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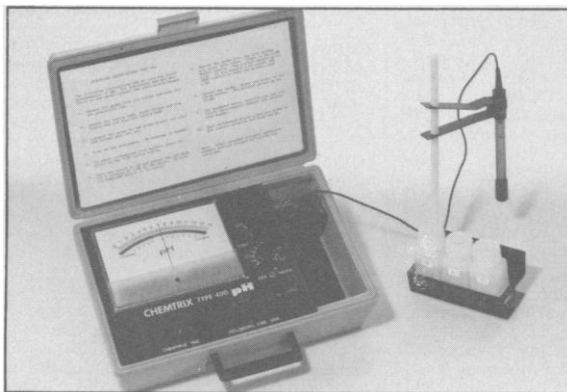
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POSITIONS WANTED

Animal Behaviorist. Ph.D. University of Chicago, 1976. Research experience on exotic birds in zoological park. Publications. Teaching experience. Seeks research or teaching position in zoo, academia, or other. Box 240, SCIENCE. 7/28; 8/4

Biologist/Microbiologist: Ph.D. 1978. Seeking research position in biology/microbiology/pharmaceuticals in university/college/drug research laboratory or industry. Twelve years of research experience. Box 253, SCIENCE. X

Cell/Developmental Biologist: Ph.D. 1975. Seeking teaching position at 2- or 4-year college on West Coast. Experienced in lecture and laboratory courses in cell, developmental, general biology, and biochemistry. Temporary position acceptable. Box 255, SCIENCE. X

Curator/Director—Zoo/Museum. Ph.D. zoology; 6 years of experience as curator of major zoo. Seeking zoo, museum, or conservation position in administration/staff. Box 243, SCIENCE. X

Immunologist/Cell Biologist. Ph.D. in microbiology. Experienced researcher in clinical and experimental tumor immunology, animal and human tissue culture cells, and cancer research. Box 252, SCIENCE. 7/28; 8/4, 11

Planetary Scientist. Ph.D. due fall 1978. Interested in postdoctoral or other position; willing to travel. Publications in atmospheric science and celestial mechanics; experience in teaching. Write: A. R. Dobrovolskis, c/o Geology and Planetary Science, California Institute of Technology, Pasadena, California 91125. X

Senior Research Technician. M.S. Research background in cell culture, animal surgery, transmission and scanning EM, freeze-fracture, autoradiography, morphometry, radioassay, chromatography, and electrophoresis. Electronics design and repair background. Pragmatic experience in building and organization of laboratories. Publications and grants. Interested in laboratory or creative/academic position, preferably in Northwest or Mountain States region. Box 254, SCIENCE. X

POSITIONS OPEN

ANIMAL BEHAVIORIST—Applications are invited for a faculty position in animal behavior beginning no later than 1 January 1979, to teach undergraduate and graduate courses in animal behavior and to conduct research that links animal behavior and ecology. Ph.D. required. Salary at assistant professor level depending on qualifications. Send curriculum vitae, transcripts, and three letters of reference to: **Robert E. Chambers, State University of New York, College of Environmental Science and Forestry, Syracuse, N.Y. 13210**, no later than 1 October. *Affirmative Action/Equal Opportunity Employer.*

Coastal and Oceanographic Engineering Department at the University of Florida invites applications for an **ASSISTANT PROFESSOR** position. Desired areas of expertise are ocean wave mechanics, wave spectra, and coastal zone dynamics. Ph.D. in related field required. Inquiries and résumés should be sent to: **Dr. D. Max Sheppard, Acting Chairman, Coastal and Oceanographic Engineering Department, University of Florida, Gainesville, Florida 32611.**

ASSISTANT PROFESSOR. The Department of Pharmacology is seeking a faculty member with training in neuropharmacology, cardiovascular pharmacology, toxicology, and endocrine pharmacology. The candidate is expected to develop a strong independent research program and participate in teaching medical and graduate students. Required: Ph.D. in pharmacology with postdoctoral and teaching experience. Send curriculum vitae and two letters of reference to: **Seymour Ehrenpreis, Ph.D., Chairman, Department of Pharmacology, University of Health Sciences/The Chicago Medical School, 2020 West Ogden Avenue, Chicago, Ill. 60612.** *Affirmative Action/Equal Opportunity Employer.*

ASSISTANT PROFESSOR. Immunochemist required for the Myeloma Study Program of the Department of Internal Medicine. Candidate must have considerable research experience in immunochemistry and must be able to support his or her salary and research expenses with own funded grants. The successful candidate is required to teach immunochemistry, pursue independent research, and act as consultant in immunochemistry to the Department of Internal Medicine. Please send detailed curriculum vitae, publication list, and the names of three referees to: **Dr. Frank F. Richards, Department of Internal Medicine, Yale University School of Medicine, 333 Cedar Street, New Haven, Connecticut 06510.** *Yale University is an Equal Opportunity/Affirmative Action Employer. Applications from women and minority groups are encouraged.*

UNIVERSITY OF CALIFORNIA, SAN DIEGO (UCSD). Position of **ASSISTANT PROFESSOR (or ASSISTANT PROFESSOR IN-RESIDENCE) OF BIOENGINEERING** available during 1979–1980 academic year. Position initially funded for 1 year with possibility of provision and appointment being extended and/or becoming permanent; all contingencies dependent on funding. Candidates must have background and training in engineering, a strong interest in mammalian physiology, and at least 2 years of postdoctoral research experience in experimental physiology. Salary commensurate with qualifications. Position carries responsibility of teaching physiology to undergraduate and/or graduate students and to assist in teaching of vascular physiology to medical students. Send curriculum vitae, brief statement of career objectives, and names of three references by 1 March 1979 to: **R. E. Roberson, Chair, Department of Applied Mechanics and Engineering Sciences (B-010), University of California, San Diego, La Jolla, California 92093.** *UCSD is an Equal Opportunity/Affirmative Action Employer.*

