АВВОТТ 📰

LABORATORIES

NORTH CHICAGO, ILLINOIS

Abbott Laboratories has positions open in its Divisions of Experimental Therapy and Microbiological Research. Excellent working conditions in new, well-equipped research installation in North Chicago, Illinois.

Pharmacologist	Ph.D. recent graduate. To work in general Pharmacodynamics in area of inflammation and analgesia.
Endocrinologist	Ph.D. recent graduate. Background and interests in biochemical aspects of steroids and other agents as re- lated to hormonal action.
Cellular Physiologist	Ph.D. to head research unit. Broad background in general physiology with knowledge of biophysical meth- odology. Tissue culture experience desirable but not required.
Enzymologist	Ph.D. with background in pharmacol- ogy, physiology or biochemistry. In- terested in the effects of drugs on the mechanism of enzyme action.
Research Microbiologist	Ph.D. to develop new screening tech- niques for microbial product program. Requires additional interest in taxo- nomic studies of actinomycetes.
Please	send résumé to

Mr. Robert D. Flinn, Employment Manager,

**ABBOTT LABORATORIES** 

North Chicago, Illinois

**Challenging New Position for** 

# MARINE BIOLOGIST

... who would like to assume responsible post with large, wellestablished scientific company. Must have ability to handle planning, field operations and studies. Requires M.S. in biology or physical sciences, with minimum of three to five years of experience as a marine biologist. Fish and wild life or fishing industry experience is desirable. Please submit brief resume to ...

Box 50, SCIENCE

## PERSONNEL PLACEMENT

### WHAT POSITIONS WANTED

Anatomist Ph.D. Experienced, academic research and teaching, industrial research. Desires university position. Box 30, SCIENCE. 2/16, 23; 3/2, 9, 16

Scientific Administrator. Ph.D. biochemistry, who can communicate ideas, listen, offer technical consultation, coordinate laboratory projects, 6 years' experience. Box 44, SCIENCE. X

Scientist Businessman, 12 years of ethical pharmaceutical experience for marketing, multidivisional staff coordination, or new products. For résumé write Box 42, SCIENCE. X

POSITIONS OPEN

### POSITIONS OPEN

### **BIOCHEMIST-PHYSIOLOGIST**

Expanding midwestern pharmaceutical company has opportunity for Ph.D. biochemistphysiologist to conduct fundamental research related to atherosclerosis and/or obesity. Postdoctoral experience preferred. An equal opportunity employer.

Please send complete résumé to

Technical Employment Coordinator THE UPJOHN CO. Kalamazoo, Michigan

#### before issue date (Friday of every week). DISPLAY: Positions Open. Rates listed below-mo 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

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COPY for ads must reach SCIENCE 2 weeks before issue date (Friday of every week).

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.

Graduate Assistantships in Microbiology. Start in June. M.S. average, 3.8. Thesis in immunology of dermatophytes. Box 49, SCIENCE. X

(a) Ph.D. Organic Chemistry, interested in teaching and research. (b) DVM (toxicology, experimental surgery) prefers pharmaceutical research. (c) Ph.D. Entomologist (parasitology, public health), teaching, research interests in medical entomology. (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., Burneice Larson, Chairman, 900 N. Michigan Avenue, Chicago 11, Illinois. X

23 FEBRUARY 1962

### **BIOCHEMIST-PhD.** Research Institute of New Jersev

Pharmaceutical company requires scientist with special interest in enzymology, energetics & intermediary metabolism. Program directed toward learning the mechanisms involved in diseases of the cardiovascular and central nervous systems. Recent Ph.D. or one with maximum of 3 years' experience required. Consideration given M.S. with directly related experience. Relocation expenses paid.

Send Resume Stating Salary Requirements to: BOX HA-632S, 250 W. 57 ST., NEW YORK 19



### **BIOCHEMISTS, PH.D.**

2, one with research interests in amino acid metabolism, one in lipid aspects of atherosclerosis. Salaries open. Midwestern Univ. Res. Group. Box 48, SCIENCE.

