

tained with the SWIFT M100 Tissue Culture Microscope, for advanced research in living cells and biological specimen. The down-to-earth practicality of this new inverted instrument is plainly evident in its erect, natural image; large, sturdy, extension stage; brilliant, variable intensity illumination; large nosepiece and smooth, precise focusing; angled 45° binocular or monocular heads with eyepoint 335mm above table surface for comfortable viewing; exceptionally fine optics. Easily adapted to phase contrast and/or polarizing microscopy by specific configuration or accessories.

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Scanning Electron Microscope

The Mini-Rapid Scan (Fig. 1) is a desk-top instrument with a resolution of 750 angstroms, a magnification range of 20 to 10,000 power, an accelerating voltage of 10 kilovolts, and a price under \$10,000. Operation is simple, there are few controls, and sample insertion is easy. The device is equipped with an air-cooled oil diffusion pump and operates on standard current. Specimen exchange is accomplished in 1 minute or less. The images observed are displayed on a 7 by 5¹/₂ inch television screen. International Scientific Instruments, Incorporated (ISI). Circle No. 140 on Readers' Service Card.

Portable pH Meter

The model 3 (Fig. 2) includes a combination electrode, two 9-volt batteries, and a carrying case. Accuracy is within $\pm 0.2 \ pH$ unit and $\pm 12 \ milli$ volts. The instrument's range is from 2 to 12, with an overrange of 2 $\ pH$ units at each end of the scale, and from -300 to +300 millivolts. There is a manual control to adjust the readout to any temperature from 0° to 100°C. Corning Scientific Instruments. Circle No. 141 on Readers' Service Card.

Linear Fraction Collector

The model 328 Golden Retriever (Fig. 3) has four different sets of removable collection racks which handle test tubes from 10 to 25 millimeters in diameter or 28-millimeter scintillation vials. Time, drop, or volume collection

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increments are set with digital thumb wheels. The shifting mechanism is removable, consists of only three moving parts, and is submersible for cleaning. Surface coatings are chemically resistant and the device has internal heaters to prevent condensation. Options include a delay timer to synchronize tube changes with recorder event marks and a digital readout to indicate increments per tube or total samples collected. Instrumentation Specialties Company (ISCO). Circle No. 142 on Readers' Service Card.

Radiographic Imaging System

The Beta-Graph accepts plates up to 20 by 20 centimeters and up to 7 millimeters thick. The device employs a scintillating gas and Polaroid film to produce a permanent photographic record of the radioactivity on radiochromatograms, thin-layer plates, electrophoresis gels, or even tissue sections. Production of such an image requires only about 20 minutes, which is faster than previous autoradiographic systems. Panax Nucleonics Canada Limited. Circle No. 143 on Readers' Service Card

Literature

Advanced Materials Catalog lists metals, alloys, ceramics, cermets, evaporation sources, and chemicals in a variety of purity grades, forms, and quantities. Materials Research Corporation. Circle No. 132 on Readers' Service Card.



Fig. 1 (top left). The Mini-Rapid Scan scanning electron microscope from ISI produces televised images magnified from 20 to 10,000 power. Ease of operation and low cost are its greatest advantages. Fig. 2 (bottom left). Corning's model 3 portable pH meter with an effective range from 0 to 14 and between -300 and +300 millivolts is suitable for student or rugged industrial application. Fig. 3 (right). The ISCO Golden Retriever linear fraction collector accepts several sizes of test tubes or scintillation vials.

Newly offered instrumentation, apparatus, and laboratory materials of interest to researchers in all disciplines in academic, industrial, and government organizations are featured in this space. Emphasis is given to purpose, chief characteristics, and availability of products and materials. Endorsement by *Science* or AAAS is not implied. Additional information may be obtained from the manufacturers or suppliers named by circling the appropriate number on the Readers' Service Card (see pages 114A and 178C) and placing it in the mailbox. Postage is free.—RICHARD G. SOMMER

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Personnel Placement

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Agricultural Scientist, Biochemist with significant experience in agricultural meteorology, plant disease forecasting, and plant pathology. Seeks challenging assignment in Southern states or Central America. Box 494, SCIENCE. X

Aquatic Ecologist/Ichthyologist, Ph.D. 1968. Ex-perience teaching ecology to nonmajors, tropical inshore ecosystems, environmental impact studies; publications, Academic position preferred. Box 495, SCIENCE. X

