

Personnel Placement

Personnel advertising is accepted only with the understanding that the advertiser does not discriminate among applicants on the basis of race, sex, religion, age, color, or national origin.

Positions Wanted: 40¢ per word; \$10 minimum charge, per insertion. \$4 extra for use of box number. Prepayment required. Rate available only to individuals; personnel agencies, companies, colleges, and universities take display rate for all advertising.

Display (Positions Open, Market Place, and so forth): \$145 per 25 millimeters (1 column inch), minimum, per insertion (25 millimeters equals 10 lines of 50 spaces and characters each). Ads over 25 millimeters billed at \$5.80 per millimeter. No charge for use of box number. Rates net. No agency commission for ads under 4 inches. No cash discount. Prepayment required for foreign advertising. Purchase orders and billing information required for all other ads.

Advertising closing is each Wednesday, 3½ weeks before Friday issue date requested. Send copy for all positions wanted ads and display ads under 5 inches to:

SCIENCE, Room 207
1515 Massachusetts Ave., NW
Washington, D.C. 20005
Telephone: 202-467-4456

Send copy for display ads, 1/6 page and larger, to:

Scherago Associates, Inc.
11 West 42nd Street
New York, N.Y. 10036
Telephone: 212-736-1858

Blind Ad replies should be addressed as follows:

Box (give number)
SCIENCE
1515 Massachusetts Ave., NW
Washington, D.C. 20005

POSITIONS WANTED

Biochemist, Ph.D. 1970. Endocrinology. Steroid hormone profiles by RIA. Radioreceptor techniques. Enzyme assays. Experience in supervision of clinical laboratory. Research and development. Box 266, SCIENCE. X

Biochemist, Immunochemist. Ph.D. 1971. Broad research experience, cell culture, bacterial antigens, tumor antigens, oncogenic virus, nucleic acid hybridization, radioimmunoassay, enzyme immunoassay, cancer plasma enzymes. Seeks research position in industry or research institute. Box 283, SCIENCE. X

Gross Anatomy/Developmental Biology/Teratology. Biologist, doctorate. Publications. Seeks teaching/research position. Available immediately. Relocation. Box 284, SCIENCE. X

Research Director, Ph.D. Personal care/household products, OTC drugs, medical devices, organic chemistry, microbiology. Sound knowledge regulatory affairs, product safety. Successful NDA submissions. FDA liaison. Numerous patents, publications. Box 285, SCIENCE. X

POSITIONS OPEN

ASSISTANT MEDICAL DIRECTOR—Needed by the American National Red Cross Blood Program. Blood Bank and administrative experience desired. Some travel necessary. Send curriculum vitae to S. Behrens, Office of Personnel, American Red Cross, 18th and D Streets, NW, Washington, D.C. 20006. An Equal Opportunity Employer.

DEPARTMENT OF ANATOMY, GEORGETOWN UNIVERSITY MEDICAL CENTER

A faculty position is available at the **assistant or associate professor** level for a scientist with a record of excellence in research and teaching. Preference will be given to a candidate with an active and funded research program and the capability of participating in departmental teaching. Send curriculum vitae and names of three references by 1 October 1977 to: **Search Committee, Department of Anatomy, Georgetown University Schools of Medicine and Dentistry, Washington, D.C. 20007.** An Equal Opportunity Employer.

POSITIONS OPEN

ANALYTICAL CHEMIST—Ph.D. with experience in GC/MS/computer techniques, especially mass spectro interpretation and structure determination. Work with interdisciplinary group with opportunity to develop an independent research program. Rank and salary commensurate with training and experience. Please send curriculum vitae to: **Department of Pharmacology, MOUNT SINAI SCHOOL OF MEDICINE of the City University of New York, One Gustave L. Levy Place, New York, N.Y. 10029.** An Equal Opportunity Employer.

Applications are invited for a position as **ASSISTANT PROFESSOR** from candidates with a Ph.D. in biochemistry and with postdoctoral experience. The requirements for the position are the promise of excellence in teaching and the ability to establish a scholarly research program on cellular membranes. Preference will be given to applicants with interest in the areas of: glycoproteins, lipids, or molecular aspects of cell surfaces. The position is available 1 September 1977. Applicants should submit a curriculum vitae, list of publications, and the names of three references to: **Dr. Creed W. Abell, Director, Division of Molecular Biology, Department of Human Biological Chemistry and Genetics, The University of Texas Medical Branch, Galveston, Texas 77550,** by 1 July 1977. An Affirmative Action/Equal Opportunity Employer.

DEPARTMENT OF BIOCHEMISTRY TEXAS TECH UNIVERSITY SCHOOL OF MEDICINE

Applications are invited for a tenure-track position. **ASSISTANT PROFESSOR OF BIOCHEMISTRY**, which will open in the summer of 1978. The Ph.D. or an equivalent earned doctorate is required. Applicants also should have at least 2 years of postdoctoral experience and the ability to initiate an effective, independent research program in biological chemistry. The person filling this position will be involved in teaching medical students and graduate students; therefore, a commitment to teaching is essential. Preference will be given to applicants with a strong chemistry background. Send curriculum vitae, list of publications with reprints, names of at least three persons who may be contacted as references, and a summary of future research interest to: **Dr. Francis J. Behal, Professor and Chairperson, Department of Biochemistry, Texas Tech University School of Medicine, P.O. Box 4569, Lubbock, Texas 79409.**

Texas Tech University School of Medicine is an Equal Opportunity/Affirmative Action Employer.

ASSISTANT PROFESSOR OF BIOLOGY EMORY UNIVERSITY

The Department of Biology of Emory University is seeking a **comparative invertebrate physiologist** at the assistant professor level starting September 1978. A strong commitment to research and teaching is essential. Postdoctoral experience is preferred. Undergraduate teaching will be primarily in introductory and invertebrate biology courses, with teaching and supervision of M.S.-Ph.D. students in the applicant's specialty.

Send curriculum vitae and summary of research interests by 1 November and arrange for three letters of reference to be sent to:

Dr. William A. Elmer
C.I.P. Search Committee
Department of Biology
Emory University
Atlanta, Georgia 30322

An Affirmative Action/Equal Opportunity Employer

PLANT ECOLOGIST EMORY UNIVERSITY

The Department of Biology of Emory University is seeking a **population/community-oriented, terrestrial plant ecologist** at the assistant professor level for the fall 1978. A strong commitment to research and teaching is essential. Undergraduate teaching will be in ecological and botanical courses, with graduate teaching and supervision of M.S.-Ph.D. students in the applicant's specialty. Send curriculum vitae and course résumé by 1 November and arrange for three letters of reference to be sent to:

Dr. Harvey L. Ragsdale, Chairman
Ecology Search Committee
Department of Biology
Emory University
Atlanta, Georgia 30322

An Affirmative Action/Equal Opportunity Employer

POSITIONS OPEN

ASSISTANT PROFESSOR OF BIOLOGY. Small, Catholic liberal arts college for women seeks Ph.D. to teach anatomy, physiology, embryology, genetics, and general biology to students in medical technology and allied health fields. Salary range \$10,000 to \$11,000. Send curriculum vitae and three letters of reference by 30 July 1977 to: **Dr. Haven Aldrich, Department of Chemistry, St. Mary's Dominican College, New Orleans, La. 70118.**

Vacancy anticipated for **ASSISTANT PROFESSOR IN CELL BIOLOGY**. Applicant must have a Ph.D. and qualifications to teach undergraduate courses in cell biology and general biology. Send curriculum vitae, reprints or copies of publications, and three letters of reference by 5 August to: **Dr. Richard K. Spears, Chairman, Department of Biological Sciences, Louisiana State University in Shreveport, 8515 Youree Drive, Shreveport, Louisiana 71115.** Equal Opportunity/Affirmative Action Employer.

