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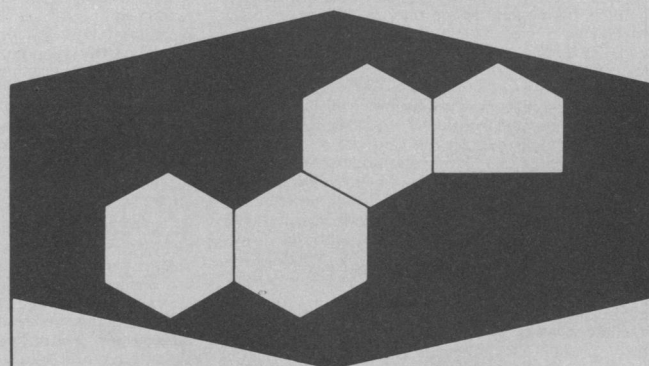
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Personnel Placement

POSITIONS WANTED

Anatomist/Gross and Neuroanatomy. Competent also in histology and embryology. Excellent teacher. Experience with medical, dental, and paramedical students. D.D.S., M.S. qualifications. Administrative experience. Available 1 July 1977. Highest references. Some research and writing. Box 215, SCIENCE. X

Biochemist—Cell Culture. Ph.D. 1975. Lymphoid and tumor cell culture, cancer immunotherapy, protein isolation, metabolism. Teaching experience. Publications. Desires academic, research, or industrial position. Box 211, SCIENCE. X

Biochemist—Chemist. Ph.D. Broad research and teaching experience. Publications. Experience in neurochemistry, membranes, proteins, lipid biochemistry, and enzymology. Research in diabetes and metabolism. Strong background in analytical methods and radioisotopes. On medical school faculty for last 6 years. Desires research/teaching, industrial, or government position. Box 220, SCIENCE. X

Biochemist/Protein Isolation. M.S.; 16 years of research, development, and production experience includes isolation and purification of human plasma proteins and hormones, diagnostic kits, clinical assays, RIA, radio-labeling, antibody production, RID, electrophoresis, preparation of polymers for assays, and affinity chromatography. Patents and publications. Employment: industry or university. Box 221, SCIENCE. 5/20, 27

Chemist/Pharmacologist. Ph.D. Seeks challenging position in government or industry. Experience: pharmacokinetics, metabolism, toxicity of drugs, pesticides and toxic substances, proteins, immunochemistry, cancer, radioisotope, EPA, FDA, NIOSH regulations, contract research. Administration. Publications. Available immediately. Box 107, SCIENCE. X

Computer Scientist. Seeks environmental or ecological applications, western United States. Experience includes biomedical image processing and artificial intelligence, scientific applications, minicomputer, some systems, several computer languages. Box 222, SCIENCE. X

Ethologist/Ecologist/Anthropologist. Ph.D., Duke, anatomy, expected June 1977. Renaissance biology background with significant field, laboratory, and teaching credentials. Publications; 2 years of successful field work on nocturnal Malagasy prosimians in press or preparation. Specialist in hypothesis design and testing relating morphology, behavior, environmental physiology and evolution. Serious efforts in conservation and public information. Seeks teaching, research position. J. Russell, 1617 Bonnie Brae, Houston, Texas 77006. X

Immunochemist. Ph.D. biochemistry, M.S. physiology. Strong background in protein chemistry, radioassays, fluorescent techniques, subcellular fractionation, IgG receptor isolation, affinity chromatography. Three-year postdoctoral at leading cancer center; publications. Desires research position in area of immune-regulation, suppression of T-cell response. Box 223, SCIENCE. X

Invertebrate Zoologist. M.S. Recent graduate seeks research/teaching appointment in North America/overseas. Special interests include the higher arthropods (marine and terrestrial), evolutionary ecology, and paleontology. Box 224, SCIENCE. 5/20, 27

Certified consulting **Meteorologist.** M.S., 20 years of experience-contract research. Areas: environment, energy, military. Skills: technical program development, management. Seeks position in theoretical and/or experimental research. Box 225, SCIENCE. 5/20, 27; 6/3, 10

Pharmacologist/Toxicologist. Ph.D. pharmacology, 1974. B.S. pharmacy. Teaching experience: pathology, pharmacology, and toxicology. Research publications: pharmacokinetics, cyanide toxicity, drug metabolism, narcotic dependence. Seeking academic/industrial position. Box 227, SCIENCE. X

POSITIONS WANTED

Neuropharmacologist. M.D., Ph.D. Broad research and teaching experience; publications. Desires stable research/academic/industrial position, but with appropriate research funds to start with. Current research interest: catecholaminergic mechanisms in the brain and spinal cord. Expertise in microiontophoresis, EEG studies, synaptic transmission, self-stimulation. Box 226, SCIENCE. X

POSITIONS OPEN

The Department of Neurology, University of California, Los Angeles, School of Medicine, San Fernando Valley Medical Program, is seeking applicants for the following full-time **ACADEMIC POSITIONS**. Fellow or assistant professor level for **neurologist** with research interest in epilepsy. **Postdoctoral fellow in neurochemistry** with major emphasis on cyclic nucleotides (Ph.D.). Applicants are requested to submit a curriculum vitae and reprints to **Claude G. Wasterlain, M.D., Head, Neurology Division, Veterans Administration Hospital, Sepulveda, Calif. 91343. UCLA is an Equal Opportunity/Affirmative Action Employer and is desirous of receiving applications from minority and women candidates as well as other qualified persons.**

ANATOMIST

Senior faculty position available September 1977 for a developmental biologist with an active and funded research program. The successful candidate will be expected to teach in embryology and microscopic anatomy. Send letter of application, curriculum vitae, and names of three references to: **Dr. H. Maisel, Chairman, Department of Anatomy, Wayne State University School of Medicine, 540 East Canfield, Detroit, Michigan 48201. Wayne State University is an Equal Opportunity/Affirmative Action Employer.**

AQUATIC ECOLOGIST

The Martin Marietta Corporation Environmental Technology Center is seeking an aquatic ecologist with training preferably in estuarine and marine zooplankton ecology. Applicants should have demonstrated ability in applied research with a strong background in quantitative and statistical methods, and an interest in studies of physical-biotic and ecosystems interactions and in applying findings to environmental impact evaluations. The Center is currently involved in extensive power plant impact assessment programs, and the applicants will have responsibility for coordinating, formulating, and implementing multidisciplinary field programs, including data analysis and interpretation efforts. Ph.D. in marine biology, oceanography, limnology, or zoology required. Résumé and salary requirements should be sent to: **C. Joyce McAleer, Personnel Administrator, Martin Marietta Laboratories, 1450 South Rolling Road, Baltimore, Md. 21227. Equal Opportunity Employer.**

AQUATIC ZOOLOGIST: The Department of Biology at Idaho State University anticipates an employment opportunity at the assistant professor level, to commence 18 August. Preference will be given to a **fish ecologist** (interest in conservation and behavior desirable), with a dedication to quality collegiate instruction and professional creative accomplishment. \$13,000 for 9 months; doctoral degree required. Send letter of application, curriculum vitae, transcripts of all college work, three letters of recommendation, and the names of additional references to: **Chairman, Selections Committee, Department of Biology, Idaho State University, Box 8007, Pocatello, Idaho 83209. Application deadline: 17 June 1977. Idaho State University is an Affirmative Action/Equal Opportunity Employer.**

The University of Maryland at College Park, Department of Anthropology, invites applications for a position for an **ARCHEOLOGIST** on its faculty beginning in the fall semester of 1977. Rank and salary are open depending on qualifications. Archeological specialties are open, but a strong interest in relating archeology to cultural anthropology is desired. Applicants should have completed the Ph.D. Send curriculum vitae with descriptions to **Ellis R. Kerley, Chairman, Department of Anthropology, University of Maryland, College Park, Maryland 20742.**

The University of Maryland actively subscribes to a policy of Equal Educational and Employment Opportunity. The University of Maryland is required by Title IX of the Educational Amendments of 1972 not to discriminate on the basis of sex in admission, treatment of students, or employment.

