

POSITRON SOURCES

NEW Germanium-Gallium-68

high β + energy (1.89 Mev)
high β + yield (<5% self-absorption)
electroplated on nickel foil

Sodium-22

long half-life (2.6 years)
high β + yield (<10% self-absorption)
NEW low price

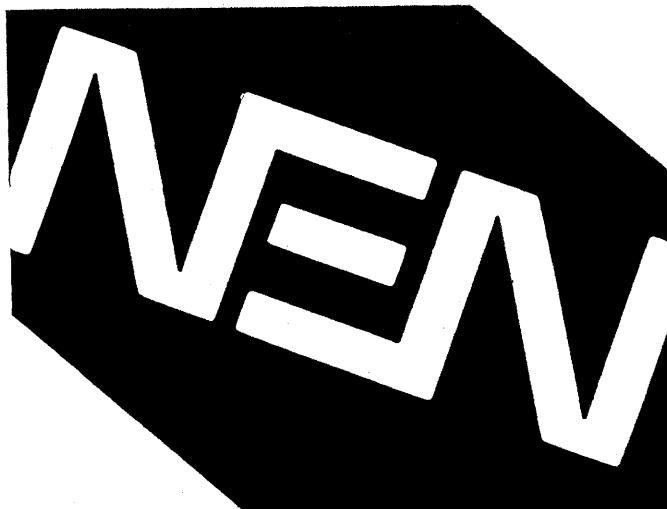
ALSO AVAILABLE: Electroplated Cobalt-58 sources
(0.47 Mev β +)

Write for complete specifications and prices.



New England Nuclear

575 Albany Street, Boston, Mass. 02118 Telephone (617) 426-7311



PROTEIN IODINATION

[125 or 131]

Service includes:

iodination
removal of unbound iodine
radioelectrophoretogram
shipped stabilized, frozen or dried

Write for prices and complete Technical Information



New England Nuclear

575 Albany Street, Boston, Mass. 02118 Telephone (617) 426-7311

PHARMACOLOGISTS

We have challenging research openings in our Pharmacology Department as a result of growth and expansion. We invite you to explore these opportunities:

Cardiovascular: Design and conduct experiments on cardiovascular actions of new compounds by newer technology.

Psychopharmacology: Responsible for pharmacologic identification and evaluation of psycho-active drugs. Opportunity to develop methodology.

Either a recent Ph.D. graduate or a person with up to 3 years' experience is required for each of these positions.

Cardiopulmonary: Strong background in respiratory physiology and pharmacology essential. Desire facility in use of modern equipment and techniques to measure respiratory function.

General Pharmacology: To participate in broad spectrum, general pharmacologic screening. Desire person with broad interests and ability to develop methodology and screening methods.

For either position we prefer a recent Ph.D. graduate or one with as many as 3 years' experience. Will consider B.S./M.S. applicants with commensurate industrial experience.

These positions offer stimulating prospect of professional growth and intellectual reward as research opportunities to explore new areas. Excellent starting salaries, relocation expenses, and liberal benefit program form base for personal growth.

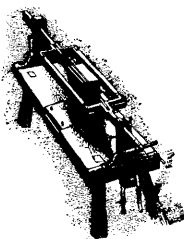
We welcome your inquiries and resumes, which should be sent in confidence to:

Manager, Executive Employment

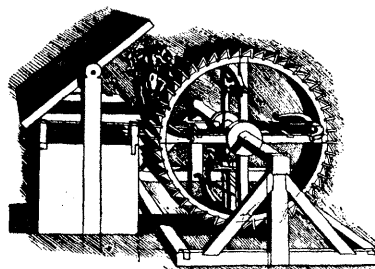
MEAD JOHNSON & COMPANY

Evansville, Indiana 47721

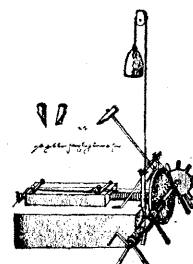
An Equal Opportunity Employer



MARBLE SAWING MACHINE BY LEONARDO



MILITARY ENGINE BY LEONARDO



FILE CUTTING MACHINE BY LEONARDO

Leonardo Da Vinci was a backward writer

World Who's Who in Science gives you capsule biographical information about everyone who's anyone in science.

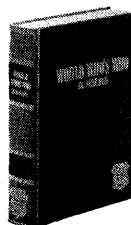
Dates, family status, education, major accomplishments, and so on. Some of the things you learn are surprising. Like the fact that da Vinci used mirror writing to keep his contemporaries from stealing his ideas.

World Who's Who in Science includes more than 30,000 contributors to scientific knowledge, from antiquity to the present.

World Who's Who in Science is to science as the dictionary is to language. Without it, you can't be sure of anything.

\$64.50 (list price) isn't much to pay to find out everything about everyone, is it?

