

**Magnetism in Metals and Metallic Compounds.** Proceedings of a school, Karpacz, Poland, Feb. 1974. Jan T. Łopuszański, Andrzej Pękalski, and Jerzy Przystawa, Eds. Plenum, New York, 1976. xiv, 626 pp., illus. \$49.50. *To order this book circle No. 440 on Readers' Service Card*

**Methods in Membrane Biology.** Vol. 6. Edward D. Korn, Ed. Plenum, New York, 1976. xviii, 248 pp., illus. \$24. *To order this book circle No. 441 on Readers' Service Card*

**Methods in Plant Ecology.** S. B. Chapman, Ed. Halsted (Wiley), New York, 1976. vii, 536 pp., illus. \$29.50. *To order this book circle No. 372 on Readers' Service Card*

**Microscale Manipulations in Chemistry.** T. S. Ma and V. Horak, Wiley-Interscience, New York, 1976. xvi, 488 pp., illus. \$27.50. Chemical Analysis, vol. 44. *To order this book circle No. 442 on Readers' Service Card*

**Persons at High Risk of Cancer.** An Approach to Cancer Etiology and Control. Proceedings of a conference, Key Biscayne, Fla., Dec. 1974. Joseph F. Fraumeni, Jr., Ed. Academic Press, New York, 1975. xx, 544 pp. \$19. *To order this book circle No. 498 on Readers' Service Card*

**Proceedings of the Conference on Finite Groups.** Park City, Utah, Feb. 1975. William R. Scott and Fletcher Gross, Eds. Academic Press, New York, 1976. xiv, 566 pp. \$27.50. *To order this book circle No. 445 on Readers' Service Card*

**Proceedings of the Third International Conference on Light Scattering in Solids.** Campinas, Brazil, July 1975. M. Balkanski, R. C. C. Leite, and S. P. S. Porto, Eds. Halsted (Wiley), New York, 1976. xvi, 966 pp., illus. + index. \$47.50. *To order this book circle No. 446 on Readers' Service Card*

**Progress in Psychobiology and Physiological Psychology.** Vol. 6. James M. Sprague and Alan N. Epstein, Eds. Academic Press, New York, 1976. xiv, 296 pp., illus. \$23.50. *To order this book circle No. 499 on Readers' Service Card*

**Recrystallization and Grain Growth in Metals.** P. Cotterill and P. R. Mould. Halsted (Wiley), New York, 1976. vi, 410 pp., illus. \$27.50. *To order this book circle No. 447 on Readers' Service Card*

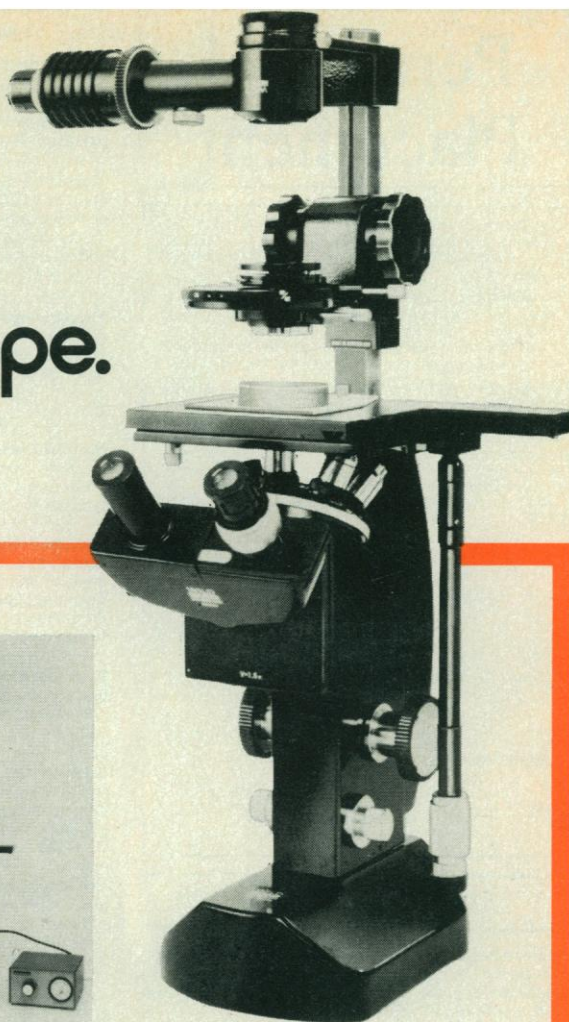
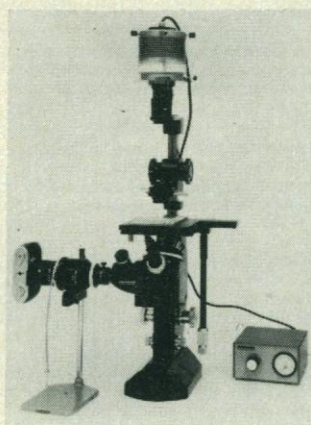
**Renormalization Theory.** Proceedings of a NATO Advanced Study Institute, Erice, Italy, Aug. 1975. G. Velo and A. S. Wightman, Eds. Reidel, Boston, 1976. viii, 482 pp. \$39.50. NATO Advanced Study Institutes Series C, vol. 23. *To order this book circle No. 500 on Readers' Service Card*

**Respiration of Amphibious Vertebrates.** Papers from a symposium, Bhagalpur, Bihar, India, Oct. 1974. G. M. Hughes, Ed. Academic Press, New York, 1976. xx, 402 pp., illus. \$29.75. *To order this book circle No. 448 on Readers' Service Card*

**Trace Analysis.** Spectroscopic Methods for Elements. J. D. Winefordner, Ed. Wiley-Interscience, New York, 1976. xii, 484 pp., illus. \$24.95. Chemical Analysis, vol. 46. *To order this book circle No. 449 on Readers' Service Card*

**Weak and Electromagnetic Interactions at High Energies.** Part A. Proceedings of a NATO Advanced Study Institute, Cargèse, France, June 1975. Maurice Lévy, Jean-Louis Basdevant, David Speiser, and Raymond Gastmans, Eds. Plenum, New York, 1976. xii, 468 pp., illus. \$39.50. NATO Advanced Study Institutes Series B, vol. 13. *To order this book circle No. 450 on Readers' Service Card*

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## POSITIONS WANTED

**Anatomist-Electron Microscopist**, Ph.D. Teaching experience on several levels. Seeks position in teaching-research. Research associate or assistant professor level. Box 365, SCIENCE. X

**Biochemist-Chemist**, Ph.D. 1966. Broad biochemical research and teaching experience. Publications. Lipid biochemistry, neurochemistry, membranes, proteins, enzymes. Research in diabetes and metabolism. Natural product chemistry. Strong background in analytical methods and radioisotopes. On medical school faculty for last 6 years. Seeks challenging research/teaching position. Box 366, SCIENCE. X

**Biochemist-Immunologist**, Ph.D. 1974. Creative researcher. Experienced in protein fractionation, immunochemistry, enzymology, subcellular fractionation, leukocyte chemotaxis. Seeks challenging research position. Prefers small town location. Box 367, SCIENCE. X