POSITIONS OPEN

UNIVERSITY OF ROCHESTER DEPARTMENT OF PATHOLOGY CELL SORTING LABORATORY

Assistant Professor, Ph.D. Experience in biophysics, biostatistics, or applied mathematics. Division of Analytical Cytology is seeking an individual to join a research team in a Cell Sorting Facility. Responsibilities include assisting program biologists in experimental design and data analysis, supervision of mechanical technician in running and maintaining cell sorter, directing applications programmer in data analysis, and initiating independent research.

Immunobiologist, Research Associate, Ph.D. Three-year position. Experience in protein purification and preparation of immunofluorescence reagents desirable. Research will involve studies of autoimmune dysfunction by means of quantitative assessment of autoantibodies using a fluorescence activated cell sorter.

Cell Biologists (Two), Postdoctoral, Ph.D. (i) Experience in cell kinetics to include autoradiography, cell culture techniques, cell disaggregation methods, and PLM techniques. Candidate will learn fluorescence methods for cell cycle analysis using flow cytometry. (ii) Experience in protein purification and preparation of fluorescent reagents desirable. Adenovirus system to be used to study virus binding receptors on the surface of mammalian cells. Candidate will learn fluorescence methods for quantitative study of DNA content and virus binding using flow cytometry.

Send curriculum vitae, bibliography, and summary of research interests to: **Dr. Leon Wheelless, Department of Pathology, Box 626, University of Rochester School of Medicine, Rochester, New York 14642. The University of Rochester is an Equal Opportunity/Affirmative Action Employer.**

ASSISTANT PROFESSOR, AQUACULTURAL ENGINEERING. A full-time faculty position available 1 January 1978. Doctorate in engineering and experience or strong interest in aquaculture are required. Desired research expertise includes system analysis and water treatment processes. Responsibilities include teaching graduate and undergraduate engineering courses, directing graduate students, and conducting research in the broad area of aquaculture systems. Applications must be received by 31 July 1977. *The Department of Agriculture Engineering is an Equal Opportunity Employer; women and minority candidates are encouraged to apply.* For further information, write to: **R. E. Garrett, Chairman, Department of Agricultural Engineering, University of California, Davis, California 95616.**

ASSISTANT PROFESSOR IN PLANT SYSTEMATICS beginning 18 August 1977. Applicant must have a Ph.D. degree and the qualifications to teach undergraduate courses in plant systematics, plant morphology, and general biology and to maintain and supervise a small but growing herbarium. *Applications from all qualified candidates are welcome; minorities and women are encouraged to apply.* Send curriculum vitae, reprints or copies of publications, and three letters of reference by 15 June to: **Dr. Richard K. Spears, Chairman, Department of Biological Sciences, Louisiana State University in Shreveport, 8515 Youree Drive, Shreveport, Louisiana 71115. An Equal Opportunity/Affirmative Action Employer.**

ASSISTANT PROFESSOR, TERRESTRIAL PLANT ECOLOGY. Ph.D. in plant ecology. To teach a course in traditional plant ecology and participate in teaching general botany. Also, to develop a research program and possible course in some phase of whole-plant, terrestrial ecology. Applications should include curriculum vitae, at least three reference letters, and list of all completed college science courses. Send to **Dr. W. L. Klarman, Department of Botany, University of Maryland, College Park, Maryland 20742. Telephone: 301-454-3816. An Affirmative Action /Equal Opportunity Employer.**

ASSISTANT RESEARCH PHYSIOLOGIST

Supported by research grant; available 1 August 1977. To conduct intracellular studies of signal initiation and processing in the vertebrate retina, with emphasis upon mammals. Qualifications include demonstrated ability to do intracellular research, and either the Ph.D. or M.D. degree. Additional postdoctoral experience also desirable. Send résumé to **Kenneth T. Brown, Department of Physiology, University of California, San Francisco, California 94143.**

*An Affirmative Action/
Equal Opportunity Employer*

POSITIONS OPEN

The Faculty of Medicine invites applications for a vacant position in **ANATOMY** at the **ASSISTANT OR ASSOCIATE PROFESSOR** level. Candidates should possess an M.D. and/or Ph.D. and have both research and teaching expertise. Salary will be commensurate with qualifications and experience. The prime requirement is ability to teach gross anatomy to medical students in a multidisciplinary approach curriculum and additionally to nurses and surgical residents. Experience in teaching embryology would be an asset. Candidate's research field is not critical but should preferably lie in the area of cell science. Applicants should send a curriculum vitae and names of three referees to **Dr. T. M. Scott, Faculty of Medicine, Health Sciences Center, Memorial University, St. John's, Newfoundland, Canada A1B 3V6**.

CHESAPEAKE BAY INSTITUTE

ASSISTANT RESEARCH SCIENTIST position available on or about 15 June 1977. Recent Ph.D. needed to conduct research on environmental aspects of phytoplankton physiology and biochemistry. Both laboratory and field (including shipboard) work involved. Experience with estuarine phytoplankton helpful. Send application, including names of three professional references, to: **Search Committee, Chesapeake Bay Institute, Macaulay Hall, The Johns Hopkins University, 34th and Charles Streets, Baltimore, Maryland 21218**.

The Johns Hopkins University is an Equal Opportunity/Affirmative Action Employer.

ASSISTANT RESEARCH SCIENTIST

Recent Ph.D. in biochemistry to study cellular aspects of lipid and lipoprotein metabolism. Please send résumé to: **M. Kerans, Personnel Department, NEW YORK UNIVERSITY MEDICAL CENTER 587 First Avenue, New York, N.Y. 10016. An Equal Opportunity/Affirmative Action Employer, M/F.**

The University of Illinois College of Medicine School of Basic Medical Sciences at Urbana-Champaign seeks a distinguished scientist for appointment as **ASSOCIATE DEAN** to direct the basic medical science program. Interested applicants should possess a M.D. and/or a Ph.D. degree; have an established record of scholarship; have administrative experience; and have a sincere interest in quality medical and graduate education. The position is a full-time administrative appointment to begin 21 August 1977.

Rank and salary are negotiable.

In order to ensure full consideration, applications should be received by 10 June 1977.

Contact **Allan H. Levy, M.D., Chairperson, Search Committee for Associate Dean, University of Illinois, School of Basic Medical Sciences, Urbana, Illinois 61801. Telephone: 217-333-2284.**

The University of Illinois is an Affirmative Action/Equal Opportunity Employer and encourages applications from minorities and women.

MIT FACULTY POSITIONS

Several positions at the junior faculty level are open in the Department of Earth and Planetary Sciences at Massachusetts Institute of Technology. We are looking for outstanding candidates in any area of the earth sciences. Interested candidates should send curriculum vitae and descriptive material to: **Room 54-912, Massachusetts Institute of Technology, Cambridge, Mass. 02139.**

The Department of Biology, University of Bridgeport, invites applications for a **FACULTY POSITION** beginning September 1977. Applicants should possess the Ph.D. degree and be capable of teaching introductory anatomy-physiology and an advance course in an area of specialization. Initial appointment for 1 year with possibility of extension. Applications including curriculum vitae and three letters of recommendation should be sent to: **Dr. R. Lerud, Department of Biology, University of Bridgeport, Bridgeport, Conn. 06602.**

POSITIONS OPEN

The Outdoor Biology Instructional Strategies (OBIS) project has an immediate opening for **AUTHOR/DEVELOPERS OF BIOLOGICAL ACTIVITIES**. The activities are designed to encourage youngsters (10 to 15 years old) to observe and investigate organisms and events in the out-of-doors. Applicants must have leadership experience with youngsters 10 to 15 years old and a strong science background. A B.A. is required and previous development experience is desired. Applications should be submitted to **Dr. Robert C. Knott, OBIS, Lawrence Hall of Science, University of California, Berkeley, Calif. 94720. Minority and women applicants are urged to apply.**

CHAIRMAN

Manpower, Training and University Programs Division

To direct a wide variety of energy-related programs involving university participation at major federal research centers, training courses for technical and professional personnel, manpower research and development and industrial skill training. Requires leader who can identify and translate needs of national energy program and organizations into effective education, participation and manpower programs. Close liaison with government, educational institutions, and other public and private agencies. Oak Ridge Associated Universities is a nonprofit corporation sponsored by 45 southern universities.

