

# Personnel Placement

## RATE CHANGE Effective 1 January 1971

**POSITION WANTED:** 40¢ per word, minimum charge \$10. Use of Box Number counts as 10 additional words. Payment in advance is required. These rates apply to individuals only. Personnel agencies and companies take display rate for all advertising.

**POSITIONS OPEN:** \$110 per inch. No charge for Box Number. Rates net. No agency commission allowed for ads under 4 inches. No cash discount. Ads over 1 inch will be billed to the nearest half inch. Payment in advance is required except where satisfactory credit has been established.

**COPY** for ads must reach **SCIENCE** 4 weeks before issue date (Friday of every week). Send copy for Personnel Placement advertising to:

SCIENCE, Room 211  
1515 Massachusetts Ave., NW  
Washington, D.C. 20005

Replies to blind ads should be addressed as follows:

Box (give number)  
SCIENCE  
1515 Massachusetts Ave., NW  
Washington, D.C. 20005

## POSITIONS WANTED

**Aquatic Biologist**, Ph.D., 33, 10 years of research (freshwater and estuarine fisheries) and teaching. Background in biostatistics, computer programming, physiology. Desires teaching/research position. Box 458, SCIENCE. 12/18

**Biochemical Epidemiologist**, B. Pharm. Ph.D. Experience in university teaching, research projects on occupational health hazards and environmental contamination. Seeking teaching or research position. Box 464, SCIENCE. X

**Biologist**, Ph.D., 9 years of university experience. Seeking teaching and/or administrative position in undergraduate-oriented department. Particular interest in core curriculum development, innovative experimental teaching techniques. General, genetic, evolutionary, cellular, invertebrate biology. Box 452, SCIENCE. 12/18

**Biophysical Chemist**, Ph.D., 35, teaching and research institute experience. Recent cancer research fellow. Broad chemical and instrumental experience including NMR and ESR. Seeks institute or industrial position, North America or foreign. Box 460, SCIENCE. 12/18

**Enzymologist** with biochemical and histochemical publications. Research or research and teaching. Box 396, SCIENCE. 12/18

**Geneticist-Cell Biologist**, Ph.D., postdoctoral research fellow, publications. Teaching and research experience in cell biology, genetics, and human cytogenetics. Seeks teaching/research position. Available Fall 1971. Box 465, SCIENCE. 12/25, 1/8

**German and French Scientific Papers** translated into impeccable English by highly experienced professional translator. Fast service—reasonable rates. (No agents) P.O. Box 489, Forest Hills, N.Y. 11375. X

**Marine Biologist** (ecology, fishery biology) Ph.D., 29. Research, teaching and postdoctoral experience; publications and grants. Seeks teaching/research (mariculture) position. Box 461, SCIENCE. 12/18

**Psychopharmacologist**. Industrial (Switzerland) and academic experience in leading universities. (Cardiovascular also.) M.S. Publications. (Organized lab.) Box 469, SCIENCE. 1/8

18 DECEMBER 1970

## POSITIONS OPEN

### NEW ZEALAND DEPARTMENT OF SCIENTIFIC AND INDUSTRIAL RESEARCH:

VACANCY NO. 5492

#### CHIEF LIBRARIAN, INFORMATION SERVICE

Applications are invited to fill the position of Chief Librarian at the Department's Head Office in Wellington.

**Qualifications.** A university degree in science with adequate library training or experience.

**Duties.** To supervise the management of the department's central library which is responsible for all the Department's holdings throughout New Zealand; to provide technical supervision of branch libraries; to assist in the technical training of junior librarians. Familiarity with modern mechanical aids would be an advantage.

**Salary.** A commencing salary of \$NZ5546 or \$NZ5891 a year with prospects for further advancement.

Applications close on 31 January 1971 with

The Embassy of New Zealand

19 Observatory Circle, NW

Washington, D.C. 20008

Application forms and standard conditions of appointment are available on request.

**MARINE GEOLOGIST** to conduct research on effects of pollution on marine environment. Particular emphasis will be given to determine manner and degree by which marine geological parameters regulate passage of noxious material through the water column and its ultimate effect on mankind. This will include explaining how various types of pollutants react with inorganic suspended material and bottom sediments in typical marine environments to create sinks for injected pollutants. (GS-13) \$16,760 to \$18,437 per annum depending on experience. Send completed SF-171 to Headquarters Civilian Personnel Branch (CAS-5), U.S. Coast Guard, 400 Seventh Street, SW, Washington, D.C. 20591.