Bacteriologist, B.S. Minors in genetics and chem-istry. Single, seeks employment in western United States or overseas. Bacteriology interest open. Archip, 1107 West Second, Ames, Iowa 50010. X

Biochemist, Ph.D. 1972. Research experience in enzymology, tissue culture, and intermediary metabolism of carbohydrates and lipids, Pub-lications and teaching experience. Available from January 1974. Will consider teaching and/or re-search or industry. Box 502, SCIENCE, X

Cell Biologists, Ph.D. 1969. Experience in elec-tron microscopy, immunology, cell culture, toxi-cology, teaching. Seeks industrial position (re-search or other) in western United States. Box 503, SCIENCE. X

Couple: Mathematician (Ph.D. 1967), Geneticist (Ph.D. 1971), seek proximate teaching-research positions. Competence: topology, statistics, global analysis, differential equations, optimal controls; teratology, mammalian and developmental genet-ics, reproductive physiology, biostatistics. Pub-lications. Teaching experience. Box 498, SCIENCE, X 498. X SCIENCE.

Developmental Biologist, Ph.D., January 1969, Vertebrate morphogenesis, publications including widely used laboratory text. Ten years of teach-ing experience in developmental biology, anatomy, physiology. Desires relocation. Available January 1974. Teaching, research, administration. Box 497, SCIENCE. X

Microbiologist, M.S., seeks responsible, challeng-ing position in medical research. Major interests: virology, antivirals, cell biology. Publications Five years of pharmaceutical experience. Box 504 Five years SCIENCE.

Ph.D., 1970, postdoctoral. Biochemistry and de-velopment, energy transducing systems, protein synthesis, organelle biogenesis, macromolecular assembly. University or research institution in North America. References, publications, and experience. Box 467, SCIENCE. X

Ph.D., Biophysics; strong background in cell-molecular biology; cytomembrane; developmental biology; lipid, protein, and nucleic acid biochem-istry; plant physiology; photobiology, tissue cul-ture techniques. Some background in general animal and plant sciences; ecology; genetics; microbiology; pharmacology, toxicology; research, teaching, and industrial research-development ex-perience. Want teaching, research, industrial, or consultant position. P.O. Box 8, Waltham, Mass. 02154. Telephone: 617-891-0111. X

Physical Biochemist, Ph.D. with large movable grants, an active research program, and r ous independent publications, seeks an aca and/or administrative position. Box SCIENCE. numeracademic 499

Physiological Psychologist-Neuroethologist, Ph.D. 1973. Experience with mammals and mollusks. Accomplished in single-unit recording, surgical lesion techniques, and behavioral observations. Feaching experience. Publications. Seeking teach-ing and/or research position. Zack, Psychology Department, University of Oregon, Eugene 97403.

Professional Couple. Board-eligible pediatrician (neonatology fellowship) and mammalian physiol-ogist (Ph.D.), both with teaching and research experience, seek positions in community where both can serve, Available July 1974. Box 507, SCIENCE. X

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POSITIONS OPEN

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(Two positions)

Applicants should be medical, dental, or science graduates. Preference will be given to applicants with research interests in cytology, histochemistry, neuroanatomy, or kinesiology. (Quote Reference No. B48973.)

Salary: Lecturer, \$Aust8,698 to \$Aust11,982 per annum; Senior Lecturer, \$Aust12,268 to \$Aust14,308 per annum.

Other Benefits: Superannuation similar to F.S.S.U., housing assistance, study leave, and traveling and removal expenses,

Additional information and application forms are obtainable from the Staff Officer, University of Queensland, St. Lucia, Q. 4067, Australia, with whom applications close on 26 October 1973.

UNIVERSITY OF QUEENSLAND AUSTRALIA

READER IN ANATOMY

Applicants should be medical, dental, or science graduates. Preference will be given to applicants with research interests in cytology, histochemistry, or neuroanatomy. (Quote Reference No. B48873.) Salary: &Aust15,940 per annum

Other Benefits: Superannuation similar to F.S.S.U., housing assistance, study leave, and traveling and removal expenses.

Additional information and application forms are obtainable from the Staff Officer, University of Queensland, St. Lucia, Q. 4067, Australia, with whom applications close on 26 October 1973.