Submit credentials to **Dr. Philip L. Johnson, Executive Director, Oak Ridge Associated Universities, Box 117, Oak Ridge, Tennessee 37830.**

An Equal Opportunity Employer

CHAIRPERSON—DEPARTMENT OF BIOLOGY

The Department of Biology, New York University, Washington Square, N.Y. 10003 is seeking a chairperson. Applicants should have an established reputation for excellence in research in any major area of biology and have proven administrative abilities. *New York University is an Equal Opportunity/Affirmative Action Employer.* Send curriculum vitae, list of publications, and the names of three persons from whom we may solicit letters of reference to **R. Borowsky, Chairman, Search Committee**, at the above address, by 30 June 1977.

CHAIRPERSON

DEPARTMENT OF BIOLOGY UNIVERSITY OF ALABAMA IN BIRMINGHAM

The Department of Biology at the University of Alabama in Birmingham invites applications, both from within the university and from the outside, for the position of chairperson. Criteria that will be considered in the selection include experience in undergraduate and graduate teaching, evidence of administrative potential, and demonstrated research achievement in one of the areas of specialization in the department. These areas are reproductive and developmental biology, comparative and cellular physiology, genetics, and ecology.

The appointment will be at the rank of professor or associate professor and can begin at any convenient time from September 1977 to June 1978. Salary will be negotiable, based on experience and qualifications. The application deadline is 1 July 1977, but the faculty reserves the right to extend this deadline.

An application should include a complete curriculum vitae and three or more letters of recommendation.

The University is an Affirmative Action/Equal Opportunity/Title IX Employer.

Send applications to:

**Search Committee
Department of Biology
University of Alabama in Birmingham
Birmingham, Alabama 35294**

GENETICIST

The Department of Biology invites applicants for an assistant professorship in genetics to start September 1977. Applicants should have a strong commitment to research, undergraduate and graduate education. Submit a curriculum vitae and have three letters of recommendation sent to

**Dr. Gary R. Poirier
Department of Biology
University of Alabama in Birmingham
Birmingham, Alabama 35294**

no later than 15 June 1977.

The University is an Affirmative Action/Equal Opportunity/Title IX Employer.

POSITIONS OPEN

BIOCHEMISTS/IMMUNOLOGISTS/CELL BIOLOGISTS: postdoctoral workers required to join a new research group studying proteinase secretion by tumors; autoimmune events in rheumatoid arthritis and their influence on synovial cell proteinase secretion. Work will involve biochemical and immunological assays, protein purification, organ and tissue culture, animal work, immunohistochemistry. Salaries in range \$12,000 to \$16,000 per annum depending upon experience. Please write to: **Dr. A. R. Poole, Joint Diseases Laboratory, Shriners' Hospital, 1529 Cedar Avenue, Montreal, Quebec H3G 1A6 Canada, with curriculum vitae.**

BOTANIST AND MOLECULAR BIOLOGIST. Two openings in September 1977 for Ph.D.'s. Permanent position for **botanist** with specialty in plant taxonomy-morphology. Background in microbiology desirable. Duties: teach general botany, area of specialty, and possibly be department chairman. Temporary (1-year) position for **molecular biologist** to teach introductory cell biology, microbiology, and area of specialty. Closing date: 17 June 1977. Send inquiries to **Preston Somers, Biology Department, Fort Lewis College, Durango, Colorado 81301. Equal Opportunity/Affirmative Action Employer.**

CLINICAL PATHOLOGIST

Applications sought for clinical pathologist with interest in scholarly activity and teaching, to be in charge of laboratory data processing and to assist with interpretive clinical pathology in the Section of Laboratories and Pathology at the Los Angeles County-University of Southern California Medical Center. Applicant must have a California license. Faculty and rank at the University of Southern California commensurate with experience. Reply to: **Chairman, Department of Pathology, University of Southern California, 2025 Zonal Avenue, Los Angeles, California 90033.**

An Equal Opportunity/Affirmative Action Employer

DIVISION DIRECTOR—OCEAN SCIENCES

The National Science Foundation is seeking qualified applicants (2-year appointment) for the position of director, Division of Ocean Sciences. The position is excepted from the competitive civil service and is equivalent to a GS-17 position (salary range \$46,423 to \$52,611, restricted by statute to \$47,500). Applicants should be recognized authorities in oceanography and have demonstrated national and international leadership in their field of expertise. Individuals able to take a 2-year leave of absence from their current scientific or science management responsibilities would find the position both challenging and interesting. Applicants should submit a statement of interest and Standard Form 171 to the **Division of Personnel and Management, Section III, Room 212, 1800 G Street, NW, Washington, D.C. 20550. The National Science Foundation is an Equal Opportunity Employer.**

ECOLOGIST (MARINE). The National Oceanic and Atmospheric Administration, U.S. Department of Commerce, announces a career Civil Service vacancy in the Marine Assessment Division, Center for Experiment Design and Data Analysis, of the Environmental Data Service, Washington, D.C.

Ecologist (GS-12/13): Incumbent will have primary responsibility for assessing the impact of human activities and coastal development on the marine and coastal environment, will act as liaison with federal and private organizations in this field, and will serve as expert on marine and estuarine ecology and effects of pollutants on associated ecosystems. Entrance level salary is \$20,442 or \$24,308 per annum depending upon experience and level of Civil Service rating.

Qualifications: graduate degree preferred. Minimum of a bachelor's degree or equivalent experience in marine ecology, marine biology, environmental chemistry, or related fields. An additional 3 years of progressive professional experience in above fields (graduate education may be substituted for some of this experience). At least 1 year of professional experience must have been at a level of difficulty comparable to the next lower grade in the federal service. Additional information may be obtained by contacting **Dr. Dail W. Brown, telephone: 202-634-7379.** Applications (Standard Form 171) should be submitted to the **Personnel Division, AD412, Page Building 2, 3300 Whitehaven Street, NW, Washington, D.C. 20235, attention: Mrs. Collier, by 10 June 1977.**

The U.S. Department of Commerce is an Equal Opportunity Employer.

POSITIONS OPEN

CHIEF SCIENTIST—EARTH SCIENCES

The National Science Foundation is seeking qualified applicants for the position of chief scientist, Division of Earth Sciences.

The chief scientist has the responsibility for the direction and supervision of the project support area and the determination of the scope and nature of the overall long-range plans for the earth sciences. He also carries the responsibility for maintaining close cooperation with the scientific offices and groups of other federal agencies and foreign countries that may be cooperating with the operations of the Division of Earth Sciences.

The position is excepted from the competitive civil service, and the successful candidate will be appointed at the EE-1 level (equivalent to GS-16), (\$39,629 to \$50,197, restricted by statute to \$47,500). Applicants should be recognized authorities in the earth sciences and have demonstrated national and international leadership in their field of expertise. Applicants should submit a statement of interest and complete professional biography, and Standard Form 171, as soon as possible, to the **Division of Personnel and Management, Section III, 1800 G Street, NW, Washington, D.C. 20550**. Applications will not be accepted after 1 July 1977.

The National Science Foundation is an Equal Opportunity Employer.

The Department of Radiological Sciences at the University of California, Irvine, College of Medicine, invites applications at assistant professorial level for the position of **CO-CHIEF OF THE DIVISION OF GASTROINTESTINAL RADIOLOGY**.