**Entomologist**, M.S. Bright person with research background in pharmacology and behavior. Has had working experience in clinical lab and in research. Seeks industrial or academic research position; preferably in Northeast. Box 368, SCIENCE. X

**Bio-organic Chemist**, Ph.D. 1966. Enzyme structure and reaction mechanisms. Isolation, purification, and amino acid sequence determination of peptides and proteins. Organic synthesis of various radioactive inhibitors. Isolation and purification of cellular components. Familiar with UV, IR, NMR, ORD, CD, MS, paper TL and column chromatography, electrophoreses, immunochemical techniques. Seeks research/teaching position. Box 358, SCIENCE. X

**Developmental/Reproductive Biologist/Ecologist**. Doctorate. Publications cover developmental biology, experimental embryology, teratology, reproduction. Teaching experience: gross anatomy, reproduction, general biology. Seeks research/teaching/administrative position in related areas. United States or abroad. Box 359, SCIENCE. X

**Histocytologist/Arachnologist/Electron Microscopist**. Ph.D. 1976. Two publications; excellence in EM-histology; experience in EM-photograph analysis. Seeks teaching/research or postdoctoral position in medical, industrial, or university level. Box 369, SCIENCE. X

## POSITIONS WANTED

**Immunochemist**, Ph.D. Early retiree seeks new position in teaching, research, or administration. Prefers Southern or coastal location. Salary of secondary importance. Box 371, SCIENCE. X

**Marine Biology Graduate**, B.S. 1976. Seeks employment as assistant or technician. Really wants lab experience. Research experience in university environment, typing skills. Very broad marine background and interests. Willing to travel. Available immediately. Box 372, SCIENCE. X

**Microbiologist**, M.S. 1975. Graduate research in immunology-virology. Two years of working experience as research technician in tissue culture-virology. Desires laboratory position in areas of tissue culture, virology, or immunology. Box 373, SCIENCE. X

**Medical Entomologist**, M.S., extensive research and teaching experience in bionomics and taxonomy; seeks associate or technical position in public health laboratory. Box 360, SCIENCE 8/13, 20, 27

**Microbiologist**, Ph.D./D.M.D. Broad background in dental, medical, and allied health schools, including medical microbiology, virology, and immunology. Teaching, administrative, and clinical experience. Publications. Desires academic, industrial, or public health position. Box 374, SCIENCE. X

**Reproductive Biology**, Ph.D. with basic degree in veterinary science. Experience in cell and organ culture and radioimmunoassay. Research or teaching position. Box 375, SCIENCE. X

**Scientist**, Ph.D., 15 years in pharmaceutical industry. Extensive experience in preclinical research, clinical investigation, and regulatory affairs. Many accomplishments. Seeks senior position. Box 376, SCIENCE. X

**Sociobiologist-Eco/Etho/logist-Radiation Entomologist**. Visiting research-teaching position in radioentomology in Germany; 2-year postdoctoral associateship (competition-aggression in pyrolytotypes); 8 years of field, laboratory, and teaching experience; 12 major publications. Ph.D. 1973. Preferred research interests: aggression-competition with isotopes; ethological application to pest manipulation; Hymenoptera systematics. Seeks teaching/research or experience-related position. Box 370, SCIENCE. X

**Versatile. Technical Editor, Geologist, Translator**. Experience, publications. Conversant in natural history. Breadth plus depth. Box 377, SCIENCE. X

## POSITIONS OPEN

Marquette University School of Dentistry is seeking an **ANATOMIST** for its basic science faculty. Must have Ph.D. Responsibilities include teaching and research. Send curriculum vitae to **Dr. Joseph Abramowitz, Associate Dean, Marquette University School of Dentistry, 604 North 16 Street, Milwaukee, Wisconsin 53233. An Equal Opportunity Employer.**

### ASSISTANT PROFESSOR NUTRITION/DIETETICS

The Division of Nutritional Sciences, Cornell University, has an immediate opening for a clinical nutritionist, holding the Ph.D. degree in nutrition or a closely related field to teach and direct graduate student research in a newly developed graduate program in clinical dietetics. Send curriculum vitae to **Dr. M. C. Nesheim, Director, Division of Nutritional Sciences, Cornell University, 124 Savage Hall, Ithaca, New York 14853. Cornell University is an Equal Opportunity/Affirmative Action Employer.**

### ASSISTANT PROFESSOR PHARMACEUTICAL SCIENCES

Funding available January 1977 through June 1981. Subsequent funding is not guaranteed at this time. Ph.D. required. Postdoctoral experience desirable. Undergraduate teaching in diagnostic medicinal chemistry (one quarter) and contribution to combined pharmaceutical sciences laboratory course. Maintenance of an active research program required. Applicants should send a résumé, transcripts, description of research interests, and three reference letters to: **Dr. W. L. Nelson, Department of Pharmaceutical Sciences, School of Pharmacy, University of Washington, Seattle, Washington 98195. An Equal Opportunity/Affirmative Action Employer.**

## POSITIONS OPEN

**ANATOMIST/PHYSIOLOGIST**. One academic year appointment starting late September, to carry much of the teaching load of physiologist (reproductive endocrinologist) on sabbatical. Other major responsibility is to write (not teach) by June 1977 detailed human anatomy/physiology curriculum specifically adapted to needs of physicians assistant trainees. Ph.D. or equivalent training desired. Teaching experience in anatomy/physiology at intermediate to advanced level required. Level of appointment and salary commensurate with experience. Send curriculum vitae and names of three or more references to **Dr. Henry O. Werntz, Chairman, Anatomist/Physiologist Search, Biology Department, Northeastern University, Boston, Mass. 02115. An Equal Opportunity/Affirmative Action Employer.**

**ASSISTANT OR ASSOCIATE ELECTRON MICROSCOPIST**. Position immediately available in new TEM laboratory. Qualifications include proficiency in the preparation of biological materials for EM studies and in the operation and routine maintenance of the electron microscope and other items of laboratory instrumentation. The nature of the position is to assist the supervisor in the operation of the EM laboratory as a service laboratory in a multidisciplinary medical school setting. Address inquiries to **Dr. Alvin S. Levine, Director, Indiana University School of Medicine, Terre Haute Center for Medical Education, Indiana State University, 135 Holmsted Hall, Terre Haute, Indiana 47809. An Equal Opportunity/Affirmative Action Employer.**

### LAURENTIAN UNIVERSITY ASSISTANT PROFESSOR OF ASTRONOMY

The Institute of Astronomy invites applications for one faculty position at the assistant professor level, to be appointed in fall 1976. A Ph.D. in astronomy or astrophysics is required. The candidate selected will be expected to teach undergraduate courses in astronomy and to participate in the planetarium presentations. Bilingual candidates (English and French) are preferred. Applicants should send a curriculum vitae and names of three referees to:

**Dr. Serge Demers  
Institute of Astronomy  
Laurentian University  
Sudbury, Ontario  
Canada P3E 2C6**

### UNIVERSITY OF CANTERBURY CHRISTCHURCH, NEW ZEALAND CHAIR OF BOTANY

The council of the University invites applications for a chair of botany. This chair, one of two established in the Department, becomes vacant by the retirement of Professor W. R. Philipson, the present head of the Department. The appointee will take up his/her position on 1 February 1977 or at such later time as may be arranged. No particular specialization is sought but candidates should have a sympathetic interest in the work at present undertaken throughout the Department regardless of their own special qualifications. The appointee may be required to assume the headship of the Department for an initial 5-year term. At present the salary for a professor is within the range of NZ\$16,806 to NZ\$21,176 per annum. The commencing or subsequent salary of the appointee may be increased as a result of the review of individual professorial salaries which the University makes at the beginning of each year. Applications close on 30 September 1976 with the undersigned, from whom further particulars can be obtained. Apply **Registrar, University of Canterbury, Christchurch, New Zealand.**

**CHAIRPERSON**, Department of Civil Engineering, University of Washington. The Department is a major unit of a large state-supported university with a strong orientation toward graduate education and research. Desired qualifications include an established reputation in civil engineering education, a strong record of research accomplishment, and competence in organizational leadership.

