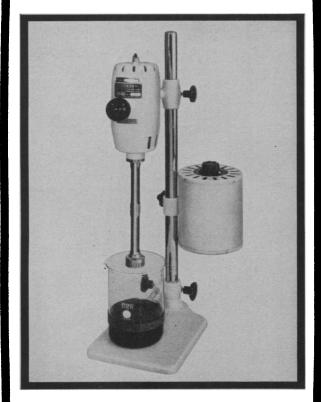
disperser homogenizer emulsifier



.... succeeds where others fail

If you have such a problem, contact us and request a demonstration without obligation.



Research Director MOLECULAR BIOLOGY

Increased emphasis in the basic research programs conducted within the Molecular Biology Research Laboratory has resulted in an excellent opportunity for a person with a Ph.D. and/or M.D., an established reputation, and broad interests in biochemistry, microbiology, genetics, immunology or virology.

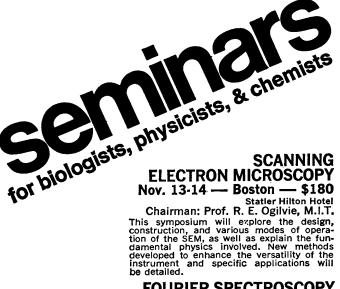
Responsibilities consist of supervising a staff of scientists and directing all research activities of the laboratory including development and execution of programs and their implementation. Further duties include administration of budgets, outside contracts for consultants, fellowships, research grants and services.

If you are interested in this broad and challenging position and in being associated with a rapidly growing, highly diversified research oriented company, please submit complete resume in confidence to:

Dr. L. S. Underkofler, Director Molecular Biology Research Laboratory, Dept. 470-A

MILES LABORATORIES, INC. ELKHART, INDIANA 46514

An Equal Opportunity Employer



FOURIER SPECTROSCOPY Nov. 24 — Los Angeles — \$90 Airport Marina Hotel

Chairman: Dr. R. T. Hall, The Aerospace Corp.

This meeting will describe the basic physics and math concepts of Fourier Spectroscopy and then compare its merits with those of conventional dispersive spectroscopy. Practical techniques including various computational schemes for using the Fourier method will be presented. Also covered will be specific applications.

All meetings include panel sessions which enable attendees to discuss their specific problems with the lecturers.

problems with the lecturers. To register, or for further information, contact: Mr. A. M. Collias, TECHNICAL FORUM ASSOCIATES, INC., 545 Technology Square, Cambridge, Mass. 02139. Tel: 617-354-1626.

SCIENCE, VOL. 166

Personnel Placement

POSITIONS WANTED

Challenging Growth Opportunity exploiting com-munications skills sought by chemist, 33, Ph.D. candidate. Four years biopolymer research experi-ence. Phi Beta Kappa, Sigma Xi, broad back-ground (social sciences, organization, teaching, writing, research abroad, extensive travel). Desires responsible position: editing/writing, administra-tion, technical data management, R&D (preferably not benchwork). Box 379, SCIENCE. X

Cytogeneticist, Ph.D., postdoctoral research experience, desires position in teaching and research or research. Available January. Box 377, SCIENCE. X

Ecologist, 5 years' research on insects and other animals in tropical and temperate ecosystems, seeks September 1970 teaching-research position related to demographic, agricultural and/or pollu-tion problems. Hinckley, Brookhaven, N.Y., 11719. X

Experienced Medical Writer/Editor, 36, writing, editing, literature searches. Good science back-ground. Permanent position or free lance. New York area. Box 375, SCIENCE. X

Microbiologist, Ph.D., February 1970. Publica-tions, strong background in immunology, myco-plasmology. Seeks industrial, clinical, or academic opportunities. Box 378, SCIENCE. X

Microbiologist, Ph.D. Associate professor, special-ty: algal physiology; wishes relocation teaching, grant program to low pollen smogless area for family health. Box 372, SCIENCE. X

Physicist, Ph.D., experienced theoretician at major eastern university, seeks position in science or university administration. Box 376, SCIENCE. X

Reproductive Physiology/Endocrinology, Ph.D., veterinarian, 4 years of postdoctoral experience, publications in clinical endocrinology, pathology and early embryology. Available January 1970, teaching/research. Box 374, SCIENCE. X

Translator-Abstractor, scientific and technical, Slavic languages, French, German and Spanish. Doctorate in Russian, Sorbonne, 1956. American born, for 13 years with government agency. Seeks similar employment. Box 380, SCIENCE. X

Vertebrate Zoologist, Ph.D. Research in physio-logical ecology. Postdoctoral work. Publications. Interested in teaching/research position. Current-ly assistant professor. Box 363, SCIENCE. X

POSITIONS OPEN

DALHOUSIE UNIVERSITY DEPARTMENT OF BIOLOGY

Applications are invited for teaching posts available in the Department 1 July 1970. Acade-mic rank and salary depend on the experience of the candidate. The successful candidate is ex-pected to develop a strong research and Graduate teaching program in one of the following areas: Population genetics; Developmental Physiology or Genetics; Sensory Physiology and Systems Analy-sis; Plant Physiology or Biochemistry; Phycology. Suitable candidates in other areas will be con-sidered. In early 1971 the Department is moving into new quarters with excellent facilities. Applications, giving names of two referees, should be sent to the Chairman, Department of Biology, Dalhousie University, Halifax, Nova Scotia, Canada.