**BIOPHYSICIST** (SENIOR) \$7000-\$8480. B.S. with 18 hours in physics, 6 hours in biological sci-ences, and 6 hours in either chemistry or biology plus 2 years of experience in biophysics or related field or a satisfactory equivalent of the above train-ing and experience. Graduate study can be sub-stituted for experience. The position is located in Albany, N.Y. For further information write: Re-cruitment Unit, New York State Department of Civil Service, State Campus, Box 58B, Albany 1, N.Y. 2/23; 3/2

**BUSINESS OPPORTUNITY:** Small, fully equipped Glassblowing Shop desires to merge with Research & Development firm; or mfg. of instr. & lab. equipment; or University. Have 20 yrs. exp. in mfg. of scientific glassware, vacuum tubes, glass or ceramic to metal seals, distillation & cryogenic apparatus, encapsulated electronic parts. Located in midwest—willing to relocate. Offer open 3 mos. Box 47, SCIENCE.

Entomologist-Parasitologist, Geneticist, Experimental Embryologist (Ph.D.)

Teaching and research position. September, 1962. Catholic University in Metropolitan area.

Box 29, SCIENCE

MEDICAL RESEARCH SCIENTIST of proven ability, for associate-professorship-level research post in anatomy, biochemistry, pathology, phar-macology or physiology (basic-science or clini-cal science). Some teaching. Send résumé, with indication of research field and salary desired, to Director of Research Affairs,

College of Osteopathic Medicine and Surgery Des Moines 9, Iowa

MEDICAL and Scientific Publisher, Philadelphia, **MEDICAL and Scientific Publisher**, Philadelphia, offers attractive college editorial position to col-lege graduate. Knowledge of medical or biologi-cal sciences preferable. Territory is eastern sea-board with occasional short nationwide trips. Liberal travel allowance. Position includes ob-taining new manuscripts, their evaluation for publication, and textbook promotion. Salary com-mensurate with experience. Write full particulars to Box 34, SCIENCE. 2/23; 3/2, 9

### PATHOLOGIST M.D.

For position as Research Coordinator to assist and advise fellows in their research projects and train them in research meth-ods. Part time. Facilities for own research. Excellent opportunity for pathologist who is retiring from routine duties.

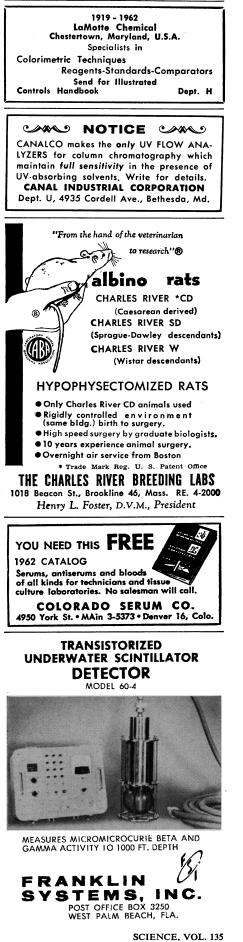
### **Box 13. SCIENCE**

Physical Chemist (M.S. or Ph.D.) with organic experience, biologically oriented, to design and conduct experiments in life support systems area. Challenging opportunity for a creative individual in a small independent company with campus-like atmosphere. Opportunity for scientific meeting attendance and paper publication. Write to Dr. Neal M. Burns, Director Advanced Life Sciences Division, The Decker Corporation, Bala-Cynwyd, Penna. 3/9

Penna. 3/9 (a) Physical Chemist, M.S., clinical and research; midwestern hospital; \$7500 up, (b) Biochemist, Ph.D., clinical, West, to \$10,000. (c) Faculty Appointment, Physiology/Pharmacology, teaching research; Canada. (d) Clinical Microbiologist, Ph.D., West, to \$11,000. (e) Pharmaceutical Chemist, B.S. pharmacist, pharmaceutical exper-ience; educational assistance; Midwest; open. (f) Anatomy Faculty Appointments, gross human-and neuro-, western medical school. (g) Analyti-cal Methods Development Chemist, experienced, quality control; Midwest. Many other opportu-nities available for both Junior and Senior Sci-entists. Please write Science Division, THE MEDICAL BUREAU, INC., Burneice Larson, Chairman, 900 North Michigan Avenue, Chicago 11, Illinois. X







