

PERSONNEL PLACEMENT

CLASSIFIED: Positions Wanted. 25¢ per word, minimum charge \$4. Use of Box Number counts as 10 additional words. Payment in advance is required.

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DISPLAY: Positions Open. Rates listed below—no charge for Box Number. Rates net. No agency commission allowed for ads under 4 inches. No cash discount. **Minimum ad:** 1 inch. Ads over 1 inch will be billed to the nearest quarter inch. Frequency rate will apply to only repeat of same ad. No copy changes. Payment in advance is required except where satisfactory credit has been established.

Single insertion \$50.00 per inch
4 times in 1 year 48.00 per inch

For PROOFS on display ads, copy must reach SCIENCE 4 weeks before date of issue (Friday of every week).

Replies to blind ads should be addressed as follows:

Box (give number)
Science
1515 Massachusetts Ave., NW
Washington 5, D.C.

POSITIONS WANTED

Biochemist, Ph.D. 12 years' experience in academic research and teaching. Desires university position. Box 75, SCIENCE. X

Clinical Chemist-Bacteriologist, age 35, 10 years experience, 8 years administrative, currently director of large medical laboratory, seeks opportunity to establish reference laboratory for hormone chemistry, electrophoresis, and so forth, with opportunity for some individual research. Prefer Florida coastal area. Box 81, SCIENCE.

Literature Chemist, M.S.; 15 years' experience in systematic chemical nomenclature, searches, abstracting, informational retrieval systems for chemical and biological data. Box 80, SCIENCE. X

Microbiologist. Algal physiologist, Ph.D. Experienced researcher, publications. Desires academic research appointment. Box 78, SCIENCE. X

Microbiologist, Ph.D., 10 years of teaching and research at large university. Grants, publications, active in professional societies. Desires relocation with opportunities in teaching and/or administration. Present rank: Associate Professor. Box 79, SCIENCE. X

(a) **Ph.D. Zoologist** (entomology, botany), interested in teaching, research; (b) **Ph.D. Anatomy** (pathology), prefers teaching, cardiovascular research. (Please write for information regarding these and other scientists, senior and junior, in all fields; nationwide and very active service.) Science Division, **THE MEDICAL BUREAU, INC.,** Burnice Larson, Chairman, 900 N. Michigan Avenue, Chicago 11. X

Veterinarian, 15 years' experience clinical medicine and surgery, some research background. Desires position in research and teaching either veterinary or human medical field. Box 76, SCIENCE. X

Zoologist, Ph.D., experienced, publications, desires teaching-research position, preferably Midwest or Northeast, Box 71, SCIENCE. 4/6

POSITIONS OPEN

BIOLOGIST—M.S.—Experienced in cancer research. **ORGANIC CHEMIST—Ph.D.—**For pharmaceutical chemistry work. **BIOLOGISTS AND CHEMISTS—B.S.—**For other programs.

Small, independent, dynamic company specializing in biology and applied chemistry. Located in suburban Washington, D.C., near excellent libraries and top government agencies. Projects in such exciting and diversified areas of research as radiobiology, pharmacology, primate behavioral studies, and primate breeding programs. Latest equipment including Sanborn, Auto-analyzer, gas chromatograph, electron microscope, U.N.-IR, Visible Recording Spectrophotometers, and Foringer automated operant behavioral equipment. Opportunity for scientific meeting attendance and publications. Associate with stimulating professional group. Liberal employee benefit program including profit sharing. For further information call or write K. T. Paynter, Personnel Manager, **Hazleton Laboratories, Inc.,** Box 30, Falls Church, Virginia (JE 2-5800). 4/13, 20

POSITIONS OPEN

BIOCHEMISTS | CHEMISTS

Investigate these opportunities with New England Nuclear Corporation, leading manufacturer of radioactive chemicals for research.

ENZYMOLGY—An opportunity for an individual with a Master's Degree in biochemistry or chemistry to engage in the enzymic synthesis of carbon-14 and tritium labeled nucleosides. Position requires laboratory experience with chromatography and spectrophotometry.

SENIOR BIOCHEMIST—To develop and supervise a program for the production of carbon-14 labeled nucleotides. A Ph.D. in biochemistry with knowledge of enzymology, ion-exchange chromatography, paper chromatography, and paper electrophoresis is required.

Interviews at Federation Placement Service, Atlantic City, April 15-17, or, if preferable, send résumé to Technical Director

New England Nuclear Corp.
575 Albany Street
Boston 18, Mass.

GENERAL OR CELLULAR PHYSIOLOGIST

Large private university, Pacific Coast. Rank and salary dependent upon qualifications.

Box 82, SCIENCE

IMMUNOLOGIST-GENETICIST

To direct production of diagnostic blood grouping serums and development of related new products; \$10,000 to \$15,000 with profit sharing and pension. Vigorous, progressive, rapidly growing. **Specific Serums, Inc.,** 20 Hudson Place, Hoboken, N.J.