Please address correspondence, nominations, applications, and résumés to:

**Dr. Morris E. Childs, Chairman  
Department of Mechanical Engineering FU-10  
University of Washington  
Seattle, Washington 98195**

by 30 September 1976.

*An Equal Opportunity/Affirmative Action Employer*



## POSITIONS OPEN

### ASSISTANT RESEARCH PHYSIOLOGIST

Applicants should have experience in animal and/or clinical electrophysiology. Some familiarity with signal analyzing techniques may be helpful. This position, which will be available during or after late summer 1976, is designed as a postdoctoral experience, but other qualified individuals may be considered. Send curriculum vitae and the names of three references to:

**A. A. Buerger, Ph.D.**  
Assistant Professor  
Department of Physical Medicine and  
Rehabilitation and Physiology  
California College of Medicine  
University of California, Irvine  
Irvine, Calif. 92717

*Applications are sought from all qualified candidates; minorities and women are encouraged to apply. An Equal Opportunity/Affirmative Action Employer.*

### UNIVERSITY OF MICHIGAN

**Associate Professor,  
Assistant Professor,  
Professor, Instructor**

Candidate must be Board-certified. Entering level commensurate with qualifications and experience. The physician will take part in the programs of patient care, teaching, and research carried on in the Department of Radiology. He or she will supervise activities of the resident staff and aid in teaching of residents and medical students. Code: 900F0. Send résumé to **Box 378, SCIENCE. A Nondiscriminatory, Affirmative Action Employer.**

### CHAIRMANSHIP DEPARTMENT OF ANATOMY UNIVERSITY OF HEALTH SCIENCES/ THE CHICAGO MEDICAL SCHOOL

**QUALIFICATIONS:** Teaching, research, and administrative experience.

**ORGANIZATION:** A private, nonprofit, nonsectarian, coeducational university, and an Equal Opportunity/Affirmative Action Employer.

**APPLICATION:** Send curriculum vitae and three letters of reference to: **Dr. Eric R. Brown, Department of Microbiology, University of Health Sciences/The Chicago Medical School, 2020 West Ogden Avenue, Chicago, Illinois 60612.**

### Wisconsin Clinical Cancer Center University of Wisconsin Medical School CLINICAL PHARMACOLOGIST, M.D.

Junior faculty position in the Department of Human Oncology.

Experience in analytical pharmacology of antitumor drugs essential. Responsible for collaborative clinical research program in chemotherapy of human tumors.

Send curriculum vitae and inquiries to: **Paul P. Carbone, M.D., Director, Clinical Oncology, 701C University Hospitals, 1300 University Avenue, Madison, Wisconsin 53706.**

*Equal Employment Opportunity (M/F)/Affirmative Action Employer.*

### Wisconsin Clinical Cancer Center University of Wisconsin School of Medicine and Veterans Administration Hospital, Madison, Wisconsin

**MEDICAL ONCOLOGIST** certified in internal medicine and medical oncology and experienced in chemotherapy of solid tumors sought for clinical position with the Veterans Administration Hospital in Madison. Opportunity to develop related laboratory research program. The individual selected will have a faculty appointment in the Department of Human Oncology, be responsible for clinical research and teaching at the VA Hospital, and participate fully in the activities of the Division of Clinical Oncology. Send inquiries and curriculum vitae to: **Paul P. Carbone, M.D., Director, Clinical Oncology, 701C University Hospitals, 1300 University Avenue, Madison, Wisconsin 53706.**

*Equal Employment Opportunity (M/F)/Affirmative Action Employer.*

## POSITIONS OPEN

### CHAIRMAN—DEPARTMENT OF RADIOLOGY

The University of Pittsburgh is recruiting a Chairman for the Department of Radiology. This individual will also serve as radiologist-in-chief of the University Health Center of Pittsburgh. The candidate must have expertise and demonstrated leadership in the field of radiology and the required certification for assuming the clinical responsibilities of radiologist-in-chief.

Candidates should submit curriculum vitae to:

**Thomas J. Gill III, M.D.**  
Chairman, Radiology Search Committee  
University of Pittsburgh  
School of Medicine  
Department of Pathology  
Pittsburgh, Pa. 15261

### DEAN COLLEGE OF ENGINEERING UNIVERSITY OF ARIZONA

Nominations and applications are sought for the position of Dean, College of Engineering, at the University of Arizona, Tucson, Arizona.

Qualifications: earned doctorate or equivalent in engineering, with substantial experience and identifiable research contributions.

Responsibilities: dean is responsible to the president of the University for operation of the College including instruction, research, and public service.

Salary: commensurate with qualifications.

Effective date: 1 July 1977.

Closing date for applications: 15 October 1976.

Applicants should submit a complete résumé with references. Nominations should include addresses and phone numbers. All materials should be sent to:

**Dr. Robert L. Seale, Chairman  
Dean Search Committee  
Department of Nuclear Engineering  
College of Engineering  
University of Arizona  
Tucson, Arizona 85721**

*An Equal Opportunity/Affirmative Action Employer*

### DIRECTOR AND PROFESSOR DIVISION OF BIOLOGY KANSAS STATE UNIVERSITY

The Division of Biology, in the College of Arts and Sciences, has 45 faculty members encompassing all areas of biology. Undergraduate and graduate degrees are offered in biology, microbiology, and fisheries and wildlife biology. The director will be responsible for administrative leadership and future development in research, instruction, and service. Essential qualifications include an outstanding record of accomplishment in research and excellence in teaching, in addition to evidence of administrative ability. Candidates should submit a current curriculum vitae including the names of three persons qualified to discuss in depth the applicant's qualifications, by 15 November 1976. Applications or nominations should be addressed to **Dr. Brian Spooner, Chairperson, Biology Directorship Search Committee, c/o Dean of Arts and Sciences, Eisenhower Hall, Kansas State University, Manhattan, Kansas 66506.**

*Kansas State University is an Affirmative Action Employer and earnestly solicits applications and nominations on behalf of qualified female and minority candidates.*

### DIRECTOR, DEPARTMENT OF MICROBIOLOGY-VIROLOGY

**Hazleton Laboratories America, Inc.**, a leading contract research company specializing in the life sciences, is seeking a Ph.D. or D.V.M.-Ph.D. to direct and manage the Department of Microbiology-Virology. This department consists of 45 employees including five doctoral level and has excellent projected growth. Prefer candidate with a minimum of 8 to 10 years of experience including recent management responsibilities. Scientific training and experience should be in areas of mutagenesis, in vitro carcinogenesis, virology, or immunology.

