

PRODUCTS and MATERIALS

Blood Gas Analyzer

The IL 713 measures pH , pCO_2 , and pO_2 and calculates base excess and bicarbonate and carbon dioxide content. The results are displayed or printed in less than 70 seconds. Sample splitting is eliminated. Operator depresses a switch and the aspirator needle retracts after sampling and the entire system is washed from sample tip to waste exit. A sensor warns of and identifies ruptured membranes. Other sensors monitor tank temperature and indicate when a waste bottle must be emptied. Instrumentation Laboratory. Circle 860.

Microscope System

The series BH microscope (Fig. 1) consists of three basic stands and numerous accessories. The user may select components to construct a system suitable to his needs from general microscopy to any of the specialized optical and microscopic techniques in current use. The BHA stand has an interchangeable five-power nosepiece and an interchangeable light source. The BHB stand has a fixed five-power nosepiece and an interchangeable light source. The BHC stand has a fixed five-power nosepiece and a fixed light source. Other special features include planetary gear focusing, unit construction of illuminator bulb and socket, and integral low-voltage transformer. All prisms are optically coated for maximum light transmission. Various combinations of viewing and photographic tubes are available and there is a selection of optics, too. Olympus Corporation of America. Circle 833.

Metallographic Specimen Polisher

VARI/POL is a polisher and grinder. It offers continuously adjustable speeds to 500 revolutions per minute and automatic adherence to a selected speed under varying loads. The bowl is

equipped with a flushing jet and the wheel is washed by a swing spout that is adjustable in height. Speed selector and indicator are front-mounted. The device is available with either an 8- or 12-inch bronze polishing wheel. Wheels are balanced and interchangeable. Leco Corporation. Circle 843.

Position-Sensitive Flow Proportional Counter

The PSD-100 detector system features 200-micrometer spatial resolution on a 100-millimeter device. Applications include medical and biological studies of localized radioactive sources, x-ray crystallography, and nuclear spectroscopy among others. Efficiency exceeds 80 percent in detection and counting for x-rays of 35 to 50 kiloelectron volts. It is also capable of detecting x-rays with energies up to 140 kiloelectron volts. Other features include a two-stage regulator to maintain gas flow and pressure and an optional axis positioner. Tennelec, Incorporated. Circle 841.

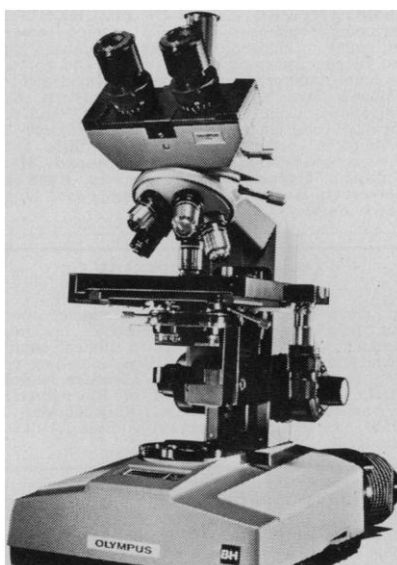


Fig. 1. The Olympus BH microscope system enables the user to select optics, light sources, and accessories to design for his specific applications.

Scanning Electron Microscope

Novascan 30 has a resolution of 125 angstrom units. Magnification range is from 5 to 150,000 power at all scanning modes and in the television mode. The specimen chamber features five ports to accept accessories and detectors. A pushbutton allows the operator to lift off the pneumatic cover plate and column for access to the five-axis goniometer. Other important details include a camera system, a reduced raster in slow scan, 90-degree scan rotation, signal inversion, gamma contrast enhancement, magnification marker, a ± 20 -micron scan shift in X and Y, high energy backscatter, beam blanking, and others. Carl Zeiss, Incorporated. Circle 858.

Short Pipettes

Shortie pipettes offer better maneuverability in confined spaces as under hoods. They feature larger bore diameters to compensate for the reduced length. They are offered in 1-, 5-, 10-, and 25-milliliter sizes and they are disposable. Corning Glass Works. Circle 859.

Literature

Vitamin B₁₂ and Folic Acid by Radioisotope Assay is a brochure that includes etiology of deficiencies, methods of assay, and clinical applications. Damon/Medical Services. Circle 848.

Biomedical Research—Product Guide covers uses of products for applications including perfusion studies, tissue typing, physiology, virus isolation, and genetics. Pharmacia Fine Chemicals, Incorporated. Circle 849.

The Measurement of Solar Energy contains information on detection, conversion, characterization, and uses. International Light Incorporated. Circle 854.

Chromaflex Chromatographic Apparatus is a 48-page catalog for devices from disposable columns to scanners, recorders, and data reducers. Kontes Glass Company. Circle 855.

Newly offered instrumentation, apparatus, and laboratory materials of interest to researchers in all disciplines in academic, industrial, and government organizations are featured in this space. Emphasis is given to purpose, chief characteristics, and availability of products and materials. Endorsement by *Science* or AAAS is not implied. Additional information may be obtained from the manufacturers or suppliers named by circling the appropriate number on the Readers' Service Card (see pages 912A and 976C) and placing it in the mailbox. Postage is free.—RICHARD G. SOMMER

Personnel Placement

POSITIONS WANTED

Biochemist, Ph.D., neuropsychiatric diseases, human neurochemistry, psychotropic drugs and CNS. Established basic research program, many publications. Desires position involving clinical work with scope of basic research. Box 110, SCIENCE. X

Ecologist (Ph.D. 1974). Plant/terrestrial. Research interest in computer modeling of primary production. Background in soils and plants science. Seeks postdoctoral/research associate position in an interdisciplinary program. Box 111, SCIENCE.

Fisheries-Physiologist/Toxicologist, Ph.D. 1974. Four years of government experience. Bioassays. Neuromuscular pharmacology. Seeks industry, university, or government. Research, administration. Prefers western states. Box 112, SCIENCE.

Functional Morphologist, 41, with background in vertebrate paleozoology, comparative and human anatomy, and biomechanics seeks a senior position in a quality undergraduate institution. Teaching experience includes undergraduate, graduate, and professional school levels; interested in pursuing teaching excellence in a flexible environment. Research internationally recognized. Box 113, SCIENCE. X

Genetics, Evolution, Vertebrate Biology, Ph.D. Varied teaching and research experience. Publications. Desires teaching and/or research position. Box 114, SCIENCE. X

Wanted: undergraduate-oriented biology department where broadly trained **geneticist** (Ph.D. 1965) can contribute to innovative program. Experience in curriculum development; A.T., modular, and interdisciplinary teaching. Postdoctoral (human genetics). Sixteen years of professional experience (11 years full time at university). Available September. Box 115, SCIENCE. X

Historian of Psychology and Medicine, Ph.D. 1973. Teaching experience, research abroad, grants, several publications, highly recommended. Seeks academic position. Box 116, SCIENCE. X

Iranian National, B.S. pharmacy, Ph.D. chemistry-biochemistry, with 3 years of postdoctoral training, well acquainted with chemical and drug manufacturing and marketing, good training in biochemical and biomedical fields, seeks job with companies interested in operating in Iran and/or Mideast. Box 117, SCIENCE. X

Multidisciplinary mathematical modeling and computer simulation. M.S. E.E. 1968, undergraduate work in biology, literature research experience. Box 118, SCIENCE. X

Neurobiologist, Ph.D. June 1975. Teaching-research experience in general physiology and vertebrate CNS neurophysiology. Publications. Seeks academic/research position. Box 119, SCIENCE.