ASSISTANT PROFESSOR OF FISHERIES. Teaching and research. Ph.D. in fisheries or related ecological discipline. Start 1 December 1977. Send résumé, including names of references, reprints, transcripts, and career plans, to: **Dr. R. C. Summerfelt, Chairperson, Department of Animal Ecology, Iowa State University, Ames, Iowa 50011.** Telephone: 515-294-6107.

An Equal Opportunity/Affirmative Action Employer

ASSISTANT PROFESSOR, OCEANOGRAPHY. Field-oriented physical or chemical oceanographer to teach undergraduate introductory and advanced courses; direct independent study and student research. Work is concentrated in rivers, estuaries, bays, and along the coast rather than in deep water. At dynamic, young state college located in the renaissance county of New Jersey Rural or urban living within easy drive of Philadelphia and New York City. Detailed description available. **Dr. Philip Nanzetta, Dean, Faculty of Natural Sciences and Mathematics, Stockton State College, Pomona, N.J. 08240.** Affirmative Action Employer.

ASSISTANT PROFESSOR. Applications are invited for a post as **assistant professor in organic or carbohydrate chemistry**. This is a 3-year term appointment which may be renewed. A doctoral degree and postdoctoral experience are prerequisites. The appointment involves a full range of academic duties including research and graduate instruction and lecturing in introductory and advanced undergraduate courses. The appointment is tenable on or after 1 September 1977. Inquiries and applications with curriculum vitae and supporting documents should be sent to: **The Head, Department of Chemistry, Queen's University, Kingston, Ontario, Canada K7L 3N6.**

ASSISTANT PROFESSOR OF PATHOLOGY. Medical school in Northeast seeks applications from cellular immunologists engaged in research on lymphocyte differentiation. Experience in production of antiserums against lymphocyte surface markers, tissue culture, and murine immune responses essential. Applicant should be willing to work with others on related research programs. Send curriculum vitae and references to:

Box 288, SCIENCE

An Equal Opportunity/Affirmative Action Employer

The Department of Physiology at Harvard Medical School is searching for an **ASSISTANT PROFESSOR**. The individual will be expected to carry out independent research in organ or cellular physiology and to participate in the teaching of mammalian physiology to medical students and graduate students. Send résumés to: **Chairman of Search Committee, Department of Physiology, Harvard Medical School, 25 Shattuck Street, Boston, Mass. 02115.** Applications should be submitted by 1 October 1977. Harvard is an Equal Opportunity Employer.

ALBERT EINSTEIN COLLEGE OF MEDICINE

Applications are invited for the position of **CHAIRMAN** of the Department of Physiology of this institution in anticipation of the retirement of the current chairman as of 1 July 1978. The position involves responsibility for organization of the department which has a broad base of research interests in physiology. Interested parties should send a curriculum vitae and bibliography to: **Edmund H. Sonnenblick, M.D., Head of the Search Committee for the Chairmanship of the Department of Physiology, Albert Einstein College of Medicine, 1300 Morris Park Avenue, Bronx, New York 10461.**

POSITIONS OPEN

ASSISTANT RESEARCH OCEANOGRAPHER

The Food Chain Research Group (FCRG) of the Institute of Marine Resources at Scripps Institution of Oceanography, University of California, San Diego, expects to have an opening in fall-winter 1977 for a Ph.D.-level **Physical or Chemical Oceanographer** with a strong interest in plankton. The position would be at the assistant research I level (equivalent in salary to assistant professor I) preferably full time. In particular, the FCRG seeks a colleague with strong mathematical or theoretical interests to interact with plankton biologists concerned with relations between plankton distributions and the circulation of the ocean. Interested applicants are invited to submit curriculum vitae and names of referees before 31 October 1977 to: **Chairman, Food Chain Research Group, Institute of Marine Resources, A-018, University of California, San Diego, La Jolla, California 92093.**

The University of California at San Diego is an Equal Opportunity/Affirmative Action Employer. Women and minorities are encouraged to apply.

ASSOCIATE DIRECTOR. clinical biochemist, Board-certified, Ph.D., preferred, with 2 to 5 years bench and supervisory experience in an active hospital. Must have demonstrated ability in laboratory management; personnel supervision; clinical chemistry and instrumentation; teaching experience and research. Responsibilities include the organization and delivery of laboratory services; maintenance of quality-control standards; introduction of new methodologies; training and development of personnel; maintenance of laboratory computer system; intra- and interdepartmental communication. Faculty position in Biochemistry Department; teaching and graduate research encouraged. Faculty appointment and salary negotiable. Send letter of application, curriculum vitae, and names of three references to: **Dr. Howard H. Sky-Peck, Chairman, Department of Biochemistry, Rush-Presbyterian-St. Luke's Medical Center, Chicago, Illinois 60612. Equal Opportunity/Affirmative Action Employer, M/F**

Immediate opening for BIOCHEMICAL GENETICIST

Qualifications:

- 1) Strong background in microbial and in vitro techniques for detection of mutagenic activity,
- 2) Experienced in modern biochemical analytical techniques,
- 3) At least 2 or more years of experience past the Ph.D. degree, and
- 4) Some background in mammalian or insect genetics desirable.

The individual taking this position will have opportunities for developing his/her own research areas as well as for collaboration with ongoing environmental programs—particularly a strong environmental analysis group.

The Research Triangle Institute is located in an excellent scientific environment and a pleasant area for living.

A competitive salary (open, based on experience and qualifications) and fringe benefit package are offered.

Interested persons should send a résumé, together with names, addresses, and telephone numbers of three references to:

Dr. C. E. Cook
Director, Life Sciences and Bio-organic Chemistry
Research Triangle Institute
P.O. Box 12194
Research Triangle Park, North Carolina 27709
Research Triangle Institute is an Equal Opportunity Employer.