Our staff and modern research facilities are located in suburban northern Virginia, approximately 20 miles west of Washington, D.C. We offer competitive salaries including incentives, full benefits, relocation, and opportunity for continued professional growth.

Interested candidates please send résumés including salary history in complete confidence to **Michael J. Mackert, Personnel Manager, Hazleton Laboratories America, Inc., 9200 Leesburg Turnpike, Vienna, Virginia 22180.**

*Equal Opportunity Employer, M/F*

## POSITIONS OPEN

The Arizona-Sonora Desert Museum seeks a **DIRECTOR** to take full responsibility for planning and developing programs and facilities and for day-to-day operations according to policies established by a Board of Trustees and, in association with the Trustees, for providing necessary funding. Doctoral degree in one of the natural sciences preferred and at least a master's degree required, with at least 7 years of progressively more responsible experience in institutional management. Compensation according to age, training, and experience. Decision desirable by 31 December 1976. Reply to **Arizona-Sonora Desert Museum, P.O. Box 5607, Tucson, Arizona 85703. Attention: Chief Administrative Officer.**

**DIRECTOR OF LABORATORIES**—Pathologist to develop and supervise diagnostic services in student health center and new \$18 million outpatient clinic, opening early 1977. Candidates must be Board-certified (anatomic and clinical); have considerable experience in operation and direction of clinical laboratories; and have demonstrated ability to teach and develop research program. Salary and academic rank negotiable.

Contact **R. W. Leader, Chairman, Department of Pathology, Michigan State University, East Lansing, Michigan 48824. Telephone: 517-355-6504.**

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

A line faculty appointment of appropriate rank is offered for an **EPIDEMIOLOGIST** with demonstrated training and experience in any of three fields: occupational diseases, chronic diseases/cancer, or assessment of community health service needs. Responsibilities include instruction in epidemiology and preventive medicine; possible graduate instruction; and initiation of epidemiologic studies for evidence of preventable disease in occupational or community populations served by the medical school, or in selected chronic disease categories. Qualifications include Ph.D./M.D.; two or more years of experience in independent conduct of epidemiologic studies demonstrated by success in proposing/funding studies, senior authorship of published reports, or other evidence of leadership. *Applications from all qualified candidates are welcome; minorities and women are encouraged to apply.* Closing date: 27 September 1976.

Send résumé and names of at least three references to:

**T. Timothy Crocker, M.D.**  
Chairman, Department of Community  
and Environmental Medicine  
College of Medicine  
University of California  
Irvine, California 92717

The Department of Fisheries and Wildlife, Michigan State University, is seeking a **FISHERIES SCIENTIST** to fill a permanent teaching/research position at the assistant professor level. Responsibilities will include teaching a course in ichthyology and a related specialty course. Applicants should have training and competence for an active program of research on Great Lakes fisheries and be interested in undergraduate and graduate training. A curriculum vitae, transcripts, reprints of relevant publications, a full description of research interests, and names and addresses of at least three references should be submitted to: **Dr. C. D. McNabb, Department of Fisheries and Wildlife, Michigan State University, East Lansing, Michigan 48824, by 30 September 1976.** *Michigan State University is an Affirmative Action/Equal Opportunity Employer.*

## PHYSIOLOGIST

The University of Massachusetts Medical School, Department of Physiology, invites applications for a faculty position at a rank and salary dependent upon qualifications. Candidates must be committed to development of an active research program and must be able to teach medical and graduate physiology. Preference will be given to candidates with a molecular or biophysical orientation. Please send curriculum vitae, reprints, and references to **Dr. H. Maurice Goodman, University of Massachusetts Medical School, 55 Lake Avenue North, Worcester, Mass. 01605. An Equal Opportunity/Affirmative Action Employer, M/F.**

## POSITIONS OPEN

### GENETICS

Assistant professor of biology. An opening will be available 1 January 1977 for a Ph.D. in genetics and related fields. Preference will be given to persons with teaching interests in both molecular and organismal genetics and research experience in either of these fields. Applicants should submit a copy of curriculum vitae, a list of publications, pertinent reprints, three letters of recommendation, and a brief statement of immediate research objectives to:

**Dr. L. A. Cuervo**  
Chairman, Search Committee  
Department of Biological Sciences  
Florida International University  
Tamiami Trail  
Miami, Florida 33199

### GROSS ANATOMIST

Assistant professor of biology. An opening will be available 1 January 1977 for a Ph.D. in gross anatomy. Duties involve taking charge of a three-quarter course in gross human anatomy with cadaver dissection. This course is given to health-related and arts and sciences majors and is of high professional quality. Preference will be given to candidates with teaching and research interests in ultrastructure/cell biology. Applicants should submit a copy of curriculum vitae, a list of publications, pertinent reprints, three letters of recommendation, and a brief statement of immediate research objectives to:

**Dr. L. A. Cuervo**  
Chairman, Search Committee  
Department of Biological Sciences  
Florida International University  
Tamiami Trail  
Miami, Florida 33199

**IMMUNOLOGIST**—Faculty position open September 1976, at assistant professor rank, to teach immunology and pathophysiology and establish research program. Ph.D. required. Submit complete curriculum vitae and names of three references, by 16 August 1976, to **Dr. H. G. Marshall, Chairman, Department of Biological Sciences, Old Dominion University, Norfolk, Va. 23508.** An Affirmative Action/Equal Opportunity Employer.

**INSTRUCTOR/ASSISTANT PROFESSOR EARTH SCIENCE** in commuter college. Teach introductory courses: physical or historical geology, environmental and/or physical oceanography. Develop multidisciplinary course in the history of science and its impact on the development of Western society. Qualifications: minimum of master's degree in earth science, 2 years of teaching experience; experience with adult learners and nontraditional learners for interdisciplinary and integrated programs. Salary: \$10,000 to \$12,000 depending on qualifications. Send applications before 15 September 1976 to **Earth Science Search Committee, University of New Hampshire, Merrimack Valley Branch, R.F.D. 4, Hackett Hill Road, Manchester, N.H. 03102.** The University of New Hampshire is an Affirmative Action/Equal Opportunity Employer.

**PATHOLOGIST:** Applications are invited from individuals with M.D. or Ph.D. degrees who are actively involved in research of structural macromolecules. Appointment will be at the level of **assistant professor** or above. Primary teaching responsibilities will be in courses for medical students and graduate students in experimental pathology. Applications and curriculum vitae should be sent by 1 October 1976 to **Dr. Robert E. Priest, Department of Pathology and Laboratory Medicine, Emory University, Atlanta, Georgia 30322.** An Equal Opportunity/Affirmative Action Employer. Applications from minority candidates and women are encouraged.

### POSTDOCTORAL FELLOW

Position available in cancer research on or before 1 September 1976. Research will involve isolation, purification, and characterization of cellular plasmidogen activators and their roles in the proliferation of malignant cells. Expertise in protein purification, enzymology, and radioimmunoassays desirable.