MICROBIAL ECOLOGIST

A position in microbial ecology with expertise in bacteria and/or algae is expected to be filled January 1979. Experience in quantitative and numerical analyses of microbial populations in soil or water is required. Responsibilities will include a course in microbial ecology, a course in an area of specialty, and the development of an active research program. Salary and rank are negotiable, but the position will probably be filled at the assistant professor level. Applications, including résumé, transcripts, and three letters of recommendation, must be received by 15 September 1978 and should be sent to: **Dr. Myron J. Mitchell, Department of Environmental and Forest Biology, State University of New York, College of Environmental Science and Forestry, Syracuse, N.Y. 13210.** *An Equal Opportunity/Affirmative Action Employer.*

POSITIONS OPEN

ASSISTANT PROFESSOR. Ph.D. in the field of analytical/environmental chemistry preferably with expertise in the area of trace organics in aquatic systems and soils. Duties include teaching, research, and collaboration with faculty and with other organizations involved with environmental problems. Send résumé, names and addresses of three references, and a critique of research interests and plans by 18 September to: **Dr. David L. Johnson, Department of Chemistry, State University of New York, College of Environmental Science and Forestry, Syracuse, N.Y. 13210.** Position expected to be available February 1979.

An Equal Opportunity/Affirmative Action Employer

ASSISTANT PROFESSOR: BIOCHEMISTRY. A faculty position available 1 January 1979 or sooner. Two to 3 years of postdoctoral experience preferred. Research in complex carbohydrates, glycoproteins, or related areas. A strong chemical base desired as well as teaching potential at the graduate and professional levels of health sciences. Applicants should submit résumé, statement regarding future research plans, and three letters of reference by 18 September 1978 to: **Search Committee, Department of Biochemistry, Medical College of Virginia, Virginia Commonwealth University, P.O. Box 727 MCV Station, Richmond, Va. 23298.** *Equal Opportunity/Affirmative Action Employer.*

ASSISTANT PROFESSOR OF PHYSIOLOGY. We seek a faculty member dedicated to excellence in both teaching and research in such areas as cellular, renal, cardiovascular, respiratory, reproductive, or endocrine (but not CNS) physiology. Ph.D. or M.D. required. Position available after 1 July 1978. Send résumé and three letters of reference by 1 September 1978 to: **Director, Department of Physiology, The Johns Hopkins University School of Medicine, Baltimore, Md. 21205.** *Equal Opportunity Employer, M/F*

PHYSIOLOGY UCR/UCLA PROGRAM IN BIOMEDICAL SCIENCES

The University of California, Riverside/University of California, Los Angeles, Program in Biomedical Sciences, which offers an accelerated M.D. curriculum jointly between the University of California, Riverside, and the UCLA School of Medicine, has a faculty opening in **PHYSIOLOGY** at the **ASSISTANT PROFESSOR** level. Teaching responsibilities will be in renal/gastrointestinal physiology for medical students. Applicants should have postdoctoral experience, be able to continue with or develop an independent research program, and be qualified for a joint appointment with the Biology Graduate Faculty. *The University of California is an Affirmative Action/Equal Opportunity Employer.* Applications, including a curriculum vitae and names of references, should be sent to:

**Dr. Kathryn A. Taubert, Chair
Physiology Search Committee
Program in Biomedical Sciences
University of California, Riverside
Riverside, California 92521**

CARDIOVASCULAR PHYSIOLOGIST. Division of Cardiothoracic Surgery, Long Island Jewish Hospital, New Hyde Park, N.Y., affiliated with State University of New York at Stony Brook, anticipates a position beginning January 1979 for a physiologist (M.D. or Ph.D.) to participate in a research program in the area of myocardial preservation, particularly myocardial metabolism under conditions analogous to those encountered clinically. Applicants may direct enquiries and send curriculum vitae to: **Dr. Daniel Weisz, Division of Cardiothoracic Surgery, Long Island Jewish-Hillside Medical Center, New Hyde Park, N.Y. 11040.**

CHAIRMAN, DEPARTMENT OF SOCIAL AND PREVENTIVE MEDICINE. The School of Medicine, State University of New York at Buffalo, is seeking candidates with an M.D. degree and proven capability, to maintain the department's current programs, and be responsible for expanded teaching and research in health care delivery. *The University is an Affirmative Action/Equal Opportunity Employer.* Applications should be sent to: **Peter F. Regan, M.D., Farber Hall, School of Medicine, State University of New York at Buffalo, Buffalo, N.Y. 14214.** Closing date: 1 October 1978.

POSITIONS OPEN

ASSISTANT RESEARCH ANATOMIST OR PATHOLOGIST—Ph.D. in anatomy or pathology to help determine and evaluate mechanisms of injury, adaptation, and repair of the respiratory systems from animals exposed to air pollutants. Will become a member of a large multidisciplinary team, but will have opportunity for development of individual research related to the respiratory system. Experience in TEM, SEM, and stereology desirable, but could train in one of these areas. Adjunct appointment in a Department of Anatomy or Pathology possible and would provide a well-qualified applicant with opportunities for teaching professional and graduate students. Send complete 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, but early application is encouraged. *The University of California is an Equal Opportunity/Affirmative Action Employer.*

ASSISTANT RESEARCH PULMONARY PHYSIOLOGIST—Ph.D. in physiology to help determine and evaluate mechanisms of injury, adaptation, and repair of the respiratory systems from animals exposed to air pollutants. Prefer candidates with research experience and publications in areas other than pulmonary mechanics. Particularly interested in candidates whose research involves pulmonary control and computer and mathematical modeling of respiratory function. Will become a member of a large multidisciplinary team, but will have opportunity for development of individual research related to the respiratory system. Adjunct appointment in a Department of Physiology possible and would provide a well-qualified applicant with opportunities for teaching professional and graduate students. Send complete curriculum vitae, including bibliography and names of at least three references, to: **Director, California Primate Research Center, University of California, Davis, Calif. 95616.** The position will remain open until filled, but early application is encouraged. *The University of California is an Equal Opportunity/Affirmative Action Employer.*

