications of ultrastructural analysis to the study of disease is desirable. Candidates should write: **David Lagunoff, M.D., Department of Pathology, St. Louis University School of Medicine, 1402 South Grand Boulevard, St. Louis, Mo. 63104,** and include curriculum vitae with bibliography and two references.

EXTENSION ENTOMOLOGIST (assistant Professor). For details, telephone: 515-294-7400 or write: **Department of Entomology, Iowa State University, Ames, Iowa 50011.** *An Affirmative Action/Equal Opportunity Employer.* Application deadline: 15 November 1979.

KANSAS STATE UNIVERSITY—The Department of Chemical Engineering which includes materials science is accepting applications for a full-time **FACULTY POSITION** available 1 September 1980. Applicants at the assistant professor level will receive preference. The position requires an individual qualified to teach materials science at the undergraduate and graduate levels. Background, training, or experience in chemical engineering would be desirable. The ability to develop a research program is essential, as is the Ph.D. Applications will be considered through 15 February 1980. Applicants should send résumés to: **Dr. L. T. Fan, Department of Chemical Engineering, Durland Hall, Kansas State University, Manhattan, Kans. 66506.** *An Equal Opportunity/Affirmative Action Employer.*

GEOPHYSICIST UNIVERSITY OF SOUTH CAROLINA

The Department of Geology has a tenure-track faculty position for a solid earth geophysicist beginning fall 1980. Salary and rank are open. We are particularly interested in someone who has or will develop an aggressive research program. Current areas of research within the Department of Geology pertinent to geophysics include: earthquake prediction, induced seismicity, tectonics of the southeast U.S. and North Africa, rock mechanics, and paleomagnetism. The university houses the South Carolina seismograph network. Send applications or inquiries to: **Dr. Willard S. Moore, Department of Geology, University of South Carolina, Columbia, S.C. 29208** before 20 December 1979. *The University of South Carolina is an Equal Opportunity/Affirmative Action Employer.*

RESPIRATORY PHYSIOLOGIST/ HEALTH SCIENTIST ADMINISTRATOR

Division of Lung Diseases

The National Heart, Lung, and Blood Institute, National Institutes of Health, Public Health Service, is seeking applicants for a career Civil Service position in the Structure and Function Branch of the Institute's Division of Lung Diseases. The Structure and Function Branch is responsible for the planning, direction, and evaluation of basic and applied, clinical and nonclinical research on the lung and respiratory system. This includes programs on respiratory and nonrespiratory functions, and growth and development. The incumbent will assist in planning, conducting and evaluating extramural research on respiratory functions.

An applicant must have a doctoral degree or equivalent experience with significant training and research experience in respiratory physiology. Applicant's background should include familiarity with research approaches relative to control of breathing, gas exchange and pulmonary mechanics.

Salary range GS-12 to GS-13, \$23,087-\$27,453, dependent upon qualifications. Interested persons should submit Curriculum Vitae, Bibliography and a completed form SF-171 (Personal Qualifications Statement) by December 15, 1979 to Mr. Herbert Jones, NHLBI Personnel Office, NATIONAL INSTITUTES OF HEALTH, Public Health Service, 9000 Rockville Pike, Building 31, Room 5A-32, Bethesda, MD 20205. For additional information, please call (301) 496-6477. Equal Opportunity Employer.

NATIONAL INSTITUTES OF HEALTH

Behavioral Pharmacologist

Candidates should have a Ph.D. in pharmacology, physiology or psychology and 3-5 years of experience in behavioral pharmacology. Primary responsibility will be to direct the operation of the Behavioral Laboratory including the supervision of 3-4 technicians.

Experience in the application of digital computers to behavioral methodology is essential. Experience with neurochemical techniques and some industrial experience is desirable.

This opportunity is available with Wyeth Laboratories, a leading pharmaceutical firm located in suburban Philadelphia. We are offering a competitive salary along with a comprehensive benefits plan. If you have an interest and are qualified for this position, please submit your curriculum vitae and salary requirements to:

John W. Pinkerton
PERSONNEL DEPARTMENT



WYETH LABORATORIES, INC.
P.O. Box 8299, Philadelphia, Pa. 19101

Equal Opportunity Employer, M/F/H



General Motors— Research Laboratories

The Transportation and Traffic Science Department of the General Motors Research Laboratories has openings for:

Ph.D. Transportation Engineers, Transportation System Engineers, Planners, Economists, Statisticians, and Physical Scientists with backgrounds and interests in transportation system and policy analysis, traffic flow theory, micro-economics, econometrics, operations research or applied statistics.

Successful candidates would contribute to on-going projects on automobile usage, freight transportation, highway financing, traffic safety and efficiency, energy consumption, and driver behavior. Applicants must demonstrate the ability to conduct research and communicate results effectively.

Interested professionals with U.S. Citizenship or Visa Status that permits legal acceptance of permanent employment under U.S. Immigration Laws, should send their resume to:

Mr. William M. Spreitzer
Head, Transportation & Traffic Science
Research Laboratories/GM Technical
Center
Warren, Michigan 48090

An Equal Opportunity Employer

medical director

Washington, D.C. area
Nonprofit health organization

A challenging opportunity exists at the Cystic Fibrosis Foundation for Director of its Medical/ Scientific Department. The person in this position administers current research, clinical, and education programs, develops and implements new programs, acts as liaison between the Foundation and other organizations on CF-related research issues, administers the Medical/Scientific program budget, and serves as spokesman for the Foundation on scientific issues.

Candidates must have a doctoral degree (M.D., Ph.D., or combined M.D./Ph.D.) in one of the life sciences and a demonstrated knowledge of and experience in clinical medicine or biomedical research. Proven administrative, managerial, and leadership skills in health science programs are essential. Knowledge of budgetary and legislative processes as they relate to federal agencies and Congress in the development of program initiatives is desired.

Send curriculum vitae and references to:

ROBERT K. DRESING
Chairman

Search Committee
24165 Detroit Road
Cleveland, Ohio 44145

Equal Opportunity Employer



Cystic Fibrosis Foundation
6000 Executive Boulevard
Rockville, Maryland 20852

POSITIONS OPEN

FACULTY, HUMAN BIOLOGY PROGRAM at Stanford University, in field of public policy analysis. Half-time in human biology, a large undergraduate program integrating biological and behavioral sciences. Half-time in related Stanford department or school. Person with demonstrated research productivity, interested in undergraduate teaching, with organizational skills to help teach and coordinate a series of courses in health policy and environmental policy. Rank open. Begins 1 September 1980. *Affirmative Action Employer.* Application deadline: 15 November 1979. Send curriculum vitae to: **Albert H. Hastorf, Policy Search Committee, Human Biology, Stanford University, Stanford, Calif. 94305.**

FACULTY POSITION COMPARATIVE HISTOLOGIST

The University of Florida is seeking applications and/or nominations for a faculty position in comparative histology in the Department of Metabolism, College of Veterinary Medicine. Responsibilities include comparative histology instruction to students in the professional degree (D.V.M.) curriculum, graduate student supervision and development of a research program in candidate's area of interest. In addition, the successful candidate would be expected to contribute to veterinary gross anatomy instruction.

The Ph.D. degree is required; candidates with the D.V.M. (or equivalent) degree are preferred. Other desired qualifications include experience in teaching veterinary histology and gross anatomy and demonstrated research potential and/or productivity. Rank and salary will be commensurate with training and experience. Research will be in an area of the candidate's choice.

Letters of application or nomination should include curriculum vitae outlining citizenship, academic training, teaching and research experience, and present professional activities. Also needed are a list of publications, a statement of professional goals, and the names of three persons who can provide letters of reference. The closing date for applications is 1 December 1979, or thereafter until a successful candidate is identified. Send application or nomination to:

**Dr. J. W. Harvey, Chairperson
Search Committee
College of Veterinary Medicine
J-144 JHMC
University of Florida
Gainesville, Florida 32610**

GROSS ANATOMY. Applications are invited from individuals interested in a position as assistant or associate professor at Ohio University in the College of Osteopathic Medicine and the Department of Zoology and Microbiology. This teaching-research position involves the instruction of osteopathic medical students in gross anatomy and graduate students at the M.S. and Ph.D. levels in the area of the candidate's speciality. The successful candidate will be expected to develop a strong independent research program. Research area is open. Minimum qualifications include a Ph.D. degree or equivalent; prior medical or dental school teaching is highly desirable. Interested individuals should submit curriculum vitae and a summary of research plans by 21 November 1979 to:

**Biomedical Science Search Committee
Ohio University
College of Osteopathic Medicine
Grosvenor Hall
Athens, Ohio 45701**

Ohio University is an Affirmative Action/Equal Opportunity Employer.