MEDICAL DIRECTOR

for manufacturer of mass-dosage parenteral fluids and associated hospital products located in residential Glendale, California, just minutes via freeway from Los Angeles. Position offers unique opportunities for science-oriented M.D. capable of directing clinical research program. Must be able to deal with other physicians in testing efficacy of new products. Prefer capable speaker and writer with experience in the pharmaceutical industry. Competence in the field of fluid and electrolyte therapy and a record of published results of original research highly desirable. Company offers liberal benefits including company-paid retirement plan. Salary open. Please send résumé to Director of Employee Relations.

Don Baxter, Inc.

1015 Grandview Avenue
Glendale 1, California
Citrus 1-3177

—SYNTEX— LABORATORIES

Requires a qualified veterinarian with a broad background in the use of steroids in veterinary medicine to direct their entire veterinary program. In particular, preference will be given to candidates with experience in reproductive physiology. The successful candidate will be located in California, but must be prepared to undertake some traveling both in the United States and abroad.

This is a key position in the organization and carries an excellent salary for the right man. Reply in confidence to Vice President in Charge of Research,

Syntex, S.A.

Apartado Postal 2679
México, D.F., Mexico

LABORATORY TECHNICIAN. Large general teaching hospital, must be college graduate and registered ASCP. Responsible for teaching medical students. Experience in blood bank preferred. Must be able to meet the public. Excellent salary and working conditions. Send résumé to **Cleveland Metropolitan General Hospital**, 3395 Scranton Road, Cleveland 9, Ohio, Personnel Relations Department. 3/30; 4/6, 13

PHARMACOLOGIST-TOXICOLOGIST

Ph.D. or M.S. to supervise and conduct toxicity research and testing. Salary and profit sharing; unlimited opportunity for advancement. Send résumé to **Wells Laboratories, Inc.,** 25-27 Lewis Avenue, Jersey City 6, New Jersey.

POSTDOCTORAL TRAINEESHIP IN METABOLISM AND NUTRITION. Postdoctoral traineeships in the field of metabolism and clinical nutrition are available in the Department of Biochemistry and Nutrition, University of Pittsburgh. The program is primarily for physicians who have had a minimum of an internship and who are interested in clinical investigation. The stipends begin at \$5500 per annum, and appointments may be made for a period of 1 to 3 years beginning 1 July 1962. Please apply to Dr. Robert E. Olson, Professor and Head, Department of Biochemistry and Nutrition, Graduate School of Public Health, **University of Pittsburgh**, Pittsburgh 13, Pennsylvania. 4/6

RESEARCH BIOCHEMIST. Expanding hospital research department needs biochemist with minimum of B.S. degree in chemistry and experience in radioisotopes to assist in studies of blood changes during shock. Some physiology background helpful. Salary commensurate with training and experience. Send full résumé to Personnel Director, **Evanston Hospital Association**, 2650 Ridge Avenue, Evanston, Illinois.

Research Programs in Animal Nutrition. Special problems in minerals, vitamins, ruminant biochemistry, enzyme function, as well as other areas are open to students seeking M.S. or Ph.D. degrees. Stipends are liberal ranging from \$2400 to \$3000 with out-of-state fees waived. Graduate Record Examination required. Interested persons should write to R. L. Shirley, Nutrition Laboratory, **University of Florida**, Gainesville, Florida. 3/30; 4/6, 13

POSITIONS OPEN

The University of Alberta invites applications for a position in the **Department of Animal Science** as **Assistant Professor** (animal genetics) at a starting salary of \$7400 with excellent prospects for advancement. Candidates must have a Ph.D. or equivalent in genetics. Preference will be given to applicants with supporting training in physiology and/or biochemistry. Duties, to commence preferably 1 September 1962, will include fundamental and applied research in animal genetics, teaching and limited extension activities.

Applications, accompanied by a recent photograph, curriculum vitae, transcript of academic record, and names and addresses of three references should be sent to the Head, Department of Animal Science, **University of Alberta**, Edmonton, Alberta. Closing date: 30 June 1962. 4/27

PHYSIOLOGICAL INSTRUMENT DEVELOPMENT

Growth oriented bio-medical instrument firm located on the San Francisco Peninsula requires two resourceful men for their expanding physiological instrument development program.

One position calls for a supervising scientist-engineer with Ph.D.-level competence in instrument development coupled with training or experience in physiology. He should have a record of accomplishment including publications and patents relating to the development of physiological instruments.

ELECTRODE SPECIALIST

An opening also exists in the product development group for an electro-chemist (M.S. or equivalent). He will be responsible for projects which involve investigation, design and laboratory fabrication of electrodes used with physiological instruments.