BASIC RESEARCH—Career opportunities for full-time investigators in fields relevant to arthritis, including immunopathology, molecular biology, virology, pharmacology, and so forth. Reply with curriculum vitae to: **Dr. H. Smythe, University of Toronto, Rheumatic Disease Unit, Wellesley Hospital, Toronto, Canada M4Y 1J3.**

BIOLOGY. Two tenure-track positions open September 1979 for recent Ph.D. with broad background in biology. Duties will include some combination of introductory biology, genetics, microbiology, vertebrate morphology, behavioral studies, and ornithology. Submit résumé by 15 October 1978 to: **Dr. K. M. Eschenberg, Department of Biological Sciences, Mount Holyoke College, South Hadley, Mass. 01075.**
Equal Opportunity/Affirmative Action Employer

CHAIRMAN DEPARTMENT OF PSYCHIATRY TUFTS-NEW ENGLAND MEDICAL CENTER

Applications are solicited for the position of **chairman** of the Department of Psychiatry, Tufts University School of Medicine, and **psychiatrist-in-chief**, New England Medical Center Hospital. We will seek a candidate with the highest academic credentials who will be able to direct a vigorous, multifaceted department in an expanding university medical center. *We are an Equal Opportunity Employer. Women and minorities are encouraged to apply.* Please send curriculum vitae and supporting information to:

Theodore L. Munsat, M.D.
Department of Neurology
Tufts-New England Medical Center
171 Harrison Avenue
Boston, Mass. 02111

RENSSELAER POLYTECHNIC INSTITUTE ALBERT EINSTEIN CHAIR IN SCIENCE

Applications and nominations are invited for the Einstein Chair which, subject to its renewal by the Board of Regents of the State of New York, is now available. The purpose of this chair is to add a distinguished and renowned scientist to New York State's higher educational community.

Applications and nominations should include an assessment of the scholar's contribution to his/her scientific discipline and should be submitted by 15 August to: **Albert Einstein Search Committee, Rensselaer Polytechnic Institute, Troy, New York 12181.**

Rensselaer Polytechnic Institute is an Equal Opportunity/Affirmative Action Employer.

POSITIONS OPEN

CHAIRPERSON, Department of Environmental Health Sciences. Small, rapidly growing department, currently involved in water quality, resource management, occupational health, and air pollution, is seeking chairperson with similar or complementary interests. Associate or full professor level. Salary: \$28,000 to \$34,000 per annum. Contact: **Gene Fiegley, School of Public Health, University of South Carolina, Columbia, S.C. 29208.** Deadline for receipt of application: 15 September 1978. *An Equal Opportunity/Affirmative Action Employer.*

UNIVERSITY OF QUEENSLAND CHAIR OF MEDICAL BIOCHEMISTRY

The university invites applications for the **Chair of Medical Biochemistry** in the Department of Biochemistry to replace Professor C. Kidson who has accepted the position of director of the Queensland Institute of Medical Research. The applicant should present evidence of substantial achievement in biochemical research, and have medical qualifications registrable in Queensland. The department currently has two other professors, Professor K. J. Scott and Professor B. Zerner (personal chair).

The successful applicant will be responsible through the head of department for direction of teaching of basic and applied biochemistry to medical students. In addition, he/she will be expected to build up own research group and to direct postgraduate students.

The present salary for a professor is A\$31,381 per annum, with a clinical loading of up to A\$5,000 per annum. The university provides prescribed traveling and removal expenses, superannuation, study leave (under review), and housing assistance.

Additional information and application forms are available from: **Staff Officer, University of Queensland, St. Lucia, Brisbane, Queensland, 4067, Australia,** with whom applications close on 30 September 1978.

OREGON COASTAL MANAGEMENT, estuary and shorelands resource planner. One-year position open 1 August. Specialty in marine ecology, coastal resource management, or allied field. Responsible for completing a portion of county comprehensive plan. Land use planning experience valuable. Must coordinate with agencies, steer plan through extensive citizen review. Salary negotiable to \$16,500. Send résumé or inquiry to: **Planning Director, Tillamook County Courthouse, Tillamook, Ore. 97141.**

NOW RECRUITING FOR DEAN, SCHOOL OF OPTOMETRY

The University of California, Berkeley, invites applications/nominations for the position of dean of the School of Optometry. Qualifications for the deanship include evidence of scholarly and academic achievement in visual sciences that warrant an appointment to the full professorship on the faculty of the school. The dean is expected to provide leadership within the school in presenting concepts for curriculum development and to encourage research and professional programs to meet community needs. Applications must be received by 1 October 1978. Detailed curriculum vitae, references, and a statement of personal interests regarding the post should be sent to: **Search Committee, Office of the Provost, Professional Schools and Colleges, 200 California Hall, University of California, Berkeley, Calif. 94720.**

The University is an Equal Opportunity/Affirmative Action Employer.

FIELD BIOLOGIST. Teach field biology for general education and upper level courses in specialty area. Leave-of-absence replacement. One-year temporary appointment for academic year 1978-1979 at the rank of assistant professor. Ph.D., publications, teaching experience, and broad natural history background required. Send curriculum vitae, transcripts, and three letters of recommendation to: **Dr. Imy V. Holt, Search Committee Chairperson, Biology Department, Western Michigan University, Kalamazoo, Mich. 49008.**

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POSITIONS OPEN

Challenging Opportunities for Ph.D. or M.S. Cytologist or Histologist

The Goodyear Tire and Rubber Company is seeking an exceptional individual, Ph.D. or M.S. animal cytologist or histologist, with experience in chromosome aberration investigation. This person will join our toxicology section; this section is involved with in vitro testing of chemicals for safety. Please send résumé to:

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- 2) **CHEMIST**—To assist in the isolation and purification of natural products. B.S. or M.S. in chemistry or equivalent background, since preference will be given to persons with experience utilizing GC and HPLC.