Qualified candidates should send curriculum vitae with names for reference to:

**M. L. Knill—Recruitment**  
Department 610  
**FREDERICK CANCER RESEARCH CENTER**  
Litton Bionetics, Inc.  
P.O. Box B  
Frederick, Md. 21701  
An Equal Opportunity Employer, M/F

## POSITIONS OPEN

**Ph.D.—Clinical Research Center Laboratory.** Experience in radioimmunoassay. Apply to: **Dr. John T. Nicoloff, University of Southern California School of Medicine, 2025 Zonal Avenue, Los Angeles, California 90033.** Telephone: 213-226-4632.

The Department of Surgery of the Medical College of Pennsylvania, Philadelphia, is seeking a **POSTDOCTORAL FELLOW** (Ph.D.) interested in immunobiology of cancer and transplantation who has experience in primary culture, somatic cell hybridization, and in vitro techniques to evaluate cellular immunity. This individual must be able to work independently.

Inquiries should be directed to **Dr. S. C. Bansal, Department of Surgery, The Medical College of Pennsylvania, 3300 Henry Avenue, Philadelphia, Pennsylvania 19129.**

**POSTDOCTORAL POSITION**—to be filled before 1 July 1977. Research on the eye and visual system. Program includes biophysics, biochemistry, histology, electrophysiology, and psychophysics. Beginning salary range \$10,000 to \$13,200. Send résumé and letters of recommendation to: **Dr. H. G. Sperling, University of Texas Graduate School of Biomedical Sciences, Sensory Sciences Center, 6420 Lamar Fleming Boulevard, Houston, Texas 77025.** An Equal Opportunity Employer.

### POSTDOCTORAL POSITION

Experience in protein purification and characterization required. Salary \$10,500 for the first year. Position renewable. Send curriculum vitae and a list of three personal references to **Dr. E. P. M. Candido, Department of Biochemistry, University of British Columbia, Vancouver, British Columbia, Canada V6T 1W5.** The University of British Columbia is an Equal Opportunity Employer.

**POSTDOCTORAL POSITION:** Available immediately. Research on steroids biogenesis in intestinal tract in relation to colon cancer. \$10,470 for 12 months. Send curriculum vitae, experience, and names of three references to **University of Minnesota, Hormel Institute Search Committee 76C, 801 16th Avenue, NE, Austin, Minnesota 55912,** before 23 August. An Equal Opportunity/Affirmative Action Employer.

### POSTDOCTORAL POSITIONS Ph.D. CHEMICAL PHYSICISTS/ATOMIC PHYSICISTS

Research positions in an experimental collisions program. Work includes photodetachment of negative ions, production, detection, and gas phase scattering of excited atomic beams and ion beam collisions. Scattering experience desired; laser experience helpful. Send résumé to **Ruth Goertler, Senior Personnel Representative, Stanford Research Institute, 333 Ravenswood Avenue, Menlo Park, Calif. 94025.** An Equal Opportunity Employer.

### PREDOCTORAL POSITION

Department of Physiology and Biophysics has a graduate student assistantship (\$3900 per year) available immediately. Send inquiries to: **Dr. D. R. Richardson, Director of Graduate Studies, Department of Physiology and Biophysics, University of Kentucky Medical Center, Lexington, Kentucky 40506.**

Affirmative Action/Equal Opportunity Employer

**SYSTEMS ECOLOGIST (ASSISTANT PROFESSOR):** Full-time research in the application of concepts and procedures of systems ecology to solve resource management problems associated with natural and man-modified ecosystems. Ph.D. in systems ecology, one degree (or demonstrated experience) in resource management field, and the desire to work cooperatively with wildlife, range, and forest scientists are essential. Tenure-accruing 12-month appointment. Salary commensurate with qualifications. To apply, send transcripts, curriculum vitae, three letters of recommendation, and a statement of research and teaching interests to: **Systems Ecology Search Committee, Attention: Dr. W. H. Smith, School of Forest Resources and Conservation, University of Florida, Gainesville, Florida 32611.** The University of Florida is an Equal Opportunity/Affirmative Action Employer.

## POSITIONS OPEN

**POSTDOCTORAL POSITION:** Recent Ph.D. with strong background in biochemistry to participate in research on membrane proteins involved in sugar transport in mammalian cells. Project involves isolation, characterization, and reconstitution of transport systems. Previous experience in membrane biochemistry is desirable, but not required. Position available immediately. Stipend is \$10,000 to \$12,000 for 12 months. Send résumé to **Dr. Shin Lin, Department of Biophysics, Johns Hopkins University, Baltimore, Md. 21218.**

**POSTDOCTORAL POSITION—LIPIDS AND MODEL MEMBRANES.** Through March 1978, with renewal possible. For biochemist-organic chemist, project involving synthesis and isolation of model lipids and physicochemical studies (membrane permeability, monolayers). Salary \$11,000, or higher, according to experience and qualifications. **H. Broderhoff, Department of Neurochemistry, Institute for Basic Research in Mental Retardation, 1050 Forest Hill Road, Staten Island, New York 10314.**

**POSTDOCTORAL POSITIONS** (three) for chemists, engineers, or physicists with training in laser spectroscopy, electron microscopy, or GC-mass spectroscopy. Experimental research directed toward atmospheric chemistry problems. \$12,000 per year (renewable). Contact **R. J. O'Brien, Interdisciplinary Environmental Sciences Doctoral Program, Portland State University, Portland, Oregon 97207.**

Equal Opportunity/Affirmative Action Employer

### POSITION IN RADIOLOGICAL SCIENCES AT THE UNIVERSITY OF CALIFORNIA, COLLEGE OF MEDICINE, IRVINE

The Department of Radiological Sciences at the University of California, Irvine, invites applications for a full-time position in **ULTRASOUND** at assistant professor level. Applicants should be Board-certified radiologists with special training in ultrasound, preferably at a university medical school, and must be prepared to develop a research program in ultrasound. The post will include responsibility for the clinical operation of the ultrasound department and teaching at undergraduate and resident levels. The successful candidate will be based at the VA Hospital, Long Beach (Chief of Radiology, Dr. Henry Pribram), and will be appointed to the faculty of the University of California, College of Medicine, Irvine. The residency program in radiological sciences is completely integrated between the University of California, Irvine, Medical Center, the VA Hospital, Long Beach, and Memorial Hospital, Long Beach.

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  
College of Medicine  
University of California, Irvine  
Irvine, California 92717

Closing date: 3 September 1976.

### POSITION IN RADIOLOGICAL SCIENCES AT THE UNIVERSITY OF CALIFORNIA, IRVINE, COLLEGE OF MEDICINE

Applications are invited for a post at the assistant professor level in the Section of Therapeutic Radiology at the University of California, College of Medicine, Irvine. This will be a full-time position with responsibilities for teaching at undergraduate and graduate levels and for clinical research and service in the University of California, Irvine, Medical Center. The applicant should be a Board-certified radiologist preferably with a minimum of 3 years of experience in therapeutic radiology in a university medical school and must be prepared to engage in ongoing research and to develop new research protocols. Applications from all qualified candidates are welcome; minorities and women are encouraged to apply. Applications, including 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  
College of Medicine  
University of California, Irvine  
Irvine, California 92717

Closing date: 27 August 1976.