PHARMACOLOGY. Tenure-track position for fall 1980 for assistant or associate professor, Ph.D. with strong academic and research background required. The applicant is expected to develop a rigorous independent research program and participate in the teaching of medical students. Research area is open, but preference will be given to candidates with an interest in cardiovascular or neuropharmacology. Send curriculum vitae and references by 21 November 1979 to:

**Biomedical Science Search Committee
Ohio University
College of Osteopathic Medicine
Grosvenor Hall
Athens, Ohio 45701**

Ohio University is an Affirmative Action/Equal Opportunity Employer.

POSITIONS OPEN

FACULTY POSITION

The University of California, Davis, Department of Biochemistry and Biophysics in the College of Agricultural and Environmental Sciences, invites applications for a full-time ladder appointment as **assistant professor of biochemistry**. A Ph.D. degree in biochemistry or a closely related field is required; postdoctoral experience in biochemistry of at least 2 years is preferred. The principal teaching duties involve participation in undergraduate and graduate courses in biochemistry, advising students, and guiding graduate students to advanced degrees in biochemistry. In research, preference will be given to those candidates who have demonstrated competence and originality in the area of photosynthesis although highly qualified applicants in other areas of biochemistry will also be considered. Applicants should submit résumé, undergraduate and graduate transcripts, copies of publications, a proposed research program, and the names and addresses of at least three referees, prior to 31 January 1980 to: **P. K. Stumpf, Chairman, Search Committee, Department of Biochemistry and Biophysics, University of California, Davis, California 95616.**

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

FACULTY POSITIONS CORNELL UNIVERSITY DEPARTMENT OF AGRONOMY

Applications are invited for the positions of **ASSISTANT PROFESSOR OF CROP SCIENCE, ASSISTANT PROFESSOR OF SOIL SCIENCE, and ASSISTANT PROFESSOR OF FOREST SOILS**. All positions are tenure-track with a 70 percent research and 30 percent teaching time commitments. Research emphasis for the crop science position will be on physiology and production of grain crops. The assistant professor of soil science will specialize in soil management and conservation and will address the management and use of soils management and conservation and will address the management and use of soils with physical limitations. The Charles Lathrop Pack Assistant Professor of Forest Soils will work within a broad listing of activities as stated in the terms of the Pack endowment. Appointments can be made immediately for the forest soils position and 1 January 1980 for the other positions.

Send curriculum vitae, transcripts, and names of three references to: **R. F. Lucey, Chairman, Department of Agronomy, Cornell University, Ithaca, N.Y. 14853.**

An Equal Opportunity/Affirmative Action Employer

IMMUNOLOGIST DEPARTMENT OF BIOLOGY Massachusetts Institute of Technology (MIT)

The Department of Biology announces an opening of a tenure-track position at the assistant or associate professor level, to be located in laboratories of MIT's Center for Cancer Research. The candidate should have carried out significant predoctoral and postdoctoral research in cellular immunology and should plan to continue independent research in this area. Teaching, approximately one semester course per year, will be undergraduate and graduate immunology or genetics and molecular biology subjects.

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

Send applications to:

**Dr. Gene Brown, Head
Department of Biology, Room 56-511
Massachusetts Institute of Technology
Cambridge, Mass. 02139**

MIT is an Affirmative Action/Equal Opportunity Employer.

IMMUNOLOGIST/VIROLOGIST

Tenure-track position for Medical Education available no later than 1 September 1980. Position requires teaching immunology/virology to medical students as well as teaching immunology/virology and general microbiology to graduate/undergraduate students. Demonstrated teaching and research ability, publications, and/or other evidence of scholarly contributions preferred. Doctorate required. Send résumé to: **Chairman, Search and Selection Committee, Department of Biology, Ball State University, Muncie, Ind. 47306.** Application deadline: 15 January 1980.

Ball State University practices Equal Opportunity in Education and Employment.

POSITIONS OPEN

STANFORD UNIVERSITY GEOCHEMIST—PETROLOGIST

The Department of Geology in the School of Earth Sciences invites applications for a faculty position beginning September 1980. Areas of interest include (but are not limited to) geochemical processes in the crust and mantle of the earth including isotope geochemistry, thermodynamics, kinetics, element distribution, and phase equilibria studies. Teaching responsibilities might include graduate and undergraduate courses in geochemistry and igneous petrology. Level of appointment is open, but we are particularly interested in a creative person with a well-established record in research. Applications should include (i) a résumé of education, professional experience, and published research; (ii) a brief statement of plans for future research; and (iii) the names of four references. Send to: **Professor J. G. Liou, Department of Geology, Stanford University, Stanford, Calif. 94305** by 1 December 1979. *Stanford University is an Equal Opportunity/Affirmative Action Employer.*

HEAD, DEPARTMENT OF MATHEMATICS UNIVERSITY OF ILLINOIS, URBANA-CHAMPAIGN

Nominations and applications are invited for the position of head of the Department of Mathematics. The candidate should be an outstanding mathematical scientist with administrative leadership experience or potential. The department is research oriented with programs in pure and applied mathematics, computational methods, and statistics. The position will become available in summer 1980. Salary is negotiable.

Criteria for the selection will include strong research experience, broad intellectual outlook, the potential for imaginative leadership, and a commitment to the importance of mathematics, both pure and applied. The candidate should be able to exercise strong leadership within a democratic context and be a force for excellence in scholarship and teaching.

Applications should include a complete résumé and list of publications, as well as names of at least four references. Nominations and applications should be received by 15 December 1979 in order to receive full consideration. Please send replies to:

**Professor John Bardeen
Chairman, Search Committee
337 Loomis Laboratory of Physics
University of Illinois at Urbana-Champaign
Urbana, Illinois 61801
Telephone: 217-333-3618**

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

IMMUNOLOGY/IMMUNOPATHOLOGY

The Department of Pathology, Hematopathology Section, University of Southern California (USC School of Medicine), is seeking applicants with expertise in antibody production, purification, and quality control for immunohistochemistry. **Requires a Ph.D.** Salary negotiable. Send curriculum vitae to: **Dr. Clive R. Taylor, Lymphoma/Leukemia Group, Department of Pathology, University of Southern California, 2025 Zonal Avenue, Los Angeles, California 90033.** *Affirmative Action/Equal Opportunity Employer.*

UNIVERSITY LECTURERSHIP/ CURATORSHIP IN ENTOMOLOGY

Applications are invited for the above post. Stipend according to age on the scale £4,333 to £9,581 (interim scale effective from 1 October 1979). The successful candidate may be offered a tutorial fellowship by Lady Margaret Hall. Details may be obtained from: **The Linacre Professor of Zoology, Department of Zoology, South Parks Road, Oxford OX1 3PS, England,** to whom completed applications (nine typed copies, two from overseas candidates) should be sent by 1 December 1979.

MARINE MICROBIOLOGIST

The Osborn Laboratories of Marine Sciences has an immediate opening for a qualified Ph.D. to develop a new program in microbiology. Send résumé and the names of three references to:

**James B. White
Personnel Manager
New York Zoological Society
185th Street and Southern Boulevard
Bronx, New York 10460**

An Equal Opportunity Employer, M/F

Research Participation Program

Argonne National Laboratory, one of the U.S. Department of Energy's major research and development centers, announces Research Participation Programs for summer 1980 and academic year 1980-81. Opportunities exist for faculty, graduate students, and undergraduates to participate in Argonne's extensive program of basic and applied energy-related research. Financial assistance is available to research participants, and is provided by the Education Programs Division, U.S. Department of Energy.