Applicants should be Board-certified (or equivalent) radiologists with special training in gastrointestinal radiology. Preference will be given to candidates with training in radiological research.

In addition to the clinical service the successful applicant will be responsible for the academic aspects of gastrointestinal radiology and will be expected to develop a strong research program and to take a vigorous part in resident training. The division sees a large volume of excellent case material and outstanding research facilities in support are available. *Applications from all qualified candidates are welcome; minorities and women are encouraged to apply.* Applications, including a biography and copies of any publications, should be sent to:

Eric N. C. Milne, M.B., Ch.B., F.F.R.
Professor and Chairman
Department of Radiological Sciences
University of California, Irvine
College of Medicine
Irvine, California 92717

Closing date: 31 May 1977.

FACULTY POSITIONS as INSTRUCTOR or ASSISTANT PROFESSOR in the Department of Anatomy at Tulane University with specialty in gross anatomy, histology, and neuroanatomy. Candidates should show dedicated commitment to research. The department has excellent research facilities and an active graduate program. Send curriculum vitae and names of references to:

Dr. Robert D. Yates, Chairman
Department of Anatomy
Tulane University School of Medicine
1430 Tulane Avenue
New Orleans, Louisiana 70112

Tulane University is an Affirmative Action/Equal Opportunity Employer.

IMMUNOLOGY RESEARCH ASSOCIATE

Postdoctoral position available immediately for individual with experience using in vitro techniques for studies of cellular/tumor immunology. Salary: \$12,000 per year. Please send curriculum vitae and references to **Director, Department of Pathology, The Methodist Hospital, 506 Sixth Street, Brooklyn, N.Y. 11219**.

LECTURER. Department of Biological Sciences seeks supervisor of laboratory courses in biochemistry and molecular biology. Advanced training in modern biology and chemistry required, preferably at Ph.D. level. Salary dependent on experience and teaching ability, with \$12,000 maximum. Nontenured appointment with limited faculty status, renewable annually. Address inquiries to **Dr. R. V. Rice, Head, Department of Biological Sciences, Carnegie-Mellon University, 4400 Fifth Avenue, Pittsburgh, Pa. 15213**. *Equal Opportunity/Affirmative Action Employer.*

POSITIONS OPEN

The Department of Physiology and Biophysics, University of Louisville Health Sciences Center, Louisville, Kentucky, has a **FACULTY OPENING** (Ph.D.) at the assistant professor level. Teaching responsibilities will include participation in graduate courses and team-taught courses for medical, dental, and nursing students.

Evidence of research ability and productivity is necessary. The field of research should be primarily in the area of endocrine physiology. Successful applicant is expected to conduct independent research programs and guide graduate students. Salary approximately \$18,000.

The Department of Physiology and Biophysics occupies relatively new facilities and has extremely well-equipped laboratory and office space.

Individuals interested in this position should send a curriculum vitae and three letters of recommendation to: **Thomas B. Calhoun, Ph.D., Professor and Chairman, Department of Physiology and Biophysics, University of Louisville School of Medicine, Health Sciences Center, Louisville, Kentucky 40201**. *An Equal Opportunity/Affirmative Action Employer.*

The Department of Physiology and Biophysics, University of Louisville Health Sciences Center, Louisville, Kentucky, has a **FACULTY OPENING** (Ph.D.) at the assistant professor level. Applicants preferred with some teaching experience in a health sciences center. While teaching responsibilities will include participation in graduate courses and some team-taught courses for medical students, primary teaching responsibility will be in a team-taught dental physiology course with the eventual assumption of directorship of that teaching program.

Evidence of research ability and productivity is necessary. The field of research should be primarily in the area of pulmonary physiology, pulmonary blood flow, or cardiovascular physiology. Successful applicant is expected to conduct independent research programs and guide graduate students. Salary is approximately \$18,000.

The Department of Physiology and Biophysics occupies relatively new facilities and has extremely well-equipped laboratory and office space.

Individuals interested in this position should send a curriculum vitae and three letters of recommendation to: **Thomas B. Calhoun, Ph.D., Professor and Chairman, Department of Physiology and Biophysics, University of Louisville School of Medicine, Health Sciences Center, Louisville, Kentucky 40201**. *An Equal Opportunity/Affirmative Action Employer.*

FACULTY POSITION IN INDUSTRIAL AND ENVIRONMENTAL HYGIENE. Position available with graduate level teaching, research, and service responsibilities in industrial hygiene and safety. Engineering or physical science background, advanced degree and experience in industrial hygiene preferred. The department provides a unique opportunity for career development. Those interested should send inquiries and curriculum vitae to **Dr. R. R. Suskind, Director, Department of Environmental Health, University of Cincinnati, Cincinnati, Ohio 45267**. *An Equal Opportunity/Affirmative Action Employer.*

The Department of Radiological Sciences at the University of California, Irvine, College of Medicine, invites applications at assistant professor level for a **PHYSICIST or ENGINEER** to join the newly developed **MEDICAL IMAGING TEAM**. Candidates must possess a Ph.D. degree in physics or engineering and have experience in medical imaging research in the field of diagnostic radiology. They must be able to supply evidence of original and innovative research in the above field. The successful candidate, in addition to developing a strong research program, supervising graduate students, and teaching in the graduate program in radiological sciences, will have hospital responsibilities in the Division of Diagnostic Radiology. It should be emphasized that only candidates with extensive experience in medical imaging will be considered for this position. *Applications from all qualified candidates are welcome; minorities and women are encouraged to apply.* Applications, which must include a short biography and copies of any publications, should be sent to:

Eric N. C. Milne, M.B., Ch.B., F.F.R.
Professor and Chairman
Department of Radiological Sciences
University of California, Irvine
College of Medicine
Irvine, California 92717

Closing date: 31 May 1977.

POSITIONS OPEN

FACULTY POSITION: COMPARATIVE MAMMALIAN PHYSIOLOGY. Applications are invited for this position at the rank of assistant professor starting fall 1977 or spring 1978. Closing date for applications: 30 May 1977. Preference will be given to candidates who have had teaching experience, postdoctoral training, and research accomplishments. Responsibilities include: teaching of general physiology and freshman biology. The applicants will be expected to develop advanced courses in their specialty as well as to be active in research and direct graduate students. Please send a curriculum vitae and the names of three references to: **Dr. Manuel L. Ibanez, Chairman, Faculty Screening Committee, Department of Biological Sciences, University of New Orleans, New Orleans, Louisiana 70122**. (A Member of the Louisiana State University System.) *Equal Opportunity/Affirmative Action Employer.*

The Australian National University seeks to appoint a **HEAD** of the Research School of Earth Sciences to succeed Professor Anton Hales, the school's foundation director, who leaves the university late in 1977. The person to be appointed will have academic experience within an area appropriate to the school and a substantial interest in the solid and fluid earth sciences. The school, established in 1973, with as its nucleus the then existing Department of Geophysics and Geochemistry, has continued to work in these areas and moved into research in economic geology, geophysical fluid dynamics, and global geodynamics. The director will hold a chair in the university until retiring age. Tenure of the office of director will be determined by the university in consultation with the person recommended. Those who may be interested in being considered for this appointment are invited to write as soon as possible to the **Vice-Chancellor, Australian National University, P.O. Box 4, Canberra, ACT 2600, Australia**, from whom further information may be obtained.

IMMUNOLOGIST—POSTDOCTORAL

Positions available as trainee or research associate to study the effect of environmental toxicants on the immune response in vertebrates. Funding expected for at least 2 years. Limited to U.S. citizens. Opportunity to interact with very vigorous immunology group. Send résumé, transcripts, and two letters of reference by 1 June to **Dr. R. D. Hinsdill, Center for Environmental Toxicology, Bacteriology Building, University of Wisconsin, 1550 Linden Drive, Madison, Wis. 53706**.