Applicants should send résumé, indicating names and addresses of three references, to: **Box 256, SCIENCE.**

EXECUTIVE DIRECTOR. The Federation of American Societies for Experimental Biology (FASEB), with headquarters in Bethesda, Maryland, is actively seeking candidates for the position of executive director to assume office preferably on 1 April 1979.

The activities of the Executive Director are to promote the purposes of six societies of working scientists which form FASEB. Policy-making is the responsibility of the FASEB Board and its Executive Committee.

The purposes and activities of FASEB include:

- 1) Promotion of the aims and objectives of the working scientists who make up FASEB,
- 2) Communication of scientific information through meetings and publications,
- 3) Promotion of science and science policy with government, private agencies, and the public,
- 4) Service to the constituent societies in the attainment of their individual objectives, and
- 5) Service to government and the public.

The Executive Director is responsible to the Board for the management of FASEB headquarters (about 95 employees and a budget in excess of \$3 million per annum). He/she will represent the Board and will transmit policy to external agencies and to the constituent societies. He/she will assist the executive officers and councils in the attainment of the objectives of the societies. The Executive Director will keep informed of events pertaining to the interests of science in general and to FASEB and its members in particular, and will make recommendations concerning these events to the Executive Committee and Board.

Preference will be given to scientists with experience in academic, scientific, or other administrative posts.

Candidates should submit curriculum vitae and a list of publications to: **Chairman of the Search Committee, Dr. G. Barry Pierce, Professor of Pathology, University of Colorado Medical Center, Denver, Colorado 80264,** no later than 1 September 1978 and be available for interview during the first week of October 1978. Letters of personal reference from at least three individuals should be sent independently to the same address. *FASEB is an Equal Opportunity Employer and encourages applications from women and minorities.*

POSITIONS OPEN

Unique, small, internationally recognized biochemical research institute situated in rural, upstate New York wishes to employ a **DEVELOPMENT OFFICER**. Send credentials to: **P.O. Box 44, Mendham, N.J. 07945**.

An Equal Opportunity Employer

DIRECTOR OF ANATOMIC PATHOLOGY. Applications are invited for the position of director of the very active anatomic service at Cedars-Sinai Medical Center. This position will be available approximately 1 January 1979, and requires Board-certification, broad experience in administration and management, as well as superior teaching ability and research experience. Cedars-Sinai Medical Center is affiliated with the University of California at Los Angeles (UCLA), and applicants should also be qualified for consideration of a faculty appointment at an appropriate level in the Department of Pathology at the University of California, Los Angeles. Please send curriculum vitae and names of referees to: **Ju-lien L. Van Lancker, M.D., Department of Pathology, UCLA School of Medicine, Los Angeles, California 90024.** *Equal Opportunity/Affirmative Action Employers. Minorities and women are encouraged to apply.*

DIRECTOR CARIBBEAN PRIMATE RESEARCH CENTER

The University of Puerto Rico invites applications and nominations for director of the Caribbean Primate Research Center. The center is funded by the National Institutes of Health and administered by the University of Puerto Rico. It includes facilities at Sabana Seca, the center headquarters, and at La Parguera and Cayo Santiago. Cayo Santiago is a 15-hectare cay located about 1 kilometer off the south-east coast of Puerto Rico. Approximately 550 free-ranging rhesus monkeys (*Macaca mulatta*) inhabit the island and form six social groups. Extensive genealogic information is available on these monkeys and considerable published behavioral and genetic work has been done on the animals. The potential for further research at Cayo Santiago is excellent. The new director will also be expected to sponsor behavioral and experimental work on primates at the other facilities of the center.

Candidates should have an earned doctorate in a biomedical discipline and experience in primate research. Managerial skills and administrative experience, preferably with sizable primate colonies, are required. Experience in the breeding of primates would be helpful. Knowledge of both English and Spanish is desirable. Nominations and applications should include curriculum vitae and the names of at least three references and should be submitted to: **Dr. C. B. G. Campbell, Chairman, Search Committee, Department of Anatomy, University of Puerto Rico, School of Medicine, G.P.O. Box 5067, San Juan, Puerto Rico 00936.** Applications will be considered until 1 September 1978.

Applications from all qualified candidates are welcome; women and minorities are encouraged to apply.

IMMUNOLOGIST-IMMUNOPATHOLOGIST

A position at the assistant or associate professor level for an individual with Ph.D. degree or equivalent, and training and research experience in the area of host-defense mechanisms. Applicants holding the D.V.M. degree are preferred. Primary responsibilities involve development of a research program in the area of mechanisms of host defense in spontaneous and experimental animal diseases. Participation in ongoing research projects, teaching, and advising M.Sc. and Ph.D. students in veterinary science is encouraged. Salary negotiable. Send curriculum vitae, selected reprints, and names of three references to: **Dr. David M. Young, Department of Veterinary Science, Veterinary Research Laboratory, Montana State University, Bozeman, Montana 59717.** *An Equal Opportunity/Affirmative Action Employer.*

PEPTIDE CHEMIST. Position open for research associate and/or postdoctoral fellow for person with expertise in peptide synthesis. Salary and position to be commensurate with experience. Send résumé and names and addresses of three references to:

**Dan W. Urry, Director
Laboratory of Molecular Biophysics
University of Alabama Medical Center
University Station
Birmingham, Alabama 35294**

An Affirmative Action/Equal Opportunity Employer

POSITIONS OPEN

NONTENURED FACULTY POSITION IN BIOCHEMISTRY

The Institute of Cancer Research and the Department of Biochemistry, Columbia University, invites applications from qualified individuals for non-tenured faculty positions. The candidate must have a serious commitment to research in molecular biology with particular reference to molecular genetics and recombinant DNA techniques. He or she should also be interested in and committed to the teaching of biochemistry. Applications should include curriculum vitae, bibliography, four names of references, and reprints, and should be addressed to:

**I. S. Edelman, M.D.
Chairman, Department of Biochemistry
College of Physicians and Surgeons
630 West 168 Street
New York, N.Y. 10032**

Columbia University is an Equal Opportunity/Affirmative Action Employer.