**ORGANIC GEOCHEMIST** to conduct research in field of marine chemistry and its application to study effects of pollution on marine environment. Immediate concern is in detection, classification, and determination of characteristics of oil in typical marine environments including products of biodegrading processes. This research will also seek to explain how various types of pollutants are chemically and biologically degraded together with considerations concerning their routes, rates and reservoirs in typical marine environments. GS-13/12 position. Send completed SF-171 to Headquarters Civilian Personnel Branch (CAS-5), U.S. Coast Guard, 400 Seventh Street, SW, Washington, D.C. 20591.

**CELL BIOLOGIST-GENETICIST**, Ph.D. required, assistant professor. Either cell biology or genetics is a suitable major interest but the applicant must be able to teach in both areas and develop a strong teaching and research program to complement other disciplines in Department. Address résumé to Dr. L. G. Swartz, Chairman, Department of Biological Sciences, University of Alaska, College, Alaska 99701.

## NEW LABELLED AMINO ACIDS

The following labelled amino acids are now available from stock. This unique group of new products reflects Amersham/Searle's unequalled selection of radiochemicals for research.

### S-Adenosyl-L-methionine(carboxyl-C14)

Order No.: CFA-477  
Specific Activity: >45mCi/mmol  
Prices: 10uCi...\$45 50uCi...\$175

### 4-Amino-n-butyric acid-C14(U)

Order No.: CFB-148  
Specific Activity: 4-6mCi/mmol  
Order No.: CFB-151  
Specific Activity: >150mCi/mmol  
Prices: 50uCi...\$30 0.25mCi...\$110

### L-Arginine-5-H3 monohydrochloride

Order No.: TRK-368  
Specific Activity: >5,000mCi/mmol  
Order No.: TRA-368  
Specific Activity: 100-500mCi/mmol  
Prices: 0.25mCi...\$40  
1mCi...\$100 5mCi...\$300

### DL-Carnitine(methyl-C14) hydrochloride

Order No.: CFA-475  
Specific Activity: >45mCi/mmol  
Prices: 50uCi...\$75 0.25mCi...\$290

### L-Cystathionine-S35

Order No.: SJ-200  
Specific Activity: 1-50mCi/mmol  
Prices: 1mCi...\$375 then \$75/mCi

### L-3(3,4-Dihydroxyphenyl)alanine-1-C14

Order No.: CFA-473  
Specific Activity: 1-5mCi/mmol  
Prices: 50uCi...\$140 2x50uCi...\$275

### (Glycyl-1-C14)glycine hydrochloride

Order No.: CFA-478  
Specific Activity: 10-20mCi/mmol  
Prices: 50uCi...\$45 0.5mCi...\$300

### L-Methionine-S35

Order No.: SJ-204  
Specific Activity: 5,000-20,000mCi/mmol  
Prices: 0.5mCi...\$70 1mCi...\$95  
5mCi...\$250

### L-Valine-2, 3-H3

Order No.: TRK-327  
Specific Activity: >10,000mCi/mmol  
Order No.: TRA-327  
Specific Activity: 500-2000mCi/mmol  
Prices: 0.25mCi...\$20  
1mCi...\$50 5mCi...\$150

## OUR SPECIFIC ACTIVITY IS SERVICE



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Circle No. 76 on Readers' Service Card

## POSITIONS OPEN

### CARLETON UNIVERSITY OTTAWA, CANADA

#### Chairman, Department of Biology

Applications are invited for the position of chairman of the department for a renewable 3-year term. The department has 22 faculty members at present, and offers undergraduate programs leading to Honours and Pass Bachelors degrees. The department also offers M.Sc. and Ph.D. programs in molecular, cell, and developmental biology, plant and animal physiology, and in ecology and systematics. Candidates should have demonstrated research competence and teaching ability and have had appropriate administrative experience. The deadline for applications is 15 February 1971, and the appointment will become effective 1 July 1971, or as soon as possible thereafter.

Applications, including curriculum vitae and the names of at least three referees, should be sent to:

Dr. Margaret E. McCully  
Chairman Applications Committee  
Department of Biology  
Carleton University  
Ottawa, Ontario, Canada

#### MICROBIOLOGIST

Ph.D. or M.D. for 500-bed acute teaching hospital actively affiliated with medical school. Responsible for entire section of microbiology, teaching, medical technology, medical students, postgraduate residency program, and active research program. Prefer applicant interested in these areas and in availability of hard money for research. Please contact S. Werthamer, M.D., Methodist Hospital of Brooklyn, 506 6th Street, Brooklyn, N.Y. 11215. Telephone (212) 780-3221.