CHAIRPERSON. Department of Chemistry, Syracuse University. Applications and nominations are invited for this position to start on or before 1 July 1978. The Department of Chemistry has a commitment to outstanding research and teaching programs and seeks a chairperson to provide exceptional leadership in both areas. Rank and salary are negotiable and area of research is open. Candidates should have an established reputation in research with a strong interest in teaching and administration. *Syracuse University is an Equal Opportunity and Affirmative Action Employer.* Applicants should send a curriculum vitae and names of three or more references to: **D. C. Dittmer, Chairman, Search Committee, Department of Chemistry, Syracuse University, Syracuse, New York 13210.**

POSITIONS OPEN

BIOCHEMIST. Research associate position available for individual with postdoctoral experience, knowledge of analytical techniques, and neurochemistry. Send curriculum vitae and references to: **Professor M. H. Aprison, The Institute of Psychiatric Research, Indiana University School of Medicine, Indianapolis, Indiana 46202. Indiana University is an Equal Opportunity/Affirmative Action Employer.**

BIOCHEMISTRY: research faculty position, non-tenure track, to start 1 September 1977 depending upon availability of funds. Duties include participation in teaching of undergraduate and graduate courses in biochemistry in the Chemistry Department. Research in nucleic acids and/or enzymology preferred. Established record of research funding highly desirable. Send curriculum vitae, current reprints, and three reference letters to: **Dr. N. M. Tooney, Biochemistry Search Committee, Department of Chemistry, Polytechnic Institute of New York, 333 Jay Street, Brooklyn, N.Y. 11201.**

BIOLOGY

A 1-year postdoctoral position is available as of 1 September 1977 for someone with advanced teaching and research experience in neurobiology. Salary \$12,000. Application deadline is 15 August 1977. A curriculum vitae and two letters of reference should be sent to: **E. Mader, Biology Department, McGill University, 1205 McGregory Avenue, Montreal, Quebec, Canada H3A 1B1.**

BIOLOGISTS. Positions available in the Department of Biology, The Pennsylvania State University, Commonwealth Campus System. **New Kensington Campus,** New Kensington, Pa.: position requires teaching introductory courses in biology and general zoology and intermediate-level courses in environmental biology. Research expected. **Ogontz Campus,** Philadelphia area: position requires teaching introductory courses in general biology and general botany and intermediate-level courses in genetics. Research expected. Positions available September 1977. Appointments are expected to be at rank of assistant professor. Candidates must have terminal degree (Ph.D.). Salary commensurate with qualifications. Application deadline: 1 August 1977. Send curriculum vitae, transcripts, and names of three references to **Dr. William H. Neff, 208 Life Science I, University Park, Pa. 16802. The Pennsylvania State University is an Affirmative Action/Equal Opportunity Employer.**

BIOSTATISTICIAN

A new position with the Institute of Medicine of the National Academy of Sciences is available as part of a program on strategic health-policy issues. Duties will be to develop statistical methods for health-policy projects, including the formulation of mathematical models, and to interpret quantitative data in the conduct of these projects.

We require a Ph.D. or equivalent in biostatistics; 2 to 4 years of related experience, preferably in an academic setting; a demonstrated ability to work on a wide variety of health-policy projects; and knowledge of new statistical applications in the health area. Send résumé with salary requirements to: **Douglas L. Hamnes, Institute of Medicine, 2101 Constitution Avenue, NW, Washington, D.C. 20418. An Equal Opportunity Employer**

CHAIRMAN, Department of Chemistry, University of Missouri—Columbia. Applications and nominations are invited for the position of chairman, Department of Chemistry. Candidates must have a distinguished research record and a commitment to continued research and teaching participation. The chairman is also responsible for providing leadership and fiscal direction for undergraduate and graduate teaching and research programs in chemistry. The Department is housed in a well-equipped building completed in 1972. The University also includes schools of medicine, agriculture, and engineering, and has an enrollment of over 22,000 students. Facilities include an excellent library, a large research reactor, and a trace substances laboratory. Opportunities for collaborative research exist at state and federal research facilities located on or near campus. Inquiries, nominations, and applications should be directed to the address below and should be in the hands of the Search Committee by 15 September 1977. The appointment will begin August 1978. **Dr. David E. Troutner, Chairman, Search Committee, Department of Chemistry, University of Missouri, Columbia, Missouri 65201. An Equal Opportunity/Affirmative Action Employer.**

POSITIONS OPEN

BIOCHEMISTRY

CHAIRPERSON, with active research interests, for **Biochemistry Department, Dalhousie University, Halifax, Nova Scotia.** Excellent laboratory facilities in modern medical complex. Active teaching program in undergraduate, graduate, and medical faculties. Please contact **J. D. Hatcher, M.D., Ph.D., Dean, Faculty of Medicine.**

DIRECTORS OF MEDICAL EDUCATION

East Tennessee State University invites applications from, and nominations of, qualified individuals for the positions of directors of medical education to be based at three community hospitals affiliated with its developing College of Medicine and located in Bristol, Kingsport, and Johnson City, Tennessee. The primary responsibility of each of the three directors of medical education will be to coordinate the educational activities within the particular hospital at which based and to serve as liaison between the College of Medicine and the hospital. Each individual will be directly responsible to the associate dean for clinical sciences, and will be expected to reside in the community in which the assigned hospital is located. Applicants should have an M.D. degree with medical education experience. Private practice experience is highly desirable. Letters of application or nomination for these immediate openings should include a curriculum vitae and three personal and professional references to be sent not later than 30 July 1977 to:

Dr. Jack E. Mobley, Dean
East Tennessee State University
College of Medicine
Johnson City, Tennessee 37601

A search committee will begin action on applicants and nominees on 1 August 1977 and will continue thereafter until all three positions are filled.

East Tennessee State University offers Equal Opportunity in its employment, admissions, and educational activities and is an Affirmative Action Employer.

DIRECTOR

The Marine Biological Laboratory, Woods Hole, Mass., invites applications for the position of **director** or **director-president**, which will become open on 1 July 1978. Qualified applicants are invited to submit a curriculum vitae, summary of experience, and at least three references to: **Chairman of Search Committee, Marine Biological Laboratory, Woods Hole, Mass. 02543. An Equal Opportunity Employer.**

The Division of Environmental and Nutritional Sciences, School of Public Health, University of California at Los Angeles, is recruiting candidates for a tenure-ladder (state-funded) **FACULTY MEMBER** in the area of **environmental health.** Appointment may be made at a junior or senior level depending on the qualifications of the applicant. *The University of California is an Equal Opportunity/Affirmative Action Employer and welcomes applications from minorities and women as well as other qualified persons.*

We are interested in an individual who can teach and develop courses on the health effects of environmental factors. The faculty member is expected to have a strong research interest and commitment to his or her area. Training may be in physiology, toxicology, occupational health and safety, air or water pollution, or any other pertinent health effects area. The faculty member should also have practical experience in his field.

Write, sending curriculum vitae, to: **A. Ralph Barr, School of Public Health, University of California at Los Angeles, Los Angeles, Calif. 90024.**

FACULTY POSITION. Division of Medical Technology, Department of Laboratory Medicine and Pathology, University of Minnesota. Available 1 January 1978. Doctorate degree required. Clinical laboratory experience highly desirable. Responsibilities include teaching undergraduate and graduate students in large medical technology program, conducting research, supervising section of clinical chemistry. Level of appointment and salary dependent on qualifications. Send résumé to: **Verna Rausch, Box 70 Powell Hall, 500 Essex Street, SE, Minneapolis, Minn. 55455.**

The University of Minnesota is an Equal Opportunity Educator and Employer.

