Index of Advertisers

7 November 1969

Academic Press Amersham/Searle	794 668
Barnstead, Div. of Sybron Corp.	
Bausch & Lomb, Analytical Systems Div. 691, 799, Bausch & Lomb, Scientific	801
Bausch & Lomb, Scientific Instruments Div. 785.	787
Instruments Div. 785, Beckman Instruments, Inc. 662, Bel-Art Products Bomation Corp.	676
B'omation Corp.	784
Bio-Rad Laboratories Brinkmann Instruments 677 600	782 700
Bio-Rad Laboratories Brinkmann Instruments 677, 690, Bronwill Scientific, Inc. Buchler Instruments, Inc.	783 793
Cambridge Thermionic Corp.	795
Charles River Breeding Laboratories.	680
Chemical Rubber Co.	683 792
Cintra Physics International Coleman Instruments, Div. of Perkin-	791
Elmer Corp. Curtin Scientific Co.	798
	789
•	669
	786 689 692
Hamilton Co.	667
Harvard Apparatus	781
	793 795
	690
Jeolco U.S.A. Inc., Electron Optics Div.	672
Klett Manufacturing Co., Inc.	789
Labindustries	670
Lea & Febiger Matheson Gas Products, Div. of	798
Will Ross Inc.	800 805
Nalgene Labware Div., Nalge Co.,	
	688 679
New Brunswick Scientific Co., Inc.	797
	666 791
	673
Packard Instrument Co., Inc. 686,	687
Photovolt Corp.	797 671
Polaroid Corp., Industrial Marketing	807 781
	789
Sage Instruments, Inc.	804
	694
Hospital Supply Corp.	678
12. TO	790 682
Sigmamotor Inc.	797
	796 663
	675
	805 786
Thomas, Arthur H., Co.	808
	681
Varian Techtron 67 Wang Laboratories, Inc.	684
Wild Heerbrugg Instruments Inc.	803
	795 781
	788
	674
7 NOVEMBER 1040	

CAN PHOTOMICROGRAPHY BE AS SIMPLE AS





DIAL: Your illumination method ... brightheld or darkfield.
Desired eyeplece power ... 6x,10x or 15x.
The film speed ... 5 to 320 ASA. B/W or color.

Trip the switch and the Wild Photo Automat does the rest. With 35mm film, you can even have automatic film advance. Or use #120 roll, 4 x 5", or 6 x 9cm cut film.

*Fits any microscope. This photo shows the Wild M-12 in trinocular arrangement with MKa5 Photo Automat.

WRITE FOR BOOKLET M1-608-12.



FARMINGDALE, NEW YORK 11738

WILD OF DANADA LTD., 881 LADY BLUEN PLACE, OTRAWA 3, ONTARIO

SAGE ADDS MICROSCOPE

Complete Cinemicrography **Systems**

Complete systems for taking time lapse and normal speed 16 mm motion pictures through up-right and inverted microscopes. Assure sharp, clear pictures of living materials at high magnifications. Table-top and console



Series 500 Models (shown) - from \$1,810 For information, circle # 30 on reader service card

Photomicrography Exposure

Precalibrated and direct-reading, Sage exposure meters make photomicrography. swift, sure, semi-automatic.

Cover film speed range of ASA 20-3000. All camera backs may be used. Models available for A-O, B&L Zeiss microscopes and Leitz Aristophot Stand.

Model 297 (shown) for A-O Series or information, circle # 89 on reader service card.

10 & 20 - Price \$350

Air Curtain Incubator

The incubator without an enclosure! Holds temperature of biological specimens under the microscope to ±0.3°C anywhere within 30° to 40°C range. Blows soft stream of warm

or ambient air onto a specimen as demanded by a thermistor attached to specimen.



Model 279 (shown) - \$395 For information, circle # 90 on reader service card.

SAGE INSTRUMENTS, INC.