Neuroscientist: Ph.D. 1966, physiology. Grants, publications, 9 years of teaching experience medical and graduate schools, multidisciplinary programs. Seeks teaching/research position in neurobiology programs at liberal arts college. Box 120, SCIENCE. 3/21

Physical Organic Chemist, Ph.D. 1972. Seeks research position. Strong synthesis and instrumental background. Experience and publications in organic synthesis, photochemistry, and chemical carcinogenesis. Box 121, SCIENCE. X

Physiologist, Ph.D. 1958. Seeks senior faculty position in East. Ten years of experience in medical college as well as industrial background. Interested in reproductive biology and endocrinology. More than 100 publications. Box 122, SCIENCE. 3/21, 28; 4/4

Physiologist-Toxicologist, Ph.D. 1969. Postdoctoral and independent research on health effects, pharmacodynamics of pesticides, environmental agents using isolated perfused organs. Desire government, industry, or academic position. Box 85, SCIENCE. 3/14

Toxicologist, Ph.D. 1968. Publications in drug metabolism and identification. Graduate teaching and research experience in environmental, industrial, and forensic applications. Seeking position with government, academic, or forensic institution. Available immediately. Box 66, SCIENCE. 3/14, 28

POSITIONS WANTED

Psychobiologist, Ph.D. 1973. Seeking postdoctoral fellowship or teaching/research position in developmental neurobiology or psychobiology. Diverse research and teaching background in physiological, psychopharmacology, developmental, behavior genetics, histology, cell biology. Excellent skills in NS light and electron microscopy, electrophysiology, instrumentation, photography, operant conditioning. Box 123, SCIENCE. X

Zoologist, Ph.D. Seeks teaching or teaching-research position. Interests include invertebrate zoology, invertebrate physiology, parasitology. Box 54, SCIENCE. 3/14, 21, 28; 4/4, 11

POSITIONS OPEN

ANATOMISTS

One Histologist; one Gross Anatomist; secondary roles in gross or histology labs. Prefer experienced Assistant or Associate Professors able to direct graduate students. Research open; prefer SEM, TEM, histochemistry, anthropology, neuroscience. Rank/salary based on experience; 12-month contracts start 1 June-1 September 1975. Write: **Chairman, Department of Anatomy, Creighton Medical School, Omaha, Neb. 68178. Equal Opportunity/Affirmative Action Employer.**

ASSISTANT PROFESSOR OF ANATOMY—Anticipated. Ph.D. in anatomy to teach histology and gross anatomy of the human to preprofessional and first-year medical students. Joint appointment in Zoology and Basic Medical Sciences. Send curriculum vitae and three references to **Dr. Ronald Adkins, WAMI Coordinator, 102 Morrill Hall, Washington State University, Pullman, Washington 99163. Washington State University is an Affirmative Action/Equal Opportunity Employer.** Applications review beginning 30 April 1975.

ASSISTANT PROFESSOR DEPARTMENT OF ANESTHESIOLOGY

The University of Michigan is seeking an M.D. Board-qualified or eligible in anesthesiology. Duties include didactic and clinical instruction of residents and medical students in cardiovascular anesthesiology. Code #800FO. Send résumé to **Box 101, SCIENCE. A Nondiscriminatory/Affirmative Action Employer.**

ASSISTANT PROFESSOR OF BIOCHEMISTRY UNIVERSITY OF NEBRASKA

Permanent joint appointment in the Department of Chemistry and the School of Life Sciences, available 1 September 1975. Strong ability in research and teaching and postdoctoral experience required; research area open. Address inquiries to **Dr. N. K. Gupta, Chairman of the Search Committee, Department of Chemistry, University of Nebraska, Lincoln, Nebraska 68508, before 15 April. The University of Nebraska is an Equal Opportunity Employer.**

ASSISTANT PROFESSOR OF BIOCHEMISTRY beginning September 1975. To develop research, preferably in enzymology, protein chemistry, physical biochemistry, or related areas, and to teach graduate/undergraduate courses. Department is affiliated with developing Northeastern Ohio Universities College of Medicine. Ph.D. and postdoctoral experience required. Send résumé, description of proposed research and three letters of recommendation to: **Dr. Raymond Myers, Chairman, Department of Chemistry, Kent State University, Kent, Ohio 44242. An Equal Opportunity Employer.**

ASSISTANT PROFESSOR OF BIOENGINEERING

To teach graduate and undergraduate courses and help develop interdisciplinary respiratory research program. Experience in clinical environment desirable. Send applications, including complete curriculum vitae, to **Dr. Abraham Noordergraaf, Chairman, Department of Bioengineering, University of Pennsylvania, Philadelphia, Pa. 19174. An Equal Opportunity/Affirmative Action Employer.**

ASSOCIATE PROFESSOR OF ENVIRONMENTAL ENGINEERING. Senior position for candidate with strong background in physical-chemical water and waste water treatment. Teaching and research experience required, practical experience desirable. Leadership role anticipated. Position available immediately; salary open. Send résumé to: **Dr. C. H. Ward, Chairman, Department of Environmental Science and Engineering, Rice University, Houston, Texas 77001. Affirmative Action/Equal Opportunity Employer.**

POSITIONS OPEN

Applications are invited for a position, preferably the **ASSISTANT PROFESSOR LEVEL**, in the **DEPARTMENT OF BIOLOGY** at the University of California, San Diego. Candidates should have demonstrated the capacity to do meritorious, original, independent research and be prepared to participate in the teaching of introductory genetics. Preference will be given to candidates who specialize in the genetics of diploid organisms. Candidates should submit their curriculum vitae, including a list of publications, and three letters of recommendation. The position is available 1 September 1975 and applications or requests for further information should be sent to **Dr. Dan L. Lindsley, Chairman of the Biology Department Search Committee, B-022, University of California at San Diego, P.O. Box 109, La Jolla, California 92037. The University of California is an Equal Opportunity Employer.**

ASSISTANT PROFESSOR OF MICROBIOLOGY

A Ph.D. with a minimum of 2 years of postdoctoral training to develop a vigorous research program in some aspect of medical microbiology and to share with two other faculty members the teaching of public health microbiology. Send curriculum vitae and names of three references to: **L. J. Berry, Department of Microbiology, The University of Texas at Austin, Austin, Texas 78712. An Equal Opportunity/Affirmative Action Employer.**

ASSISTANT PROFESSOR OF PHYSIOLOGY AND BIOPHYSICS. Applications are invited for an Assistant Professorship in Physiology and Biophysics. Preference given to applicants with some postdoctoral experience. Applicants should have a strong research interest in respiratory physiology, cardiovascular regulation, or peripheral circulation. The successful candidate would assume teaching responsibilities in team-taught medical, dental, or nursing courses and is expected to carry out a productive research and graduate training program.