Additional information and application forms may be obtained from: ARGONNE CENTER FOR EDUCATIONAL AFFAIRS, 9700 So. Cass Avenue, Argonne, IL 60439. Or call: (312) 972-3365. An equal opportunity employer, m/f.



**ARGONNE
NATIONAL
LABORATORY**

Department Head Position

Nominations and applications are invited for the position of Head, Electrical Engineering Department, Carnegie-Mellon University. Qualifications sought include earned doctorate, established reputation in Electrical Engineering, experience in teaching and education, leadership and administrative abilities. Candidates should qualify for the rank of Full Professor. Applications, including resume, list of publications and references should be received prior to November 15, 1979.

Contact:

Dr. M.H. Kryder
Chairman, Search Committee
Electrical Engineering
Department
Carnegie-Mellon University
Pittsburgh, PA 15213

Carnegie-Mellon University is an Equal Opportunity Employer.

NATIONAL COLLEGE OF CHIROPRACTIC FACULTY POSITIONS AVAILABLE

BIOCHEMIST: Background in nutrition or Ph.D. or M.S. in nutrition to teach in Department of Chemistry and Nutrition. Person should have background appropriate for development of educational and research programs in biochemistry, metabolism, and basic nutrition. Rank and salary open.

GROSS ANATOMY: Full-time appointment. Teaching lecture and laboratory, including cadaver dissection. Credentials and experience should warrant full-time faculty appointment. Rank and salary open.

PATHOLOGIST: Full-time faculty appointment. Teaching assignments could include basic principles of pathology; principles of neoplastic processes; specific neoplasms and systems pathology. Special consideration to persons with professional degree or professional postgraduate qualification in pathology. Rank and salary commensurate with qualifications and teaching experience.

PHYSIOLOGIST, Ph.D.: Immediate opportunity to teach physiology in professional curriculum. Area of interest should be cardiovascular physiology. Research encouraged. Credentials and experience should warrant rank and salary at assistant professor level.

PHYSIOLOGIST, M.S.: Immediate opportunity to teach physiology courses at first professional degree level. Appointment includes supervision and coordination of physiology laboratories. Research encouraged. Credentials and experience should warrant full-time rank.

To apply for any of the above positions send curriculum vitae, and have forwarded official transcripts of all undergraduate, graduate and/or professional education and at least three letters of reference before 15 November to:

Dr. C. C. Kuehner, Director
Division of the Basic Sciences
National College of Chiropractic
200 East Roosevelt Road
Lombard, Illinois 60148

Check

our 1979 Tapes

Look to the right for a list of tapes of medical science sessions held at the 1979 AAAS Annual Meeting in Houston. Check the ones you want for personal study, classroom use, or library reference.

Name _____ Title _____

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☐ **Genetics in Epidemiology** (79T-4291). 2 cassettes. \$16.

☐ **Epidemiology Studies of Low-Level Radiation Exposure** (79T-4681). 2 cassettes. \$16.

☐ **Biofeedback: Current Perspectives** (79T-4751). 2 cassettes. \$16.

☐ **Technology and Health Care: Prospects and Pitfalls** (79T-4321). 2 cassettes. \$16.

☐ **Effects of Prenatal Exposure to Alcohol: Human and Animal Studies** (79T-4491). 2 cassettes. \$16.

POSITIONS OPEN

LABORATORY ANALYST INORGANIC CHEMISTRY

Environmental Data, Incorporated is an analytical services firm providing analytical services to a variety of clients including industrial, governmental, and private concerns. We have an immediate opening for a full-time analyst with a minimum of a B.S. degree in chemistry with 2 years of laboratory experience in the analysis of wastewater, metals, and treatability studies. Our laboratories are located at 611 Cascade West Parkway, SE, Grand Rapids, Michigan 49506. To apply send a detailed résumé in confidence prior to 9 November to: **M. M. Chambers, Environmental Data, Incorporated is an Equal Opportunity Employer, M/F. Members of minority groups are encouraged to apply.**

The Departments of Animal Science and Food Technology, Iowa State University, are seeking a person to teach and conduct research in MEAT SCIENCE. The position will be approximately 50 percent teaching and 50 percent research. Required: A Ph.D. in meat science or related area, ability to conduct a research program of excellence including but not limited to growth and development, composition, and quality. Ability to communicate effectively in teaching and with associates and industry groups is considered essential. Supporting work in animal physiology is preferred. Send résumé, transcripts, and request that a minimum of three letters of recommendation be forwarded to: **S. A. Ewing, Head, Department of Animal Science, 101 Kildee Hall, Iowa State University, Ames, Iowa 50011. Affirmative Action/Equal Opportunity Employer.**

MICROBIOLOGIST. Applications are invited for a faculty position in the Department of Microbiology. Applicants should have a conferred doctorate and demonstrated ability in teaching in the area of microbial ecology and general microbiology. The successful candidate will be expected to teach courses in microbial ecology and general microbiology and to develop and direct a quality research program in aquatic microbiology and elemental cycling and to advise graduate students in this area. Appointment will be a tenure-track position on a 9-month basis at the rank of assistant professor beginning January 1980. Closing date for application is one month following the date of this advertisement. Send a biographical sketch and a list of five references to: **Chairman, Microbial Ecology Search Committee, Department of Microbiology, The Ohio State University, 484 West 12 Avenue, Columbus, Ohio 43210.**

An Equal Opportunity/Affirmative Action Employer. All qualified persons, including women, members of minority groups, and the handicapped, are encouraged to apply.

MOLECULAR GENETICIST. The University of Missouri-Kansas City, Department of Biology, seeks a molecular geneticist doing research with higher eukaryotes; 9-month, tenure-track position at the assistant professor level beginning 1 September 1980, contingent upon availability of funds. Teaching responsibilities include participation in the undergraduate and graduate genetic courses and development of graduate level courses in the area of specialty. Candidates must have the Ph.D. degree and have demonstrated ability to carry on an active research program. Individuals with postdoctoral and teaching experience will be given preference. Send curriculum vitae and three letters of recommendation, prior to 1 December 1979, to:

**Genetics Search and Screening Committee
Department of Biology
University of Missouri-Kansas City
Kansas City, Missouri 64110**

The University is an Equal Opportunity Employer.

PHYSIOLOGIST. Assistant professor in biology; Ph.D. or equivalent required; 9-month, tenure-track position. Candidates must have broad training in medical physiology; will teach in undergraduate and graduate biology courses and will have a joint appointment in the School of Medicine participating in the 6-year B.A./M.D. medical program including a medical physiology course. Filling of position contingent upon availability of funds. Send curriculum vitae and three letters of reference, prior to 30 November 1979, to:

**Physiology Search and Screening Committee
Department of Biology
University of Missouri-Kansas City
Kansas City, Missouri 64110**

The University is an Equal Opportunity Employer.

POSITIONS OPEN

METAMORPHIC PETROLOGIST Department of Geological Sciences The University of Texas at Austin

A tenure-track faculty position is now open in metamorphic petrology, effective September 1980. The candidates must be field oriented and able to use modern laboratory instruments for research and teaching. An interest in mineral resources is desirable. Teaching responsibilities will include graduate and undergraduate metamorphic petrology, undergraduate mineralogy and field instruction, and supervision of graduate research.

Applicants for this position must have completed all requirements for the Ph.D. degree at the time of employment. Please send complete résumé, including names of three references, an abstract of the dissertation, statement of research interests and planned research projects, to:

**Dr. Robert E. Boyer, Chairman
Department of Geological Sciences
The University of Texas at Austin
P.O. Box 7909
Austin, Texas 78712**

Deadline for applications: 15 January 1980.