*An Equal Employment
Education Institution (Title IX/Title VI)*

University of North Carolina-Chapel Hill invites applications from **MARINE MICROBIAL ECOLOGISTS** for a faculty research position at the Institute of Marine Sciences in Morehead City. The appointee will develop independent research programs and may participate in teaching. Rank of assistant or associate professor determined by candidate's qualifications. Send résumé including past grant support, reprints, and three references to: **Dr. Jan J. Kohlmeier, Chairman, Search Committee; University of North Carolina-Chapel Hill, Institute of Marine Sciences, Morehead City, N.C. 28557** by 15 August 1977. *An Equal Opportunity/Affirmative Action Employer.*

PHYSICAL OCEANOGRAPHER

Applications are invited from persons holding a Ph.D. in oceanography or marine sciences and whose interests lie in estuarine lagoon and nearshore continental shelf circulation processes. The incumbent will be expected to develop an innovative hydrographic/oceanographic program in cooperation with presently established, fully supported research programs in estuarine and oceanic biology and chemistry. Institutionally owned surface research vessels and manned submersibles are available to implement research. Postdoctoral experience preferable, but exceptionally qualified recent doctorates will also be considered. Salary and rank competitive and commensurate with experience. Starting date: 1 September 1977. Send curriculum vitae, a brief statement of proposed research goals, and the names of at least three references by 15 July 1977 to:

Dr. Robert S. Jones
Search Committee
Harbor Branch Foundation, Inc.
RFD 1, Box 196
Link Port, Ft. Pierce, Fla. 33450

Harbor Branch Foundation, Inc., is an Affirmative Action/Equal Opportunity Employer.

**FACULTY POSITION
IN
FOREST MENSURATION**

Qualifications:

Ph.D. with an emphasis on quantitative analysis applicable to forestry; a bachelor's or master's degree with a major in forestry.

Strong quantitative background in forest mensuration and in such fields as mathematics, statistics, computer science, and operations research.

General knowledge and field experience in forest management, silviculture, remote sensing, and/or other related forestry fields.

Duties:

Teaching undergraduate and graduate courses in forest mensuration, growth and yield determination, and related topics; including participation in teaching of summer field courses, student advising, and guidance of graduate students.

Individual and cooperative research dealing with forest growth and yield in relation to site factors and management inputs, improvement of forest measurement methods, and related topics.

Serve on academic and administrative committees for the department, college, and campus.

Salary and rank:

The 11-month appointment is expected to be at the assistant professor rank (salary range approximately \$18,000 to \$21,000), with the level depending upon qualifications.

Applications, together with résumé, transcripts, personal statement of interest, and the names of three references, should be sent by 1 August 1977 to

**Professor Lee C. Wensel
Department of Forestry and Conservation
College of Natural Resources
University of California
Berkeley, Calif. 94720**

Applicants should arrange to have the three letters of reference sent to the above address.

Women and minority candidates are encouraged to apply. The University of California is an Equal Opportunity Employer.

Boys Town Institute for Communication Disorders in Children has three permanent research positions available in an institute devoted to treatment of, and research related to, disorders of hearing, speech, and language in children. Academic appointment in Department of Otolaryngology and Human Communication, Creighton University School of Medicine; level based on applicant's experience. Start-up funds available. Teaching is optional. Competitive salary structure and comprehensive benefits program. Appointments in multi-disciplinary research department with independent laboratories conducting basic and applied research in physiology, anatomy, psychoacoustics, speech and language development, communication engineering, and animal behavior. Applicants must have demonstrated research productivity in areas related to human communication and/or its disorders.

(i) Neuroanatomist with strong background in auditory nervous system; interest in peripheral auditory system preferred, but will consider CNS-oriented candidate willing to learn additional techniques.

(ii) Experimental psychologist, or speech and hearing scientist, to head laboratory conducting research on normal and/or abnormal development of speech and language; narrow specialty less important than demonstrated quality of research.

(iii) Ph.D.-level, research oriented electrical engineer, to head combined research laboratory and electronic design and maintenance facility. Position requires mini-computer background, communication theory, and some experience in electroacoustics.

Send vitae, representative reprints and names of three references to C. S. Watson, Director of Research, The Boys Town Institute for Communication Disorders in Children, 555 N. 30th Street, Omaha, Nebraska 68131.

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

The Department of Radiological Sciences at the University of California, College of Medicine, Irvine, invites applications at associate or full professional level for the post of

CHIEF OF DIAGNOSTIC RADIOLOGY

at the University of California, Irvine, Medical Center.

Candidates must be Board-certified (or equivalent) radiologists with extensive experience in clinical radiology and a demonstrated ability to administer an academic clinical department. This position is supported by a business manager, a technical services manager, and five administrative assistants. A new department of radiology is to be built and is presently at an advanced planning stage. The successful candidate, in addition to taking full charge of the clinical diagnostic radiological service in the present department, would be expected to take a vigorous part in the planning processes, selection of equipment, and recruitment of new faculty.

The radiology residency training program at the University of California, Irvine, is completely integrated with the Long Beach Veterans Administration Hospital and Long Beach Memorial Hospital, and there are now 37 residents in the program. The new chief would take a major role in residency training and be expected to develop his/her own personal research program. Outstanding facilities for research exist, including a developing Medical Imaging and Biophysics Center and an ongoing graduate program in radiological sciences. *Applications from all qualified candidates are welcome; minorities and women are encouraged to apply.* Applications, including a biography and copies of any publications, should be sent to:

**Eric N. C. Milne, M.B., Ch.B., F.F.R.
Professor and Chairman
Department of Radiological Sciences
University of California, Irvine
College of Medicine
Irvine, California 92717**

Closing date: 31 May 1977.

Geophysicist

**GS-14: Salary Range \$28,725-\$37,347
GS-15: Salary Range \$33,789-\$43,923**

NAVAL OCEAN RESEARCH & DEVELOPMENT ACTIVITY (NORDA) BAY ST. LOUIS, MISSISSIPPI

The successful applicant will become the Program Director of the Marine Geology and Geophysics Program of NORDA's ORO, formerly ONR 480. He will be responsible for initiating, fostering, coordinating, and reviewing a basic research program leading to the better understanding of the ocean floor, its physical and acoustic properties, and its geophysical fields. This is a contract research program, 90% at the academic institutions, and is presently \$5,000,000 per year. Although the program is unclassified, the program is oriented toward the mission problems of the Navy. Education and experience at the PhD level, as demonstrated by published articles, management experience and an ability to make lucid technical presentations is re-

quired. It is desirable that applicants have considerable seagoing experience.

Interested candidates should submit personal qualifications statement, Standard Form 171, including publications and references by July 1, 1977 to

**Civilian Personnel Office
(Code 123)
Annct. #77-016
Naval Ocean Research
and Development Activity
Bay St. Louis, MS. 39529
Tel: (601) 688-4640**

*This position is in the Federal Career Service with all Civil Service benefits.
An Equal Opportunity Employer*

POSITIONS OPEN

MEMBRANE BIOCHEMIST with postdoctoral experience (prokaryotic or eukaryotic). Assistant/associate professor level (depending on qualifications) expected to establish independent research program and direct graduate students. Teaching includes participation in the medical microbiology course and development of graduate course in microbial biochemistry. Salary competitive. Available 1 September 1977. Send curriculum vitae and names of three references to: **Search Committee, Department of Microbiology, Georgetown University, Schools of Medicine and Dentistry, Washington, D.C. 20007.** *An Equal Opportunity/Affirmative Action Employer*

The University of Mississippi Medical Center, Department of Pharmacology and Toxicology announces the availability of two positions: (i) **NEURO-ELECTROPHYSIOLOGIST/PHARMACOLOGIST** (available March 1978); (ii) **PHARMACOKINETICIST, DRUG METABOLISM OR GENERAL PHARMACOLOGY** (available July 1977). Both positions are at the assistant professor level. Candidates should have Ph.D. degree and postdoctoral experience. All should be interested in teaching and the development of independent research program. Send curriculum vitae, statement of teaching or research goals, and the names of three references to **Dr. William O. Berndt, Department of Pharmacology and Toxicology, the University of Mississippi Medical Center, Jackson, Miss. 39216.** *The University of Mississippi Medical Center is an Equal Opportunity Employer, M/F.*