See your book dealer or one of our authorized representatives. Or mail coupon today.



Amazing the things you learn in WORLD WHO'S WHO IN SCIENCE.

MARQUIS-WHO'S WHO, INC.

Dept. S-108, 200 East Ohio Street, Chicago, Illinois 60611

Please send me _____ copies of World Who's Who in Science.

\$ _____ is enclosed ☐ Bill me ☐

Please send more information ☐

Name _____

Title _____

Company or institution _____

Address _____

City _____

State _____ Zip _____

Personnel Placement

POSITIONS WANTED

Biopsychologist. 1967 Ph.D., five publications (biochemical control of learning), 3 years of teaching; seeks joint research/teaching appointment for 1969. Box 326, SCIENCE.

Biochemist. Ph.D.; 32 years old, 2 years' experience in directing an up-to-date clinical chemistry laboratory in a 300-bed hospital. Seeks a similar position with room for R&D and some teaching. Box 378, SCIENCE. 10/25

Genetics M.S.; Animal Husbandry B.S.; operated laboratory animal breeding for research; seeks commercial or research position. Woodward Personnel Bureau, 185 North Wabash, Chicago 60601.

Lipid Chemist. Ph.D., 12 years of research experience in field; publications. Strong background in development of new chromatographic methods, marine lipids, and comparative biochemistry of lipids. Seeks challenging senior research position with opportunity for publication. Box 381, SCIENCE. 11/1

Microbiologist. D.V.M., Ph.D. Four years of postdoctoral experience. Publications. Seeking teaching research position in United States or Canada. Box 277, SCIENCE. X

Translations of scientific literature from German and French into impeccable English. P.O. Box 489, Forest Hills, N.Y. 11375.

POSITIONS OPEN

NEW CAREER OPPORTUNITIES

(a) **PROF BOTANY/ZOOLOGY;** develop Ph.D. Environmental Biology program, research & teach; 9 mo \$18,000; state univ; MidW. (b) **BIOCHEMIST** blood coagulation research drug mfr; \$16,000; E. (c) **LIASON SCIENTIST;** med dept of cosmetic mfg & govt agencies; \$16,000 FEE PD; MidW. (d) **LAB MGR** 300-bed hosp; \$15,000; SW (e) **BIOCHEMIST** 350-bed hosp; \$20,000; MidW. (f) **MICROBIOLOGIST DEPT HEAD;** R&D animal health prod; \$15,000; mfg co; MidE. (g) **ASSOC PROF ANATOMY** \$16,000; med. sch.; MidW. **WOODWARD PERS BUREAU,** 185 N. Wabash, Chicago 60601.

RESEARCH BIOCHEMIST

DRUG METABOLISM

SK&F is seeking a research biochemist to carry out studies on the absorption, distribution, metabolism and excretion of experimental compounds in a variety of species of laboratory animals. This individual will also isolate, purify, and characterize metabolites and help to develop quantitative analytical methods for experimental compounds using classical chemical, spectral, and radioisotope techniques.

The person we need should possess an M.S. in biochemistry or chemistry (with biochemistry background or orientation) and 1 to 3 years of post-M.S. directly related experience. Will consider B.S. with 5 to 6 years experience. Also required is the ability to supervise technical assistants and communicate effectively both verbally and in writing with colleagues on an interdisciplinary project team.

In return for these qualifications, we offer excellent salary and benefit programs, ideal working conditions and the opportunity for personal and professional growth. Send résumé in confidence to:

ROBERT B. TURNBULL
SMITH KLINE & FRENCH
LABORATORIES

1500 Spring Garden Street
Philadelphia, Pa., 19101

An Equal Opportunity Employer
Member of Plans for Progress



POSITIONS OPEN

BIOMEDICAL ENGINEER

Opening for project engineer on blood-flow research program. Possible faculty appointment. Fluid mechanics, design, instrumentation background required. Biology experience desirable. Salary open. W. H. Gutstein, M.D. New York Medical College, Fifth Avenue and 106th Street, New York 10029.

Academic position open at far western university. Duties research and teaching in **Environmental Toxicology**. Educational prerequisite Ph.D. in chemistry, biochemistry, chemical engineering, or closely related discipline. Experience in field desirable but not essential. Prefer person under 40 years of age. Replies should be sent to **Agricultural Toxicology Laboratory, University of California, Davis, California 95616.**

UNIVERSITY OF QUEENSLAND AUSTRALIA

LECTURER IN MATHEMATICS

The University is seeking postdoctoral applicants for two lectureships in applied mathematics. The appointees will be expected to join fully in the research activities of a research group which is concentrating on applications of singular perturbation techniques in fluid dynamics, elasticity and heat convection. At present this group consists of four postdoctoral members of staff and eight research students. The successful applicants will also be expected to lecture and examine in appropriate branches of applied mathematics and to carry out other relevant duties.