Equal Opportunity/Affirmative Action Employer, M/F

MICROBIOLOGIST

The Department of Biochemistry, responsible for the undergraduate program in microbiology, is seeking a person with a strong background in microbiology and biochemistry to develop and teach a good course in microbial physiology. This person is also expected to develop an active program of research, not necessarily related to the basic teaching responsibilities of the position. Minimum requirements: Ph.D. and some pertinent postdoctoral experience; Canadian citizenship is not a prerequisite. Those interested in this position should send complete applications (curriculum vitae, three letters of recommendation), résumé of research interests, reprints, and so forth to: **Dr. Jean-Louis Lavoie, directeur, Département de biochimie, Faculté des sciences et de génie, Université Laval, Québec, Québec, Canada, G1K 7P4.** Eventual or actual fluency in French is required of all candidates. Salary range (assistant professor): \$21,000 to \$36,000. Application deadline date is 1 January 1980.

MOLECULAR BIOLOGIST AND/OR MICROBIOLOGIST with a demonstrated interest in environmental studies. Tenure-track position at the assistant professor level commencing 14 January 1980. Ph.D. required. Applicants should be committed to quality instruction at the undergraduate and graduate levels. An active research program is expected. Applications should be received by 26 November 1979 and include a résumé, transcripts, and three letters of reference. Send applications to:

**James Stuart
Chairman, Search Committee
Department of Biological Sciences
Murray State University
Murray, Ky. 42071**

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

NEUROBIOLOGIST

Applications invited for two fully funded, tenure-track faculty positions, currently available in a newly organized interdisciplinary Neurobiology Program in the Department of Anatomy. Preference given to neurobiologists whose research interests concern aspects of neurodevelopment or cytochemistry and with some prior training in anatomical sciences. Support available for individuals at assistant or associate professor level. Applicants should have Ph.D. and/or M.D. degree and some postdoctoral training with evidence of research productivity. Successful candidates expected to establish a strong independent research program meritorious of extramural support within a few years and teach at undergraduate and graduate levels. Department responsible for courses in neuroscience histology, and gross anatomy to undergraduate allied health students and medical students. Send curriculum vitae and brief description of research interests, teaching experience, and career objectives with names of three references by 30 November 1979 to: **Dr. Rodney Parsons, Department of Anatomy, University of Vermont College of Medicine, Burlington, Vermont 05405.**

An Affirmative Action Employer

POSITIONS OPEN

MYCOLOGIST

The University of California, Berkeley, Department of Botany, invites applications for a tenure-track assistant professor position (pending final budgetary approval), beginning with the 1980-1981 academic year. The research interests of the candidate should be in mycology, utilizing experimental approaches, and a broad base in mycology is essential. Teaching at undergraduate and graduate levels is anticipated, including a contribution to general biology or botany.

Applicants should send curriculum vitae, statement of research and teaching objectives, the names of three references, and relevant reprints and manuscripts to: **Robert Ornduff, Mycologist Search Committee, Department of Botany, University of California, Berkeley, California 94720.** The closing date for receipt of applications will be 15 January 1980.

The University of California is an Affirmative Action Employer.

NEUROBIOLOGIST EMORY UNIVERSITY SCHOOL OF MEDICINE DEPARTMENT OF ANATOMY

Applications are invited for a position as assistant or associate professor of anatomy, depending upon qualifications and experience. Applicants should have at least 2 years of postdoctoral research training and experience in teaching neuroanatomy at both the professional and graduate student levels. Candidates must have an active research program that can be broadly categorized as cell biology of brain, neuroendocrinology, or developmental neurobiology. Deadline for receipt of applications is 1 December 1979. Send curriculum vitae, names of four referees, and description of current research interests to: **Dr. Jerome Sutin, Chairman, Department of Anatomy, Emory University School of Medicine, Atlanta, Georgia 30322.**

Emory University is an Equal Opportunity/Affirmative Action Employer.

NEUROPHARMACOLOGY FELLOWSHIP available November 1979 studying central regulation of blood pressure and also the role of dopamine in basal ganglia control of movement. Experimental approaches use GC-MS with stable isotopes and also use the indwelling electrochemical detector. Salary: \$13,000. Ph.D. or M.D. with research experience. Contact: **Curt R. Freed, M.D., Division of Clinical Pharmacology, Box C 237, University of Colorado Health Sciences Center, 4200 East Ninth Avenue, Denver, Colo. 80262. Telephone: 303-394-8455.**

Equal Opportunity/Affirmative Action Employer

NEUROPHYSIOLOGIST DEPARTMENT OF PHYSIOLOGY UNIVERSITY OF ALABAMA MEDICAL CENTER

A tenure or tenure-track position at the assistant or associate professor level is available to applicants in any area of neurophysiology. Liberal start-up money and salary are available. The successful applicant will be expected to participate in the teaching of medical and dental students, to train graduate students, and to develop an independent research program. The position requires a doctoral degree and postdoctoral training. Send curriculum vitae, a summary of future research plans, and names of three references by 1 December 1979 to:

**Professor J. D. Neill
Department of Physiology and Biophysics
University of Alabama Medical Center
Birmingham, Alabama 35294**

The University of Alabama in Birmingham is an Equal Opportunity/Affirmative Action Employer.

NEUROPHYSIOLOGIST-PSYCHOBIOLOGIST

The University of California, Irvine, Department of Physical Medicine and Rehabilitation, is seeking a neurophysiologist-psychobiologist with expertise in experimental design in biomedical research to coordinate a laboratory which is primarily concerned with experimental studies on the etiology and treatment of back pain. The candidate should have experience in neurophysiology of spinal reflexes and reflex plasticity. Some knowledge of computer programming and statistics would also be required. Position available immediately. *All qualified candidates welcomed to apply. Minorities and women encouraged to apply.* Submit curriculum vitae, names of three references, and list of publications to: **Jerome S. Tobis, M.D., Chair, Department of Physical Medicine and Rehabilitation, University of California, Irvine, Irvine, California 92717.**

POSITIONS OPEN

PHARMACOLOGY

A faculty position is available in the Department of Pharmacology at the assistant professor level. The applicant should have 1 to 2 years of postdoctoral experience and have the expertise to establish and carry out an independent research program in the general area of cardiovascular pharmacology. Other duties include participation in teaching pharmacology to undergraduate pharmacy students and advanced pharmacology courses to graduate students. Please submit an application letter with career goals, curriculum vitae, and the names of three references to:

Dr. George J. Grega
Acting Chairman
Department of Pharmacology
University of Houston
Houston, Texas 77004

An Equal Opportunity Employer

DEPARTMENT OF PHARMACOLOGY SCHOOL OF MEDICINE ST. LOUIS UNIVERSITY MEDICAL CENTER

Applications are invited for two faculty positions at the assistant or associate professor level in the Department of Pharmacology, St. Louis University School of Medicine. Candidates should be dedicated to independent research and will be expected to develop externally fundable research programs. Applicants should be enthusiastic teachers and are expected to participate in graduate and medical school teaching programs in the department. Nominations or curriculum vitae, selected reprints, statement of teaching and research goals, and the names of three references should be sent to:

Dr. Thomas C. Westfall
Department of Pharmacology
St. Louis University School of Medicine
3556 Caroline Street
St. Louis, Mo. 63104

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

PHARMACOLOGIST

Ph.D. level individual with strong background in general pharmacology to conduct bioavailability and pharmacokinetic studies with contraceptive drugs. Experience in radioimmunoassay and radiotracer studies is highly desirable. For more information, telephone Dr. R. Naqvi.