HEAD, SECTION OF IMMUNOLOGY

The Department of Microbiology and Immunology at the University of Michigan Medical School invites applications for head of a newly formed Section of Immunology. The section now comprises two members and will be expanded to five or six. Candidates should have an earned doctorate (or equivalent), an outstanding research record with emphasis on molecular approaches to immunology and a demonstrated capacity for academic leadership. The individual will be expected to continue an independent research program and to promote and expand a strong interdisciplinary research and academic program in immunology. The academic rank will be at the associate professor/professor level. Submit application, including complete curriculum vitae and a list of references, to: **Box 257, SCIENCE, The University of Michigan** *is an Equal Opportunity/Affirmative Action Employer.*

HEAD, DEPARTMENT OF ENTOMOLOGY

Virginia Polytechnic Institute and State University invites applications and nominations for the position of head of the Department of Entomology. We are seeking a highly qualified entomologist with a strong commitment to the land-grant missions of teaching, research, and extension. Application deadline: 1 September or until position is filled. *Equal Opportunity/Affirmative Action Employer.* Send applications and nominations, including curriculum vitae and three references, to:

**Dr. E. N. Boyd, Associate Dean
College of Agriculture and Life Sciences
Virginia Polytechnic Institute and State University
Blacksburg, Va. 24061**

NEUROMORPHOLOGIST

The Department of Neuroscience, Albert Einstein College of Medicine, will have a position available (September 1978) at the assistant professor level, for an electron microscopist with expertise in freeze-fracture techniques. Research interests in neuronal membranes, the morphophysiology of synaptic transmission, and/or developmental neurobiology are preferable. The successful applicant will be expected to carry on an independent research program as well as collaborate in interdisciplinary neurobiological research projects with members of the department.

Preference will be given to candidates with significant records of research accomplishment during and after postdoctoral training. Applicants should submit complete curriculum vitae, reprints of recent published papers, and a summary of research goals to:

**Dr. Dominick P. Purpura
Albert Einstein College of Medicine
Department of Neuroscience
Kennedy Center
1410 Pelham Parkway South
Bronx, New York 10461**

An Equal Opportunity Employer

NEUROPHYSIOLOGIST. Postdoctoral position available immediately for at least 3 years. Person with experience in sensory and/or motor physiology preferred, to join ongoing studies of neural mechanisms of oral-facial pain, touch, mastication, swallowing, respiration, and related reflex activities. Basic annual salary is C\$13,735, plus increment for every year of postdoctoral experience. Apply, with curriculum vitae and three references, to: **Dr. B. J. Sessle, Division of Biological Sciences, Faculty of Dentistry, University of Toronto, 124 Edward Street, Toronto, Canada M5G 1G6.**

POSITIONS OPEN

UNIVERSITY OF MICHIGAN MEDICAL SCHOOL DEPARTMENT OF ANATOMY

Two (and possibly three) temporary **INSTRUCTOR POSITIONS** are open in the Anatomy Department from 1 September 1978 to 30 June 1979. Teaching responsibilities will be either in histology or in gross anatomy. Excellent departmental research facilities for electron microscopy and other aspects of cell biology will be available. Individuals with backgrounds in reproductive biology or cell biology will be favored. Please respond to: **Box 245, SCIENCE.** *A nondiscriminatory, Affirmative Action Employer.*

TWO JUNIOR FACULTY POSITIONS IN VIROLOGY

The main research emphasis of this laboratory is in the molecular biology of oncogenic herpesviruses. Minimum requirement: Ph.D., M.D., or D.V.M. Experience in experimental virology, biochemistry of nucleic acids (including sequencing techniques), or electron microscopy will be helpful.

The salary will be paid on the national range A13/HI (equivalent research associate/assistant professor). Forward curriculum vitae, list of publications, and letters of recommendation to: **Professor Bernhard Fleckenstein, Chairman, Institute for Clinical Virology, Loschgstrasse 7, D-8520 Erlangen, West Germany.**

Wanted: SEAGOING MARINE TECHNICIAN. Must have at least 2 years of formal training beyond high school in general field of oceanography or preferably a B.S. degree in a natural science. Must spend 150 to 200 days per year at sea. Contact: **Dolly Dieter, Institute of Marine Science, University of Alaska, Box 617, Seward, Alaska 99664, or telephone: 907-224-5261.** *The University of Alaska is an Affirmative Action/Equal Opportunity Employer.*

The Medical Sciences Program of Indiana University School of Medicine-Bloomington is recruiting **TWO PHARMACOLOGISTS** at the assistant professor level. Ph.D. in pharmacology or equivalent and two or more years of postdoctoral research and teaching experience are highly recommended. The appointees will participate in the teaching of medical and graduate students and be expected to establish a strong independent research program. Application must be returned by 15 September 1978 to: **Edward Goh, Medical Sciences Program, Indiana University, Bloomington, Indiana 47401.**

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PHYSICIAN/EPIDEMIOLOGIST

The University of Texas Health Center at Tyler seeks a physician/epidemiologist experienced in conducting epidemiologic research in chest diseases. Individual will serve as administrative head of epidemiology/biostatistics research division, and should exhibit leadership capabilities and ability to work with people. Please submit letter of interest and curriculum vitae to: **P.O. Box 2003, Tyler, Texas 75710.**

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POSTDOCTORAL POSITION in maternal-fetal pharmacology, available immediately. Studies utilize nonhuman primates and focus on (i) development of fetal and neonatal hepatic drug metabolism and (ii) pharmacokinetics of drugs and abuse during pregnancy. Studies are carried out jointly by the Departments of Obstetrics/Gynecology and Pharmacology. Send résumé and three references to: **Dr. Barry H. Dvorchik, Department of Obstetrics/Gynecology, M. S. Hershey Medical Center, Hershey, Pa. 17033.** *Equal Opportunity/Affirmative Action Employer.*

POSTDOCTORAL POSITIONS in molecular and tumor virology available immediately at the Institute for Molecular Virology in St. Louis.