POSITIONS OPEN

DIRECTOR, Playfair Neuroscience Research Unit. Qualifications needed: senior neuroscientist medically trained or otherwise. Nature of duties: To develop a research program focused on specific areas of the pathophysiology of disease of the nervous system. Laboratory space of over 6000 net square feet is available situated in the research wing at the Toronto Western Hospital. Salary: to be negotiated. Direct enquiries to: **Dr. J. R. Wherrett, Chairman, Playfair Search Committee, Room 6368 Medical Sciences Building, University of Toronto, Toronto, Canada M5S 1A8.** Date of appointment: January 1978 or earlier. Closing date for receipt of applications: 31 August 1977.

The Department of Public Health Sciences, School of Public Health, University of Hawaii-Manoa Campus, has a **FACULTY OPENING** (Ph.D.) at the assistant professor level. The candidate should have experience in environmental health including a background in occupational health and industrial hygiene (with an emphasis on safety). Teaching responsibilities will include participation in general environmental health graduate courses as well as occupational health and industrial hygiene courses.

Evidence of research ability and productivity is necessary. Successful applicant is expected to conduct independent research programs and guide graduate students. Salary approximately \$16,000.

Interested individuals should send a curriculum vitae and three letters of recommendation to: **Michael J. Chun, Ph.D., Associate Professor of Environmental Health, Department of Public Health Sciences, School of Public Health (Blomed D-104K), University of Hawaii, Honolulu, Hawaii 96822.** An Equal Opportunity/Affirmative Action Employer.

The University of Missouri-Columbia, School of Medicine has **FACULTY POSITIONS** open in the following departments: anesthesiology, child health, family and community medicine, pathology, pharmacology, psychiatry, radiology, and surgery. Inquiries should be sent to the chairman of each individual department at the **School of Medicine, 807 Stadium Road, Columbia, Missouri 65201.**

The Department of Structural Biology invites applications for **JUNIOR AND SENIOR FACULTY POSITIONS** in structural biology starting in 1977 or 1978. The level of appointment will be commensurate with the qualifications of the prospective faculty member. Preference will be given to applicants having research interests in supramolecular structures such as membranes, contractile assemblies, and chromatin. Applicants should send their curriculum vitae, bibliography, names of three references, and a statement of research plans to: **the Department of Structural Biology, Stanford University School of Medicine, Stanford, Calif. 94305.** Stanford University is an Equal Opportunity Employer and welcomes nominations of women and minority group members and applications from them.

GENETICIST/CYTOGENETICIST

The Department of Biology, University of Nevada, Reno, and the Nevada Mental Health Institute, Reno, are seeking an individual at the assistant professor/assistant geneticist level. Responsibilities include teaching a course in general/human genetics and an advanced course in areas of specialization (at UNR) and assisting in chromosome analysis and genetic counseling services (at NMHI). The successful candidate must have an earned Ph.D. degree and is expected to pursue an active program of research in some field of cytogenetics and/or environmental mutagenesis. The position is temporary with the possibility of being tenured. Application deadline: 1 September 1977. Application forms and details from: **Dr. Baldev K. Vig, Chairman, Search Committee, Department of Biology, University of Nevada, Reno, Nevada 89557.** The State of Nevada is an Equal Opportunity/Affirmative Action Employer.

THE UNIVERSITY OF MICHIGAN The Department of Anatomy

Two **INSTRUCTORSHIPS** available August 1977 for Ph.D.'s in anatomy, or related area to teach gross anatomy or microscopic anatomy. Appointment limited to 12 months. Respond to: **Box 287, SCIENCE, Code 1400F0/100H0.** A Non-discriminatory, Affirmative Action Employer.

POSITIONS OPEN

Applications are invited for a **LABORATORY INSTRUCTOR** position in physiology at Purdue University, available January 1978. The position requires a Ph.D. and involves teaching physiology to graduate and medical students. Research opportunity possible in conjunction with existing laboratories. Send curriculum vitae and the names of three referees to:

**Dr. W. L. Pak
Department of Biological Sciences
Purdue University
West Lafayette, Indiana 47907**

An Affirmative Action/Equal Access Employer

LECTURER, RADIOLOGICAL HEALTH—Ph.D. in physics, biophysics, or radiation protection required. Interests and experience in electronics and physical measurements desirable. Position involves teaching graduate level radiation physics and dosimetry as well as working with faculty and students on research currently funded and assisting with development of new projects. Assistant professorship possible after 2 years, depending upon satisfactory performance and availability of funds. Apply to: **Dr. P. A. Plate, University of Michigan, School of Public Health, Ann Arbor, Mich. 48109.** A Nondiscriminatory, Affirmative Action Employer.

Faculty position available for **MICROBIOLOGIST** with strong research experience in area of molecular basis of bacterial pathogenesis. Rank and salary commensurate with experience. Send curriculum vitae to: **Search Committee, Department of Microbiology, College of Physicians and Surgeons, Columbia University, 630 West 168th Street, New York, N.Y. 10032.** Equal Opportunity Employer.

MICROBIOLOGIST—CELL BIOLOGIST; GENERAL BIOLOGIST. Two positions available through release time funds on the Minority Biomedical Support Program. Renewable for up to 3 years contingent upon availability of grant-continuation funds. **FULL-TIME LECTURER** (\$13,000 for 9 months) to teach microbiology and/or cell biology. Animal virologist preferred. **HALF-TIME LECTURER** (\$6,500 for 9 months) to teach general biology, microbiology, or cell biology. Ph.D. required for both positions. Positions available 1 September 1977. Send curriculum vitae and three letters of recommendation to: **Dr. J. R. Bristol, MBS Program Director, Department of Biological Sciences, The University of Texas at El Paso, El Paso, Texas 79968.** Affirmative Action Employer.

MYCOLOGIST—HAWAII

Assistant professor. Duties: courses in general mycology and medical mycology and research related to basic aspects of agriculture and natural resources. Experience in electron microscopy desirable. Write for details: **Dr. C. H. Lamoureux, Department of Botany, University of Hawaii, 3190 Maille Way, Honolulu, Hawaii 96822.** An Equal Opportunity/Affirmative Action Employer.

OREGON STATE UNIVERSITY

Two positions. **NUMERICAL ANALYST** with advanced degree in meteorology or physics with extensive experience in scientific programming to work with E. F. Danielsen on global scale diagnostic methods; experience in tape and disk manipulations of large data sets is required; salary range \$20,000 to \$25,000. **COMPUTER PROGRAMMER** with extensive scientific programming and tape storage and processing experience; salary approximately \$15,000. Before 1 August 1977, send résumé and names, addresses, and phone numbers of three referees to: **Dr. W. G. N. Slinn, Air Resources Center, Oregon State University, Corvallis, Oregon 97331.** Oregon State University is an Equal Opportunity/Affirmative Action Employer.