Curriculum vitae, together with salary history and requirements, should be sent to:

Personnel Manager
EG&G Mason Research Institute
57 Union Street
Worcester, Mass. 01608
An Equal Opportunity Employer

PHYSIOLOGIST

Qualified physiologist to teach all phases of physiology including laboratory. Require M.S. and/or Ph.D. Salary and benefits negotiable. Send résumé and two letters of recommendation to: **Personnel, Los Angeles College of Chiropractic, Box 1479, Glendale, Calif. 91209.** Deadline: 15 November 1979. *An Equal Opportunity Employer.*

PHYSIOLOGIST. Tenure-track position. Ph.D. required, teaching experience preferred. Teach general physiology, human anatomy and physiology, and plant physiology; share responsibilities in introductory biology courses. Rank dependent on experience. Salary is competitive. Send curriculum vitae by 31 January 1980 to: **D. G. Dillery, Department of Biology, Albion College, Albion, Mich. 49224.**

POSTDOCTORAL POSITION available for summer or fall 1980 for research on gene organization and expression in embryonic and adult cells using recombinant DNA techniques. Experience working with RNA and DNA preferred. Send curriculum vitae and names of references to: **Dr. Charles P. Ordahl, Temple University School of Medicine, Philadelphia, Pa. 19140.** *Equal Opportunity/Affirmative Action Employer.*

POSTDOCTORAL—Biochemistry/Chemistry. Studies of the properties of a lumazine protein [PNAS 76, 3068 (1979)] and its function in bioluminescence. Experience in enzymology, protein chemistry, and spectroscopy desirable; \$11,000 per year, renewable. **Dr. John Lee, Department of Biochemistry, University of Georgia, Athens, Georgia 30602.** *Equal Opportunity/Affirmative Action Employer.*

POSITIONS OPEN

PLANT BIOLOGIST. Washington University announces an appointment in the area of plant population biology, stressing plant physiological ecology. Applications are solicited from individuals who have demonstrated exceptional competence in research beyond the doctorate and are interested in undergraduate and graduate teaching. Although it is anticipated that most applicants will be at a junior level, applications from senior individuals will be welcomed. Send curriculum vitae, description of present and future research interests, selected publications, and names of three references to: **Dr. Walter H. Lewis, Department of Biology, Washington University, St. Louis, Mo. 63130.** Deadline for applications 15 December 1979. *An Equal Opportunity/Affirmative Action Employer*

POSTDOCTORAL ASSOCIATE, environmental engineer or microbiologist. Study microbial dynamics in water treatment plants, mains, and activated carbon. Driver's license necessary; extensive fieldwork. Should be familiar with microbial methods and water treatment. Start immediately; 2 years contingent on funds. Salary commensurate with qualifications. Send resume, three letters of recommendation, and list of courses to: **Dr. C. N. Haas, Assistant Professor of Environmental Engineering, Rensselaer Polytechnic Institute, Troy N.Y. 12181; telephone: 518-270-6381.** *Equal Opportunity/Affirmative Action Employer*

POSTDOCTORAL BOTANIST with tropical experience required for 2 years, one at the Arnold Arboretum and one in the field: to write a field manual of tree Moraceae (notably *Artocarpus*) for the Sarawak, East Malaysia, Forest Department; research their silvicultural ecology, breeding systems, and propagation; and introduce to cultivation. Apply with résumé and three references by 1 December 1979 to: **Professor Peter S. Ashton, The Arnold Arboretum of Harvard University, 22 Divinity Avenue, Cambridge, Mass. 02138.** *Affirmative Action/Equal Opportunity Employer*

POSTDOCTORAL POSITION available to Ph.D. for research in psychophysical studies of humans with retina and optic nerve disease. Opportunities available to do clinical research in glaucoma and neurophthalmology using measurements of contrast sensitivity and automated testing of visual fields. A strong background in visual psychophysics and an interest in its application to clinical problems are essential. Salary: \$10,000 to \$12,000, plus fringe benefits. Send curriculum vitae to: **Samuel Sokol, Ph.D., Department of Ophthalmology, Tufts-New England Medical Center, 171 Harrison Avenue, Boston, Mass. 02111.** *Equal Opportunity Employer, M/F. U.S. citizen or permanent resident.*

POSTDOCTORAL POSITION available 19 December 1979 or anytime thereafter for either recent Ph.D. or candidate about to receive Ph.D. in biochemistry or related area with training and interest in enzymology and protein fractionation to isolate and characterize various glycosidic enzymes so that they may be used to modify the red cell surface. Starting salary: \$16,500. Send résumé to: **Dr. Jack Goldstein, Lindsley F. Kimball Institute, New York Blood Center, 310 East 67 Street, New York, N.Y. 10021.** *An Equal Opportunity Employer.*

POSTDOCTORAL POSITION available early 1980 to study protein-nucleic acid interactions in chromatin and alteration of these interactions by chemical carcinogens. Two years, approximately \$14,500 per year. Excellent research facilities and extensive seminar programs. Send curriculum vitae and letters of reference to: **J. P. Whitlock, Jr., Department of Pharmacology, Stanford University School of Medicine, Stanford, Calif. 94305.**

POSTDOCTORAL POSITION available immediately for research and training in the molecular biology of defective interfering particles of animal viruses and their role in the virus persistence. First-year stipend: \$12,000 and benefits. Send résumé and three letters of recommendation to: **Dr. Jacques Perrault, Department of Microbiology and Immunology, Washington University School of Medicine, Box 8093, St. Louis, Missouri 63110.** *Equal Opportunity/Affirmative Action Employer, M/F/H.*

POSTDOCTORAL POSITION available immediately. Structure-function studies on thyroglobulin, thyroid hormone biosynthesis. Background in protein purification and/or amino acid sequence determination desirable. Write to: **Dr. Allen Rawitch, Department of Biochemistry, University of Kansas Medical Center, Kansas City, Kansas 66103.** *Affirmative Action/Equal Opportunity Employer.*

POSITIONS OPEN

POSTDOCTORAL POSITION. Study of active sites and mechanism of action of acetylcholinesterase and receptor. Effects of structure of substrates and reversible and irreversible inhibitors on kinetics of hydrolysis and inhibition. Active site labelling. Synthesis of substrates and active site directed inhibitors and labeling reagents. Résumé and recommendations to: **Professor Saul G. Cohen, Department of Chemistry, Brandeis University, Waltham, Mass. 02254.** *Equal Opportunity/Affirmative Action Employer.*

POSTDOCTORAL POSITION available now for studies on the biochemistry and pathophysiology of intestinal mucin glycoproteins. Applicants should have a strong background in biochemistry and biophysics of macromolecules, and be experienced in protein purification methods and analytic techniques. Send résumé and three letters of reference to: **J. T. LaMont, M.D., Division of Gastroenterology, Peter Bent Brigham Hospital, Boston, Mass. 02115.**

POSTDOCTORAL POSITION IN BIOPHYSICAL CHEMISTRY. Electrophoretic light scattering studies on chromatin and DNA systems. Applicants should have experience with dynamic light scattering methods and/or chromatin and DNA systems. Starting salary: \$12,000 to \$13,000 per year, depending on experience. Starting date: January 1980. Send inquiries, curriculum vitae, and two or more letters of recommendation by 15 November to: **Dr. Kenneth S. Schmitz, Department of Chemistry, University of Missouri-Kansas City, Kansas City, Mo. 64110.** *The University is an Equal Opportunity Employer.*

POSTDOCTORAL POSITION available immediately for research on biochemistry of membrane transport in plant cells. The position is for 1 year, with possible extension, at a salary of \$11,700 to \$12,900 per annum. Send curriculum vitae with names, addresses, and telephone numbers of two or three referees to: **Ronald Poole, Biology Department, McGill University, 1205 Avenue Docteur Penfield, Montreal, Quebec, Canada H3A 1B1**

POSTDOCTORAL POSITION: Available for 2-year period for work on metastasis. Salary: \$13,000. Please send curriculum vitae and three letters of recommendation to: **Dr. Leonard Weiss, Department of Experimental Pathology, Rosewell Park Memorial Institute, Buffalo, New York 14263.** *An Equal Opportunity Employer, M/F.*

POSTDOCTORAL POSITION. Biochemist and/or cardiovascular physiologist who seeks experience in the field of subcellular function of the acutely failing myocardium. Project includes evaluation of primary ischemic injury, reperfusion injury, and preservation of the ischemic myocardium. Positions available immediately, 1 December, and 1 July. Salary: \$14,000. Send curriculum vitae and names of three references to: **Dr. Michael L. Hess, Division of Cardiology, Department of Medicine, Box 281, Medical College of Virginia, Richmond, Va. 23298.** *Affirmative Action/Equal Opportunity Employer.*

POSTDOCTORAL POSITIONS available starting January 1980 with Dr. K. I. Berns, Dr. P. L. Laipis, or Dr. W. W. Hauswirth to study the molecular biology of animal virus DNA or mammalian mitochondrial DNA. Experience in recombinant DNA cloning and DNA sequencing is desirable but not necessary. Send curriculum vitae, a brief summary of past research, and names of references to: **Box J-266, JHMH, University of Florida, Gainesville, Florida 32610.** *Equal Opportunity/Affirmative Action Employer*

POSTDOCTORAL RESEARCH ASSOCIATE position available 1 July 1980 for studies on adaptive changes in plasma membrane glycoproteins or phospholipids in relation to membrane functions. Send inquiries, curriculum vitae, and references to: **Dr. Jay Tepperman, Department of Pharmacology, State University of New York, Upstate Medical Center, Syracuse, N.Y. 13210.** *An Equal Opportunity/Affirmative Action Employer.*

Recruiting POSTDOCTORAL/RESEARCH ASSOCIATE IN TUMOR IMMUNOLOGY. Ph.D. in cellular immunology with or without postdoctoral training to study the immunological aspects of murine tumor metastasis. Position available immediately. United States citizenship required. Contact: **T. J. Yoo, M.D., Department of Medicine, University of Iowa, Iowa City, 52240.** Telephone: 319-338-0581, extension 507.