Applicants should send their curriculum vitae with names of three references to: **Dr. Thomas B. Calhoun, Chairman, Department of Physiology and Biophysics, University of Louisville School of Medicine, Health Sciences Center, Louisville, Kentucky 40201. An Equal Opportunity/Affirmative Action Employer.**

DALHOUSIE UNIVERSITY, HALIFAX, NOVA SCOTIA, CANADA, DEPARTMENT OF ANATOMY—ASSOCIATE OR ASSISTANT PROFESSOR. Applications are invited from persons with a Ph.D. or a professional qualification for the above position. Duties may include the teaching of Anatomy to medical, dental, or paramedical students. An ability to teach gross anatomy would be an advantage and a research interest in the nervous system is desirable. Salary (minimum \$15,000) and rank commensurate with experience. Applications, together with curriculum vitae and the names of two referees should be addressed to **Dr. D. G. Gwyn, Head, Department of Anatomy, Dalhousie University, Halifax, Nova Scotia, Canada. Closing date of applications is 31 March 1975. Effective date of appointment is 1 July 1975.**

NORTHEASTERN UNIVERSITY COLLEGE OF PHARMACY AND ALLIED HEALTH PROFESSIONS DEPARTMENT OF MEDICINAL CHEMISTRY AND PHARMACOLOGY BOSTON, MASSACHUSETTS 02115

ASSISTANT PROFESSOR OF PHARMACOLOGY Position available September 1975


Applications are invited from persons with training and postdoctoral experience in pharmacology. Duties will include undergraduate and graduate teaching in the area of pharmacology and toxicology. This person must be capable of developing a research program within the department. A degree in pharmacy and teaching experience are desirable. Send résumé and three letters of recommendation to: **Professor Elliot Spector, Chairman, Search Committee—Pharmacology.**

ASSISTANT PROFESSOR OF MEDICINAL CHEMISTRY Position available September 1975

Applications are invited from persons with training in analytical pharmaceutical, or medicinal chemistry including postdoctoral research and/or teaching experience. An initial 1-year appointment with potential for permanence for a candidate with the appropriate qualifications. This person should be capable of developing a research program in biopharmaceutical analysis and/or drug metabolism and participate in the graduate and undergraduate teaching programs of the department. Send résumé and three letters of recommendation to: **Professor Robert Raffauf, Chairman, Search Committee—Medicinal Chemistry.**

GCA/PRECISION SCIENTIFIC

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**New VacTorr® 20
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Readily portable, just 4½" x 7" x 10" and weighs only 17 pounds. Performance—20 liters/minute free air capacity—5 microns Hg (5×10^{-3} Torr) ultimate vacuum. Simplified, patented two-stage mechanical design uses miniaturized components—less than half the weight and only one quarter the size of belt-driven pumps of comparable capacity. Quiet! Sound level, 75 decibels ("A" Scale) 3" from pump. Safe! No external moving parts. Fully equipped including gas ballast, carrying handle and thermal-protected motor.

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A Message to All NIH Alumni about THE FIRST NIH ALUMNI REUNION April 19-20, 1975

Many of your former colleagues will be coming to the Reunion on the NIH campus in Bethesda from every State in the Union and from fifteen foreign countries. More than forty percent will be bringing wives or husbands. And at least ten percent will bring their children.

If you have been employed at the National Institutes of Health with any of the Bureaus, Institutes or Divisions, for any period of time and in any capacity, you are considered an NIH alumnus. Also included are Council or Board of Regent members, Scientific Counsellors, Fogarty Scholars, Clinical Associates, Research Associates, Staff Associates, Staff Fellows, participants in the Visiting program, as well as Consultants.

The Reunion is also open to those former and present members of organizations which are not now an official part of NIH, such as, Bureau of Health Manpower Education, Bureau of Biologics, and the National Institute of Mental Health.

REUNION HIGHLIGHTS:

- Free bus transport from FASEB meeting in Atlantic City direct to NIH campus and Bethesda Motels on Friday afternoon, April 18
- Welcome parties for all alumni Friday evening
- Main session at ten o'clock Saturday morning
- Institute open houses and exhibit tours Saturday afternoon
- Reception and banquet Saturday night
- Farewell brunch Sunday morning (ten o'clock til noon)
- Free child care service on NIH campus during day and evenings
- NO registration fee

If you want to hurry your registration, give us your name, address, former NIH affiliation, and phone number. Also make your check (\$25 per person) for banquet and brunch payable to *Foundation for Advanced Education in the Sciences, Inc.*, and mail to Mr. Huly Bray. (see address below)

For more information, including a registration form, write or phone immediately:

Mr. Huly Bray, Executive Secretary, NIH First Alumni Reunion
Building One, Room 313, National Institutes of Health
Bethesda, Maryland 20014
(301) 496-4713

(Our lists of alumni are incomplete, please pass the word.)

The School of Veterinary Medicine, University of Pennsylvania, is seeking applicants for the position of **ASSISTANT PROFESSOR OF EPIDEMIOLOGY AND PUBLIC HEALTH**. Applicants should have a D.V.M., and a Ph.D. in microbiology, training in epidemiology, and research experience in infectious diseases. Duties include teaching of epidemiology and infectious diseases, participation in the Virus Diagnostic Laboratory, and development of research projects in infectious disease epidemiology. *Qualified individuals belonging to ethnic minority groups and women are encouraged to apply.* Forward curriculum vitae to **Dr. J. S. Reif, School of Veterinary Medicine, University of Pennsylvania, Philadelphia, Pa. 19174.**

AVIAN ECOLOGY—MANAGEMENT PHYSIOLOGICAL ECOLOGY—FISH

Two Assistant Professor positions: (i) avian ecologist to develop a course in terrestrial avian wildlife biology and management and participate in other wildlife biology offerings, research experience in upland game birds and/or endangered species preferred; (ii) fish physiologist/ecologist to teach fish physiology course and participate in introductory fisheries courses. Both positions require Ph.D. and development of a strong independent research program. Each position includes a 50 percent research appointment in the Agricultural Research Station. Available after 1 July 1975. Applications received after 20 April cannot be assured of consideration. Send inquiries, curriculum vitae, transcripts, and three references to **Dr. Dennis G. Raveling (Avian position)** or **Dr. Peter B. Moyle (Fish position), Division of Wildlife and Fisheries Biology, University of California, Davis, California 95616.** *An Equal Opportunity/Affirmative Action Employer.*

BIOCHEMISTRY FACULTY POSITION RICE UNIVERSITY

Applications are invited for a new faculty position (Full Professor, Associate Professor, or Assistant Professor) in the Department of Biochemistry of Rice University. Clear distinction in creative research and education essential. Preference will be shown to candidates who are experienced in the area of molecular biochemistry of nucleic acids. However, applications are encouraged from outstanding candidates irrespective of field of interest.

Rice University is an Equal Opportunity, Affirmative Action Employer.

Send résumé to **G. J. Schroepfer, Jr., Chairman, Department of Biochemistry, Rice University, Houston, Texas 77001.**

Screening for the **COMPARATIVE PHYSIOLOGY** position at the Department of Zoology, University of North Carolina at Chapel Hill (advertised in the 22 November 1974 issue), has been completed. Further applications will not be considered.

MATERIALS SCIENTIST

Ledgemont Laboratory, Corporate Research and Development Center for Kennecott Copper, located in Lexington, Mass., has an immediate opening for a Materials Scientist who can think and act creatively in any or all of the following areas: (i) new alloys for electrical applications, (ii) new alloys for corrosion applications, and (iii) metal/nonmetal composites. Primary emphasis will be in copper base systems. Ideal candidate will have a graduate degree.