PHOTOCHEMIST: applications are invited for an anticipated opening October 1977 or sooner. A Ph.D. chemist is required for operations involving data compilations and the storage and retrieval of information on photochemical and photophysical processes in solution. The position is in a Data Center jointly sponsored by ERDA and the NBS Office of Standard Reference Data. Appointment will be made to the Special Professional Faculty of the University of Notre Dame. Send résumé to: **Dr. Alberta B. Ross, Supervisor, Radiation Chemistry Data Center, Radiation Laboratory, University of Notre Dame, Notre Dame, Ind. 46556.** The University is an Equal Opportunity Employer.

ENVIRONMENTAL SCIENTISTS

The Oak Ridge National Laboratory has openings in the field of energy research and development related to environmental assessment. Individuals with advanced degrees (Ph.D. or equivalent experience) in aquatic ecology, environmental and soil chemistry, geology, geohydrology, meteorology, climatology, terrestrial ecology, microbial ecology, environmental systems analysis, and related fields are invited to reply. The Oak Ridge National Laboratory is conducting advanced studies and assessments in all phases of energy technology including coal conversion, geothermal, solar, and nuclear.

Résumés and letters referring to this notice should be sent to: **E. M. Vendley, Employment Department,**



Oak Ridge National Laboratory, P.O. Box X, Oak Ridge, Tennessee 37830. The Oak Ridge National Laboratory, operated by Union Carbide Corporation—Nuclear Division, is an Equal Opportunity/Affirmative Action Employer.



SCIENCE APPLICATIONS, INC. (SAI)
Oak Ridge, Tennessee

Staff Scientists—Environmental Research

SAI, a well-established scientific research corporation invites applications for several Ph.D.-level positions at its Oak Ridge, Tennessee, office. Generalists with broad, interdisciplinary and quantitative (statistical, modeling and programming) backgrounds are especially encouraged to apply. Selected candidates will work as part of an interdisciplinary research team on environmental aspects of energy related technologies. Positions to be filled are:

**Environmental Chemistry and Engineering
Marine Ecology
Plant/Soil Ecology
Water Resources**

Salary levels are competitive with the Oak Ridge/Knoxville scientific market and the company offers a liberal fringe benefit package. SAI is an equal opportunity employer. Interested persons should send a curriculum vitae, including a research synopsis, and the names of three references by September 1, 1977 to:

**DR. C. W. CRAVEN, JR.
SCIENCE APPLICATIONS, INC.
P.O. BOX 843
OAK RIDGE, TENNESSEE 37830
PHONE 615/482-2438**

POSITIONS OPEN

PHARMACOLOGIST

A. H. Robins Company has an opening in the pharmacology lab for a senior pharmacologist. Experience in gastrointestinal tract will be helpful. Excellent opportunity with well-established GI group. Please send résumé including salary history to:

Director of Personnel
A. H. Robins Company
1407 Cummings Drive
Richmond, Virginia 23220
An Equal Opportunity Employer, M/F

TWO POSITIONS open for fall semester 1977. Ph.D. preferred, to teach general biology, hematology, human anatomy and physiology, and comparative anatomy to biology, nursing, and medical technology students. Send curriculum vitae to: **Dr. Reuben B. Boozer, Dean, College of Arts and Sciences, Jacksonville State University, Jacksonville, Alabama 36265.** *An Equal Opportunity/Affirmative Action Employer.*

POSTDOCTORAL available 1 September to study intermediates, reactions, and enzymes of vitamin K biosynthesis. Requires biochemical-enzymological background. Send résumé and three references to: **Dr. R. Bentley, Department of Life Sciences, University of Pittsburgh, Pittsburgh, Pa. 15261.** *Equal Opportunity/Affirmative Action Employer.*

POSTDOCTORAL POSITION available in protein chemistry, enzyme mechanisms, and affinity labeling of enzyme active sites for fall 1977. Recent Ph.D. in biochemistry. Apply with curriculum vitae and two references to: **Dr. Roberta F. Colman, Chemistry Department, University of Delaware, Newark, Delaware 19711.** *The University of Delaware is an Equal Opportunity/Affirmative Action Employer.*

POSTDOCTORAL POSITION for a new or recent Ph.D. or M.D. biochemist interested in 1 or 2 years of grant-supported research experience in a laboratory devoted exclusively to the molecular and cellular aspects of plasma membrane hormone receptor systems in animal and human cells. Available fall 1977. Salary competitive. Qualified applicants send curriculum vitae, references, and supportive materials to: **Dr. Melvin Blecher, Department of Biochemistry, Georgetown University Medical Center, Washington, D.C. 20007.** *Affirmative Action/Equal Opportunity Employer.*

POSTDOCTORAL POSITION—Biochemist to study the interaction of halogenated antibacterials with proteins and biological membranes. Salary up to \$12,000, depending on experience and qualifications. Applicants should send curriculum vitae and the names of three references before 1 September 1977, to:

Dr. Donald R. Buhler
Department of Agricultural Chemistry
and Environmental Health Sciences Center
Oregon State University
Corvallis, Oregon 97331

An Affirmative Action/Equal Opportunity Employer

POSTDOCTORAL RESEARCH ASSOCIATE

Full-time research position available immediately at the University of Rochester, Department of Radiation Biology and Biophysics for study of ion, water, and mucous secretion of respiratory tract epithelium. Candidate will be expected to have background in membrane transport processes and/or biochemistry of mucus. Send letters of inquiry including curriculum vitae and bibliography to: **Dr. Matthew G. Marin, Pulmonary Unit, Box 692,**

UNIVERSITY OF ROCHESTER
School of Medicine and Dentistry
601 Elmwood Avenue
Rochester, New York 14634

An Equal Opportunity Employer, M/F

POSITIONS OPEN

POSTDOCTORAL POSITION—Biochemist to study the interaction of membrane-active chemicals with biological membranes. Research background in membrane or protein biochemistry desirable. Salary up to \$12,000. Send curriculum vitae and names of three references, before 1 August 1977, to:

Dr. Terry L. Miller
Department of Agricultural Chemistry
and Environmental Health Sciences Center
Oregon State University
Corvallis, Oregon 97331

An Affirmative Action/Equal Opportunity Employer

POSTDOCTORAL POSITION: Available 1 September 1977 for Ph.D. in biochemistry or pharmacology. Project: effects of chronic ethanol ingestion on mitochondrial structure and function or on lipid metabolism. Salary range: \$10,000 to \$12,000 per year depending on experience. Send résumé and three letters of reference to: **Dr. Ronald C. Reitz, Department of Biochemistry, University of Nevada-Reno, Reno, Nevada 89557.** Application deadline: 30 days from this notice. *An Equal Opportunity/Affirmative Action Employer.*

NIH POSTDOCTORAL POSITION available immediately in natural products/toxicology. Ph.D. with protein chemistry background to work with group studying chemical/toxicological behavior of marine algal toxins. Salary \$15,000, 12-month-base, subject to renewal. Send résumé and dissertation adviser letter to: **Research and Grants Office, University of Maryland, Eastern Shore, Princess Anne, Md. 21853.** *An Equal Opportunity Employer.*