NEUROENDOCRINOLOGIST

The Division of Surgical Oncology is seeking a candidate for a research faculty position as assistant professor or associate professor. The area of research needed is in the field of neuroendocrinology/endocrinology cum physiology, as applied to research in neoplasia. Applicants should have a Ph.D. and be able to conduct independent research as well as supervise research of fellows and graduate students. Send curriculum vitae and bibliography to **T. K. Das Gupta, M.D., Ph.D., Head, Division of Surgical Oncology, University of Illinois Medical Center, 840 South Wood Street, Chicago, Illinois 60612.** *The University of Illinois is an Equal Opportunity Employer.*

PLANT ECOLOGIST/ENVIRONMENTALIST: Faculty position available 1 July 1977. Ph.D. required, with prime emphasis on quality teaching. Teaching responsibilities include botany and environmental studies with participation in ecology and opportunity to develop a specialty course. The successful candidate will be expected to contribute to the development of the environmental studies program and supervise the college greenhouse and herbarium. Applicants should send curriculum vitae and three letters of reference to: **Dr. Martin G. Naumann, Environmental Studies, Simon's Rock Early College, Great Barrington, Mass. 01230,** before 1 June. *Equal Opportunity/Affirmative Action Employer*

UNIVERSITY OF PUERTO RICO MEDICAL SCIENCES CAMPUS SCHOOL OF MEDICINE

Applications are invited for several full-time **POSITIONS** in the following departments:

Anatomy: teaching responsibilities in either gross anatomy, neuroanatomy, or histology.

Microbiology: teaching responsibilities in either immunology or microbiology.

Parasitology: teaching responsibilities in tropical parasitology with responsibility for developing a program in this area.

Physiology: teaching responsibilities with emphasis in cardiovascular physiology.

Pharmacology: teaching responsibilities in molecular pharmacology and CNS pharmacology.

Openings are available immediately at all levels to well-qualified individuals committed to research and teaching. Excellent research opportunities and facilities. Major primate center and marine biology station are available in addition to the new well-equipped medical sciences building. The language of instruction is either Spanish or English.

Dr. Sven O. E. Ebbesson
Associate Dean
Biomedical Sciences
Medical Sciences Campus—University of Puerto Rico
G.P.O. Box 5067
San Juan, Puerto Rico 00936

POSITIONS OPEN

The **PHYSICS DEPARTMENT** of the University of California, Berkeley, expects during the next 2 years to be making **one or two appointments** at the assistant professor level. Preferred areas of research are astrophysics, atomic and plasma physics, condensed matter physics, nuclear physics, and particle physics.

Applicants should write before 1 July 1977 to the **Chairman of the Physics Department, University of California, Berkeley, Calif. 94720,** giving curriculum vitae, publication list, and references. *The University of California is an Affirmative Action Employer. Minority and women candidates are encouraged to apply.*

POSTDOCTORAL POSITION

Postdoctoral research associate position. Available 1 September 1977. Biochemist to work on isolation and characterization of bacterial proteinases and human serum proteinase inhibitors. Opportunity to collaborate with M.D. and Ph.D. researchers at large multidisciplinary clinic. \$12,000 per year. Send curriculum vitae to **Dr. Ronald C. Roberts, Marshfield Medical Foundation, Marshfield, Wis. 54449.** *Equal Opportunity/Affirmative Action Employer.*

POSTDOCTORAL POSITION in muscle physiology with strong emphasis on biochemical and biophysical correlates. The work concerns sarcomere dimensions, activation, force generation, speed of shortening, and stiffness properties. Attention would focus on cardiac muscle with emphasis on comparison of normal and hypertrophied muscle. Send résumé to **Dr. F. J. Julian, Department of Muscle Research, Boston Biomedical Research Institute, 20 Staniford Street, Boston, Mass. 02114.** *An Equal Opportunity Employer.*

POSTDOCTORAL POSITION available summer 1977 for graduate in genetics, biology, or biochemistry interested in studying X-inactivation and gene expression in early mammalian development. Apply to: **Dr. Verne M. Chapman, Department of Molecular Biology, Roswell Park Memorial Institute, 666 Elm Street, Buffalo, N.Y. 14263.**

UNIVERSITY OF ILLINOIS COLLEGE OF MEDICINE SCHOOL OF BASIC MEDICAL SCIENCES AT URBANA-CHAMPAIGN

Position Opening

PROFESSOR OF ANATOMY: responsible for supervision of curricula in gross anatomy, microscopic anatomy, and neuroanatomy for medical and other health professional students within the framework of a unique, guided, self-study program. Will provide leadership in initiation of a graduate program in anatomical sciences. May hold joint appointment in University of Illinois, Urbana-Champaign, department as school is not departmentalized.

Qualifications: Ph.D. and/or M.D. with formal training in anatomy, distinguished record in research in biological sciences, and experience in medical education.

Appointment: position is a permanent full-time faculty appointment; salary open.

Position available: 21 August 1977, for the 1977-1978 academic year. Closing date for applications: in order to receive full consideration, applications should be received by 10 June 1977.

Contact: Send curriculum vitae to

Charles H. Hockman, Ph.D.
Chairperson, Search Committee
School of Basic Medical Sciences
University of Illinois
Urbana, Illinois 61801
Telephone: 217-333-9749

The University of Illinois is an Affirmative Action/Equal Opportunity Employer and encourages applications from minorities and women.

POSITIONS OPEN

NUTRITION—TWO POSITIONS. Assistant professor level. Available fall 1977. Both involve graduate and undergraduate teaching, advising, research; require doctorate and experience. (i) Human nutrition; nutrition, growth, and development. (ii) Community nutrition, nutrition education. Contact: **Dr. Miriam Brush, Acting Chairperson, Department of Home Economics, Douglass College, Rutgers University, New Brunswick, N.J. 08903.** *Equal Opportunity Employer.*

PHYSIOLOGICAL PSYCHOLOGIST

The Division of Behavioral Neurology, New York University School of Medicine, has an immediate opening for a physiological psychologist with research experience in the area of food intake regulation. Consideration will be given applicants at the postdoctoral level as well as candidates who are seeking a faculty position. Send curriculum vitae, list of publications, and names of three references to **David Quartermain, Ph.D., Director, Division of Behavioral Neurology, Department of Neurology, New York University School of Medicine, 550 First Avenue, New York 10016.**

POSTDOCTORAL POSITION available immediately for sequencing tetanus toxin. Salary \$11,000 per year. Send curriculum vitae to **Dr. John P. Robinson, Department of Microbiology, Vanderbilt University School of Medicine, Nashville, Tenn. 37232.**

An Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL POSITION in muscle physiology and biochemistry. Immediate opening for individual to work on comparative muscle fine structure, mechanics, and/or biochemistry. Background in physiology desirable. Salary \$12,000 to \$14,000 depending on experience. Send curriculum vitae and names of three references to: **Dr. M. M. Dewey or Dr. B. Walcott, Department of Anatomical Sciences, Health Sciences Center, State University of New York, Stony Brook, New York 11794.** *Equal Opportunity/Affirmative Action Employer.*

POSTDOCTORAL RESEARCH ASSOCIATE

We anticipate funding for a research position in connection with one of several ongoing projects in fungal genetics. Applicants should have experience in isolating and characterizing biochemical mutants of yeast or other closely related organisms. A demonstrated, independent research capability is required and preference will be given to prior postdoctoral experience. Applications, including list of publications and names of three references, must be received before 15 June 1977. Please send all materials to **Dr. C. Edward Hathway, Department of Physics, Kansas State University, Manhattan, Kansas 66506.**