OVERSEAS

OVERSEAS BIOLOGISTS: Ph.D. Additions to biology faculty to teach undergraduate courses and direct Master's studies. Field of specialization should be micro-biology and/or genetics and marine biology and/ or physiology. Appointment 3 years, round-trip transportation allowance for appointee and family; salary dependent upon training and experience; generous fringe benefits. Send two copies of de-tailed résumé to **Personnel Services**, American University of Beirut, 555 Fifth Avenue, New York 16017.

24 OCTOBER 1969

POSITIONS OPEN

Biochemist and Laboratory Assistant

Biochemist and Laboratory Assistant Biochemist M.S. Degree with laboratory experi-ence in the general area of biochemistry, molec-elar biology, or immunochemistry to join a bio-port of the search group. Studies involve binding of chemicals of small molecules with serum pro-teins, immunochemical investigations and method development and assay of enzymes in body fluids. Salary range from \$9,405 to \$12,339 per annum, excellent fringe benefits include Blue Cross-Blue Shield, major medical coverage, pension, pad vacations and sick leave, etc. Located between philadelphia and New York City, near shore and N.J. Turnpike. Laboratory Assistant. Requires B.S. Degree in biochemistry, molecular microbiology or molecu-latove. Salary range \$6,603 to \$7,881. Send résumé to Personnel Director, E. R. John-stone Training and Research Center, Bordentown, New Jersey 08505.

POSITIONS OPEN

DIRECTOR NATIONAL MUSEUM OF NATURAL SCIENCES NATIONAL MUSEUMS OF CANADA OTTAWA

OTTAWA The Board of Trustees of the National Museums of Canada is seeking a candidate for appoint-ment to the position of Director of the National Museum of Natural Sciences, one of the four component institutions of the Corporation. The appointee will assume responsibility for super-vision of all museum programs and activities in the fields of Botany, Vertebrate and Inverte-brate Zoology, Palaeontology and Mineral Sci-ences, and will direct a full-time staff of 52, including 19 research scientists. The salary of the position is currently fixed at

The salary of the position is currently fixed at \$25,000 per annum, and all standard public service employee benefits are available.

Applicants can secure additional information by writing C. J. Mackenzie, Secretary-General, National Museums of Canada, Ottawa 4.

Plant Physiologist

Excellent opportunity for Ph.D. to pursue long-range research in developmental processes of higher plants. Must have strong biochemical background and interest in the mode-of-action of plant hormones.



Send resume in strict confidence to Dr. F. W. Bauer ALLIED CHEMICAL CORP. Corporate Research & Development Div.

P.O. Box 309 Morristown, New Jersey 07960 (An Equal Opportunity Employer)

New 2 Kg optical projection balance ...0.1g accuracy, fast, rugged

New Torbal PL-12 top loader (2000g capac-ity, tare to capacity *plus* 325g, 0.1g accu-racy) provides optical projection readout... fast, easy-to-read, foolproof weighing. *Easy reading* of optical projection with high-quality optics, coated first-surface mir-rors, high illumination.

Easy-to-operate internal weight handling to achieve weighing by substitution with 100 gram increments to 1 kilogram. *Long-lasting accuracy-rugged*, thanks to superior friction-free torsion-band weighing

mechanism; no knife edges to dull or chip. Fast weighing-with no friction to over-come or to build up over the life of the bal-ance, dash pot can be adjusted to attain rest point immediately without undue oscillation. As is typical in Torbal optical balances, minor changes in level do not change the zero point. Long-lasting accuracy of the Torsion construction has been proved by continuous weighings (over 1,750,000 oper-ations) 24 hours a day for 6 months. Also available in an explosion proof model.



THE TORSION BALANCE CO. Dept. S Main Office and Factory: Clifton, N. J.; Sales Offices: Birmingham, Ala.; Chicago, Ill.; San Mateo, Cal.; Pittsburgh, Pa.; Plants and Tornat Offices in Montreal, Quebec; London, England and Waterford, Ireland

POSITIONS OPEN

Research Associate Biologist

Ph.D. or M.D. Full-time research in microbial or human biochemical genetics. Salary: \$15,000 and up, depending on qualifications.

POSTDOCTORATE

FELLOWSHIPS IN MENTAL RETARDATION

Ph.D. or M.D. One or two year Fellowships offering training in laboratory and/or clinical aspects of detection, diagnosis and study of mental retardation. Laboratory emphasis is on biochemical genetics. U.S. citizenship or application for citizenship required. Stipend: In range of \$6,000-\$8,000.