Study programs on adenoviruses include viral-coded early and "transformation" proteins, transcription, DNA replication, and molecular genetics. Programs on RNA tumor viruses are focused on molecular mechanisms of proviral DNA synthesis and integration.

The institute has modern well-equipped biochemical and cell culture laboratories, including two large P3-level biohazard laboratories. Applicants should have a background in biochemistry or cell biology.

Send résumé, plus three references, to:

**Postdoctoral Training Program
Institute for Molecular Virology
Saint Louis University School of Medicine
St. Louis, Mo. 63110**

POSITIONS OPEN

POSTDOCTORAL FELLOW IN CLINICAL CYTOGENETICS

Ph.D. with experience in somatic cell culture, particularly amniotic fluid cells, to study the expression chromosome abnormalities in vitro and clinically. Send curriculum vitae and names of three references to: **Vincent M. Riccardi, M.D., Director, Kleberg Cytogenetics Laboratory, Baylor College of Medicine, Texas Medical Center, Houston, Texas 77030. An Affirmative Action/Equal Opportunity Employer.**

POSTDOCTORAL POSITIONS (TWO) IN BIOCHEMISTRY

To study resonance Raman excitation profiles of hemeproteins. Experience in hemeprotein isolation and modification desirable. Available immediately. Send résumé and list of three references to: **Professor Nai-Teng Yu, School of Chemistry, Georgia Institute of Technology, Atlanta, Ga. 30332. Georgia Institute of Technology is an Equal Opportunity/Affirmative Action Employer.**

POSTDOCTORAL POSITION in lipid localization in membranes available immediately for approximately a 2-year period. Approximately \$13,000. Training in biophysical chemistry, knowledge of minicomputers and data acquisition techniques required. Experience in membrane structure and kinetics preferred. Send curriculum vitae, graduate transcript, abstract of doctoral dissertation, and names of three references to: **Dr. Robert Bittman, Department of Chemistry, Queens College of the City University of New York, Flushing, New York 11367. An Equal Opportunity/Affirmative Action Employer.**

POSTDOCTORAL POSITION in reproductive endocrinology available 1 September 1978 to join ongoing project dealing with action and purification of a porcine follicular fluid oocyte maturation inhibitor. Required training: Experience in oocyte culture.

Send résumé and names of three references to: **Dr. Cornelia P. Channing, Department of Physiology, University of Maryland School of Medicine, 660 West Redwood Street, Baltimore, Md. 21201.**

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POSTDOCTORAL RESEARCH POSITION for recent M.D. or Ph.D. in Department of Pharmacology for the study of neuropeptides. Salary: \$14,000. Must have experience and superior qualifications in one of the following areas: protein chemistry, isolation and characterization, proteins and peptides, cell differentiation in tissue culture or immunology, and RIA. Send curriculum vitae, list of publications, and names of three references to: **M. Kerans, Personnel Department, NEW YORK UNIVERSITY MEDICAL CENTER, 568 First Avenue, New York, N.Y. 10016. An Equal Opportunity/Affirmative Action Employer, M/F.**

UNIVERSITY OF CALIFORNIA, IRVINE. Position for a full **PROFESSOR** in the Program in Social Ecology. Duties involve supervision of graduate research and undergraduate and graduate teaching focused on the influence of social and/or environmental factors on health and/or behavior. Strength in epidemiological methods preferred. Candidates must demonstrate scholarly achievement commensurate with rank of full professor at the University of California. Position effective fall 1979 or earlier. The program faculty (26 full-time appointments including psychologists, sociologists, urban planners, environmental health experts, lawyers, and biologists) is concerned with the health and behavioral implications of changes in physical and institutional environments. *Applications from all qualified candidates are welcome.* Send curriculum vitae, brief letter, and the names of five references to: **Dr. Ellen Greenberger, Director, Program in Social Ecology, University of California, Irvine, Calif. 92717, before 1 November 1978. An Equal Opportunity Employer.**

PSYCHOPHARMACOLOGIST- NEUROCHEMIST, Ph.D.

The Institute of Mental Health associated with Brown University and University of Rhode Island is seeking an individual interested in catecholamine metabolism and pharmacokinetics. The successful candidate must be eligible for university appointment. Excellent fringe benefit package. Send curriculum vitae and letter of interest to:

**Medical Director
MHRH-Institute of Mental Health
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BIOLOGICAL STAIN/ DYE CHEMIST

The Lab-Tek Division of Miles Laboratory has an outstanding opportunity for a research scientist to use developed skills in stain/dye chemistry.

The candidate should have a Ph.D. in chemistry with academic background in stain/dye chemistry and 2 years of experience which includes an up-to-date knowledge in preparation of stains and mechanisms of staining mammalian cells. A B.S. or M.S. degree in chemistry with 5 to 8 years of knowledge and experience in the same area would be equally acceptable. Background in hematology, cytology, and histology would be helpful.

This individual will have responsibility for projects which deal with research and development of new stain technology, evaluation of existing stains and methods, and interrelate the above for both manual and instrumental applications.

The ultimate objective of these projects will be to generate new products for the hematology, cytology, and histology clinical laboratory marketplace.