POSTDOCTORAL RESEARCH POSITION

Available immediately for Ph.D. in genetics, biochemistry, or cell biology with interest in genetic toxicology. Experience in cell culture, mutagenesis, or growth of lymphoid cells is desirable. Position would include modest budget for supplies, travel, and minimum salary of \$11,000 per year. The Chemical Hygiene Fellowship is a toxicology laboratory in its 39th year and offers opportunities for collaboration in several areas of toxicology and applied pharmacology. Inquiries to:

A. R. Ryrholm
Chemical Hygiene Fellowship
4400 Fifth Avenue
Pittsburgh, Pennsylvania 15213
An Equal Opportunity Employer

RESEARCH TECHNOLOGIST

Immediate first-shift opening for a research technologist to supervise the establishment of a new laboratory for a pioneering tissue cell culture project involving human derived tissue. Minimum educational requirements: B.S. degree in biology, biochemistry, or equivalent. Prefer M.S. degree in one of the cell culture disciplines. Minimum of 2 years' work experience in the tissue cell culture field required. Send résumé to:

J. A. Casaregola
Cleveland Clinic
Employment Office
9500 Euclid Avenue
Cleveland, Ohio 44106

An Equal Opportunity Employer

EPIDEMIOLOGIST

Ph.D. for Environmental Projects

Battelle Memorial Institute is a world leading independent contract research organization for industry and government. We seek a professional with a Ph.D. (or equivalent) with demonstrated ability for designing and managing epidemiological research projects.

You'll work primarily with ecological and medical science professionals in addressing the effects of environmental problems on human populations.

We offer an excellent salary and benefits program plus an opportunity to enjoy challenging and meaningful assignments. Send resume or "c.v." with salary history and requirement in confidence to: **Les Hill, Department S**



Battelle

Columbus Laboratories

505 King Avenue, Columbus, Ohio 43201

An Equal Opportunity Employer

Clinical Research Associate

Cordis Corporation, a recognized leader in cardiac pacemaker technology, has a position available for a Clinical Research Associate. The individual will be responsible for preparing protocols and monitoring clinical investigations of cardiovascular and/or neurosurgical medical devices. Duties will also include data analysis and writing of reports. The position requires a scientist who can interface with clinicians and engineers with facility.

A master's degree in a biological science or engineering is required. Ph.D. is desirable. Experience in a health care environment, technical research, or cardiovascular physiology helpful.

Send curriculum vitae and summary of professional interests to:

H. L. Powell
Professional Relations
Cordis Corporation
International Headquarters
3915 Biscayne Blvd.
Miami, Florida 33137

An Equal Opportunity Employer M/F

cordis.

CLINICAL DIRECTOR NATIONAL INSTITUTE OF DENTAL RESEARCH

The National Institute of Dental Research is seeking a Clinical Director for the Intramural Research Program. The incumbent of this position will be responsible for directing and evaluating the Institute's present multi-disciplinary activity in clinical research and for developing a major program in the prevention, diagnosis and treatment of periodontal disease. He/she also will have responsibility for all matters, both professional and administrative, relating to the care of patients in the Institute's Dental Clinic.

Applicants should have a D.D.S. or D.M.D. degree (or equivalent) and specialty training in periodontology. The position requires a high degree of scientific knowledge, leadership and executive ability.

Position will be filled by appointment to the U.S. Public Health Service Commissioned Corps or to a top U.S. Civil Service Grade, salary ranging up to \$47,500 depending upon qualifications. (Selection for and classification of the Civil Service position are subject to Civil Service Commission Approval.) Letters of interest, SF-171 Personal Qualifications Statement, curriculum vitae, and bibliography should be sent by July 15, 1977 to the chairman of the Search Committee: Dr. Helmut A. Zander, c/o Dr. Marie Nylen, National Institutes of Health, Public Health Service, Building 30, Room 211, 9000 Rockville Pike, Bethesda, Maryland 20014. Telephone: (301) 496-1483.

NATIONAL INSTITUTES OF HEALTH

An Equal Opportunity Employer M/F.

IMMUNOLOGIST- PhD

DIAGNOSTICS R & D

A challenging growth oriented position in the General Diagnostics Research and Development Division of the Warner-Lambert Research Institute requires a PhD Immunologist with several years experience in Molecular Biology.

Responsibilities include the development of diagnostic immunoassays using fluorescent probes as well as researching novel immunoassays with support from Synthetic Organic Chemists.

We offer commensurate salary and a fine benefits package in addition to attractive modern working conditions. Generous relocation provided. Please submit your curriculum vitae in confidence to Mr. R. Benthien,

**WARNER-LAMBERT
RESEARCH INSTITUTE
DIVISION OF**



WARNER-LAMBERT

201 Tabor Road, Morris Plains, N.J. 07950
Equal Opportunity in Action M/F

POSITIONS OPEN

PRESIDENT UNIVERSITY OF CINCINNATI

The Presidential Search Committee invites nominations and applications for the position of president of the university.

The University of Cincinnati is a comprehensive university with an enrollment of 32,205 undergraduates and 6,069 graduates with 18 separate colleges. It will assume full state status 1 July 1977.

Application deadline is 1 July 1977. Forward nominations and applications to:

Secretary, Presidential Search Committee
201 Administration Building
Mail Location #62
University of Cincinnati
Cincinnati, Ohio 45221

Equal Opportunity, Affirmative Action Employer

RESEARCH ASSOCIATE. Applied mathematicians and/or fluid mechanicians needed for research on mathematical modeling of lake currents and aquatic ecosystems. Candidates should have common sense and competence in numerical methods and fluid mechanics. Competence in or willingness to learn biology and chemistry is desirable. Applicants should send résumé and references to **Professor Wilbert Lick, Department of Earth Sciences, Case Western Reserve University, Cleveland, Ohio 44106.** *An Equal Opportunity Employer.*

RESEARCH ASSOCIATE. Postdoctoral experience required. Research on the translation of messenger RNA in sea urchin and plant embryos. Experience in nucleic acid hybridization and in vitro protein synthesis desirable. Position available immediately for up to 3 years. Send curriculum vitae and names of references to: **Doctors B. Brandhorst, D. Fromson, or D. P. S. Verma, Department of Biology, McGill University, 1205 McGill Avenue, Montreal, Quebec, Canada H3A 1B1.**

SENIOR TOXICOLOGIST

We are seeking a senior toxicologist with a Ph.D. or D.V.M. who will be involved in safety testing of new drugs and other chemical compounds, the design of experiments, preparation of protocols, and the interpretation of clinical laboratory data. International Research and Development Corporation is a rapidly expanding contract research laboratory located near Kalamazoo, Michigan. The starting salary is open and the benefits package is excellent.