**THE W.K. KELLOGG RADIATION  
LABORATORY OF THE  
CALIFORNIA INSTITUTE OF TECHNOLOGY  
INVITES APPLICATIONS FOR POSITIONS AS:**

- 1) ASSISTANT PROFESSOR OF EXPERIMENTAL PHYSICS.
- 2) POSTDOCTORAL FELLOWSHIPS IN THEORETICAL AND EXPERIMENTAL PHYSICS.

The faculty position requires an interest in teaching and in experimental research in one or more of these areas: nuclear reactions of astrophysical importance; determination of solar system chronology and element abundances by high precision mass spectroscopy of lunar and meteoric samples; optical spectroscopy related to solar abundances, sputtering, and other radiation-damage processes; heavy-ion induced nuclear reactions; and the use of nuclear techniques to study fundamental interactions.

The postdoctoral positions are available to experimentalists interested in the areas mentioned above, and to theorists wishing to work on related problems. Theoretical programs now in progress include both detailed and semiempirical models of nuclear reactions in stars, theoretical studies of heavy-ion reactions utilizing modified-liquid-drop and microscopic models, the interaction of muons with matter, and models of sputtering in systems of varying complexity.

Available facilities include: low-energy accelerators for measuring nuclear and atomic cross sections and reaction rates, laboratories for isotopic analysis of lunar rocks and meteorites, ultra-high-vacuum chambers used for lunar-sample and sputtering measurements, on-site IBM 370/158 and PDP-10 computers, and a terminal connection to a CDC 7600 computer. Scanning electron microscope and ion microprobe facilities are to be installed.

These positions may be open as early as fall 1976. Applicants are asked to send a résumé including a list of publications, names of three references, and a statement of research interests to:

**Professor T. A. Tombrello  
Kellogg Radiation Laboratory 106-38  
California Institute of Technology  
Pasadena, California 91125**

*The California Institute of Technology is an Equal Opportunity Employer with an Affirmative Action Program, and encourages applications from women and members of minority groups.*

## PROGRAM MANAGERS

The Energy Research and Development Administration is seeking Program Managers within the Technology and Consumer Products Branch, of the Office of Energy Conservation. Appointments under the Intergovernmental Personnel Act are available immediately to persons presently employed by non-federal public institutions or by private and public universities.

Responsibilities include technical management of energy conservation research, development, and demonstration programs relating to energy consuming components found in buildings, among which are appliances, heating, cooling and ventilating equipment, lighting, controls, and telecommunications. Applicants should have technical or scientific background in one or more of these areas, and an interest in management and direction of energy conservation research and development programs contracted to other organizations by ERDA.

Term: 1-2 years. Financial arrangements: Cost is borne entirely by ERDA by means of a contract with applicant's home institution, covering salary plus per diem living expenses in Washington, relocation expenses, fringe benefits, and home institution overhead. Apply by submitting Federal form SF-171, together with relevant publications or other supporting material, to: Dr. Kurt W. Riegel

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## INSTITUTE DIRECTOR

The Illinois Department of Mental Health and Developmental Disabilities and the University of Illinois at Chicago Circle invite applications for the position of director, Illinois Institute for Developmental Disabilities. This Institute (formerly the Illinois State Pediatric Institute) is a special, nonresidential facility in the Illinois Department which includes clinical services, training, and research activities for the developmentally disabled. This position also includes director and professor in a new center for training and research in developmental disabilities, to be operated jointly by both the Illinois Department of Mental Health and Developmental Disabilities and the University of Illinois' Chicago Circle and Medical Center campuses. The candidate should have an outstanding professional record in developmental disabilities, including clinical, training, and scholarly activities. His/her specialty may be in a behavioral or biological science, or in medicine. The candidate must have demonstrated leadership abilities. The position requires a major commitment to clinical, training, and research program development in relation to the participating organizations.

Located in Chicago. Salary range of \$40,000 to \$50,000; negotiable, according to qualifications. Applications with pertinent biographical information should be sent to

**Peter K. Levison, Ph.D.  
Research and Development Program Advisor  
Illinois Department of Mental Health  
and Developmental Disabilities  
Room 1500  
160 North LaSalle Street  
Chicago, Illinois 60601**

by 30 September 1976.

*The Illinois Department of Mental Health and Developmental Disabilities and the University of Illinois are Equal Opportunity/Affirmative Action Employers. We welcome applications from minority and women candidates.*

### PROGRAM ANNOUNCEMENT NATIONAL INSTITUTES OF HEALTH NATIONAL HEART, LUNG, AND BLOOD INSTITUTE DIVISION OF LUNG DISEASES MEDICAL SCHOOL PULMONARY FACULTY TRAINING AWARDS

The Division of Lung Diseases, National Heart, Lung, and Blood Institute, invites competition for Medical School Pulmonary Faculty Training Awards (MSPFTA) to: strengthen pulmonary faculties at schools of medicine and osteopathy in the United States which have not yet developed adequate programs addressed to respiratory diseases, provide support for junior faculty to strengthen ongoing pulmonary programs, and provide opportunity for junior faculty members to obtain extensive training at centers where a training environment is supported through this program.

The MSPFTA are provided to the school on behalf of its pulmonary faculty trainee. To be eligible, domestic schools must have few of its faculty engaged in full-time teaching, research, and clinical care in respiratory disorders, have little capacity for developing young faculty members, nominate a junior faculty, and provide a faculty position for each junior faculty member at the end of the training period.

Applications must be received prior to 1 October 1976. Information may be obtained from:

**Bitten Stripp, Ph.D.  
Division of Lung Diseases  
National Heart, Lung, and Blood Institute  
5333 Westbard Avenue  
Washington, D.C. 20016  
Telephone: 301-496-7171**

### CSIRO DIVISION OF HUMAN NUTRITION ADELAIDE, S.A. RESEARCH SCIENTIST (TWO POSITIONS)

CSIRO has a broad charter for research into primary and secondary industry areas. The Organization has approximately 7000 employees, 2200 of whom are research and professional scientists, located in Divisions and Sections throughout Australia.

**GENERAL:** The Division of Human Nutrition was established in 1975 at the Adelaide laboratories of the former Division of Nutritional Biochemistry. The Division is continuing to develop its biochemical and physiological studies with programs in inorganic nutrition and human metabolism and digestion. Under the direction of the Chief, Dr. B. S. Hetzel, a new epidemiological program is being established to investigate nutritional problems at the community level.

#### 1) REF: PG250/240—BIOCHEMIST

**FIELD:** Human metabolism and digestion.

**DUTIES:** To work in a program on metabolic regulation currently involved with the study of the effects of diet and endocrine imbalance on substrate utilization by various isolated mammalian cells. With a major interest in aspects of utilization of foodstuffs, obesity, and metabolic disorders, it is proposed to develop studies on the dissipation of energy by substrate cycling and integrate this work with in vivo studies on appropriate animal models.