AQUATIC BIOLOGIST Research Position; Ph.D. with specialization in plankton ecology or nutri-tion, either zooplankton or phytoplankton. Ap-plicants must be interested in research on large lakes, and participation in cruises on research vessels will be required. One or two years of postdoctoral and oceanographic experience de-sirable. Send résumé, including two names for references, to Claire L. Schelske, Acting Director, Great Lakes Research Division, University of Michigan, Ann Arbor, Michigan 48104. A Nondiscriminatory Affirmative-Action Employer

DEPARTMENT OF BIOCHEMISTRY MEDICAL SCHOOL MINNEAPOLIS CAMPUS UNIVERSITY OF MINNESOTA

UNIVERSITY OF MINNESOTA Prior to July 1974 the Medical School plans to appoint a Professor and Head of the Department of Biochemistry on the Minneapolis campus. The responsibilities of the Department include an active research program in biochemistry, instruc-tion in biochemistry for students in the health sciences, and a graduate program coordinated and administered jointly with the Biochemistry Department, College of Biological Sciences, on the St. Paul campus. The University of Minnesota is an equal opportunity employer; women and members of minority groups are encouraged to apply. Curriculum vitae and bibliography of interested candidates should be directed to: Dr. Arnoid Lazarow, Chairman, Health Sciences Biochemistry Search Committee, 262 Jackson Hall, University of Minnesota, Minneapolis 55455.

UNIVERSITY OF THE WITWATERSRAND SCHOOL OF BIOLOGY

Applications are invited for appointment to (i) Chair in Biochemistry and Head of the De-partment of Biochemistry and (ii) Chair in Genetics.

Both these Chairs are new Chairs in the newly constituted School of Biology. For the Chair in Genetics, research experience in molecular genetics would be an advantage, but applications from geneticists experienced in other fields would be welcomed.

The salary range attached to the posts is R8625 to R11,385. The initial salary will depend upon the qualifications and experience of the successful applicants. Benefits include an annual bonus, pension and medical aid facilities, and a housing subsidy if eligible subsidy, if eligible.

The successful candidates will be expected to ssume duty on 1 January 1974 or as soon assume thereafter as possible.

The information sheet relating to these posts may be obtained from the Registrar. Applications should be lodged not later than 31 October 1973 with the Registrar, University of the Witwatersrand, Jan Smuts Avenue, Johannesburg.

POSITIONS OPEN

ASSISTANT/ASSOCIATE PROFESSOR ANIMAL PHYSIOLOGIST

ARIMAL PHYSIOLOGIST Permanent position available; entails teaching human physiology to paramedical students, par-ticipation in the graduate program, and develop-ing research in area of specialization, preferably regulation of body fluid balance (that is, renal, cardiovascular, or respiratory). Preference given those with teaching or postdoctoral experience. Starting date, January or September 1974; salary commensurate with experience. Send curriculum vitae and inquiries to **Prof. G. Pilar, Regulatory Biology Section, Biological Sciences Group, Box U-42, Storrs, Conn. 06268 (Tel.: 203-486-4325).** *Equal Opportunity/Affirmative Action Employer.*

TWO ASSISTANT PROFESSOR POSITIONS

Available in the Department of Anesthesiology, University of Michigan Medical School. Candi-dates must be Board certified or qualified anes-thesiologists. Must have experience in teaching, administration, or in research at an assistant professorial level. Should be qualified to teach residents in training and medical students, both clinical and didactic. Send résumé to **Box 512**, **SCIENCE**. A Nondiscriminatory Affirmative Action Employer. Action Employer.

ASSISTANT PROFESSOR

Assistant PROFESSOR Position available in the Department of Internal Medicine, University of Michigan Medical School. Candidate should have broad background in internal medicine, with experience in teaching as well as patient care. Should also have demon-strated promise in some area of investigation-clinical, laboratory, or dealing with delivery of medical care. Code #3200J. Send résumé to Box 510, SCIENCE. A Nondiscriminatory Afirmative Action Employer.

ASSISTANT PROFESSOR

ASSISTANT PROFESSOR Position available in the Department of Internal Medicine, University of Michigan Medical School. Candidate should have completed training in internal medicine and cardiovascular disease, and have demonstrated promise in investigation of clinical and physiologic aspects of hypertension. Should also have demonstrated ability in teaching and counseling of medical students, Code #1000J. Send résumé to Box 511, SCIENCE. A Non-discriminatory Affirmative Action Employer.



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Under the general direction of the Head of the Vaccine Control Section, of the Bureau of Viral Diseases, plans and directs a program of research and the execution of testing procedures related to the control of viral products such as viral vaccines and immune globulins; critically evaluates and makes recommendations on the data of New Drug Submissions on Viral Vaccines submitted by various manufacturers for license application. In the absence of the Head of the Vaccine Control Section, assumes the responsibilities of the Head to ensure the continuous operation of the Section.