Please submit résumé including salary history to:

J. M. Ragen, Director, Personnel
International Research and
Development Corporation
Mattawan, Michigan 49071

Equal Opportunity Employer

SYSTEMS ECOLOGIST. Position available fall 1977. Requires teaching of ecology, biometrics, general biology at undergraduate level. Ph.D. with potential for research required. Strength in mathematics and botany desired. Application postmark deadline: 4 June 1977. Send curriculum vitae, statement of teaching and research goals, and list of three references to **B. Dennis Sustare, Department of Biology, Clarkson College, Potsdam, N.Y. 13676.**

VERTEBRATE PALEONTOLOGIST. Position for Ph.D. with interest in Florida Cenozoic, preferably nonmammalian emphasis. Visiting assistant curator, 12 months, \$15,000 to \$17,000; 1-year, possibly continuing, appointment; teaching opportunities. Deadline: 1 June 1977. Begins 26 September 1977. Send letter naming three references and curriculum vitae to **Search Committee, Department of Natural Sciences, Florida State Museum, University of Florida, Gainesville, 32611.** *An Equal Opportunity/Affirmative Action Employer.*

POSITIONS OPEN

RESEARCH ASSOCIATE IN PHARMACOLOGY

The Department of Pharmacology, Columbia University, College of Physicians and Surgeons, seeks applications from candidates with research experience in cardiac electrophysiology and tissue culture techniques. The candidates should have at least 2 years of postdoctoral training. Candidates must provide evidence of ability to conduct independent research in areas related to cellular electrophysiology and pharmacology and autonomic physiology and pharmacology. They should be familiar with tissue culture techniques for cardiac muscle and for autonomic neurons, with cellular electrophysiologic techniques for the study of resting and action potentials of cardiac cells in culture, and with electrophysiologic techniques for the study of adrenergic and cholinergic agonists and antagonists. Teaching duties include active participation in graduate student training and in the pharmacology courses offered to graduate, medical, and dental students. Interested applicants should send a current curriculum vitae and the names of three references to: **Dr. Brian F. Hoffman, Columbia University, Department of Pharmacology, 630 West 168 Street, New York, N.Y. 10032.** *Columbia University is an Affirmative Action/Equal Opportunity Employer.*

REQUEST FOR PROPOSALS

Large private corporation is searching for **RESEARCH PROPOSALS** oriented toward the psychosociological well-being of domestic dog and dog owner relationships. The request is purposely broad in order to solicit as many new research proposals as possible. For further information, please contact:
Box 154, SCIENCE

FELLOWSHIPS

FELLOWSHIPS. Postdoctoral training program in Clinical Pharmacology, Michigan State University Medical Center for individuals with an M.D. degree or equivalent who are U.S. citizens or permanent residents. Individuals with a Ph.D. degree in a scientific discipline relevant to clinical pharmacology will also be considered. Send curriculum vitae to **Andrew M. Michelakis, M.D., Ph.D., Director, Clinical Pharmacology Program, Life Sciences Building, Michigan State University Medical Center, East Lansing, Michigan 48824.**

POSTDOCTORAL FELLOWSHIP

Position available immediately for the study of the metabolism of vascular smooth muscle. Background of applicant should include training in biochemistry and/or physiology. Send curriculum vitae and names of three references to **Dr. Richard Odessey, Department of Physiology, University of Virginia Medical School, Charlottesville, Virginia 22901.** *Equal Opportunity/Affirmative Action Employer.*

POSTDOCTORAL FELLOWSHIP, protein folding. Experience with protein and peptide purification methods desirable. Available 1 August, minimum stipend \$11,000 per year, renewable. Send résumé and reference letters to **Dr. D. Wetlaufer, Department of Chemistry, University of Delaware, Newark, Delaware 19711.** *An Equal Opportunity/Affirmative Action Employer.*

UNIVERSITY OF MELBOURNE

RESEARCH FELLOWSHIPS

Several fellowships are awarded twice each year for full-time research in any department of the university. Eligibility: Ph.D. or at least equivalent research experience. Tenure: 1 to 2 years. Salary: \$13,850 (Australian), \$649 annual increment, plus return air fare. Applications close 31 July 1977.

TRAVEL GRANTS AND GRANTS-IN-AID

Several grants-in-aid are also awarded twice each year to academics on salaried leave to conduct full-time research at the university. Applications close 31 July 1977. Detailed information is available from the:

Secretary for Graduate Studies
University of Melbourne
Parkville, Victoria 3052
AUSTRALIA

TRAINEESHIPS

POSTDOCTORAL TRAINEESHIPS IN MUSCLE BIOENERGETICS. Proteins, energetics, control, mechanical properties. Stipends depending on experience \$10,000 to \$13,600. Send curriculum vitae and names of references to: **Dr. J. Gergely, Department of Muscle Research, Boston Biomedical Research Institute, 20 Staniford Street, Boston, Mass. 02114.**

TRAINING PROGRAM

A new **GRADUATE PROGRAM** in electron microscopy will be offered this fall at Hofstra University. It will provide a 2-year training experience in postgraduate biology and electron microscopy. Courses will include electron microscopy for the biologist, electron microscopic analysis, servicing the electron microscope, scanning electron microscopy, and advanced techniques and theory. A limited number of teaching assistantships are available as are University fellowships, internships, and research assistantships. Additional information may be obtained from **Dr. Gary W. Grimes, Director of the Program in Electron Microscopy, Biology Department, Hofstra University, Hempstead, N.Y. 11550.** Telephone: 516-560-3261.

COURSES

ADVANCED TECHNIQUES IN ELECTRON MICROSCOPY FOR THE BIOMEDICAL SPECIALIST

1 to 10 June 1977

Laboratory in Cellular Biology
Faculty of Arts and Sciences
New York University

This course is designed to facilitate the acquisition of new techniques by the biomedical researcher who is already conversant with the principles of electron microscopy. A hands-on, multilevel approach permits entry into new technical areas with minimal, moderate, or complete involvement.

Autoradiography, electron diffraction, stereology, HRP-protein conjugation and specimen preparation for TEM, SEM, STEM, HVEM, and x-ray microanalysis are emphasized. AMR, Cambridge, JEOL, and Zeiss scanning electron microscopes and JEOL and Philips transmission electron microscopes with energy dispersive x-ray systems and laboratory instrumentation for sectioning, drying, and coating are available. Correlation lectures are presented in diagnostic pathology and experimental biology. The faculty includes Harry Carter, Patrick Echlin, David Joy, Myron Ledbetter, Barbara Panessa, Lee Peachey, and Richard Stevens. For information concerning the program, please contact: **Joseph F. Genaro, Jr., Laboratory of Cellular Biology, Faculty of Arts and Science, New York University, Washington Square, New York, N.Y. 10003.** Telephone: 212-598-3763.

MARKET PLACE

ELECTRON MICROSCOPE FOR SALE

Hitachi HS-7 electron microscope, good condition, resolution approximately 10-12 Ångstrom units; magnification (meter read-out) 1,000 to 100,000 diameters; double condenser; two rotary pumps; one oil diffusion pump; cold finger; camera; 18 pictures each 3/4 x 4; photometer; recirculating water unit optional; can be put under service contract with Perkin-Elmer-Hitachi Division. Excellent teaching instrument; good research instrument.

EVAPORATOR FOR SALE

Siemens evaporator; never used; for electron microscopy preparations: carbon coating, metal evaporation, shadow casting, replica formation, and so forth.

Contact: **Dr. Lawrence Herman, Department of Anatomy, New York Medical College, Valhalla, N.Y. 10595.** Telephone: 914-347-5630.

MICROBALANCES
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PERKIN-ELMER

THE NEW DIALUX® 20 DEFINES THE STATE-OF-THE-ART IN MICROSCOPE DESIGN AND OPTICS.

The Dialux 20 embodies the most recent Leitz® developed refinements in the technology of light microscopy. The new instrument offers a number of significant innovations.

The universal condenser is truly universal. It can be used for brightfield, darkfield, phase and differential interference contrast. It uniquely permits Koehler illumination down to an objective magnification of 1.6:1.

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Every technological advance is also coupled with human engineering to assure operational ease and reduce fatigue.

To mention only one example, the objectives are color-coded

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Fine adjustment conveniently moves the object stage over the entire 35mm range of coarse adjustment. And three different beam splitters are provided in the photo tube to direct 10%, 50% or 100% of the light to the eye, the rest to the camera.

The microscope stand is unusually stable. And its broad base is completely enclosed to protect optical elements even under conditions of rigorous laboratory use.

The Dialux 20 is equipped with an interchangeable lamp housing for light sources up to 100W to meet diverse applications. A second version, the Dialux 20 EB, offers a built-in 20W halogen lamp and voltmeter for routine use.

The Dialux 20. An outstanding example of superb optical and mechanical engineering. We urge you to evaluate it for yourself.

For more information, contact E. Leitz, Inc., Dept. SC-5, Rockleigh, N.J. 07647.



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Photomicrograph by John Delly, McCrone Research Institute

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Worth a close look.