Federation Meeting

... Atlantic City (14-19 April) interviews can be arranged by contacting the F.A.S.E.B. Placement Service or by phoning F. P. Fritchle at 344-6121. If more convenient, contact K. L. Knapp.

Spinco Division
Beckman Instruments, Inc.
Stanford Industrial Park
Palo Alto 5, California

Product Development, Agricultural Herbicides. Plant scientists with education and experience in agronomy, field crops, or horticulture; Ph.D. preferred; familiar with herbicidal field test procedures, to visit and work with experiment stations and other cooperators in the development of new herbicides. Excellent opportunity for steady advancement. Salary open.

Box 77, SCIENCE

TWO PHYSICISTS

EXPERIMENTAL PHYSICIST (B.S., M.S., Ph.D.) for analytical and experimental research in plasmaphysics in conjunction with an existing research program in electrical characteristics and thermal balance of AC and DC arcs subjected to controlled gas fields. Knowledge of optical, electrical, and radiation measurement techniques required; computer programming desirable.

APPLIED PHYSICIST or MECHANICAL ENGINEER (M.S.) for research in direct conversion of gas kinetic energy into electrical energy, involving problems in thermodynamics, fluid dynamics, and electro-dynamics.

Experience desirable; recent graduates considered. Research at excellent Government laboratory, Dayton, Ohio, under guidance of senior research scientists. Computer available. Publication encouraged. Appointment: one year with opportunity for extensions or permanent position. Salary commensurate with qualifications. Send resume in duplicate and salary requirements to:

**OHIO STATE UNIVERSITY RESEARCH
FOUNDATION**

1314 Kinnear Road, Columbus 12, Ohio

POSITIONS OPEN

(a) **Biochemist or Pharmacologist**; Ph.D. to direct current programs, develop other areas in dept toxicol outstand'g rsrch inst; able, competent investigator; to \$15,000; highly desirable coastal loca. (b) **Biochemist**; recent Ph.D. microbial chem for rsrch on mech of action, microbial toxins; expand'g rsrch dept, univ-affil hsp; E. (c) **Bacteriologist** and (d) **Biochemist**; M.S. pref to hd resp sections, 200-bd fully accred gen hsp nr NYC; excel optties. (e) **Biochemist**; Ph.D. take full chge busy, well-equip'd dept; resp include intern teach'g, med tech sch'l; rsrch encouraged; 400-bd vol gen hsp; MidE. (f) **Immunochemist**; rsrch immuno-chem assay protein hormones; faculty appt in dept microbiol, univ med sch, E; to \$10,000. Science, Division, **Woodward Medical Personnel Bureau**, Ann Woodward, Director, 185 North Wabash, Chicago. X

Mathematics—two positions, one with competence in topology.
General Science—with particular interest in a phase of "atmospheric" research.

Summer Position in General Physics and Electronics

Training—Ph.D. degrees or near doctoral status. Experience in teaching and research.

Salary: Academic year, \$6000-\$10,000; summer session, \$1200.

Write Chairman, Department of Science, **State University College at Plattsburgh**, Plattsburgh, N.Y. 4/13

NEW PRODUCT DEVELOPMENT PHARMACIST. Leading midwestern manufacturer of animal health and feed medication products has opening for a **Product Development Chemist** to supervise section, develop formulas and production methods for new products, and develop methods for improvement of existing products. Applicants should have a minimum of 3 to 5 years' industrial experience, age 25 to 45, degree and advanced degree in chemistry or pharmacy and have a strong interest in developmental research. Reply with complete resume to Box 83, SCIENCE. X

PHYSIOLOGIST, Ph.D. An opening exists in the Pharmacology Department for a senior research scientist. He will have the responsibility to direct and carry out animal studies to elucidate possible therapeutic uses of a series of compounds possessing endocrine effects. Considerable freedom is permitted in scientific approach and working conditions are very good. Contact Dr. J. W. Bastian at the Federation Meeting or write Personnel Manager, **Armour Pharmaceutical Company**, Kankakee, Illinois. 4/6

FELLOWSHIPS

FELLOWSHIPS

JAMES W. McLAUGHLIN PREDOCTORAL FELLOWSHIPS, awarded for research in the broadly interpreted areas of infection and immunity, may be granted for study in any department at The University of Texas Medical Branch. Stipend: \$3600 plus allowance for dependents; additional funds available for supplies, equipment and travel. Renewable. Write **Chairman, McLaughlin Committee, The University of Texas Medical Branch, Galveston, Texas.**

The Market Place

DISPLAY: Insertions must be at least 1 inch in depth. Weekly invoices will be sent on a charge account basis—provided that satisfactory credit is established.

Single insertion	\$60 per inch
4 times in 1 year	55 per inch
13 times in 1 year	50 per inch
26 times in 1 year	50 per inch

PROOFS: If copy is to be set, and proofs submitted for approval, complete copy and cuts must be received 4 weeks in advance of issue date (Friday of each week); complete plates no later than 3 weeks in advance of issue date.