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**Curtis A. Brown, Senior Placement Representative
Department 870**

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Electronics System Engineer and RF Receiver Engineer—

The National Radio Astronomy Observatory is presently constructing a radio telescope receiving facility (Very Large Array) on the Plains of San Augustin, approximately 50 miles west of Socorro, New Mexico. This is a large-scale research facility funded by the National Science Foundation. The Observatory is now accepting applications for the following positions: **ELECTRONICS SYSTEM ENGINEER**—Interacts with the Scientific users of the instrument to initiate maintenance and solve problems that arise during operations. Work will require understanding and investigating systems such as antenna feed systems, cryogenically cooled low-noise microwave receiving systems, complex phase-locked-loop local oscillator systems, millimeter wave communication systems and digital monitor and control systems. Experience or interest in any of the above systems would be appropriate with a Bachelor's degree minimum requirement. **RF RECEIVER ENGINEER**—Receiver Engineer required for microwave and RF work in large radio astronomy array with complex receiving system. Experience with low-noise receiving systems desired. Experience with cryogenically cooled-receivers an advantage but not necessary. Bachelor's degree in EE required. Excellent benefits and working conditions in the Sunny, dry Southwest. Persons applying for these positions should send their resume and salary requirements to: **Personnel Manager, National Radio Astronomy Observatory, P. O. Box O, Socorro, New Mexico, 87801. An equal opportunity employer m/f**

Engineer

INHALATION TOXICOLOGY ENGINEER

Position available for individual with B.S. and 5 years or M.S. and 3 years experience in Environmental, Chemical or Mechanical Engineering. Direct experience in Inhalation Toxicology and Associated Chamber Design/Operation is important but not essential. Must have knowledge of particle sizing, air flow dynamics in chambers, aerosol generation and mode of presentation of the vapor phase. Will be responsible for the overall operation of chambers.

For further information, send resume including salary history, in confidence to:

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POSITIONS OPEN

INTERNATIONAL LABORATORY FOR RESEARCH ON ANIMAL DISEASES (ILRAD) RESEARCH ASSISTANT

A research assistant is required to operate the institution's fluorescence activated cell sorter (FACS II). Research is being carried out on trypanosomiasis and theileriosis in modern research facilities located in Nairobi, Kenya. The individual will be working with lymphoid cells and trypanosomes, so familiarity with handling cells is essential. Experience in the use of a cell sorter is an advantage but provision will be made for training if necessary. Salary will vary, depending upon training and experience. Perquisites include house allowance, commutation allowance, insurance, vacation leave, pension scheme, and others. Candidates should submit current curriculum vitae describing training and research experience and the names of three references who may be contacted on behalf of their candidacy. These should be sent to:

The Director
ILRAD
P.O. Box 30709
NAIROBI, KENYA

to reach him not later than 30 August 1978.

RESEARCH ASSOCIATE—In developmental biology and cancer. Will conduct research of the replication of viral DNA and influence of carcinogenic compounds on DNA replication. Ph.D. in biochemistry plus 3 years of experience in molecular biological research at postdoctoral level required. Full-time position; \$14,000. Contact: **Department of Developmental Biology and Cancer, Albert Einstein College of Medicine, 1300 Morris Park Avenue, Bronx, N.Y. 10461. Telephone: 212-430-3127. An Equal Opportunity Employer.**

RESEARCH ASSOCIATE. Ph.D. biochemist to isolate and characterize lens phosphofructokinase. Position available immediately. Send résumé and recommendations to: **Dr. B. D. Peczon, Eye Research Institute, 20 Stanford Street, Boston, Mass. 02114.**

RESEARCH ASSOCIATE IN PATHOLOGY—Ph.D. to carry out studies of cellular control mechanisms involved in the synthesis and secretion of mucous by normal and diseased human airway tissue in organ culture. Experience required in organ culture of bronchial tissue and application of quantitative microscopy in stereology to the analysis of tissue autoradiographs. Background in pharmacology and glycoprotein biochemistry essential. Salary range: \$15,000 to \$18,000. The Department of Pathology at the Children's Hospital has fully equipped modern research laboratories. Please reply to: **Dr. Lynne Reid, Pathologist-in-Chief, Department of Pathology, CHILDREN'S HOSPITAL MEDICAL CENTER, 300 Longwood Avenue, Boston, Mass. 02115. An Affirmative Action/Equal Opportunity Employer.**

RESEARCH NEUROPHYSIOLOGIST

Postgraduate or assistant researcher to study effects of cerebellar stimulation on cerebellum and experimental epilepsy. Previous experience in bioengineering, electrophysiology, and primate neurosurgery needed. Position available September 1978. Candidates must apply by 15 August 1978.

Myrna Beltman
Brain Research Institute
University of California, Los Angeles
Los Angeles, Calif. 90024

MCGILL UNIVERSITY Biochemistry Department

STAFF POSITION. Effective 1 January 1978, assistant professor to teach graduate and undergraduate courses, supervise students, and maintain an active independent research program. Preference will be given in the general area of enzyme regulation in mammalian cells. Candidates should have at least 2 years of postdoctoral experience. Curriculum vitae, including the names of at least three persons who can be contacted for letters of reference, should be sent to:

Dr. W. Mushynski, Search Committee
Department of Biochemistry
McIntyre Medical Sciences Building
McGill University
3655 Drummond Street
Montreal, Quebec, Canada H3G 1Y6

POSITIONS OPEN

RESEARCH SPECIALIST: To participate in research program using stable isotopes and to operate two mass spectrometers (CEC 21-620A and Varian CH7A). Experience in pertinent electronics necessary and with high vacuum technique desirable. Opportunities for independent research. Salary negotiable. Send curriculum vitae, bibliography, and references to: **R. E. Forster, M.D., Department of Physiology, School of Medicine, University of Pennsylvania, Philadelphia, Pa. 19104.**

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RESEARCH/TECHNICAL ASSOCIATE

Position available immediately for work on amino acid metabolism in development and enzymes of purine metabolism. Candidate must have an M.S. in biochemistry with at least 3 to 4 years of experience and strong background in biochemical determinations of enzyme activity, amino acid levels, protein, tissue culture, gel electrophoresis, and so forth. Recent Ph.D. in biochemistry with experience in these areas will also be considered. Apply to: **Dr. S. Kumar, Director of Perinatal Laboratory and Research, Christ Hospital, 4440 West 95 Street, Oak Lawn, Ill. 60453. Equal Opportunity Employer.**