#### 2) REF: PG250/241—NUTRITIONAL/ENVIRONMENTAL SCIENTIST

**FIELD:** Trace elements in human health.

**DUTIES:** The program on trace elements has evolved from studies on cobalt, copper, zinc, and selenium in animal nutrition. Special attention will be given to the toxicity of heavy metals (cadmium and lead) and to trace element deficiency (zinc). Epidemiological studies are contemplated.

**QUALIFICATIONS:** Training and experience in an appropriate discipline, including a Ph.D. degree or equivalent qualification. Applicants should have an established record of research.

**SALARY:** Appointment will be made within the salary ranges of senior research scientist or principal research scientist: A\$16,697 to A\$22,704 per year.

**TENURE:** Indefinite, with superannuation or fixed term appointment.

Applications stating full personal and professional details, with the names of at least two referees and quoting either reference number 250/240 or 250/241, should reach:

**The Chief  
Division of Human Nutrition  
Kintore Avenue  
Adelaide, S.A. 5000, Australia**

by 20 August 1976.

## POSITIONS OPEN

Le Département de biochimie de l'Université de Montréal recherche deux **PROFESSEURS** travaillant sur les systèmes eucaryotes. Les candidats doivent avoir un doctorat, de l'expérience postdoctorale et parler couramment le français. La tâche inclut l'enseignement et la recherche. Les candidatures accompagnées d'un curriculum vitae, d'un programme de recherche, et des noms de trois répondants seront adressées à: **Comité de sélection, Département de biochimie, Université de Montréal, C.P. 6128, Montréal, Québec, Canada H3C 3J7.**

**REGISTERED NURSE** with master's degree or equivalent experience licensed to practice professional nursing in the State of Louisiana for Family Practice Program faculty position. Salary negotiable. Submit written résumé. **Personnel Office, Louisiana State University School of Medicine, Box 33932, Shreveport, Louisiana 71130. Equal Opportunity Employer.**

### RESEARCH ASSOCIATES (two positions)

Ph.D. or M.S. in one of the biological sciences with strong background in organic or environmental chemistry, or Ph.D. or M.S. in organic chemistry with a background in biology. Investigate environmental degradation of pesticides and industrial chemicals.

Ph.D. or M.S. in algal or plant physiology, phycology, or microbiology. Study the effects and metabolism of environmental pollutants in algae.

Send résumé, including salary history and three references, to: **Personnel Manager, Syracuse Research Corporation, Merrill Lane, Syracuse, New York 13210.** Syracuse Research Corporation is a not-for-profit research organization. *Equal Opportunity/Affirmative Action Employer.*

**SOLAR RESEARCH DIRECTOR**—Program of R & D of solar heating and cooling components in new facility, Boulder City, Nevada. Ph.D. or equivalent experience in engineering physics, mechanical or electrical engineering. Training in optics of solar spectrum. Extensive experience in thermodynamics especially as applied to refrigeration. Some management experience and entrepreneurial experience in promoting contracts from government agencies and industry. Able to apply scientific information in innovative ways to develop usable solar energy equipment. Minimum starting salary \$30,000. Application deadline 1 September 1976. Send résumé to **President Lloyd P. Smith, Desert Research Institute, University of Nevada System, Reno, Nevada 89507. An Equal Opportunity/Affirmative Action Employer.**

## TOXICOLOGIST/ PHARMACOLOGIST

We are currently seeking candidates for a position in toxicology. Candidates should possess a doctorate in toxicology, pharmacology, veterinary medicine, or its equivalent with postdoctoral training in toxicology or physiology. The scientist selected will be involved in the safety evaluation of compounds of potential therapeutic value. Skill in written and oral communication is essential.

Our research laboratories are located in West Point, Pennsylvania, an attractive northwestern suburb of Philadelphia. Starting salary is commensurate with qualifications and is accompanied by excellent fringe benefits.

Please send curriculum vitae with complete list of publications to:

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## POSITIONS OPEN

**POSTDOCTORAL POSITION:** To study the physiological disposition of radioactive-labeled narcotic drugs in laboratory animals. Training in methods of chemical pharmacology required. Research to be performed in the Department of Pharmacology. Stipend \$10,000 for 12 months. Available on or about 1 September 1976. Send résumé and two letters of recommendation to:

**Dr. L. A. Woods  
Medical College of Virginia  
Virginia Commonwealth University  
Box 606—MCV Station  
Richmond, Virginia 23298**

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### RESEARCH ASSOCIATE

Research associate position is immediately available for biochemist Ph.D. Research on protein synthesis and steroid-protein interactions of developing reproductive organs. Send résumé and references to: **Dr. E. Bloch, Department of Gynecology/Obstetrics, Albert Einstein College of Medicine, Bronx, N.Y. 10461. An Affirmative Action/Equal Opportunity Employer.**

The Surgery Department of the Medical College of Pennsylvania, Philadelphia, is seeking a **TISSUE CULTURE TECHNICIAN** experienced in: (i) primary culture of both rodent and human cells, (ii) somatic cell hybridization, and (iii) in vitro techniques to evaluate cellular immunity. This individual must be able to work both independently and as part of a team with other technicians and postdoctoral scholars.

Inquiries should be directed to **Dr. S. C. Bansal, Department of Surgery, The Medical College of Pennsylvania, 3300 Henry Avenue, Philadelphia, Pennsylvania 19129.**

### VICE DEAN RESEARCH/GRADUATE STUDIES FACULTY OF MEDICINE LAVAL UNIVERSITY

Duties: provide leadership in the development and strengthening of the Faculty research and graduate programs; direct and supervise the Faculty research budget and the research and graduate studies office; participate in the direction of the Faculty with the dean and other vice deans.

Qualifications: M.D. or Ph.D.; established research reputation in biomedical science; experience in graduate education and administration; fluency in French.

Salary: negotiable. Starting date: upon nomination.

Applications, including a curriculum vitae and references, should be submitted by 1 October 1976 to **Dr. Pierre Potvin, Secretary, Faculty of Medicine, Laval University, Quebec, Quebec, Canada G1K 7P4.**

## CONFERENCE

### CONFERENCE

#### INTERNATIONAL CONFERENCE ON APPLIED GENERAL SYSTEMS RESEARCH: RECENT DEVELOPMENTS AND TRENDS

15 to 19 August 1977

**State University of New York at Binghamton,  
Binghamton, New York 13901**

The Conference, which is sponsored by the Scientific Affairs Division of NATO, will focus on three themes:

- 1) Progress in general systems research;
- 2) Advances of systems research in biological sciences;
- 3) Impact of systems research in social sciences.