Subsidiary of Orion Research Incorporated 230 Ferris Avenue, White Plains, N.Y. 10603 914 949-4121

Personnel **Placement**

POSITIONS WANTED

Biochemist, female age 28, will receive Ph.D. January 1970. Am seeking short-term employment in Boston area lasting from January to September 1970. Have amiable personality. Research experience includes purification of enzymes by chromatography, fluorescence of protein—dye complexes, radioactive labeling of proteins. Have taught college chemistry. Low salary. Box 386, SCIENCE.

Biology Chairmanship sought. Ph.D. Appropriate credentials education, research (biochemistry), and administration. Box 392, SCIENCE. X

Botanist, recent Ph.D. Desires academic appointment, teaching and research. Background in plant taxonomy, cytogenetics, and general botany. Available June 1970. Box 384, SCIENCE. X

Cell Biologist, Ph.D. Cell division, gamete development (plant), 2 years P.D.F., EM experience. Six publications. Seeks research/teaching position in United States, Box 391, SCIENCE. X

Cell Biologist-Geneticist, Ph.D.; 21/2 years post-doctoral. Seeking teaching-research position. Will teach cell biology, histology, molecular genetics. Research interests in electron microscopy, struc-ture and function of chromosomes. Available August 1970. Box 390, SCIENCE. X

Historian, Science and Technology, Ph.D., seeks university teaching assignment with research opportunities in Russian science and technology. Twelve years of teaching experience; publications. Mid-Atlantic and Florida areas preferred. Box 385, SCIENCE.

Literature Search, abstract of pertinent literature in monograph form. Ph.D., 2 years postdoctoral, editing experience. Virology, bacteriology, cell biology, biochemistry. Per job basis from home and major university library. Box 387, SCI-ENCE.

Physiological-Ecologist, male, 33, Ph.D. 1964. Two years of postdoctoral research; 3 years of teaching, graduate and undergraduate (biology, physiology, insect biochemistry, and entomology). Desires teaching and/or research. Academic or industrial. Box 389, SCIENCE.

Psychologist, Ph.D., comparative-physiological, 8 years of teaching-research; lesions, animal, retardation, history. Publications. Desires temporary until Fall 1970 or permanent. Available immediately. Box 15, Smithfield, Maine 04978. X

Serior Engineer seeks research and development position. Experience in design of pollution instrumentation for bacteriological and inorganic analysis. Box 388, SCIENCE.

Teacher. Science literature and science; science doctorate, library science degree, experienced teacher librarianship and science, and librarian; desires collegiate position. Box 383, SCIENCE. 11/14

POSITIONS OPEN

University of the Negev, Beer Sheva, Israel, invites applications for academic appointments in science and technology. Vacancies exist in the following fields:

Mathematics Physics Chemistry Geology

3

Mechanical Engineering Electrical Engineering Chemical Engineering Production Engineering

Qualified applicants in other fields will also receive serious consideration. Ph.D. required; experience in research and teaching desirable. Salary and rank dependent upon qualification and experience. Applicants should be willing to settle in Beersheba, and to acquire a knowledge of Hebrew.

Preferred starting date is 1 October 1970, or as scon as possible. Application, including a complete résumé and names of three referees, should be sent to:

The Rector
University of the Negev
Beer Sheva, Israel

POSITIONS OPEN



Ph.D. BIOCHEMICAL PHARMACOLOGIST

Recent Ph.D. with postdoctoral experience preferred. Participation in multidisciplinary research with responsibility for drug metabolism and pharmacokinetics. Expect investigator to establish new programs in biochemical mechanism of drug action. Send detailed vitae, references, and salary requirements to: Dr. Alvin J. Glasky, Newport Pharmaceuticals, Inc., Box 1990, Newport Beach, California 92660.

BIOMEDICAL INSTRUMENTATION PROJECT MANAGER

Ground-floor growth spot with major ethical pharmaceutical firm. This special staff position has been created in order to facilitate the company's emergence in this growing field through the development of new product lines and acquisition of additional companies. Candidates should have a broad knowledge of the biomedical industry, with strong marketing experience.

In addition to growth, the person selected can expect a good starting salary plus extras, and liberal benefits. All relocation costs will be paid by the company.