### UNIVERSITY OF BRITISH COLUMBIA DEPARTMENT OF BOTANY

Applications are invited from PLANT ECOLOGISTS with research interests in terrestrial synecology. Teaching responsibilities include undergraduate and graduate courses in ecology. Rank and salary commensurate with background and experience. Applicants should arrange to send their curriculum vitae, three letters of reference, and a statement of research interests to Dr. R. E. Foreman, Department of Botany, University of British Columbia, Vancouver 8, Canada.

#### Ph.D. PHYSIOLOGIST

Intensive Care Unit—New York City area—Monitoring equipment requires physiologist with experience in instrumentation and knowledge of cardiovascular and/or pulmonary function. Submit résumé. Salary open. All replies held in strict confidence.

Box 453, SCIENCE

### RESEARCH MICROBIOLOGIST

Applications are invited from graduates with a degree in medicine, veterinary medicine, microbiology, or a related subject for the position of a senior scientist in experimental chemotherapy.

The holder of this position will be responsible for developing antifungal drugs and for conducting research with relevance to the chemotherapy of fungal infections. Our newly constructed institute is located in Vienna, Austria, and offers excellent research facilities, an unconventional working atmosphere, and numerous possibilities for further scientific development.

The institute is operating on a progressive salary policy and the salary will be negotiable in the region of 250,000 Austrian Schillings per annum. Assistance will be given towards removal expenses.

Written applications including a detailed curriculum vitae should be addressed to:

SANDOZ FORSCHUNGSINSTITUT WIEN  
Gesellschaft m.b.H.  
Brunnerstrasse 59, A-1235 Wien, Austria

## POSITIONS OPEN

### YORK UNIVERSITY, TORONTO, CANADA

The Division of Social Science, an interdisciplinary unit with a strong emphasis on undergraduate teaching, will be making several new appointments for the next academic year at all ranks. Candidates will be considered from a variety of fields in the social sciences: Cultural Anthropology, Human Ecology, Social History, Sociology (Theory and Methods), Political Economy, Political and Social Theory and related fields. Aside from their professional specialty, however, candidates will be considered in the light of:

- 1) Qualification and readiness for interdisciplinary work with students and colleagues
  - 2) Ability as teachers and interest in students
  - 3) Concern to develop an inter-disciplinary programme in the social sciences.
- The Division invites interested and qualified persons to apply to:

Prof. M. Hill  
Division of Social Science  
York University  
4700 Keele St.  
Downsview 463, Ontario  
Canada

## TOXICOLOGIST

Leading suburban located medical/pharmaceutical research firm offers a senior position in the preclinical drug safety (toxicity) studies area. This position requires doctorate level training in drug toxicology two or more years of pertinent postdoctoral experience is highly desirable. Please reply in confidence to:

R. G. McConnell, Ph.D.  
Director, Pathology-Toxicology Dept.  
Division of Biological Research

G. D. SEARLE & Co.  
P. O. Box 5110, Chicago, Ill. 60680  
An equal opportunity employer

## COURSES

### ACS SHORT COURSES

In early 1971 the American Chemical Society will offer three ACS Short Courses of interest to biochemists, clinical chemists, and others working in biomedical areas:

21-23 January. Fluorescence and Phosphorescence Spectrometry; Dr. George G. Guilbault. Philadelphia, Pa.

12-13 March. Liquid Scintillation Counting; Dr. Donald L. Horrocks. Philadelphia, Pa.

19-20 March. Atomic Absorption Spectroscopy; Theodore C. Rains, Dr. J. A. Dean, and Dr. G. D. Christian. New York City.

To obtain complete information contact Education Department, American Chemical Society, 1155 16th Street, N.W., Washington, D.C. 20036. Telephone (202) 737-3337, ext. 258.

### BIOLOGICAL ELECTRON MICROSCOPY FOR TECHNICIANS

Northeastern University,  
7-12 February 1971

An intensive residential program primarily for technicians with some experience in electron microscopy who wish to expand and secure their knowledge of biological specimen preparation. Students and others who feel this program will fill their needs also will be considered for admission. For more information, write or call Dr. Morton Maser, Northeastern University, 360 Huntington Avenue, Boston, Massachusetts 02115; 617-427-0679.