Graduation from a university of recognized standing with a Doctor of Veterinary Medicine with specialization in animal or medical virology or a Ph.D. in animal or medical virology. Several years of postdoctoral experi-ence is required including the capability to conduct independent research and with senior authorship of several scientific papers. Knowledge of the English language is essential.

To ensure consideration, application for employment forms (PSC 367-401), available at Post Offices, Canada Manpower Centres and Public Service Commission of Canada offices, including resumes, should be forwarded before November 15, 1973 to the:

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Qualified persons should possess a M.S. or Ph.D. in Biochemistry with a strong research background in prepara-tive and column chromatography. Should have knowledge of enzyme im-mobilization.

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Director of Research Smith Kline Instruments, Inc. 440 Page Mill Road Palo Alto, California 94306

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Annual salary (superannuable) will be within the professorial range and not less than HK\$91,800, At the time of issue, the rate of exchange is $\pounds 1 = HK$ \$12.80 approximately.

Further particulars and application forms may be obtained from the Secretary-General, Associa-tion of Commonwealth Universities (Appts), 36 Gordon Square, London WCIH OPF or the Sec-retary to the Council, University of Hong Kong.

Closing date for applications is 31 October 1973.

CENTER FOR **DEVELOPMENT TECHNOLOGY** WASHINGTON UNIVERSITY Saint Louis, Missouri 63130

Saint Louis, Missouri 63130 The Center is seeking a Research Staff member in its Communications Group with a joint ap-pointment as Assistant Professor in the Depart-ment of Applied Mathematics and Computer Sci-ence, and Program in Technology and Human Affairs. Work involves economic and policy anal-ysis of computer and communication systems for education and social services. An excellent oppor-tunity for those interested in socially relevant uses of technology. A Ph.D. in Management Science/Economics/Operations Research; Engi-neering Economic Systems/or a related program is required. Starting date 15 January or earlier. Equal opportunity and affirmative action employer. Contact Prof. R. P. Morgan, Director.

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POPULATION BIOLOGIST. Research interests in ecology or ecological genetics of animal popu-lations, with emphasis on quantitative or experi-mental approaches. Undergraduate teaching in ecology and general zoology, in addition to gradu-ate instruction. Position available September 1974, Assistant Professor rank. Applications received before 1 December will have preference. Please send biographical summary, publications, and three letters of reference to: R. H. Wiley, De-partment of Zoology, University of North Caro-lina, Chapel Hill, N.C. 27514.

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tive salary data in nontechnical fields. 106 tables, 18 charts. Price: \$7.50 prepaid (June 1971 edition available for an additional \$2.00 if both editions are ordered

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This position will involve supervision of a laboratory of biochemical pharmacology and active participation in conceiving and organizing novel research programs.

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INSTRUCTOR or ASSISTANT PROFESSOR INSTRUCTION of ASSISTANT PROFESSOR Position available in the Department of Psychia-try, University of Michigan Medical School. Can-didate must be Board eligible psychiatrist inter-ested in academic career to take charge of acute open ward in Deans Committee General, VA Hospital. Must qualify for academic appointment in Medical School's Department of Psychiatry, that is, have demonstrated ability to teach and do research. Send résumé to Box 509, SCIENCE. A Nondiscriminatory Affirmative Action Fundover A Nondiscriminatory Affirmative Action Employer.

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Memorial University in St. John's, Newfoundland. The person appointed would be expected to assist in developing the general policies and areas of emphasis of the Medical School and, in par-ticular, the Basic Sciences, ensuring that these policies are reflected in faculty recruitment and other activities. Preference will be given to can-didates who have had considerable research and administrative experience.

The duration of the appointment will normally be for a period of 3 years. The post will carry an appropriate academic rank and tenure in ac-cordance with university regulations. Salary will be according to qualifications and experience.

Applications according to qualifications and experience. Applications accompanied by a detailed curric-ulum vitae and the names of three referees will be received until 15 November 1973 by either Dean Ian E. Rusted or Dr. B. H. Sells, Selection Committee, Faculty of Medicine, Memorial Uni-versity of Newfoundland, St. John's, Newfound-land, Canada.

UNIVERSITY OF RHODE ISLAND CHAIRMAN OR CHAIRWOMAN PSYCHOLOGY

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SCIENCE, VOL. 182

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