BOOKS AND MAGAZINES

SCIENTIFIC JOURNALS WANTED

Sets, Runs and Volumes bought at top prices. Your wants supplied from our Back Files of over 3,000,000 periodicals. **Abrahams Magazine Service** N. Y. 3, N. Y.

BOOKS AND MAGAZINES

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**MANUAL OR
AUTOMATIC SYSTEMS**

Leading research and environmental analysis laboratories* are now using Tracerlab Omni/Guard Low Background Beta Counting Systems like the one pictured. In addition to setting new standards of reliability, Omni/Guard Systems are performing counting operations never before possible.

The Omni/Guard can assay 1" or 2" solid beta samples. Efficiency is high, even for low energy beta rays, C^{14} , S^{35} , etc. This means that less starting material is needed, lower activity levels can be measured, and counting time is substantially reduced. And the new Tracerlab Omni/Guard System is moderately priced and economical to operate and maintain.

In mentioning these advantages we've merely scratched the surface. Write for the Omni/Guard Bulletin. Tracerlab, 1601 Trapelo Road, Waltham 54, Mass., or 2030 Wright Avenue, Richmond 3, California.

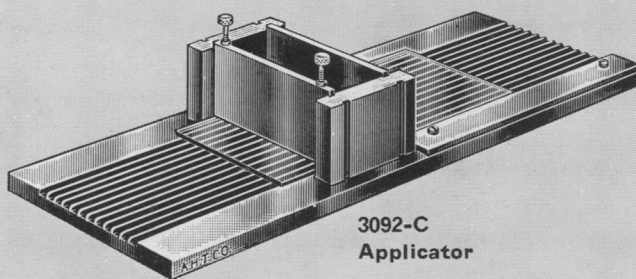
*names on request

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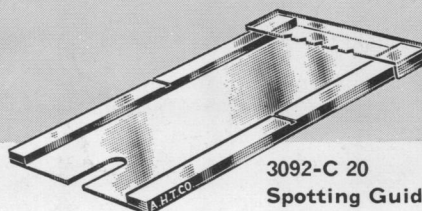
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currently finding wide application
in analysis



3092-C 20
Spotting Guide

Advantages

- Suitable for separation of lipides and essential oils and a wide variety of other organic compounds
- Extends adsorption chromatography to ultramicro samples
- Speed of separation, i.e. 30 to 60 minutes
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THIN LAYER CHROMATOGRAPHY APPARATUS, Camag. For applying uniform coatings of inorganic materials to glass plates for adsorption or partition separation of 0.5 to 500 microgram samples using paper chromatography techniques. Consists of Applicator, Spotting Guide, and handling Rack. Standard glass plate is 100 mm wide x 200 mm long. See E. G. Wollish, M. Schmall, and M. Hawrylyshyn, *Analytical Chemistry*, Vol. 33, p. 1138 (1961).

Technique. Plates are coated, placed in rack and dried, and stored in a desiccator. Adsorption coatings are heated for activation. Samples are applied by pipet, using the spotting guide, and ascending chromatograms are developed.

Applicator. Guide rail aligns side of plate with slurry trough opening. Free sliding gates form back and front of trough. Adjustment screws in exit gate control the coating thickness. Trough is 45 mm deep, 40 mm front to back, width adjustable to 90 or 100 mm. Accommodates plates of any uniform practical thickness, 90 or 100 mm wide, or, if processed in pairs, 45 or 50 mm wide. Of aluminum, overall $15\frac{3}{4}$ x 6 x 3 inches high.

Spotting Guide. Takes plates 100 mm wide. Notches permit pipet to be applied at five points 15 mm apart, 25 mm from end of plate. Grooves in side rails align straight edge for scribing a line through the coating to limit chromatogram to 100 mm length. Of transparent plastic, overall 10 x $5\frac{3}{4}$ x $\frac{1}{2}$ -inch.

Plate Rack. Ten perforated aluminum trays, each taking two 100 x 200 mm plates, nest in a single stack. Two wire handles are detachable.

3092-C. Applicator, Camag, as above described. Including one pair of 90 mm gates, one pair of 100 mm gates, and 0.3 mm coating gauge. Without glass plates or coating materials. 91.25

3092-C20. Spotting Guide (Template), Camag, as above described 23.00

3092-C30. Plate Rack, Camag, as above described 33.60

3092-C50. Glass Plate, 100 mm x 200 mm, thickness $2\frac{1}{4}$ mm, with ground edges. 25

10% discount in lots of 12; 20% discount in lots of 72.

NOTE—Microliter Pipets, Tanks and Jars for developing, Ovens for drying, etc., see our 1961 catalog.

Copy of Bulletin 3092-C, giving more detailed information, sent upon request



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