Inquiries will be held in strict confidence. Please submit résumé stating present or desired salary, and refer to this publication by name. Address J. H. Christiansen, Personnel, 3rd floor.

AYERST LABORATORIES 683 Third Ave., New York, N.Y. 10017 An equal opportunity employer

ASSISTANT DEAN FOR SCIENCE, COLLEGE OF LIBERAL ARTS

We seek a scientist interested in college administration, who should also maintain an active interest in teaching and research. Will be assistant dean for all sciences, as well as engineering. Salary to be approximately \$14,500. Position now open. For further information please write: Dr. Joseph A. Hearst, Dean, College of Liberal Arts, Box 87, Idaho State University, Pocatello, Idaho 83201. 83201.

ECOLOGIST AND DEVELOPMENTAL BIOLOGIST

These two additions to be made to biology faculty in Fall of 1970 at growing state-supported institution. Ecologist should have strong statistics-computer training with good botanical background. Rank of assistant professor will be granted to qualified individuals with doctorate. Responsibility to teach undergraduate courses with research encouraged. Please send résumé to Dr. Peter DeJong, Chairman, Department of Biology, Sagiraw Valley College, University Center, Mich. 48710.

X-RAY SCIENTIS

Responsible for development of X-Ray analytical instrumentation in diffraction and spectroscopy. Applicant should be basically an experimentalist with 5-10 years' research experience in the field, having working familiarity with current state-of-art instrumentation.

A crystallographer or diffractionist with an advanced degree in physics is desirable.

Duties include keeping current in the X-Ray Field through literature and attendance at technical meetings + maintaining liaison with domestic and overseas laboratories of the corporation.

LIBERAL STARTING SALARY MANY COMPANY BENEFITS

For confidential consideration mail resume in-dicating current salary to:

DONALD W. CRUGER **NORTH AMERICAN PHILIPS** CORPORATION

100 E. 42 St., NY, NY 10017 Suite 1027

An equal opportunity employer

Physical Sciences

SECTION HEAD

Ph.D. required in physical chemistry, biophysics or bioengineering. Research experience in the physical chemistry of macromolecules and membranes highly desirable.

This person should have proven research and management ability and will be expected to lead a group of scientists active in a multi-disciplinary program.

Located in Northern Indiana, Miles Laboratories, Inc. offers excellent starting salaries commensurate with experience as well as a comprehensive fringe benefits program including profit sharing. Relocation expenses paid by company.

Please send complete resume to:

Curtis A. Brown, Placement Representative, Dept. 474-A



MILES LABORATORIES, INC.

ELKHART, INDIANA 46514

An Equal Opportunity Employer



Circle No. 107 on Readers' Service Card

POSITIONS OPEN

BIOLOGY CHAIRMAN

State University College, Brockport, New York

State University College, Brockport, New York
Brockport, a 4-year Liberal Arts College in
the State University of New York system, enrolls
about 5000. The Biological Sciences staff numbers 23. Staff, enrollment, and facilities are growing. A new building is being planned for this
department. M.S. Degrees in Botany and Zoology are offered, QUALIFICATIONS: Ph.D. in
some field of Biology; experience in research,
teaching, Ph.D. training programs, obtaining
grants; publications. Administrative experience desirable but not essential. The Department seeks
in individual who will provide leadership in
evolving a departmental program which includes
liberal studies, graduate education and teacher
education in which research must be encouraged
and supported. SALARY: Open. If interested,
please contact:

Dr. Gordon F. Allen

Dr. Gordon F. Allen Vice-President for Academic Affairs State University College Brockport, New York 14420

EDITOR

Needed by Cambridge University Press New York Office in the Mathematics and the Physical Sciences. Requirements include a Ph.D. or master's degree in the appropriate field and experience in acquiring and editing scholarly books. Send résumé to Ronald Mansbridge, Cambridge University Press, 32 East 57 Street, New York 10022.

Independent research opportunities, basic and applied, in HEMATOLOGICALLY ORIENTED UNIT. Academic rank, up to and including professor, dependent on qualifications. Laboratory facilities which can be partially redesigned to suit needs of investigator are available. These are new positions in an expanding academic research institute.