POSTDOCTORAL RESEARCH ASSOCIATE wanted, to work on studies of isolated sea urchin mitotic apparatus with Dr. Arthur Zimmerman and Dr. A. Forer. Available immediately, for 1 year, with potential for two additional years. Write: **Dr. A. Forer, Biology Department, York University, Downsview, Ontario, Canada M3J 1P3.**

POSTDOCTORAL AND STAFF POSITIONS

The University of California, Riverside, Statewide Air Pollution Research Center is seeking applicants for **postdoctoral positions** in the following areas: (i) investigation of products and intermediates in gas phase systems including simulated and real atmospheres utilizing gc-mass spectrometric and/or photoionization mass spectroscopic and infrared techniques, (ii) aerosol chemistry and aerosol physics studies in both ambient air and environmental chambers, and (iii) chemistry involving mutagens of atmospheric importance (background in biochemistry desirable). Postdoctoral salaries range from \$11,000 to \$14,500 per year depending upon experience.

In addition applications are invited for **staff research associate III** to act as assistant to, and coordinator for, the administrative functions of the director of the center. Must have M.S. or Ph.D. in chemistry with extensive knowledge of environmental chemistry including photochemical air pollution and several years administrative experience.

Send résumés and names and addresses of three references to: **Dr. James N. Pitts, Jr., Director, Statewide Air Pollution Research Center, University of California, Riverside, Calif. 92521.** *An Equal Opportunity Employer.*

POSTDOCTORAL TRAINING POSITION: one opening, starting 1 September 1977, for a recent Ph.D. in psychology or related field. Research focused on behavioral (especially learning) deficits in animals with experimentally retarded cerebellar development. Opportunity to learn modern anatomical techniques and computer-aided quantification in histology. Send curriculum vitae and three letters of reference to: **Dr. Joseph Altman, Laboratory of Developmental Neurobiology, Purdue University, West Lafayette, Indiana 47907.** *An Equal Access/Equal Opportunity Employer.*

RESEARCH ASSOCIATE. Available September 1977. Research on environmental impacts of energy facilities. Background in terrestrial and aquatic ecology required; experience with power plants and coal mining highly desirable. M.S. or Ph.D. in environmental science or applied ecology preferred. Salary \$12,000 for 12 months. Send résumé, publications, and names of three references to: **Dr. J. C. Randolph, c/o SPEA Personnel, School of Public and Environmental Affairs, Indiana University, Bloomington, Ind. 47401,** by 31 August 1977.

An Equal Employment/Affirmative Action Employer

POSITIONS OPEN

The Department of Biological Sciences of Carnegie-Mellon University has the following three positions available: **PROTEIN BIOCHEMIST** or **BIOPHYSICIST**; **EUKARYOTIC GENETICIST**; **MOLECULAR BIOLOGIST** applying restriction endonuclease technology in the area of structural studies of nucleic acids, genetic analyses, or recombinant DNA techniques. Candidates should have a Ph.D. (or equivalent) and preferably postdoctoral experience. Positions are at the **ASSISTANT PROFESSOR** level, although higher appointments will be considered. Duties include teaching at the undergraduate and graduate level. Applicants should forward their curriculum vitae, three or more letters of reference, and a brief résumé of research plans to: **Search Committee (1), Department of Biological Sciences, Carnegie-Mellon University, 4400 Fifth Avenue, Pittsburgh, Pa. 15213.** *Carnegie-Mellon University is an Equal Opportunity/Affirmative Action Employer.*

The Department of Psychiatry at the University of Wisconsin-Madison has a full-time faculty opening at the **assistant professor** level for a **GENERAL PSYCHIATRIST** with special interest and expertise in the inpatient area. Applicants should possess a strong interest in teaching and research in this area. In addition the position involves general psychiatric teaching for medical students, residents, and psychology trainees in the Department of Psychiatry. Applicants should send curriculum vitae and references to: **William T. McKinney, Jr., M.D., Chairman, Department of Psychiatry, University of Wisconsin Medical School, 1300 University Avenue, Madison, Wisconsin 53706.**

An Equal Employment Education Institution, Title IX/Title VI.

PUBLISHING ACQUISITIONS EDITOR

Raven Press invites scientists with a Ph.D. and a background in one of the basic biomedical sciences to apply for the position of acquisitions editor based in New York City. The position will involve working with research scientists to develop books in the biomedical areas. Candidates must have a strong interest in the publishing field. Creativity, personality, poise, and self-motivation are essential. Salary commensurate with experience. Send résumé to:

Dr. Alan Edelson, President
Raven Press
1140 Avenue of the Americas
New York, New York 10036

RADIATION SAFETY OFFICER—Full-time position to assume a dual role in maintaining radiological safety programs both at Old Dominion University and the Eastern Virginia Medical School with the following responsibilities: supervise radiation measurement and protection activities, advise the Radiation Safety Committee on all procedures of radioisotope usage and control of machines generating ionizing radiations, maintain all surveys and records required by NRC regulations, offer training courses in the safe use of radioactive materials. Master's degree in health physics or in a field of science with significant preparation in radiation research and developing safety training required; past experience as a radiation safety officer and a broad knowledge of radiation safety practices relative to the CFR desirable. Send résumé and names of three references by 15 August 1977 to: **Dr. James C. Johnson, Department of Biological Sciences, Old Dominion University, Norfolk, Va. 23508.** Telephone: 804-489-6285. *An Affirmative Action/Equal Opportunity Employer.*

RESEARCH ASSOCIATE ANALYTIC CHEMIST

Ph.D. with experience in trace metal analysis to participate in multidisciplinary study of the effects of low-level lead exposure on brain development in children and experimental animals. Will be responsible for supervision of laboratory, blood, tissue, and environmental analysis for lead. Salary to \$18,000. Send curriculum vitae and references to: **Richard Silber, Personnel Department, CHILDREN'S HOSPITAL MEDICAL CENTER, 300 Longwood Avenue, Boston, Mass. 02115.** *An Affirmative Action/Equal Opportunity Employer.*

RESEARCH ASSOCIATE. Position available fall 1977, for biochemist to conduct studies in connective tissue biochemistry. Applicant should have a Ph.D. with experience in protein chemistry. Salary negotiable. Send résumé and names of three references to: **Dr. William T. Butler, Institute of Dental Research, University of Alabama in Birmingham, Birmingham, Alabama 35294.** *An Equal Opportunity/Affirmative Action Employer.*

MICROBIOLOGIST

Unusual Opportunity To Combine Two Sciences: Microbiology and Statistics

Pfizer—a leader in microbiological products and instrumentation—is seeking an individual with an M.S. or Ph.D. in microbiology or biostatistics. Specifically, we're looking for someone to supervise a data base for an automated identification system. Functions will include problem solving, and applied research in bacteriology, taxonomy, and epidemiology. Experience in computer programming is desirable.