Each theme will consist of one major introductory lecture, symposia reserved primarily for invited principal contributors, and paper sessions reserved for unsolicited papers. English will be the working language. Limited travel funds are available to help defray the transportation costs, primarily for participants from European NATO countries. The Conference is limited to approximately 150 participants. Selection of participants will be based on their contributions to the Conference and on the principle of balanced participation from scientific communities of all NATO countries. Scientists from non-NATO countries can participate, but it will not be possible to cover any of their travel expenses. Contact: **Professor George J. Kllr, School of Advanced Technology, State University of New York, Binghamton, New York 13901.**

## POSITIONS OPEN

**STATISTICIAN:** Responsibilities include statistical analysis and consultation, programming, some administration. Qualifications: Ph.D. or M.S. with 5 years of experience in statistics. Salary: \$17,000 to \$19,000. Send résumé to **Ronald Comer, Health Science Information Systems, Southern Illinois University, School of Medicine, P.O. Box 3926, Springfield, Illinois 62709. An Equal Opportunity/Affirmative Action Employer.**

**TOXICOLOGIST,** Ph.D. or M.D., to collaborate in preparing written summaries of the biomedical and toxicological literature. Part-time or full-time, 1-year appointment, renewal if research contract is renewed. Salary commensurate with experience. Before 7 September 1976, send curriculum vitae to **R. E. Gosselin, Department of Pharmacology and Toxicology, Dartmouth Medical School, Hanover, New Hampshire 03755.**

*Dartmouth is an Equal Opportunity/Affirmative Action Employer.*

## FELLOWSHIPS

**POSTDOCTORAL FELLOWSHIPS:** Immediate opportunity for three fellows in a NIH-sponsored program designed to provide interdisciplinary training in developmental neurology. Training opportunities are available in neuroanatomy, electron microscopy, neural modeling, neurophysiology, histochemistry, neurochemistry, and neuropharmacology as part of basic research projects which include epilepsy, neural plasticity, blood-brain barriers, and neuromuscular disease. Stipends range from \$10,000 to \$14,000. Candidates should have an M.D., Ph.D., or equivalent degree. *The University of Virginia is an Equal Opportunity Employer.* Send applications and curriculum vitae to: **Dr. Norman H. Bass, Director, Clinical Neuroscience Research Center, Department of Neurology, University of Virginia School of Medicine, Charlottesville, Virginia 22901.**

## MARKET PLACE

### ADDITIONAL INCOME

An unusual opportunity is available for qualified professionals in biology, chemistry, or related fields to gain extra income without significant distraction from other interests. We are a highly successful organization preparing medical school applicants for the MCAT exam in over 25 states. We are accepting inquiries from the following areas only: Philadelphia, Pa.; Lincoln or Omaha, Nebraska; Madison, Wisconsin; St. Louis, Missouri; Dayton or Columbus, Ohio. If interested, send brief résumé to **Evergreen MCAT Review Course, Inc., 33 Evergreen Place, East Orange, New Jersey 07018.**

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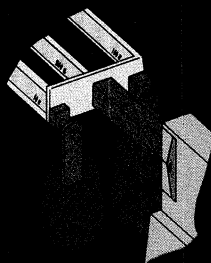


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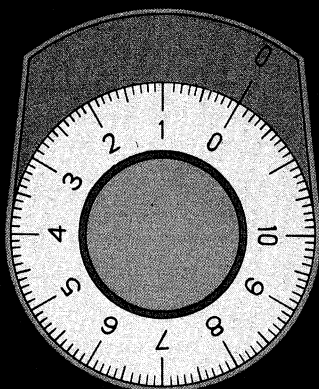


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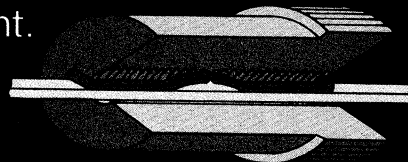
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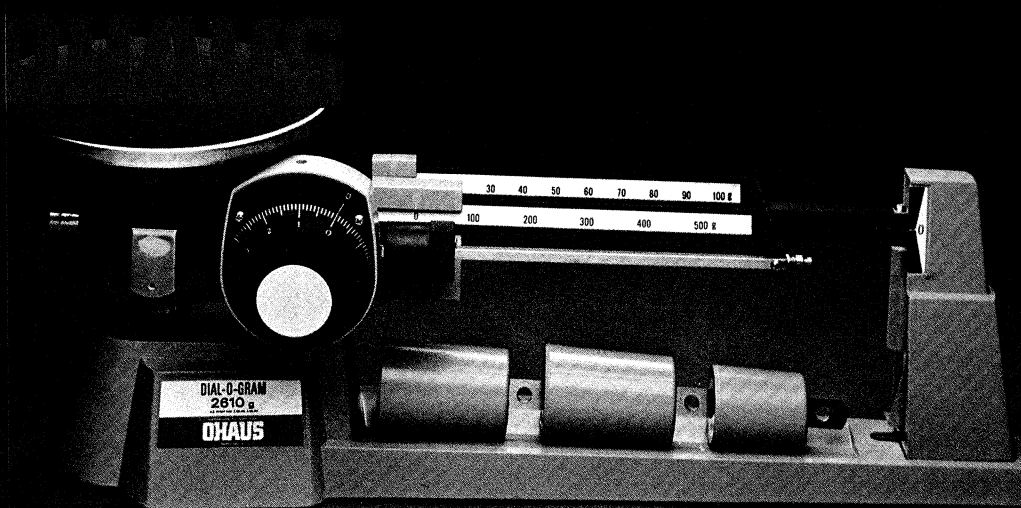


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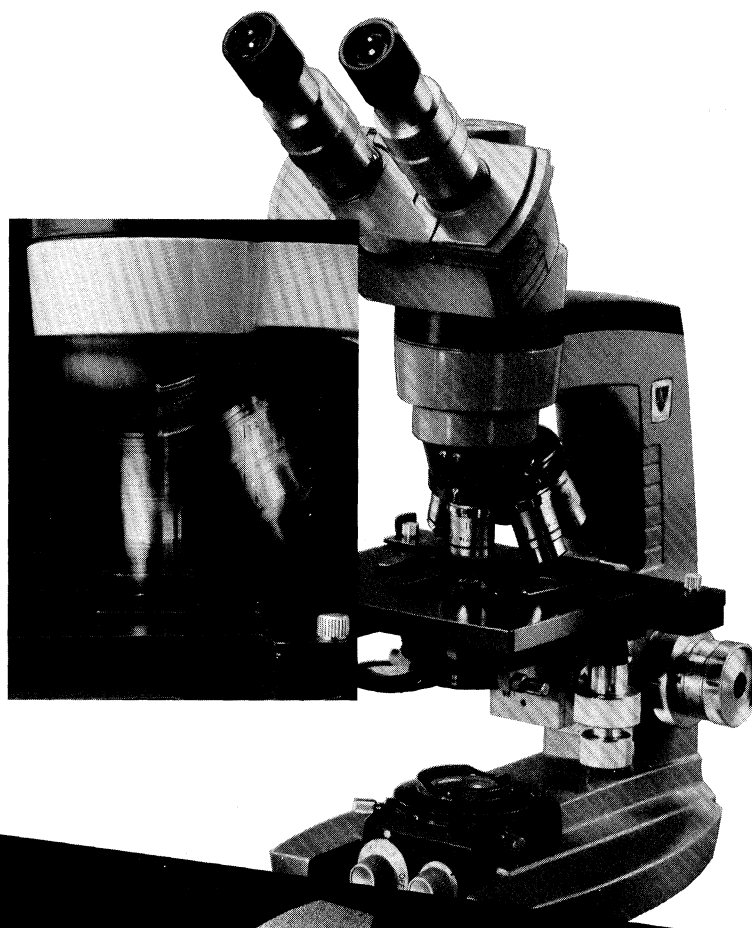
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