Box 382 SCIENCE

POSITIONS OPEN

Immediate opening for a Ph.D. trained in LIPOCHEMISTRY, to join research team investigating aspects of atherogenesis. Background in immunology desired. Salary to \$15,812 plus fringe benefits. Submit curriculum vitae with initial response to S. C. Spraragen, M.D., Chief, Nuclear Medicine, VA Hospital, 800 Poly Place, Brooklyn, New York 11209.

POSITIONS OPEN

PHYSIOLOGIST. Recent Ph.D. with experience in the field of vertebrate or comparative physiology to teach undergraduate and graduate courses and to do research and direct graduate students. Position open in January. Apply to Dr. Alfred V. Liberti, Chairman, Department of Biology, St. John's University, Jamaica, New York 11432.

PRINCIPAL CHROMATOGRAPHER

An immediate opening exists for an individual to provide technical leadership in the planning and development of analytical instrumentation and to support TRACOR's marketing operations in the sale of analytical instrumentation. He will be responsible for helping to formulate the goals of the Analytical Instruments Department and for planning and directing applications work. Applicants should have a Ph.D. degree and at least five years experience in the field of gas chromatography with emphasis on technique and applications. Specific experience in the analysis of biological materials is highly desirable.

TRACOR, Inc., is headquartered in Austin, Texas, with offices and subsidiaries in 24 states and Puerto Rico, and employs over 4,500. The Analytical Instruments Department, formed from Micro Tek Instruments and the R. L. Stone Company, is located in Austin as part of the TRACOR Instruments Group.

Send your résumé to Mr. Murray Shaw,

Dept. SM 69, TRACOR, Inc.,

6500 Tracor Lane, Austin, Texas 78721



An Equal Opportunity Employer



Postdoctoral Traireeships in Journal Editi⁻g. Applications are invited for the third 8-month training 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 experience is necessary. All aspects of journal editing and management will be taught through experience with editorial offices of five leading biomedical journals. Trainees will receive a stipend commensurate with their training, experience, and present status. Apply (enclosing a curriculum vitae) by 15 December 1959 to Dr. F. Peter Woodford, The Rockefeller University, New York 10021.

PREDOCTORAL ASSISTANTSHIPS AND TRAINEESHIPS IN PHYSIOLOGY

Excellent opportunities for graduate students leading to the Ph.D. Ample stipends and free tui ion. Training and research in endocrirology, gastrointestinal, water and electrolyte metabolism, cardiovascular, sen.ory physiology, energy metabolism and bioengineering. Write for details, to,

Head, Department of Physiology University of Illi ois at the Medical Center P.O. Box 6998 Chicago, Illinois 60680

GRADUATE STUDY

Positions are available in the Graduate Studies Program of the Department of Physiology and Biophysics at the Uriversity of Ke tucky. Graduates with a baccalaureate in Biology, Chemistry, Physics, Psychology, Mathematics, or Engineering may apply. Areas in which training may be obtained include neurobiology; cardiovascular and respiratory physiology; and cellular, endocrine, developmental and comparative physiology. Special programs may also be arranged in bioengineering. Traineeships begin at \$2400 plus tuition and allowances for dependents. Address inquiries to the Chairman of the Department of Physiology and Biophysics, University of Kentucky Medical Center, Lexington, Kentucky 40506.

THE HEBREW UNIVERSITY OF **JERUSALEM**

FACULTY OF SCIENCE

POSTDOCTORAL FELLOWSHIPS

Applications are invited for Postdoctoral Fellowships, tenable in one of the following institutions of the Faculty of Science: Mathematics, Physics, Chemistry, Biology, Earth Sciences.

Preliminary enquiries for the academic year 1970-71 should reach us by the 1st of December 1969, addressed to Professor S. Ofer, Dean of the Faculty of Science-giving details of the specialized field of interest. Further information will then be supplied.

BOOKS • SERVICES • SUPPLIES • EQUIPMENT



Histology Service, Inc. Servicing Pharmaceutical Industry. Toxicologists and Research Projects. Emergency Service for peak load periods. Serial Sections—Special stains. Full Range of Histology Studies and Chemical Analyses.