Please submit patent and publication list with résumé to: **L. James Glinos, Ledgemont Laboratory, Kennecott Copper Corporation, 128 Spring Street, Lexington, Mass. 02173.**



An Equal Opportunity Employer

POSITIONS OPEN

ASSISTANT PROFESSOR, DEPARTMENT OF OBSTETRICS AND GYNECOLOGY. The University of Michigan is seeking a board-eligible or certified physician with subspecialty training in gynecologic oncology, which would qualify the candidate for subspecialty Board. Must be able to assume major clinical and teaching responsibilities on large cancer service and develop own research program. Documentation of academic capability and productivity essential. Code #300FO. Send résumé to **Box 104, SCIENCE.** *A Nondiscriminatory Affirmative Action Employer.*

DEPARTMENT OF BIOLOGY UNIVERSITY OF PITTSBURGH

This department is seeking at least two faculty members for 1 September 1975. Areas to be considered for the positions are animal physiology, either vertebrate or invertebrate; invertebrate zoology, with emphasis in ecology, genetics, or cell and developmental biology. Applicants should provide evidence of productive research and excellence in teaching. Responsibilities will include teaching at both undergraduate and graduate levels. Rank and salary are open, depending upon qualifications. Applications, including the names of at least three references, should be sent to: **Chairman, Search Committee, Department of Biology, University of Pittsburgh, Pittsburgh, Pa. 15260.** *The University of Pittsburgh is an Equal Opportunity/Affirmative Action Employer.*

CHAIRMAN, DEPARTMENT OF BIOLOGY UNIVERSITY OF WINNIPEG

The Department of Biology is seeking a Chairman. At present the Department consists of nine faculty members, plus instructors and technical staff engaged in undergraduate teaching. Both 3-year and 4-year degrees are offered.

Rank and salary are dependent upon qualifications, which must include a Ph.D. plus research and teaching experience. Administrative experience would be an asset but is not essential. Specialization in quantitative Ecology and Botany is preferred, but specialists in other areas are also invited to apply.

Letters of application, including curriculum vitae and the names and addresses of at least three referees, should be sent to **Dr. G. E. E. Moodie, Department of Biology, University of Winnipeg, 515 Portage Avenue, Winnipeg, Manitoba, Canada R3B 2E9.**

CHAIRMAN, OBSTETRICS-GYNECOLOGY UNIVERSITY OF TENNESSEE-MEMPHIS

The University of Tennessee College of Medicine is seeking a chairman of its Department of Obstetrics and Gynecology. Candidate should present evidence of clinical and academic competence to direct a department of 9 full-time faculty members with 21 residents in training. Interested individuals should contact **William C. North, M.D., Chairman, Search Committee, University of Tennessee College of Medicine, Memphis, Tenn. 38163.** *An Equal Opportunity/Affirmative Action Employer.*

CHAIRMANSHIP

Department of Physiology, Howard University College of Medicine. Persons interested, write and send supporting material to

**Dr. Walter M. Booker
Chairman, Search Committee
Department of Pharmacology
College of Medicine
Howard University
Washington, D.C. 20001**

CHEMISTRY

Faculty position in Chemistry beginning September 1975. A 1- or 2-year appointment for sabbatical replacements. Candidate should be able to teach a variety of undergraduate courses. Send résumé and three letters of recommendation by 31 March to **Professor G. L. Johnson, Department of Chemistry, Kenyon College, Gambier, Ohio 43022.** *An Equal Opportunity Employer.*

CLINICAL LABORATORY HEMATOLOGIST. The University of Washington School of Medicine, Department of Laboratory Medicine, is recruiting a junior faculty assistant director of the Clinical Hematology Laboratories at the University and Public Health Service Hospitals. Candidates must be board-eligible or certified in Anatomic and Clinical Pathology and have sufficient background to supervise and teach Principles of Cellular Immunology, Laboratory Instrumentation, Interpretation of Bone Marrow Morphology and Cytochemical Stains, and Kinetic Measurements of Erythron Function.

Please submit curriculum vitae by 1 May 1975 to **J. C. Deter, M.D., Harborview Medical Center, 325 Ninth Ave., Seattle, Wash. 98104.** *The University of Washington is an Equal Opportunity/Affirmative Action Employer.*

POSITIONS OPEN

FOUR ASSISTANT PROFESSOR OF PSYCHOLOGY POSITIONS are available in Rutgers College of the New Brunswick Department of Psychology. All four positions require an active research program and excellent teaching. The appointments will be made from the areas of social-personality, developmental, human experimental, learning-motivation, and psychobiology. Please send curriculum vitae and letters of reference to: **Dr. George H. Collier, Department of Psychology, Rutgers, The State University, New Brunswick, New Jersey 08903.**

DIRECTOR, DEPARTMENT OF PSYCHIATRY. Innovative, dynamic, capable teacher, board-certified, to head up an expanding, comprehensive Psychiatric Service in a large medical center, St. Joseph's Hospital and Medical Center is a 540-bed hospital, 46 of which are in the Department of Psychiatry. The Department is community-oriented; has an active Outpatient Department, Partial Hospitalization and Vocational Rehabilitation Programs, and Outreach Clinics; and is a major component of the Paterson Community Mental Health Center. The hospital is a major affiliate of the New Jersey Medical School and also of the Department of Psychology of Fairleigh Dickinson University. Candidate for this position should have wide administrative experience in a general hospital with community mental health orientation and qualify for an appointment as Associate Professor or Professor. The successful applicant will be involved in the development of a residency program. Salary and benefits open. Please respond in writing to: **Thomas E. Potter, M.D., Chairman, Search Committee, c/o St. Joseph's Hospital and Medical Center, 703 Main Street, Paterson, N.J. 07503.** *An Equal Opportunity Employer.*

DIRECTOR, OFFICE OF HEALTH CARE RESEARCH, DEPARTMENT OF POSTGRADUATE MEDICINE, UNIVERSITY OF MICHIGAN. To direct and personally conduct research and teaching in health care delivery. Duties will involve collaborative efforts with other faculty in the Medical School, faculty in other schools of the University, and with community physicians. Specific areas of investigation will depend on the interests and background of the individual. Director will develop the Office of Health Care Research and coordinate efforts in the department and Medical School. In conjunction with research, the director will develop and direct teaching of medical students, house officers, practitioners, and other appropriate health providers in the assessment of medical care (estimated 15 percent of effort). The Director will have an appointment in an appropriate clinical department where he/she will teach and practice medicine. Send résumé to **Box 109, SCIENCE.** *A Nondiscriminatory Affirmative Action Employer.*

DIRECTOR OF SURGERY WAYNE COUNTY GENERAL HOSPITAL

The University of Michigan is looking for a full-time academic surgeon with certification by the American Board of Surgery or surgical specialty boards required. All applicants should be experienced in clinical, teaching, and research activities. Send résumé to **Box 107, SCIENCE.** Code #600BO.

A Nondiscriminatory Affirmative Action Employer

The University of Michigan, School of **NATURAL RESOURCES**, is seeking applicants for academic year, teaching-research, positions in the following areas: Outdoor Recreation, Woody Plant Physiology, and Waterfowl-Wetlands Ecology. An earned Ph.D., or equivalent career experience, is desired.

Applications should be sent to **Dean Charles E. Olson, Jr., School of Natural Resources, The University of Michigan, 3516 Dana Building, Ann Arbor, Michigan 48104.**

A Nondiscriminatory Affirmative Action Employer

FACULTY POSITIONS IN BIOCHEMISTRY.