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VACANCY CHIEF, OFFICE OF SCIENTIFIC PUBLICATIONS GS-16, \$39,629

U.S. Geological Survey
Geologic Division
Reston, Virginia

The **CHIEF, OFFICE OF SCIENTIFIC PUBLICATIONS**, plans and directs all activities related to geoscience information services for which the Geologic Division is responsible. This includes the evaluation of reports resulting from divisionwide research activities as to scientific merit, completeness, method of release, appropriateness, and compliance with agency publications policy. Also included is responsibility for study, development, and application of new concepts and techniques for communication of scientific information and for maintenance of quality preparation and publishing standards. The program is funded at about \$10 million annually and is conducted with a permanent work force of about 175 employees representing a wide range of scientific disciplines and support specializations. Responsibilities include directions of the maintenance and operation of the Geological Survey Earth Science Library.

Qualifications required: advanced training in geoscience and demonstrated ability in executive-level program management and scientific research and development program administration; established stature as research geologist or geophysicist with broad and in-depth knowledge of national needs for earth science information and data; and exceptional knowledge and skills in the development, review, processing, publication, dissemination, and communication of the results of earth science investigations and research findings in land and mineral resources to the scientific-engineering community and to the user public at large. Application must clearly reflect a training and experience background which will have provided the level and breadth of knowledge, skills, and abilities necessary to carry out the functions described. U.S. citizenship is required.

Selectee for this position will be subject to conflict-of-interest regulations relating to holding certain interests in federal lands and in private mineral enterprises and will not be permitted to perform surveys or examinations for private individuals or corporations. Filing of confidential Statement of Employment and Financial Interests is required.

Interested candidates should submit Personal Qualifications Statement, SF-171, together with bibliography by 15 August 1977, to:

Personnel Officer
U.S. Geological Survey
12201 Sunrise Valley Drive (MS-215)
Reston, Virginia 22092

The position is in the federal career service with all Civil Service benefits.

Equal Opportunity Employer

THE INTERNATIONAL LABORATORY FOR RESEARCH ON ANIMAL DISEASES

P.O. Box 30709, Nairobi, Kenya
Telephone: 592244/45/46, Telex: 22040

The International Laboratory for Research on Animal Diseases (ILRAD) is a newly established international institute in Nairobi, Kenya, which conducts research on African trypanosomiasis and theileriosis, two vector-borne, hemoparasitic diseases of widespread importance in approximately 50 developing countries. Multidisciplinary research involving immunology, biochemistry, cell culture, pathology, parasitology, ultrastructure, epidemiology, and clinical medicine is being carried out and will be expanded in 1978. The scientific staff is recruited internationally and is composed of core scientists, visiting scientists, and postdoctorals. Core scientists have a long-term association with the institution, while the visiting scientists have appointments for 1 to 2 years and generally are on leave from their home institutions. Postdoctorals are appointed for 2 to 3 years.

ILRAD is recruiting **SCIENTIFIC STAFF** for employment in 1978. Positions will be available in 1978 for **CORE SCIENTISTS, VISITING SCIENTISTS, and POSTDOCTORALS** in immunology, cell culture, pathology, and parasitology. Visiting scientist and postdoctoral posts will be open in biochemistry, epidemiology, and clinical medicine. Core and postdoctoral posts will be available in electron microscopy. The individuals appointed to core and visiting scientist positions must be well-established investigators with excellent training and experience in the relevant discipline and must show evidence of past research productivity. In addition, these individuals must be interested in interacting with other staff in multidisciplinary approaches to relevant questions leading to the control of trypanosomiasis and theileriosis. Postdoctoral candidates must have a strong science background in the relevant discipline and must have shown excellent potential and aptitude for research. Salary is based upon the background, training, and experience of the candidate. In addition to salary, ILRAD pays housing, moving expenses, commutation, insurance, retirement, and other perquisites.

Positions will be available in 1978 for a **STAFF SCIENTIST, VISITING SCIENTIST, and POSTDOCTORAL**. These positions are open to people with research experience and interests in: **basic cell biology**, including cell synchronization and division analysis, mutation screening, and cell cloning; **molecular biology**, including mRNA analysis, cDNA probe analysis, and DNA cloning; and **protein chemistry**, including antigen isolation and purification and peptide analysis. Experience in protozoology would be advantageous. Salary and overseas benefits will be commensurate with age and experience.

ILRAD has a position available immediately for a **SENIOR TECHNICIAN IN DIAGNOSTIC SEROLOGY**. The individual in this position must be well trained, have 6 to 10 years of experience in a diagnostic laboratory, and be familiar with various serologic techniques including fluorescent antibody, haemagglutination, complement fixation, gel diffusion, and others. The person filling this post should be capable of setting up, conducting, and evaluating the results of serologic procedures as well as having sufficient background and training to develop new procedures and improve available ones in cooperation with scientific staff members. In addition, this individual must be able to supervise a small diagnostic laboratory including the activities of other technical staff conducting bacteriological, haematological, and other diagnostic procedures. The salary range is from \$8,000 to \$15,000 per annum and is based upon the training and experience of the candidate. Perquisites include moving, housing, commutation, insurance, retirement, and others.

ILRAD has **SENIOR POSITIONS** available in 1977 and 1978 for **TECHNICAL Staff** for both short-term (1 or 2 years) and longer-term appointments in biochemistry, immunology, cell culture, and parasitology. Individuals filling these positions must be well trained, with 6 to 10 years experience in the discipline, be capable of supervising the functions of a laboratory, including junior grade staff and have the interest and ability to train junior staff. Positions in immunology are for research in both cellular immunology and in immunoglobulins. One post is for a senior technician in serology for diagnostic work. Openings in cell culture are for individuals with training and experience in the initiation and maintenance of mammalian or insect cell cultures and their use in infectious disease research. Positions are available in parasitology for persons experienced in tick and tsetse fly rearing and research techniques as well as in research relating to trypanosomiasis and theileriosis. Individuals with experience in other hemoparasitic diseases will also be considered. Biochemistry openings are available for persons well versed in techniques involving protein, lipid, and enzyme chemistry. The salary range is from \$8,000 to \$15,000 and is dependent upon the training and experience of the candidate. Also included are perquisites for transportation, housing, insurance, and other things.

Interested individuals should submit a synopsis of past research activities, curriculum vitae, publications, and the names of three references who could be contacted on behalf of their candidacy to the **Director, ILRAD, P.O. Box 30709, Nairobi, Kenya**. Additional information can be obtained by writing to the same address.

POSITIONS OPEN

Department of Biological Chemistry
The Milton S. Hershey Medical Center
The Pennsylvania State University

Rank: **RESEARCH ASSOCIATE**. Date: immediate. Required qualifications: (i) Ph.D. in biochemistry, (ii) evidence of independent imaginative research as shown by professional publications, (iii) at least 3 years of experience in the isolation and characterization of complex saccharides (glycoproteins and proteoglycans), (iv) some experience with eukaryotic cell culture desired, and (v) interest in cell surface biology and tumor immunology. Type of appointment: special appointment as a research associate per government contract (minimum time: 2 years). Apply to: **Dr. Eugene A. Davidson, Chairman, Department of Biological Chemistry, The Milton S. Hershey Medical Center, The Pennsylvania State University, Hershey, Pa. 17033.** An Equal Opportunity Employer.