Applications for permanent appointment are preferred but consideration would be given to applications for temporary appointment.

The salary range for a Lecturer is \$A5400-4x250, 3x300-\$A7300.

The University provides for permanent staff, Superannuation similar to F.S.S.U., Housing Assistance, Study Leave and Travel Grants.

Additional information and application forms will be supplied upon request to C. J. Connell, Registrar, University of Queensland, St. Lucia, Brisbane, 4067.

Pharmacologist

To head chemical evaluation and screening unit, contact chemical, drug companies, design tests in search for new control agents to prevent animal and bird losses to world food supplies. Starting GS-12 or 13 (\$12,174-\$14,409) depending on qualifications. Write **Director, Denver Wildlife Research Center, Bureau of Sport Fisheries & Wildlife, Building #16, Denver Federal Center, Denver, Colorado 80225.**

GRADUATE STUDY

PREDOCTORAL TRAINEESHIPS IN BASIC MEDICAL SCIENCES

Biological Chemistry
Human Anatomy and Cell Biology
Microbiology and Immunology
Pharmacology and Neurosciences
Physiology and Bioengineering

Prerequisites: Recent Bachelor's degree with overall "B" average. Physics, biology and organic chemistry, U.S. citizens or permanent residents only.

Facilities: Comprehensive basic science and clinical laboratories. Multidisciplinary faculty and independent graduate college administration of M.S. and Ph.D. degrees.

Initial Stipends: \$2400 plus tuition, fees and dependency allowance.

GRADUATE COLLEGE
UNIVERSITY OF ILLINOIS MEDICAL
CENTER
P.O. BOX 6998
CHICAGO, ILLINOIS 60680

POSTDOCTORAL TRAINEESHIPS IN METABOLISM AND NUTRITION. Postdoctoral traineeships in the field of metabolism are available in the Department of Biochemistry, St. Louis University School of Medicine. The program is primarily for physicians who have had a minimum of an internship and who are interested in learning the application of biochemistry to clinical investigation; facilities for human studies available in Department of Medicine; the stipends begin at \$6000 per annum with \$500 for dependents and appointments may be made for a period of 1 to 3 years beginning 1 July 1969; Ph.D. degree possible. Please apply to: **Dr. R. E. Olson, Professor and Chairman, Department of Biochemistry, St. Louis University School of Medicine, St. Louis, Missouri 63104.**

GRADUATE STUDY

GRADUATE TRAINEESHIPS AND FELLOWSHIPS IN BIOCHEMISTRY ST. LOUIS UNIVERSITY SCHOOL OF MEDICINE

Large staff and expanded facilities of the Edward A. Doisy Department of Biochemistry offer ideal opportunity for graduate training in major fields of biochemistry and molecular biology leading to Ph.D. degree. Funds available are primarily for U.S. citizens. Beginning stipend \$2400 plus \$500 for each dependent, and cost of tuition and fees. Apply now for academic 1969-70 to: **Dr. Robert E. Olson, Chairman, Department of Biochemistry, St. Louis University School of Medicine, St. Louis, Missouri 63104.**

Fellowships for individuals (M.D., Ph.D. or equivalent) seeking clinical or research training in metabolism including diabetes, endocrinology, hypertension, renal function, steroid biochemistry. U.S. citizen or declaration of intent filed. Stipend \$6,000-\$10,000 partly tax exempt plus dependency allowance. Apply **Dr. Richard Bailey, University of Oregon Medical School, Portland, Oregon.**

The Market Place

BOOKS • SERVICES • SUPPLIES • EQUIPMENT

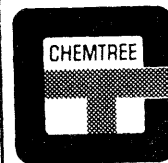
AUTHORS WANTED BY NEW YORK PUBLISHER

Your book can be published, promoted, distributed by a reliable company on a subsidized basis. Fiction, non-fiction, poetry, scholarly, scientific and even controversial manuscripts welcomed. For Free Booklet write **Vantage Press, Dept. SC, 120 W. 31 St., New York 10001.**

SPRAGUE-DAWLEY, INC.
Pioneers in the development of the
STANDARD LABORATORY RAT
P.O. Box 4220
Madison, Wisconsin
CE 3-5318

MINIPIGS

(Miniature Swine)
Vita Vet Laboratories
Marion, Indiana 46952
Phone 317-664-0013
Forest E. Conder



SPECIAL NUCLEAR SHIELDING

CHEMTREE CORPORATION
Central Valley, N.Y.
914-928-2293

TRACE ELEMENT PROBLEMS?

Contact Activation Analysis Service, Dept. A-234, Gulf General Atomic Incorporated, P.O. Box 608, San Diego, California 92112. Or phone collect 714/453-1000, Ext. 421.



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