Applications are invited for two positions in the Department of Biochemistry at the University of Tennessee, Knoxville. Positions are to be filled starting September 1975. The positions are primarily intended for Assistant Professors, but applications for Associate Professorship will not be excluded. Applicants will be expected to participate in teaching at graduate/undergraduate levels and to establish a vigorous research program. Preference will be given to applicants with research experience in nucleic acid structure and function, membrane biochemistry, or lipid metabolism. However, applicants in other areas will also receive consideration. Applications, including curriculum vitae, publications, and letters from three references should be sent before 30 April 1975 to: **Search Committee, Department of Biochemistry, University of Tennessee, Knoxville, Tennessee 37916.** *An Equal Opportunity/Affirmative Action Employer.*

POSITIONS OPEN

FACULTY POSITION: Applications are invited for a faculty position in the Department of Biological Sciences. The rank is open and all applicants with an appropriate professional background and an earned doctorate will be considered. We are seeking an invertebrate zoologist and will give particular attention to an ethologist, a systematist-evolutionist, or a physiologist whose research emphasizes the Arthropoda. Teaching responsibilities will vary according to the expertise and interest of the person selected. The appointee should be capable of developing a strong research program. Send curriculum vitae and/or requests for additional information to: **Dr. John E. George, Chairman of Search Committee, Department of Biological Sciences, Texas Tech University, Lubbock, Texas 79409. An Equal Opportunity Employer.**

The Faculty of Life Science at the University of Texas of the Permian Basin invites applications and nominations for two faculty positions for fall 1975 in the areas of **ANIMAL PHYSIOLOGY** and **GENETICS**. Salary and rank are open. Send a curriculum vitae and the names of three references to: **Dr. Charles O. McKinney, Faculty of Life Science, University of Texas of the Permian Basin, Odessa, Texas 79762. An Equal Opportunity Employer.**

FACULTY POSITIONS IN VIROLOGY, MICROBIAL GENETICS, AND ECOLOGY. Three positions for research-oriented faculty to teach undergraduate/graduate courses and contribute to the doctoral program in Life Sciences, excellent facilities provided. **VIROLOGIST**—preference will be given to applicants with established research program, rank and salary open. **MICROBIAL GENETICIST**—assistant professor. **ECOLOGIST**—assistant professor, interest in such areas as energy flow, nutrient cycling, or diversity relationships. Send curriculum vitae, list of publications, and letters of reference or names of referees to: **Dr. C. P. Sword, Department of Life Sciences, Indiana State University, Terre Haute, Ind. 47809. Affirmative Action/Equal Opportunity Employer.**

FACULTY POSITION DEPARTMENT OF BIOLOGICAL CHEMISTRY UNIVERSITY OF CALIFORNIA, DAVIS

Applications are invited for a position open fall 1975-winter 1976. Candidates should be active in research and capable of contributing significantly to medical school and graduate teaching. Rank of appointment will be commensurate with experience and qualifications. Soundness and quality of research will receive greater emphasis than field of specialization. Applicants should send curriculum vitae, list of publications and future research plans, and have three letters of recommendation sent to **Dr. Robert Traut, Chairman of Search Committee, Department of Biological Chemistry, School of Medicine, University of California, Davis, California 95616. The University of California is an Affirmative Action/Equal Opportunity Employer and applications from women and/or minorities are welcome.**

GEOPHYSICAL INSTITUTE UNIVERSITY OF ALASKA, FAIRBANKS

Applications are invited for two positions. Candidates will be judged primarily on their research record, as evidenced by the quality of publications in the scientific literature or by such other achievements as may be documented. Attention will also be paid to experience in teaching geophysics and/or its underlying disciplines. The basic qualification for both posts is a Ph.D. in physics or geophysics, or the equivalent in training and experience. Previous experience in polar research would be desirable. Fluency in the reading and writing of English is mandatory.

Professor of Geophysics in auroral and airglow science. This is one of the senior posts at the Institute. Candidates must have a distinguished record in research and research leadership, preferably relating to the spectroscopy and collision phenomena of auroral science. The professor will be expected to be competent in both theoretical and experimental aspects. Some experience in a branch of public service, for example, in a federal agency, could be advantageous.

Assistant Professor of Applied Science: Candidates should have breadth of background in problem-solving and techniques relating to the Arctic, for example, in remote sensing, land-use planning, sea-ice stresses and motions, atmospheric phenomena, or telecommunications. Experience in the following areas would be advantageous: dissemination of scientific results to potential users; feasibility demonstration projects; liaison with federal, state, and local authorities; means of enhancing the public understanding of science.

The University is an Equal Opportunity Employer; women and members of minority groups are encouraged to apply.

For further information, write to the **Director, Geophysical Institute, University of Alaska, Fairbanks, Alaska 99701.**

The Washington University School of Medicine Diabetes and Endocrinology Center is seeking a **DIRECTOR OF A TISSUE ISOLATION AND CULTURE FACILITY.** This facility will be a research resource for investigating hormonal actions on isolated human cells and maintenance of human endocrine cells in culture. The Director will administer this Unit and is expected to undertake collaborative and independent research in the area of human cell isolation and culture. Applicants should have a Ph.D. or M.D. with research experience in tissue culture. Please send curriculum vitae to **Dr. William H. Daughaday, Department of Medicine, Washington University School of Medicine, 660 South Euclid, St. Louis, Mo. 63110. An Equal Opportunity/Affirmative Action Employer.**

ENGINEERING OR SOCIAL PSYCHOLOGIST. The Department of Psychology at New Mexico State University has an ongoing Ph.D. program in engineering psychology and a developing program in social psychology. We have one position to fill preferably by fall 1975 with an applicant from either one of two areas: (i) Experimental Engineering Psychology—a senior-level faculty member having a national reputation. This person is expected to interact extensively with graduate students, and provide leadership within the engineering psychology program. (ii) Experimental Social Psychology—a senior-level person with preferred areas of interest in small group processes and mathematical models. This person should be oriented toward a quantitative and theoretical approach and have an appreciation for the relevance of his or her work to current human performance and man-machine-environment systems. The candidate would provide experienced guidance for the developing program in social. Applicants for either position should have an active research program. Teaching will include graduate courses within the applicant's specialty as well as some undergraduate instruction. Send (i) current curriculum vitae, including teaching and research interests and publications, (ii) recent reprints of publications, (iii) complete listing of courses taught by title and level, and (iv) three letters of recommendation to **Warren H. Teichner, Psychology Box 3452, New Mexico State University, Las Cruces, N.M. 88003. NMSU is an Equal Opportunity/Affirmative Action Employer.**

INSTRUCTOR

Department of Anesthesiology

The University of Michigan Medical School. CRNA with master's degree and teaching experience. Administrative ability to direct nurse anesthesia program. Code #200HO. Send résumé to

Box 102, SCIENCE

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INSTRUCTOR

Department of Internal Medicine

The University of Michigan Medical School is seeking an individual with qualifications equivalent to those of the American Board of Internal Medicine, with subspecialty qualifications in Nephrology. Must also be fully qualified to carry out investigation and to teach at undergraduate and graduate medical education levels. Code #100HO. Send résumé to **Box 103, SCIENCE.**

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SIX INSTRUCTOR POSITIONS

Available in the Department of Radiology, University of Michigan Medical School. Board-eligible or Board-certified. Physician will take part in the programs of patient care, teaching, and research carried on in the Department of Radiology. Physician will supervise the activities of the resident staff and aid in teaching residents and medical students. Send résumé to **Box 106, SCIENCE.**

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INVERTEBRATE ENDOCRINOLOGIST

Fall 1975. Assistant Professor, Ph.D. Active Research program and teaching. Send résumé to **Professor J. J. Friauf, Department of Biology, Vanderbilt University, Nashville, Tennessee 37235. All qualified candidates, including minorities and women, are encouraged to apply.**

POSTDOCTORAL RESEARCH ASSOCIATES wanted for diabetes-related research projects involving tissue culture of endocrine tissues, radio-receptor and radioimmunoassay techniques, and mass spectrometry of heavy isotopes. Applicants must have an M.D. or Ph.D. degree and be able to start by September 1975. Send curriculum vitae and references to **Dr. William H. Daughaday, Director, Diabetes and Endocrinology Center, Department of Medicine, Washington University School of Medicine, 660 South Euclid, St. Louis, Mo. 63110. An Equal Opportunity/Affirmative Action Employer.**

THE UNIVERSITY OF ADELAIDE

invites applications for appointment as a

POSTDOCTORAL FELLOW

supported for three years by an Australian Research Grants Committee grant for work on a problem entitled "Interactions between hormones and membrane constituents." The requirement is for familiarity and experience with NMR techniques and a desire to work on biologically relevant problems. The work will be under the supervision of Professor L. G. Paleg, Department of Plant Physiology, Waite Agricultural Research Institute, to whom enquiries about the project may be addressed.