HISTOLOGY SERVICE, Inc.

6190 Rising Sun Avenue Phila., Pa. 19111 (215) RA 5-5103

Research Assistant Pharmacology

Due to expansion, a unique opportunity exists for an individual with a Master's Degree and 4 to 5 years experience in Industrial Drug studies. The successful applicant must have advanced training in pharmacology. He will be responsible for assisting in work direction of research assistants in general pharmacology and help in the evaluation of results. Salary commensurate with background.

Facilities are superlatively modern, complete and attractive. Corporate Headquarters in suburban Westchester are only a half hour from midtown New York. All traditional benefits including a unique vacation plan. Please send a full resume, in confidence, to E. J. Donaldson,

Geigy Chemical Corporation Saw Mill River Road, Ardsley, New York 10502 An Equal Opportunity Employer

Geigy

SEROLOGIST

TECHNICON, a leading non-defense, international manufacturer of automated analytical instruments, offers an excellent opportunity to join a corporation with a 30 year success story of unusual growth and development.

B.S. required, M.S. desirable; knowledge of all major serological techniques is necessary, with five years of related experience preferred.

Technicon offers generous, completely paid benefits, including a non-contributory profit sharing

Send résumé in confidence to Manager of Professional Employment:

TECHNICON CORPORATION

511 Benedict Avenue Tarrytown, New York 10591

An Equal Opportunity Employer

GRADUATE STUDY

A limited number of PREDOCTORAL ASSISTANTSHIPS are available for graduate training in the Anatomical Sciences at the UNIVERSITY OF MiCHIGAN. Opportunities exist
for study in the following areas: Growth and
Development (experimental embryology, placental
function, bone biology, craniofacial growth, regeneration, teratology; Cell and Tissue Biology
(electron microscopy, endocrinology, histochemistry, tissue and organ culture); Neurosciences
(neurophysiology, sense organs, mammalian hibernation, neuromuscular system). For detailed information write: Admissions Committee, Department of Anatomy, 4643 Medical Science II, The
University of Michigan, Ann Arbor, Michigan
48104.

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 electrophysiological, biochemical and computer techniques. Full stippind and tuition available to quainfied U.S. citizens. Early application for September 1 70 strongly advised. Department of Pharmacology, Schools of Medicine and Department, State University of New York at Buffalo, 122 Capen Hall, Buffalo, N.Y. 14214.

GRADUATE STUDY

Applications considered from students in any of the sciences. Stipends and tuition remission available. Active areas of research in the molecular basis of differentiation, cell function, molecular genetics, protein and nucleic acid synthesis and chemistry, and molecular control mechanisms. Incuiries to Dr. H. L. Segal, Biology Department, State University of New York, Buffalo, New York 14214.

NATIONAL RESEARCH COUNCIL OF CANADA POSTDOCTORATE FELLOWSHIPS 1970-71

Approximately 130 Fellowships will be awarded for 1970-71 by the National Research Council. They will be tenable in the laboratories of the National Research Council, Department of Agrirestational Research Council, Department of Agri-culture, Department of Fisheries and Forestry, Department of Energy, Mines and Resources, De-partment of National Health and Welfare, Fisher-ies Research Board of Canada, Meteorological Service of the Department of Transport, National Museums of Canada, and Atomic Energy of Canada Limited.

An applicant should not have reached his 36th birthday by 31 March of the year in which the fellowship is to be taken up and should possess a Ph.D. degree from a recognized university or expect to obtain such a degree before taking up an award. (Candidates having equivalent research experience may be considered.)

There are no restrictions regarding nationality of applicants, but successful applicants must meet all Canadian immigration requirements. The competition closes on 15 January 1970.

The annual stipend, which is free of Canadian income tax, is \$6000 for both single and married Fellows and \$7200 for a married Fellow (male) with a child or children. A grant is provided toward the cost of travel.

Inquiries should be addressed to:

Postdoctorate Fellowships Office, National Research Council of Canada, Ottawa 7, Canada.