### ELECTRON MICROSCOPY IN THE BIOLOGICAL SCIENCES

17-29 January 1971

Northeastern University, 14th Session

An intensive 2-week residential program designed for postdoctoral level participants who have little or no training in electron microscopy but who wish to use it as a tool in their research. Emphasis is on practical laboratory aspects. For more information, write or call Dr. Morton Maser, Northeastern University, 360 Huntington Avenue, Boston, Massachusetts 02115; 617-427-0679.

## GRADUATE STUDY

**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 stipend and tuition available to qualified U.S. citizens. Early application for September 1971 strongly advised. Department of Pharmacology, Schools of Medicine and Dentistry, State University of New York at Buffalo, 122 Capen Hall, Buffalo, N.Y. 14214.

**POSTDOCTORAL FELLOWSHIPS IN IMMUNOLOGY.** Some fellowships are available starting 1 September 1971 in the fields of Cellular Immunology, Immunochemistry and Immunopathology. American citizenship or resident visa required. For further information write including C.V. to Doctor V. Nussenzweig, Department of Pathology, New York University School of Medicine, 550 First Avenue, New York 10016.

### POSTDOCTORAL TRAINEESHIP

Immunobiologist to study immuno- and biochemical properties of anti-tumor specific antibodies and tumor specific antigens. Available immediately. Send complete curriculum vitae to: Dr. R. D. Poretz, Department of Biochemistry and Molecular Biology, Kansas University Medical Center, Rainbow Blvd. Kansas City, Kansas 66103.

## The Market Place

### LITERATURE SEARCHING

When you're ready to do a literature search, call on ISI. The new ISI Search Service can do the job for you—quickly, efficiently and economically. Our massive data files are yours for the searching. Let us know your information problems. We'll look for the answers. Contact C. Granito or M. Rosenberg for details at (215) 923-3300. Or write ISI, Dept. 29-259.

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### MICROPROBE THERMOMETER

MODEL BAT-4 \$295

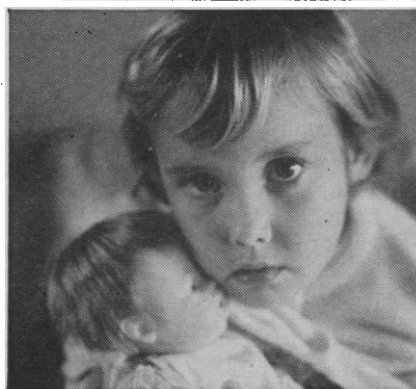
An unique thermocouple instrument; -100°C to +175°C in 5 ranges. Probe sizes: .008" up. Just apply probe, read temperature directly within 2 seconds.

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One gift works many wonders  
**THE UNITED WAY**

The Brush 620 Data Logger converts multi-channel analog inputs to digital format, then records them on a 1/4" endless-loop magnetic tape cartridge. The Brush Tape Reader (right) plays the cartridge for computer data reduction and presentation.

Thanks to the tape cartridge system you can put data loggers wherever you generate the analog input. The loggers are lightweight, portable, rugged, can be remotely- or intermittently-controlled, and are about as easy to operate as a car radio. Each logger accepts 18 channels of analog data and uses two additional channels for recording real time in hours, minutes and seconds at the start of each scan. The logger is expandable in increments of 10 channels to 118 channels. The continuous-loop

cartridge will provide 60 minutes of continuous recording. As much as 1860 hours of operation are possible on a single tape in the one hour intermittent-recording mode.

The Tape Reader offers two data reduction modes. In the computer mode, the reader takes the tape generated by the logger and through an interface card, transmits the data directly to the computer input bus. In the tape-to-tape mode, the data reader feeds a 1/2" incremental tape recorder to produce a computer-compatible tape.

This new analog-to-digital system is ideally suited for such applications as process data logging, pollution monitoring, weather and climatological studies, medical, geophysical and other types of research. And like we said, it

can chop hundreds of manhours from your analog data handling procedures.

We've described all the details in a new brochure. Brush Division, Gould Inc., 3631 Perkins Avenue, Cleveland, Ohio 44114.