SALARY SCALE: \$A7,545-292(2)-291(3)-8,711. Initial salary will be fixed in relation to qualifications and previous experience. No provision is made for superannuation. Funding for the appointment is available for up to three years. Provision for travel for the successful applicant will be sought from the Australian Research Grants Committee.

(The Academic Salaries Tribunal has recommended that funds be made available to pay Postdoctoral Fellows within the scale \$A9,750-300(4)-10,950).

APPLICATIONS, in duplicate, and giving particulars of age and marital status, details of academic record and experience, and names and addresses of two referees, should reach the Registrar of the University, G.P.O. Box 498, Adelaide, South Australia 5001, not later than 31 March 1975.

UNIVERSITY OF MELBOURNE AND AUSTIN HOSPITAL CHAIR OF MICROBIOLOGY (MEDICAL)

Applications are invited for the above-mentioned position.

The Professor of Microbiology will hold the appointments of Professor in the University Department of Microbiology and Director of the Austin Hospital Department of Microbiology.

It is desirable that the appointee be eligible for registration as a medical practitioner in Victoria.

The appointment will commence on 1 January 1976, or as soon as possible thereafter.

SALARY: \$A23,676-\$25,420 per annum depending on qualifications.

Further information about the position, including details of application procedure, superannuation, travel and removal expenses, housing assistance and conditions of appointment, is available from the Registrar or from the Association of Commonwealth Universities (Appts), 36 Gordon Square, London WC1H 0PF. All correspondence (marked "Confidential") should be addressed to the Registrar, The University of Melbourne, Parkville, Victoria, 3052, Australia.

Applications close on 1 May 1975.

POSITIONS OPEN

LECTURESHIP TEMPORARY—POTENTIALLY RENEWABLE

A 1-year lectureship is available September 1975 to assume major teaching responsibilities of faculty member serving as Dean. We seek a **CELL BIOLOGIST** interested in one of the following: development, fine structure or hormone receptors; to teach at intermediate/advanced level in:

(Fall) Cell biology lectures, with colleague who supervises course: 60 students. Laboratory course: 45 students. (Spring) Specialty area of cell biology. Lectures: 50 to 100 students. Laboratory: small group.

Candidates must have a Ph.D. and should have teaching experience. Expertise in electron microscopy desirable.

Specific teaching responsibilities and salary to be negotiated. Possibility of reappointment on a yearly basis.

Please send résumé, reprints, and three letters of recommendation to: **Dr. Mary Ella Feinleib, Acting Chairman, Biology Department, Tufts University, Medford, Mass. 02155.**

Application deadline: 4 April 1975.

Tufts University is an Equal Opportunity/Affirmative Action Employer. Applications from women and minority groups are encouraged.

UNIVERSITY OF WARWICK LECTURESHIP IN DEVELOPMENTAL BIOLOGY

Applications are invited for a new post of lecturer, in the Department of Biological Sciences, tenable from October 1975. The successful applicant will be associated with a group led by Dr. H. R. Woodland working on the control of gene activity in animal development. Especial consideration will be given to candidates working on biochemical and/or genetic aspects of development. Teaching will involve general eukaryotic genetics and evolution. Initial salary will be within the first four points of the lecturer scale £2118 to £4896 per annum plus threshold payments. Application forms and further particulars may be obtained from the **Academic Registrar, University of Warwick, Coventry CV4 7AL, England**, quoting reference No. 29/A/75. Completed applications should be returned as soon as possible but in any case not later than 4 April 1975.

NEPHROLOGIST—The Division of Nephrology in the Department of Medicine at the University of Alabama in Birmingham has available a position at the Assistant Professor or the Associate Professor level. The position is open to qualified individuals at a senior level fulfilling three criteria. First, the individual must have expertise in the care and management of patients with renal disease and in the operation of a hemodialysis unit. Second, the individual must have a firm commitment to teaching programs oriented to medical students, graduate students, house officers, and fellows. Finally, the individual should have a research background and be able to carry out independent research, preferably in renal micropuncture. Apply to the **Division of Nephrology, University Station, Birmingham, Alabama 35294**. Telephone: 205-934-3585. An Equal Opportunity/Affirmative Action Employer. Expiration date for receipt of applications: 1 June 1975.

HEAD OF DEPARTMENT OF OCEANOGRAPHY AND OCEAN ENGINEERING. Applications for this position are invited. Starting date 1 September 1975. Candidates should have an established professional background in Oceanography or Ocean Engineering.

ASSISTANT PROFESSOR OF OCEANOGRAPHY. A strong background in Biological Oceanography is required. Starting date 15 September 1975.

For application or information write to: **Dr. Pieter S. Dubbelday, Chairman, Search Committee, Department of Oceanography and Ocean Engineering, Florida Institute of Technology, Melbourne, Fla. 32901.**

The Department of Physiology-Anatomy, University of California, Berkeley, invites applications for a **PHARMACOLOGIST** to organize and teach a program in pharmacology and to conduct research in that area. The candidate should have extensive teaching and research experience. The level of appointment will be commensurate with qualifications. Applicants should submit a curriculum vitae, a list of significant publications, a statement of current research interests, and the names of three references to: **Dr. Paola S. Timiras, Department of Physiology-Anatomy, University of California, Berkeley, California 94720.** The materials should not exceed five pages and must be received by Dr. Timiras no later than 15 May 1975. The position is available immediately. The University of California is an Equal Opportunity Employer.

POSITIONS OPEN

Applications are invited for positions at the level of Assistant Professor or higher, commensurate with experience. A Ph.D. degree, postdoctoral experience, and demonstrated research abilities are required.

ANIMAL PHYSIOLOGIST: Candidates in hormonal control mechanisms, neurobiology, cardiovascular mechanisms, or homeostatic regulatory mechanisms are particularly desired.

PLANT PHYSIOLOGISTS: Candidates in biochemical regulation, cellular physiology, hormonal control mechanisms, photobiology, and/or cell culture are particularly desired.