RESEARCH ASSOCIATE IN PHARMACOLOGY

The Department of Pharmacology at the College of Physicians and Surgeons seeks an **Electron Microscopist** with extensive experience in processing and studying the pathological ultrastructure and cytochemistry of cardiac muscle, particularly in ischemia and infarction. Familiarity with pathological ultrastructure of human cardiac tissues is a necessity. The position will involve extensive interaction with cardiac physiologists and pharmacologists and requires that the applicant possesses a broad range of knowledge in these areas which will enable the designing and interpretation of experimental studies. The applicant must also have extensive experience in the care and maintenance of electron microscopes as well as in training pre- and postdoctoral candidates in cardiac ultrastructure and electron microscopy techniques.

Send applications, including a curriculum vitae and names of possible references to:

Dr. Brian F. Hoffman, Chairman
Department of Pharmacology
College of Physicians and Surgeons
Columbia University
630 West 168th Street
New York, N.Y. 10032

An Equal Opportunity/Affirmative Action Employer

TOXICOLOGIST/PHARMACOLOGIST BIOCHEMIST

Ph.D. research associate with background in toxicology, pharmacology, and/or biochemistry. The individual has to be capable of carrying out original and creative research on toxicology and pharmacology. The research involves a series of studies on problems of significance to health of the eye and a study on the effect of polycyclic compounds on retinal-pigment epithelial cell growth in culture. Eye research experience not required. Teaching opportunities. Salary: approximately \$18,000, depending upon experience. Position available immediately. Send résumé with list of publications and three names of references to: **A. M. Potts, Ph.D., M.D., Chairman, Department of Ophthalmology, University of Louisville, 301 East Walnut Street, Louisville, Kentucky 40202.** An Equal Opportunity/Affirmative Action Employer

VETERINARY PATHOLOGIST position available 1 August 1977. Ph.D. in pathology and/or Board-certification required. Responsible for pathology service at a federally funded primate research center. Adjunct professorial appointment in Department of Veterinary Pathology available to well-qualified individual will provide opportunities for teaching professional and graduate students. Level of appointment is open depending upon applicant's qualifications. Responsible for necropsies of all spontaneous and experimental nonhuman primate deaths. Not responsible for experimental pathology for research projects unless she/he is a member of the research team. Opportunity to join research teams in perinatal biology and reproduction, respiratory diseases, infectious diseases and immunology, behavioral biology, and primate medicine. Staff includes two pathology residents, three technicians, and one clerk/typist. 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.** Closing date for applications is 8 August 1977. The University of California is an Equal Opportunity/Affirmative Action Employer.

COURSES

SCANNING ELECTRON MICROSCOPY 15 to 19 August 1977

This course is designed to provide an introduction to scanning electron microscopy. Topics to be covered include: coating techniques, critical point drying, x-ray fluorescence, vacuum techniques, cathode luminescence, photography, and maintenance. Contact: **Dr. William Sawyer, Electron Microscopy Laboratory, Department of Physics, Elmhurst College, Elmhurst, Ill. 60126.** Telephone: 312-279-4100, ext. 476.

FELLOWSHIPS

RESEARCH FELLOW. Postdoctoral position available immediately to carry out studies of the induction of interferon mRNA in cultured cells. The project will involve translation of human interferon mRNA in intact cells and cell-free systems, and characterization and purification of interferon mRNA. Ph.D. in biochemistry or related subjects required. Familiarity with techniques of mRNA isolation and characterization, and/or cell-free mRNA translation preferred. The appointment will be at \$11,000 plus per year based on experience and number of dependents. Send curriculum vitae and names and telephone numbers of two or three references to: **Dr. Carter Bancroft, Section 6144, SLOAN-KETTERING INSTITUTE FOR CANCER RESEARCH, 1275 York Avenue, New York, N.Y. 10021.** An Equal Opportunity Employer, M/F.

MEMBRANE BIOCHEMISTRY AND STRUCTURE. POSTDOCTORAL FELLOWSHIPS (2) AVAILABLE. To do biochemical or ultrastructural studies on plasma membranes on differentiated and undifferentiated and normal and transformed cells. Glycoprotein labeling and isolation, membrane enzymes, effects of various agents including hormones on differentiated and undifferentiated cells; interested in both protein and lipid studies. Structural studies involve TEM, freeze fracture, immunocytochemistry, and SEM; experience in all not required. Experience with isolation and antibody production of contractile proteins beneficial. Salary negotiable. Send curriculum vitae and three letters of recommendation to:

Dr. Leo T. Furcht
Box 198 Mayo

Department of Laboratory Medicine and Pathology
University of Minnesota Medical School
Minneapolis, Minnesota 55455

JAMES COOK UNIVERSITY OF NORTH QUEENSLAND DEPARTMENT OF TROPICAL VETERINARY SCIENCE RESEARCH FELLOWSHIP (ONCHOCERCIASIS PROJECT)

Research fellow required to join a multidisciplinary team studying the life cycle, epidemiology, and pathology of onchocerca species of cattle in Northern Australia. The fellow will work on the taxonomy and life cycles of onchocerca and other filariae. Several years of postdoctoral experience in filarial taxonomy and life cycles are expected and a knowledge of insect vectors would be advantageous. The project will involve extensive field work in remote areas.

The position is supported by the Australian Meat Research Committee and is available for 11 months in the first instance, from August 1977, with probable extension for a further year.

The salary range for the position is A \$14,345-349 to A\$16,292 per annum and the commencing salary will be determined on the basis of qualifications and experience. Conditions of appointment include F.S.S.U. type superannuation, recreation leave loading and assistance with travel and removal expenses.

Further information and application forms are available from: **The Registrar, Post Office, James Cook University, Queensland 4811, Australia,** with whom applications close on 29 July 1977.

PHS POSTDOCTORAL FELLOWSHIPS in health sciences and behavioral sciences. Applications invited from holders of Ph.D. degrees for research training in the area of alcohol and alcohol abuse in animal models and clinic populations. Interdisciplinary 2-year program. Applications accepted immediately. Send curriculum vitae, grade transcript, and letter detailing possible research interests to: **Marc A. Schuckit, M.D., Director, Alcoholism and Drug Abuse Institute, 3937 15th Avenue, NE, NL-15, Seattle, Wash. 98105.**

FELLOWSHIPS

POSTDOCTORAL FELLOWSHIP in clinical pharmacology available immediately. Ph.D. or M.D., with experience in drug level analysis and metabolism of psychoactive drug in man utilizing GLC, TLC, and related techniques. Stipend \$12,000 to \$14,000 depending on experience. Send curriculum vitae to: **R. C. Smith, Behavioral Neurochemistry, Texas Research Institute of Mental Sciences, 1300 Moursund Avenue, Houston, Texas 77030.**

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