POSITIONS OPEN

POSTDOCTORAL—BIOCHEMICAL PARASITOLOGY. Position available 1 January 1980 for an individual interested in biochemical interactions between parasites and hosts. Model system is a mermithid nematode in larval stages of mosquitoes with studies on changes in biochemical composition of host hemolymph. Experience in biochemistry, entomology, and/or parasitology desirable. Salary: \$13,500 per year. Send curriculum vitae and names of three references to: **Dr. E. G. Platzter, Department of Nematology, University of California, Riverside, Calif. 92521.** The University of California is an Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL—RESEARCH ASSOCIATE POSITIONS

Available now to work in the areas of: (i) mechanisms of regulation of lipoprotein lipase; and (ii) plasma lipoprotein degradation and interaction with cells in culture. Ph.D. in biochemist, molecular biology or cell biology preferred. Salary negotiable. Send résumé and names of three references to: **Dr. Andre Bensadoun, Division of Biological Sciences and Nutritional Biochemistry, 242 Savage Hall, Cornell University, Ithaca, New York 14853.**

Cornell University is an Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL RESEARCH ASSOCIATE OR SPECIALIST. Wanted: organic chemist at post-doctoral level or beyond, to join a team working on the HF-saccharification of waste cellulose, to determine chemical feasibility and scale-up possibilities. Salary commensurate with experience (\$12,000 to \$18,000). Position available immediately. Please send résumé to: **Professor Derek T. A. Lampert, Michigan State University—Department of Energy Plant Research Laboratory, Michigan State University, East Lansing, Mich. 48824; telephone: 517-353-7874.**

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

POSTDOCTORAL RESEARCH ASSOCIATE OR FELLOW. Position available immediately for Ph.D. biochemist or biologist. Research on hormonal control of transport and metabolism in cultured liver cells; \$13,000 to \$16,000 per year, depending on experience. Send curriculum vitae and names of two referees to: **Dr. N. Kalant, Lady Davis Institute for Medical Research, 3755 Cote St. Catherine Road, Montreal, Quebec, Canada H3T 1E2.**

The University of California at Davis invites applicants for the position of **PROFESSOR AND CHAIR**, Department of Internal Medicine. Applicants should have distinguished records in investigation, teaching, clinical service, and should have proven ability and experience in administration. Must be able to provide leadership for a large and diverse faculty of ten sections operating in a university hospital with VA and community hospital affiliations. Individuals should be licensable in California. Applications will be received until position is filled. Send curriculum vitae and bibliography, plus names of at least four references, to: **Hamilton S. Davis, M.D., Chair, Search Committee, c/o Department of Anesthesiology, TB 170, University of California, Davis, Calif. 95616.** An Equal Opportunity/Affirmative Action Employer.

DEPARTMENT OF ANESTHESIOLOGY WASHINGTON UNIVERSITY SCHOOL OF MEDICINE (BARNES HOSPITAL, ST. LOUIS)

Searching for **PROFESSOR AND HEAD** of Department of Anesthesiology at Washington University School of Medicine and **ANESTHESIOLOGIST-IN-CHIEF** at Barnes Hospital. Research accomplishments particularly important. Submit curriculum vitae with complete bibliography to:

**M. K. King, Dean
Washington University School of Medicine
Box 8106
660 South Euclid Avenue
St. Louis, Missouri 63110**

PROTEIN CHEMIST. Position involves preparation, isolation, purification, and characterization of proteins and other biomolecules labeled with tritium. Experience in handling radioactive materials and/or organic synthesis is desirable. Base salary: \$14,500. Ability to participate in grant and laboratory management would result in upgrading position and salary to that of a research scientist. Send detailed curriculum vitae, publication list, and three references to: **Dr. J. C. Powers, School of Chemistry, Georgia Institute of Technology, Atlanta, Ga. 30332.**

POSITIONS OPEN

RADIOPHARMACIST. Responsibility in patient care, teaching, and research. Ph.D. or equivalent and eligibility for pharmacist license in Connecticut. Active program with possibility of joint appointment at School of Pharmacy. Teaching activities involve residents in nuclear medicine and technologist trainees, plus interactions with medical, pharmacy, and graduate students. Contact: **Dr. Richard P. Spencer, Department of Nuclear Medicine, University of Connecticut Health Center, Farmington, Conn. 06032; telephone: 203-674-3120.** Equal Opportunity/Affirmative Action Employer.

The University of Alabama in Birmingham, Birmingham, Alabama, seeks a qualified individual for a part-time faculty position of **RESEARCH ASSISTANT PROFESSOR.** The successful candidate will have a Ph.D. and at least 3 years of postdoctoral experience in biochemical and morphologic study of heart muscle tissue. Experience with tissue culture, DNA metabolism, and electron microscopy is desirable. Duties will include research in currently supported studies related to control of heart muscle cell growth and function during normal growth and cardiac hypertrophy in various animal models. Applications must be postmarked by 1 November 1979 and addressed to: **Dr. Sanford P. Bishop, Department of Pathology, University Station, Birmingham, Alabama 35294.** The University of Alabama in Birmingham is an Affirmative Action/Equal Opportunity Employer.

RESEARCH ASSOCIATE POSITION available to study the mechanism for hormonal regulation of glutamine synthetase and amino acid metabolism in cultured 3T3 adipocytes. Ph.D. in biochemistry or related discipline required. Salary to \$20,000. Send curriculum vitae and three references to:

Dr. Richard E. Miller, Metabolism Section, Department of Medicine, Case Western Reserve University, Veterans Administration Hospital, 10701 East Boulevard, Cleveland, Ohio 44106.

The University of California, San Diego, School of Medicine, Office of Animal Resources, is accepting applications for a **VETERINARIAN/ASSISTANT PROFESSOR** to direct a diagnostic and investigational laboratory with emphasis on microbiology. The candidate will be expected to perform routine clinical duties and consult with investigators on research projects using animals. Qualifications: veterinarian with Ph.D. in immunology and demonstrated excellence in cellular and humoral immunity research. Salary: commensurate with experience. Submit curriculum vitae plus three reference letters to: **Dr. Jack E. Vanderlip, Office of Animal Resources, M-014, University of California, San Diego, La Jolla, Calif. 92093.** The University of California, San Diego, is an Affirmative Action Employer.

VISION RESEARCH

We anticipate having two tenure-track faculty positions available in September 1980, one at the senior level and one at the junior level. Qualifications for the senior position include an outstanding record of research accomplishment and scholarly activity and a proven ability to obtain outside research support. For the junior position, a minimum of 2 years of postdoctoral research experience is required.

Duties will include the development of an active research program in some area of vision science, directing graduate students in a new Ph.D. program in vision science, and possibly some teaching in the graduate program and the professional optometry program. We are looking for persons who have an interest in one or more areas of research which may include, but are not limited to, the following: spatial frequency analysis, ocular physiology, quantitative methods and experimental design, clinical research, neuro-ophthalmology, visual development, and electrophysiology. A large and varied out-patient clinic population is available.