Persons in these positions should interact with programs in cellular and developmental biology. Teaching duties include contribution to undergraduate biology programs and graduate courses in the specialty area. Excellent laboratory facilities are available to support a vigorous research program including graduate student training. Send curriculum vitae, summary of research plans, recent publications, and the names of three references to **Dr. Ronald S. Slesinski, Chairman, Physiology Recruitment Committee, Division of Biology, Kansas State University, Manhattan, Kansas 66506.** An Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL POSITION available immediately in Physical Organic Chemistry, Organic Geochemistry, and/or Biochemistry. Send résumé and three letters of reference to:

**Dr. Grant Gill Smith
Department of Chemistry and Biochemistry
UMC 03
Logan, Utah 84322**

POSTDOCTORAL RESEARCH ASSOCIATE IN MOLECULAR BIOPHYSICS. Research on the structure of photoreactivating enzymes of bacterial and mammalian origin. Applications from qualified candidates are welcome; women and minorities are encouraged to apply. Send curriculum vitae to **Dr. J. C. Sutherland, Department of Physiology, University of California, Irvine, Calif. 92664.**

PREDOCTORAL ASSISTANTSHIPS AND TRAINEESHIPS. In Oncology, Immunology, Microbiology, Virology, and Molecular and Cellular Biology. Prerequisites: B.S. degree in biology, chemistry, or related fields with B average or better and high G.R.E. score. U.S. citizenship required. Traineeships and assistantships available. Inquiries should be submitted to: **Dr. Sheldon Dray, Head, Department of Microbiology, University of Illinois Medical Center, P.O. Box 6998, Chicago, Illinois 60680.**

PROFESSOR AND CHAIRMAN

State University of New York at Buffalo, School of Medicine, has an opening for the position of chairman of the Department of Pharmacology and Therapeutics. The qualified candidate should be an experienced teacher and administrator with an established research position in the field. He should have interest and at least some experience in clinical medicine. Correspondence with curriculum vitae should be directed to **Felix Milgrom, M.D., Department of Microbiology, State University of New York, Buffalo, New York 14214.** An Equal Opportunity/Affirmative Action Employer.

UP TO PROFESSOR DEPARTMENT OF PSYCHIATRY UNIVERSITY OF MICHIGAN

Opening for psychiatrist in University Hospital Acute and Emergency Room Program, for teaching, service, and research. Must be graduate of approved residency program and have demonstrated teaching and research skills. Some neurological background an asset. Academic rank depending on qualifications. Send résumé to **Box 105, SCIENCE.** A Nondiscriminatory, Affirmative Action Employer.

PROFESSOR DEPARTMENT OF SURGERY

The University of Michigan is seeking a Head of the Section of Plastic Surgery. Must be a plastic surgeon who is academically qualified for professional appointment and board certified in Plastic Surgery. Code #100BJ. Send résumé to **Box 108, SCIENCE.** A Nondiscriminatory Affirmative Action Employer.

POSITIONS OPEN

The International Laboratory for Research on Animal Diseases (ILRAD) has scientific, postdoctoral, and Visiting Scientist positions immediately available in immunology, parasitology, biochemistry, immunochemistry, pathology, cell culture, and electron microscopy. ILRAD is sponsored by a consortium of donor agencies and will have an international scientific staff conducting research on various aspects of trypanosomiasis and East Coast fever. Persons with training and experience in areas appropriate to research on trypanosomiasis and East Coast fever are invited to inquire at the address given below and should provide a current curriculum vitae which includes name, age, citizenship, education, chronology of professional experience, and list of publications. **Dr. James B. Henson, Director, ILRAD, P.O. Box 47543, Nairobi, Kenya.**

PROGRAM CHIEFS OF THE BASIC MEDICAL SCIENCES FACULTY

Applications are invited for the faculty position of Professor and Program Chief in the areas of the anatomical sciences, experimental pathology, genetics, immunology, microbiology, molecular biology, neurosciences, nutrition, pharmacology, physiology, and radiobiology of the newly established Northeastern Ohio Universities College of Medicine. These appointments will be made starting 1 July 1975. The arrival of the first class of students is scheduled for September 1977.

Program Chiefs will work directly with the Dean of the College of Medicine in developing and implementing a basic medical sciences curriculum as part of a 6-year integrated program designed to prepare a physician oriented to the practice of medicine at the community level. Additional responsibilities will include the development of independent and collaborative research programs which will, in turn, provide the appropriate environment for the training of graduate students in the biomedical disciplines through the graduate programs of The University of Akron, Kent State University, and Youngstown State University. Program Chiefs will also participate in the organization and implementation of basic medical sciences programs for residency training and continuing education in several community hospitals.

New facilities for the basic medical sciences teaching programs as well as appropriate laboratory and support facilities are now in the planning stages and will be available about July 1977.

Northeastern Ohio Universities College of Medicine is a consortium of The University of Akron, Kent State University, and Youngstown State University in association with community hospitals in Akron, Canton, and Youngstown.

Please submit curriculum vitae to: **Robert A. Liebelt, Ph.D., M.D., Dean, Northeastern Ohio Universities College of Medicine, 1640 Franklin Avenue, Kent, Ohio 44240.** An Affirmative Action/Equal Opportunity Employer.

RESEARCH ASSISTANT IMMUNOLOGY

B.S. in microbiology, medical technology, and several years of practical experience in research, clinical immunology, or microbiology required. Experience and willingness to work with laboratory animals necessary. Desirable location in Florida. Equal opportunity employer. Send résumé. **Box 43, SCIENCE.**

RESEARCH ASSOCIATE POSITION

Available May 1975 for electrophysiological study of olfactory system in birds. Experience in electrophysiological technique or in olfactory research desired. Salary \$11,000. Ph.D. must be completed. Send résumé and three letters of reference to **Dr. Don Tucker, Department of Biological Science, Florida State University, Tallahassee, Fla. 32306.** An Affirmative Action/Equal Opportunity Employer.

RESPIRATORY PHYSIOLOGIST

Applications are invited from candidates with interest in Respiration Physiology for an appointment at the rank of Assistant or Associate Professor. Duties include teaching in the department's undergraduate program. Send applications with curriculum vitae and names of three referees to: **Mrs. Sandra Knowles, Department of Physiology, McGill University, 3655 Drummond Street, Montreal, Quebec, H3G 1Y6, Canada.**



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Knowledge of English or French is essential for this position. It is fully expected that there will be similar positions available in the coming year and will be filled as a result of this position. For some of these positions knowledge of English and French may be essential, however, unilingual persons may also apply. They must, however, indicate in writing, their willingness to undertake continuous language training at public expense for a period of up to 12 months. Such training shall be undertaken immediately at the time of conditional appointment, in or through the Public Commission's Language Bureau and at locations specified by the Public Service Commission. The Public Service Commission will seek evidence of the likely capacity of unilingual candidates from outside the Public Service to become bilingual.

HOW TO APPLY:

Forward "Application for Employment" to:

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Public Service Commission of Canada
Place De Ville, Tower "A"
Ottawa, Ontario K1A 0M7

Please quote Competition Number 74-155-156 on all correspondence.

Appointments as a result of this competition are subject to the provisions of the Public Service Employment Act.

DIRECTOR

Division of Biological and Medical Research

ARGONNE NATIONAL LABORATORY

Applications and nominations are invited for the position of Director of the Division of Biological and Medical Research of Argonne National Laboratory. The Laboratory is operated by the University of Chicago under contract with the University of Chicago, the Argonne Universities Association, and the United States Energy Research and Development Administration. The research program of the Division includes a broad range of problems in fundamental biology, studies in radiation toxicology, the toxicology of other energy effluents, and in mechanisms of aging and carcinogenesis. A candidate should have a record of distinguished achievement in biological and medical research and the ability to give scientific and administrative leadership to a large and diverse Laboratory.

Applications or nominations should be submitted by April 1, 1975 to: Dr. W. K. Sinclair, Associate Laboratory Director for Biomedical & Environmental Research, Argonne National Laboratory, Argonne, Illinois 60439.



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EPIDEMIOLOGIST

Office of Biometry and Epidemiology, National Eye Institute

Assume responsibility for developing and conducting a program of epidemiological research in eye disease, particularly in the major causes of blindness in the U.S. (glaucoma, cataract, diabetic retinopathy, and senile macular degeneration) and serve as epidemiologic consultant to other programs in the National Eye Institute.

The NEI, one of the National Institutes of Health, supports and conducts a broad range of research in eye disease and visual disorders.