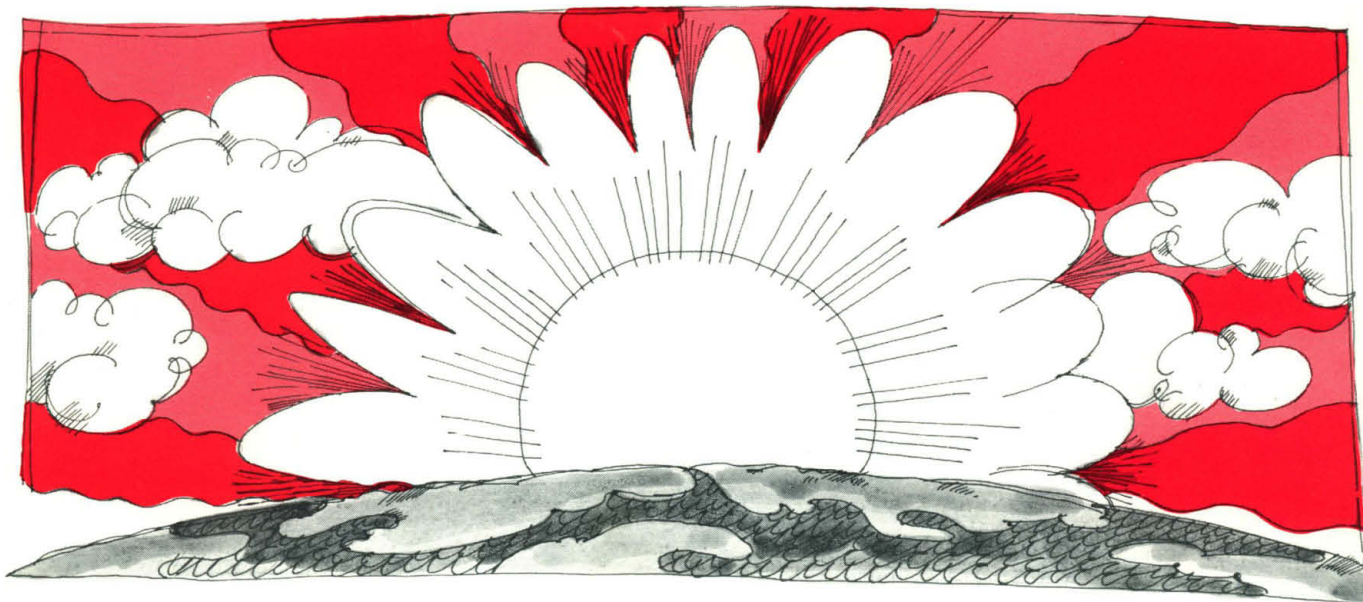


**GOULD BRUSH**

**This portable  
analog data gatherer can save you  
hundreds of manhours.**







# Sure as sunrise.

TWO TRUTHS ABOUT  
OUR LIQUID SCINTILLATION SYSTEMS:  
THEY'RE ULTRA-RELIABLE BY DESIGN.  
AND WE SEE TO IT  
THAT THEY STAY THAT WAY.

To illustrate, consider our multi-user-oriented Mark II™ for high-performance, cooled, 300-sample counting. And our all-new Unilux® IIA—the ultimate 100-sample bench-top system with higher  $E^2/B$  than ever.

Reliability for both begins with integrated circuits which eliminate the trouble spots inherent in wired-and-soldered circuits.

Next, the sample-changing mechanism—all too often the culprit in breakdowns. Not so in our systems, with foolproof sample conveyor and anti-jam sample elevator that automatically rejects oversize samples.

Further, cooled counting—to be fully appreciated—depends on a stable counting environment. Created, in the Mark II and Unilux IIA, by a chamber held precisely at the optimum temperature that you select and isolated from all heat sources.

From such built-in reliability comes full utilization of system performance. Such as the Mark II's figure of merit that permits counting at activities lower than any other system (plus accommodation for 12 separate counting programs—and more). And such as the Mark II's improved efficiency (60% for  $^3H$  and  $E^2/B$  of better than 175 in the same channel).

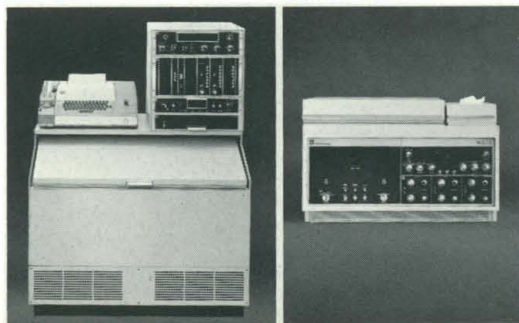
This sort of reliable performance is our standard. The rare service problem is promptly brought under control by our nationwide network of service personnel. Trained to know the system. To get to the heart of any problem. To realize that every minute of down-time is, for you, one minute too many.

Reliability. Built-in. Watched-over. The reasons to learn more about the Mark II and the Unilux IIA. Call your Nuclear-Chicago sales engineer. Or write to us. 0-220

Circle No. 6 on Readers' Service Card

*Mark II*

*Unilux IIA*



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ALS-273