Rank and salary are open, depending on qualifications and experience. Letters of application should be accompanied by curriculum vitae, a brief statement of research and teaching interests, and the names and addresses of at least three references. Application deadline is 15 January 1980. Send materials to:

**Professor Leonard Werner, Chairman
Vision Science Search Committee
State College of Optometry
State University of New York
100 East 24 Street
New York, New York 10010**

Affirmative Action/Equal Opportunity Employer

POSITIONS OPEN

RESEARCH PHYSIOLOGIST

Position open 1 January 1980, at the California Primate Research Center. Ph.D. in physiology or closely related field required. The appointee will be expected to conduct experimental research in a speciality area of reproduction physiology and prenatal development of nonhuman primates. The acquisition of extramural research funding is essential. There will be opportunity for collaborating with other researchers within the University of California system. An adjunct appointment in an academic department will provide interaction with graduate and professional students. Level of appointment and salary dependent on qualifications. Send curriculum vitae, including bibliography and names of at least three references, to: **Director, California Primate Research Center, University of California, Davis, California 95616.** The position will remain open until filled. The University of California is an Equal Opportunity/Affirmative Action Employer.

RESEARCH POSTDOCTORAL IN BIOPHYSICS/BIOCHEMISTRY. Available immediately for studies of sickle hemoglobin aggregation mechanisms and roles of erythrocyte membrane proteins in sickling. Work will include use of recently developed magnetic resonance techniques (saturation transfer EPR, cross-polarization NMR) to characterize molecular dynamics. Project details adaptable to interests and background of the associate. Please send curriculum vitae and three letters of recommendation to: **Dr. Michael Johnson, Medicinal Chemistry Department, 545 Pharmacy, University of Illinois/Medical Center, Box 6998, Chicago, Illinois 60680.** An Equal Opportunity/Affirmative Action Employer.

SEDIMENTOLOGIST/STRATIGRAPHER, assistant or associate professor of geology, tenure-leading, August 1980. Requires Ph.D. plus demonstrated research abilities. Salary: minimum \$15,000. Duties include teaching sedimentology, lithostratigraphy, and introductory courses. Direct graduate research. Preference will be given to applicants in the field of terrigenous clastic sedimentology who will be able to interact with current faculty in clastics, paleontology, and groundwater geology. Apply by 15 January with résumé, transcripts, and names of three references to: **Chairman, Department of Geology, 433 Morrill Hall, The University of Nebraska—Lincoln, Lincoln, Nebraska 68588.** You may also secure additional information about position from this address or by telephoning 402-472-2663. Affirmative Action/Equal Opportunity Employer.

SENIOR RESEARCH ASSISTANT. B.S. in chemistry/biology; specialized investigation of the mode of action of vitamin K in promoting synthesis of coagulation proteins. Specifically working with the aid of radioactive isotopes in the study of intermediates of vitamin K occurring during carboxylation reaction. Forty hours per week; salary: \$14,000 per year. Send résumé to: **St. Louis University Medical Center, Personnel Services, 3556 Caroline Street, St. Louis, Missouri 63104.** Equal Opportunity/Affirmative Action Employer, M/F/H.

The Scripps Institution of Oceanography Ocean Research Division (ORD) has an opening for a **SPECIALIST (INORGANIC CHEMIST)** with at least 10 years of experience in ion and carbon gravimetric and manometric techniques requiring high manipulative skills. Ability to prepare results for publication in professional chemical journals. Minimum education: M.S. in chemistry or a related discipline. Annual salary: \$25,356. Send résumés and references to: **Chairman, ORD, A020, Scripps Institution of Oceanography, La Jolla, Calif. 92093.** University of California, San Diego, is an Equal Opportunity/Affirmative Action Employer.

STAFF TOXICOLOGIST

A staff toxicologist to assist director of toxicology in the design, monitoring, and evaluation of research programs conducted at contract laboratories, in giving administrative support and technical guidance to scientific committees, and in communicating research and regulatory developments.

Applicants should possess a master's or Ph.D. degree in toxicology or closely related science with strong communication and interpersonal skills and interests.

Laboratory experience in the design, conduct, and interpretation of mammalian toxicity, safety evaluation, or pharmacological studies would be helpful in carrying out research program responsibilities.

Box 299, SCIENCE

PLANT BIOLOGIST

The Upjohn Company currently has an opening available for a Ph.D. in molecular biology, plant physiology, or plant genetics to recommend and implement a long-range basic research program in plant physiological genetics as it relates to vegetable and agronomic seed businesses. Successful candidates must have a demonstrated commitment to plant biology research, knowledge and experience in recombinant DNA research, an awareness of the current status of plant cell and tissue culture research, and knowledge of basic plant genetics. Attractive salaries and excellent comprehensive benefits. Kalamazoo is a medium-sized, Southwestern Michigan community with local colleges, a moderate cost of living, an attractive housing market, progressive school systems and easy access to a good mix of cultural-recreational options. Send resume in confidence to:

Upjohn

Kent S. Morgan
The Upjohn Company
7171 Portage Road
Kalamazoo, MI 49001

An Equal Opportunity Employer M/F



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of Canada

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du Canada

VISITING FELLOWSHIPS in CANADIAN GOVERNMENT LABORATORIES

The Government of Canada offers fellowships for 1980-1981 on behalf of the following Canadian Government Departments and Agencies: Agriculture Canada; Department of Communications—Communications Research Centre; Department of National Defence; Energy, Mines and Resources Canada; Environment Canada—Atmospheric Environment Service; Environmental Management Service—Canadian Forestry Service; Inland Waters Directorate, Lands Directorate; Environmental Protection Service—Air Pollution Control Directorate; Department of Fisheries and Oceans—Fisheries Atlantic, Fisheries Pacific and Freshwater, Ocean and Aquatic Sciences; Health and Welfare Canada—Health Protection Branch; National Museums of Canada—Museum of Natural Sciences; National Research Council Canada; and Atomic Energy of Canada Limited.

Fellowships have an annual value of \$16,777 and are subject to Canadian income tax. The initial appointment will be for 1 year with a possibility of renewal for a second year in some departments. An allowance will be provided toward the cost of travel.

An applicant should hold a doctorate degree from a recognized university or a master's degree plus experience in conducting successful independent research. There are no restrictions limiting the nationality of applicants; however, successful candidates who are not Canadian citizens or Landed Immigrants residing in Canada must satisfy all of the Canadian immigration requirements before commencing tenure of the fellowship. Please note that the Department of National Defence can only consider applications received from Canadian citizens.

Applicants must not have reached their 36th birthday at the time of application, that is, 15 January 1980.

For further information, please write to: **Scholarships Officer, Natural Sciences and Engineering Research Council Canada, Montreal Road, Ottawa, Ontario, Canada K1A 0R6.**

Applications must be received in Ottawa by 15 January 1980 to be considered in the 1980-1981 competition.

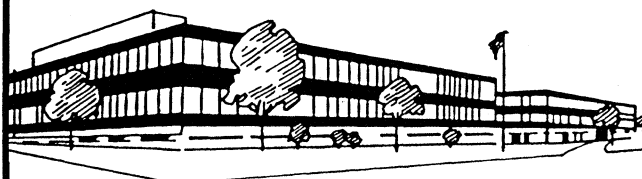
Neurochemist

Candidates should have a Ph.D. in biochemistry or pharmacology plus 3-5 years of postdoctoral experience in neurochemistry. Familiarity with standard neurochemical techniques including a strong background in receptor assays is required. Some industrial experience is desirable.

Primary responsibility will be to direct the operation of the Neurochemistry Laboratory including the supervision of 3-4 technicians.

This opportunity is available with Wyeth Laboratories, a leading pharmaceutical firm located in suburban Philadelphia. We are offering a competitive salary along with a comprehensive benefits plan. If you have an interest and are qualified for this position, please submit your curriculum vitae and salary requirements to:

John W. Pinkerton
PERSONNEL DEPARTMENT



WYETH LABORATORIES, INC.
P.O. Box 8299, Philadelphia, Pa. 19101

Equal Opportunity Employer, M/F/H

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☐ \$110 Air-surface delivery via Holland

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State

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POSITIONS OPEN

SENIOR TOXICOLOGIST

An exceptionally challenging opportunity for involvement in research and the planning, conduct, and interpretation of toxicity studies. The development of an active individual research program in an area of interest to CIIT and publication of research results is regarded as essential. In addition, close interaction is expected with staff scientists and postdoctoral fellows working in various disciplines related to toxicology. The senior toxicologist will also help to coordinate and monitor extramural contract research and testing programs. He or she should have Ph.D., D.V.M., or M.D. degree with five or more years of research and testing experience.