FELLOWSHIPS

POSTDOCTORAL POSITIONS IN EXPERIMENTAL NEUROPATHOLOGY. Fellowships in disease-oriented neuroscience are available immediately in an institution heavily committed to neuroscience research. Broad-based, interdisciplinary training offered in one or more of the following: neuropathology, basic neuroscience, neurochemistry, neuroimmunology, neurotoxicology, and neurovirology. Candidates must be U.S. citizens or permanent residents and must possess M.D., Ph.D., or equivalent degree. Send curriculum vitae to: **Dr. Cedric S. Raine, Department of Pathology, Albert Einstein College of Medicine, 1300 Morris Park Avenue, Bronx, N.Y. 10461. An Equal Opportunity Employer.**

POSTDOCTORAL FELLOWSHIP POSITIONS

Three openings starting immediately, for the training of postdoctoral fellows in biochemical aspects of visual science for 2 to 3 years at starting salaries of \$10,000 or higher for 12 months, depending upon experience. No teaching. Research in the following areas:

- 1) Protein biochemistry; biochemical studies of various growth factors and proteins involved with the growth of ocular cells in tissue culture.
- 2) Immunology; immunochemical studies of compounds involved in various ocular diseases. Studies are carried out from both basic biochemistry and clinical aspects of the problems.
- 3) Transport; studies involved in the mechanism of transport of fluids across cell membranes.

This program was set up to train skilled investigators in the field of visual science. Send curriculum vitae, bibliography, research interests, and the names of three references to: **Dr. Ted W. Reid, Search Committee Chairman, Department of Ophthalmology and Visual Science, Yale University School of Medicine, New Haven, Connecticut 06510. An Equal Opportunity/Affirmative Action Employer.**

TRAINEESHIPS

POSTDOCTORAL TRAINEES in endocrinology and metabolic regulation. M.D. or Ph.D. holders are invited to apply for postdoctoral traineeships available in the Department of Biochemistry, Temple University School of Medicine. Qualified applicants may select research areas related to several on-going programs in enzymology, metabolic regulation, biochemistry of hormone receptors, and genetic aspects of endocrinology. Applicants should send résumé to: **Dr. Gerhard W. E. Plaut, Chairman, Department of Biochemistry, Temple University School of Medicine, Philadelphia, Pa. 19140. Equal Opportunity Employer.**

POSTDOCTORAL POSITIONS (two) for 1979. Individual interested in applying for **TRAINEESHIP** involving cardiac membrane electrophysiology and pharmacology may apply to: **Dr. Luc Hondeghem and Dr. B. G. Katzung, University of California, San Francisco, California 94143.**

TRAINEESHIPS

POSTDOCTORAL TRAINEESHIPS available in neurobiology to investigate (i) permeability control by nicotinic receptors using biochemical and biophysical techniques (Dr. Jonathan B. Cohen) and (ii) long-term regulation of synaptic chemistry by neural and humoral factors, preferably for a person with some neurophysiological training (Dr. Richard E. Zigmond). These positions are available in fall 1978, but could be started up until May 1979. Send curriculum vitae and three letters of reference to the above persons at: **Department of Pharmacology, Harvard Medical School, 250 Longwood Avenue, Boston, Mass. 02115.**

TRAINING PROGRAM

PREDOCTORAL POSITIONS OF DEVELOPMENTAL PHARMACOLOGY

The University of Colorado School of Medicine, Department of Pharmacology, offers predoctoral training program in developmental pharmacology. Candidates for a Ph.D. in pharmacology can specialize in any of several aspects of developmental pharmacology, including neuropharmacology, cellular neurobiology, placental physiology and drug metabolism, enzymology, and endocrinology. Positions are available beginning September 1978. Tuition, fees, and stipend are provided. Interested applicants can obtain further information from: **Dr. Antonia Vernadakis, Associate Professor, Departments of Psychiatry and Pharmacology, University of Colorado School of Medicine, 4200 East 9 Avenue, Denver, Colorado 80262.**

ANNOUNCEMENT

The National Cancer Institute has compiled a projection data base for two-dimensional computerized reconstruction. Copies of this library are available free of charge. For further information contact: **Judith M. S. Pre-witt, National Institutes of Health, Building 12A, Room 2053, Bethesda, Md. 20014. Telephone: 301-496-1247 or 1248.**

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PHARMACOLOGIST (CNS)

- Testing experimental drugs in small animals;
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- Some surgery;
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Researchers

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The Kuwait Institute for Scientific Research, a rapidly expanding institute for applied science and technology, is seeking researchers interested in taking up a challenging career.

Fisheries Oceanographer

RESPONSIBILITIES: Coordination of extensive hydrographic sampling of environmental variables in the Northern Arabian Gulf.

QUALIFICATIONS: M.S. or Ph.D. or equivalent experience in this field.

CONTRACT PERIOD: 2½ years.

Fisheries Biologist/ Population Dynamicist

RESPONSIBILITIES: Organization of a data collection system to investigate the relation between catch and effort of Kuwait's principal finfish.

QUALIFICATIONS: M.S. or Ph.D. or equivalent experience in this field.

CONTRACT PERIOD: 2½ years.

Fish Culturist

RESPONSIBILITIES: Research of eggs to marketable fish, as well as development of a technique to study released fish.

QUALIFICATIONS: M.S. or Ph.D. in this field plus considerable experience.

CONTRACT PERIOD: 2 years.

Ichthyoplanktologist

RESPONSIBILITIES: Investigation of taxonomy and morphology of eggs and larvae of Gulf species.

QUALIFICATIONS: M.S. or Ph.D. or equivalent experience in this field.

CONTRACT PERIOD: 2½ years.

Fishery Biologist

RESPONSIBILITIES: Participation in an intensive study of the population dynamics, biology and ecology of fish. Requires participation in sea and land research work.

QUALIFICATIONS: M.S. or Ph.D. or equivalent experience in this field.

Kuwait Institute offers attractive salaries commensurate with qualifications and experience, liberal fringe and medical benefits including round trip air tickets.

Please airmail complete resume by
**September 1978 to: Mr. Habib Al-Sahhaf,
Personnel Controller, Kuwait Institute for
Scientific Research, P.O. Box 24885, Safat,
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