Robert Guthrie, Ph.D., M.D. **Department of Pediatrics** State University of New York at Buffalo **Children's Hospital 219 Bryant Street** Buffalo, New York 14222

GRADUATE STUDY

AEROBIOLOGIST, AEROSOL PHYSICIST

AEROBIOLOGIST, AEROSOL PHYSICIST The Naval Biological Laboratory, of the School of Public Health, University of California, Berkeley, has several openings in the Aerobiology Department. Openings include positions for an Assistant or Associate Research Scientist and a Postdoctorate Fellow. The work may include project responsibility or individual research in theoretical and applied aerobiology relating to public health and industrial aspects of respiratory disease. Requires a Ph.D., or equivalent, prefera-bly in microbiology with a strong background in physical sciences, or a physicist, engineer, or meteorologist with an interest in biological fields. There is ample opportunity for further educa-tion. The specific areas of research include studies of small-particle microbial aerosol characteristics, aerosols in exotic environments, condensation droplet formation, air sampling and animal in-fectivity. The Naval Biological Laboratory is located in the San Francisco Bay Area. Please send curriculum vitae to the Chairman, Aerobiol-ogy Department, Naval Biological Laboratory, School of Public Health (Bidg. T-19), University of California, Berkeley, California 94720.

Postdoctoral Traineeships in Journal Editing. Ap-plications are invited for the third 8-month train-ing program for executive editors of biomedical journals, to begin October 1970. Applicants must have a doctorate (Ph.D. or M.D.) in science and at least 3 years of research experience, including publication in scientific journals. No editorial ex-perience is necessary. All aspects of journal edit-ing and management will be taught through ex-perience with editorial offices of five leading biomedical journals. Trainees will receive a stipend commensurate with their training, exper-ience, and present status. Apply (enclosing a curriculum vitae) by 15 December 1969 to Dr. F. Peter Woodford, The Rockefeller University, New York 10021.

POSTDOCTORAL TRAINEESHIPS IN CLINICAL CHEMISTRY

are available 1 July 1970 to recent Ph.D. bio-chemists and chemists in a program designed to train clinical chemists for positions in research-oriented hospitals. The appointments are for 2 years, with a stipend of \$6000 to \$7000 per an-num (depending upon postdoctoral experience), plus a dependency allowance. Apply before 31 December 1969 to A. Kaplan, Ph.D., Biochem-istry and Laboratory Medicine Departments, Uni-versity of Washington, Seattle, Wash. 98105.

Section Head Pharmacology

Ph.D. or M.D. with four or more years of post-doctoral experience in pharmacological research. Supervise basic and applied laboratory research program on inflammation and immunology.

Interested candidates are invited to apply in strictest confidence to:

- Mr. D. P. Claveloux
- **Geigy Chemical Corporation** Saw Mill River Road, Ardsley, New York 10502

An Equal Opportunity Employer

Geigy

Research Scientist

The Reproduction and Physiology Unit of the Upjohn Company's Agricultural Division has an immediate opening for a Research Scien-tist. The individual selected for this position will be responsible for his. The individual selected for this position will be responsible for developing programs to provide information on the action of various compounds for the control of behavior (repellants, attractants), metab-olism and reproduction in birds and mammals. Will also design pro-grams to discover new and novel compounds which influence these physiological processes. Ph.D. in pharmacology with biochemistry with physiology and/or pharmacology background required.

Please send complete résumé and salary required to P. D. Rysenga The Upjohn Company (An Equal Opportunity Employer) Michigan 49001 Kalamazoo

GRADUATE STUDY

Postdoctoral Research Associate in Human Genet-les. Three-year program in population genetics including 2-year tour of duty overseas with at-tractive tax-free stipend, excellent housing and allowances. Candidates should be trained in human population genetics, biostatistics and must be U.S. citizens. Director, Institute International Mervland 21201. be U.S. citizens. Medicine, 660 W Maryland 21201.

GRADUATE STUDY IN PHARMACOLOGY. A program leading to the Ph.D. degree involving course work and research training which stresses research on fundamental mechanisms of drug action on neural, neuro-humoral, membrane transport, and endocrine systems using electro-physiological, biochemical and computer tech-niques. Full stipend and tuition available to quali-fied U.S. citizens. Early application for September 1970 strongly advised. Department of Pharmacol-ogy, Schools of Medicine and Dentistry, State University of New York at Buffalo, 122 Capen Hall, Buffalo, N.Y. 14214.

PREDOCTORAL ASSISTANTSHIPS AND TRAINEESHIPS IN PHYSIOLOGY

Excellent opportunities for graduate students leading to the Ph.D. Ample stipends and free tuition. Training and research in endocrinology, gastrointestinal, water and electrolyte metabolism, cardiovascular, sensory physiology, energy metab-olism and bioengineering. Write for details, to,

Head, Department of Physiology University of Illinois at the Medical Center P.O. Box 6998

Chicago, Illinois 60680

The Market Plac **BOOKS • SERVICES • SUPPLIES • EQUIPMENT**



Marine Biochemicals

Asterosaponins • Holothurins Cnidarian venoms • Sea snake venoms **Enzymes • Proteins**

Alpine Marine Biochemicals & Drugs



Division of Alpine Geophysical Associates, Inc. Oak Street, Norwood, N. J. 07648 Phone (201) 768-8000 Write for Free Catalog



One gift works many wonders THE UNITED WAY

Upjohn