Send complete curriculum vitae to:

Administrative Manager
Chemical Industry Institute of Toxicology
P.O. Box 12137
Research Triangle Park, N.C. 27709

An Equal Opportunity/Affirmative Action Employer

The Center for Reproductive Sciences of the International Institute for Study of Human Reproduction invites applications for a position as **STAFF ASSOCIATE** in the Electron Microscopy Core involving collaboration of several investigators studying a variety of reproductive tissues. Will be responsible for operation and maintenance of a JEM 100C and a JSM-U3, preparative techniques, and photographic work. M.S. and minimum of 1 year of experience is required. Salary commensurate with credentials. Applications should include names of three references and be addressed to: **Georgiana Jagiello, M.D., Director, Center for Reproductive Sciences, College of Physicians and Surgeons of Columbia University, 630 West 168 Street, New York, N.Y. 10032.** An Equal Opportunity/Affirmative Action Employer.

COURSES

MOLECULAR ENDOCRINOLOGY AND TECHNIQUES FOR HORMONE ACTION 31 March to 4 April 1980

The course will consist of lectures in methodology with a comprehensive syllabus covering receptors, gene transcription, messenger RNA and protein synthesis, recombinant DNA, protein hormones and cyclic nucleotides.

Co-directors: W. T. Schrader and B. W. O'Malley.

Fee: \$195/\$145 (fellows). For further information contact: **Barbara Gordin, Department of Cell Biology, BAYLOR COLLEGE OF MEDICINE, Houston, Texas 77030.**

Deadline: 1 February 1980.

TRAINING PROGRAM

The Massachusetts Eye and Ear Infirmary has immediate openings in its **Training Grant Program for Ophthalmic Research and Teaching**. Postdoctoral research opportunities exist in biochemistry (lens and cataract, cornea, glaucoma, vitreous, and retina); biophysics of light scattering (cornea, cataract); pathology and anatomy, immunology, embryology, electrophysiology, and genetics. A 2-year commitment and a "payback" agreement are required by NIH. Funds are available for salary, medical insurance, supplies, and travel. Send curriculum vitae to: **Leo T. Chylack, Jr., M.D., Director, Research Training, Massachusetts Eye and Ear Infirmary, 243 Charles Street, Boston, Mass. 02114.**

ASSISTANTSHIPS

PREDOCTORAL ASSISTANTSHIPS IN ANATOMY

Qualified students are invited to apply for graduate study leading to the Ph.D. degree in anatomy with specialization in cell biology, neurobiology, developmental biology, or functional morphology. Stipends are available as teaching assistantships and tuition waivers. For application forms and further information write to: **Chairperson, Graduate Studies Committee, Department of Anatomy, University of Illinois at the Medical Center, Box 6998, Chicago, Illinois 60680.**

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FELLOWSHIPS

POSTDOCTORAL POSITIONS

The Graduate Program in Craniofacial Biology of the University of Southern California announces the availability of five **POSTDOCTORAL FELLOWSHIPS**. The members of the group are: Samuel Alerton, Isaac Bekhor, Anna Brownell, Paul Denny, Michael Melnick, Barbara Mills, Cedric Minkin, Gregory Mosser, Steven Schonfeld, Michael Schneir, Harold Slavkin, Nino Sorgente, John Weiner, and Margarita Zeichner-David. These are 3-year appointments; the salary range is from \$10,000 to \$14,000, dependent upon previous experience. Applicants should submit curriculum vitae, a brief synopsis of their Ph.D. research (physicians and dentists should send résumés of their research experience), and at least three letters of recommendation. Candidates should indicate the faculty member(s) with whom they would wish to work if a fellowship is awarded.

Application materials should be sent to: **Dr. Harold C. Slavkin, Program Director, Graduate Program in Craniofacial Biology, Gerontology Center Room 317, University of Southern California, Los Angeles, California 90007.**

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POSTDOCTORAL FELLOWSHIPS IN NEUROBIOLOGY—The Neurobiology Program, an interdepartmental grouping of faculty offering graduate and postdoctoral training in the neurosciences, has three postdoctoral training positions available immediately. These traineeships, supported by an NIH grant, are currently available for persons holding a Ph.D., M.D., or equivalent degree. Priority will be given to applicants with expressed interest in: (i) injury and regeneration of the nervous system; (ii) peptides active in the central nervous system; or (iii) metabolism and structure of synaptic junctions. Each of these research areas has attracted the efforts of a number of faculty members at this institution so that appropriate advanced level multidisciplinary research training may be provided. Please contact: **Director, Neurobiology Program, 59 Medical Research Building-206H, University of North Carolina, Chapel Hill, N.C. 27514.**

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Herbert H. Jasper Postdoctoral Fellowship. One-year, with stipend of C\$20,000. Exceptional research facilities, working with investigator of choice. Submit curriculum vitae, research interests at maximum of three pages, and two letters of reference before 28 February 1980 to: **Fellowship Committee, Centre de recherche en sciences neurologiques, Faculté de médecine, Université de Montréal, C.P. 6208, Montréal, Québec, Canada H3C 3T8.** Fellowship award to be announced 15 April 1980.

GYNECOLOGIC ONCOLOGY RESEARCH FELLOWSHIP

Opening available 1 July 1980 for Ph.D. or M.D. for a postdoctoral fellowship with emphasis on tumor immunology. Applications, consisting of a statement of research interests, curriculum vitae, and three references should be sent to: **James R. Scott, M.D., Professor and Chairman, Department of Obstetrics and Gynecology, University of Utah Medical Center, Salt Lake City, Utah 84132.** Deadline for applications: 15 November 1979. An Equal Opportunity Employer.

POSTDOCTORAL FELLOWSHIP IN MEDICAL PHYSICS

The Department of Medical Physics of the Memorial Sloan-Kettering Cancer Center (MSKCC) invites applications for a postdoctoral training fellowship in medical radiological physics. This fellowship is of 2-year duration and is available immediately.

The purpose of this program is to provide qualified experimental physicists with "on the job" training—unique to a few hospitals and which cannot be obtained in university courses—in the use of radiation for diagnostic and therapeutic purposes. This will qualify them for professional responsibilities in hospitals, in response to a demonstrated need for medical radiation physicists capable of high standards of performance.

To apply, send curriculum vitae and list of publications to: **Gian D. Ragazzoni, Fellowship Program Coordinator, Department of Medical Physics, Memorial Sloan-Kettering Cancer Center, 1275 York Avenue, New York, New York 10021.** Memorial-MSKCC is an Equal Opportunity/Affirmative Action Institution.

TRAINEESHIPS

TRAINING IN METABOLISM. PREDOCTORAL AND POSTDOCTORAL TRAINEESHIPS are available in July 1980 and 1981 in an NIH supported program. Trainees participate in courses, seminars, and collaborative research under joint supervision of faculty of the Departments of Biochemistry, Medicine, Pediatrics, and Pharmacology of Case Western Reserve University, School of Medicine. The program is designed for the Ph.D. or would-be Ph.D. desiring a foundation in clinical investigation while developing his or her basic science capabilities and for M.D.'s to obtain expertise in basic science. Ph.D. candidates must fulfill the requirements of the basic science departments for awarding the degree. Trainees must be U.S. citizens or permanent residents. For detailed information write to: **Dr. Merton F. Uter, Program Director, Department of Biochemistry, Case Western Reserve University, School of Medicine, Cleveland, Ohio 44106.**

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Send nominations and applications by 1 December 1979, to: Professor Marguerite Warren, Chair, Search Committee (VP/Dean), c/o Office for Research (AD218), The University at Albany, 1400 Washington Avenue, Albany, New York 12222.

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