Applicant should be a trained epidemiologist with extensive experience in the epidemiology of chronic diseases, and should have demonstrated ability in program development and supervision of professional employees. Vision research experience is desirable but not necessary. Competency in study design and quality control of data collection of case-control studies or surveys is important. Salary depends on the qualifications of applicant.

Interested candidates should submit applications in the form of a letter to the Personnel Officer, with curriculum vitae attached, by 15 April 1975.

Mrs. Helen Stafford
Personnel Officer, NEI

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RESEARCH ASSISTANTS

Positions in Reproductive Biology, Endocrine Biology, Neurobiology and Molecular/Cell Biology are periodically available at the Worcester Foundation for Experimental Biology, Inc. Positions are competitive; rank and salary commensurate with qualifications and experience; ample fringe benefits. Interested individuals having either a Bachelor's or a Master's degree in Biology, Biochemistry, Biophysics or in other related fields should send résumé, complete academic transcript, and three letters of reference from individuals in a position to critically evaluate their scientific potentials to: **Dr. Ashton Gibbons, Director of Personnel, Worcester Foundation for Experimental Biology, 222 Maple Ave., Shrewsbury, Massachusetts 01545.**

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SENIOR RESEARCH POSITION. Applications and nominations are invited for a responsible position at this nonprofit research institute with excellent laboratory facilities, situated centrally in Boston. Candidates should be established scientists with an active research program in any of such areas as immunology, cancer, neurobiology, and hormonal regulation. The emphasis is on basic research. The Institute would provide adequate space and, if necessary, initial financial support. The selected candidate would be expected to provide scientific leadership, develop an effective, viable research program, and obtain funding from granting agencies. Send résumés and names of references to **Mrs. L. Clancy, Boston Biomedical Research Institute, 20 Staniford Street, Boston, Massachusetts 02114.** *An Equal Opportunity Employer. Applications from women and members of minority groups are especially welcome.*

VERTEBRATE PHYSIOLOGIST/GENETICIST.

Two academic positions are open in the fall 1975 at assistant, associate, or higher. Vertebrate Physiologist with research in Endocrine or Cardiovascular field. Geneticist with research in Cytogenetics. Curriculum vitae should include education, teaching experience, publications, references, and so forth. Salary commensurate with experience. Must possess ability to direct doctoral research. Send curriculum vitae to **Dr. J. N. Conannon, Department of Biology, St. John's University, Jamaica, N.Y. 11439.** *An Equal Opportunity Employer.*

VETERINARY PATHOLOGIST.

Independent contract research laboratory has an immediate opening for a pathologist experienced in gross and microscopic pathology of dogs, primates, and rodents. Specific experience in toxicologic pathology desirable. Salary commensurate with experience. We are located in a very desirable area of southwestern Michigan just 10 miles from Kalamazoo which offers excellent living conditions and cultural activities. Send detailed résumé to: **J. M. Ragen, Director, Personnel, International Research and Development Corp., Mattawan, Michigan 49071.** *An Equal Opportunity Employer.*

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POSTDOCTORAL FELLOWSHIP IN NEUROCHEMISTRY

Applications invited for a 1- to 2-year position for candidates with Ph.D. in biochemistry or M.D. with biochemical experience to study the defects in lysosomal hydrolases activity which lead to lipid storage diseases. Well-equipped laboratory in an 800-bed children's hospital. Salary range depending on experience. Replies to **Dr. J. A. Lowden, The Research Institute, Hospital for Sick Children, Toronto, Ontario, Canada M5G 1X8.**

POSTDOCTORAL FELLOWSHIPS

Positions available from time to time for M.D. or Ph.D. to conduct research as member of group in either of the following areas of regulatory biology: (1) Cell/Molecular biology, (2) Reproductive biology, (3) Endocrine biology, (4) Neurobiology. Applications are invited from persons trained in molecular biology, microbiology, virology, physiology, biology, organic chemistry, biochemistry, pharmacology, biophysics or other related specialties. Applicants are expected to be familiar with advanced research techniques relevant to the area of interest and must have strong academic background. Stipend range from \$10,000-\$14,000 depending upon postdoctoral experience. Send résumé and three letters of reference to **Dr. Ashton Gibbons, Director of Personnel, Worcester Foundation for Experimental Biology, 222 Maple Avenue, Shrewsbury, Massachusetts 01545.**

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FELLOWSHIPS

POSTDOCTORAL FELLOWSHIPS IN A MULTIDISCIPLINARY PROGRAM IN CRANIOFACIAL ANOMALIES

Postdoctoral fellowships are now available for periods up to 2 years. Applications are invited from individuals with D.D.S., M.D., or Ph.D. degrees in one of the biological or behavioral sciences. The program objective is to provide fellows with specific research programs and a broad exposure in the detection, diagnosis, improvement of treatment, genetic counseling, and study of normal and abnormal craniofacial development, including molecular biology. The fellowship stipends start at \$10,000. Send curriculum vitae and two letters of reference to **Dr. Harold C. Slavkin, Program Director, Department of Biochemistry, School of Dentistry, Gerontology Center, University of Southern California, Los Angeles, California 90007.** *The University of Southern California is an Equal Opportunity/Affirmative Action Employer.*

GRADUATE STUDY

TRAINING IN REPRODUCTIVE BIOLOGY. A small number of fellowships are available for highly qualified applicants in a training program consisting of either postdoctoral research or of graduate work leading to the Ph.D. in Reproductive Biology. Although the program includes work in corpus luteum physiology and neuroendocrinology, we are especially interested at this time in individuals whose interests may be in the mechanism of hormone action, or in hormone biosynthesis, secretion, transport, and metabolism. For further information, write to **Dr. I. Rothchild, Department of Reproductive Biology, Case Western Reserve University, Cleveland, Ohio 44106.**

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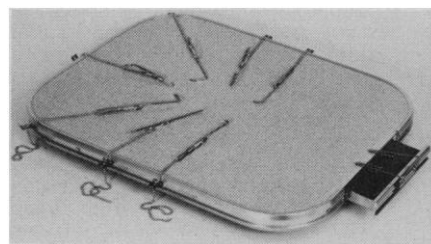
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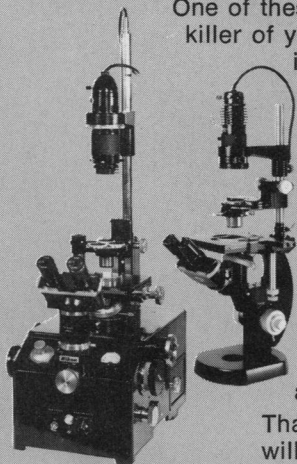
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The Beckman Bicentennial Series. The first ones are marching, with more to come.



Now we're offering you an entirely new line of fine pH meters to commemorate our 40th year of pH experience. But we've named them for a better-known anniversary.

The first of our new Bicentennial Series are the stylish digitals shown here: Models 3500, 3550, and 4500.

Common to all three are the Beckman self-test switch for quick check of electrodes; pedestal-mounted tilting meter for convenient reading; analog and BCD output for recorder and printer; rugged, nonsliding design; and detachable free-standing electrode stand.

Model 3550 also features pushbutton auto-standardization and temperature readout. You quickly read and compensate for temperature, or use the instrument as a digital thermometer alone.

Model 4500 has a benefit born of patience. It's

our first third-decimal-place meter, because we waited until we could give real stability to that third place. Model 4500 has it, when used with our new low-resistance, fast-response glass electrodes.

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For data or demonstration, contact your local Beckman sales office or write to Beckman Instruments, Inc., Scientific Instruments Division, P.O. Box D-W, Irvine, CA 92664.

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