Phenylketonuria results from the abnormal metabolism of the essential amino acid, phenylalanine and appears in new-born infants between the second and sixth week. If undetected and untreated before the age of 4 months, normal development of the brain may be permanently impaired resulting in phenylpyruvic oligophrenia, a condition characterized by various degrees of mental deficiency, usually severe. A symptom of the condition is the presence of ketone bodies (principally phenylpyruvic acid) in the urine. To develop a quick, simple and accurate tool for diagnosing phenylketonuria, Miles-Ames scientists based their approach on the reaction of ferric ions with phenylpyruvic acid to form a characteristic green or gray to blue color. Using this knowledge and carefully controlled manufacturing methods, the scientists developed PHENISTIX®. These are stiff cellulose strips impregnated with the necessary chemical ingredients. When pressed against a wet diaper they will undergo various color changes which are matched to a color scale to show the amount of phenylpyruvic acid in the urine. An indication of the benefits derived from this creative research by Miles-Ames scientists can be gained from the fact that a baby can be screened in 30 seconds, and where urines contain 15 or more mg. of phenylpyruvic acid per 100 ml. PHENISTIX have proven to be 99.5% accurate.

Greative Research and Phenylketonuria

If you seek an affiliation where you can utilize the full measure of your professional skills and will have continuing freedom to pursue fundamental ideas, you are invited to consider these openings:

**RESEARCH CHEMIST** – Will conduct independent chemical research directed toward the identification, analysis, chemical and physical characterization, purification, and modification of fermentation products. Must possess a Ph.D. in organic chemistry with minors in analytical chemistry and a biological science. Several years' industrial experience in natural products is prerequisite.

STAFF RESEARCH IMMUNOCHEMIST – Will have responsibility of developing, through the use of immunochemical techniques, a series of simple, reliable and standardized tests for the diagnosis of specific disease processes. Must possess Ph.D. or M.D. in immunochemistry, immunology or biochemistry and several years' direct experience, or at least close personal contact, with various aspects of clinical immunology.

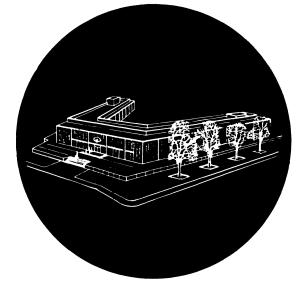
**RESEARCH PHYSIOLOGIST OR BIOCHEMIST** – Will conduct research in using methods of protein separation employing paper chromatography, electrophoresis, column chromatography, etc. A Ph.D. in protein chemistry is prerequisite.

**RESEARCH PHARMACOLOGIST** – Will have major responsibility of supervising first administration of new drugs to animals for determination of acute LD 50's and to observe gross pharmacological effects. Additional duties will include carrying out chronic toxicological studies on new compounds of interest and supervising toxicological studies by outside agencies and maintaining a central file of toxicological information. Applicants should have Ph.D. in pharmacology or toxicology. Previous toxicological experience will prove helpful. **RESEARCH PHARMACIST** – Duties will include carrying out research in the area of product development to determine marketable dosage forms, provide satisfactory shelf life and meet medical standards for marketing new pharmaceutical products. Must hold Ph.D. in pharmacy or pharmaceutical chemistry. Industrial or post-doctoral experience in pharmaceutical research is desirable but not essential.

**RESEARCH INFORMATION SCIENTIST**— Major activity will be working closely with laboratory and clinical scientists in collecting, evaluating, organizing and presenting scientific information pertinent to a current or proposed program having potential diagnostic or therapéutic interest to the company. Should have Ph.D. in a biological science, preferably physiology or pharmacology. Experience in the science information field, while helpful, is not prerequisite.

**RESEARCH CHEMIST**—Will have principal responsibility of applying knowledge of chemistry in defining research objectives and programs and engage in basic and applied research. Must have Ph.D. in chemistry and several years' experience in organic synthesis, polymers, resins and/or plasticizers.

**RESEARCH CHEMIST** – Responsibilities will center on synthetic organic chemistry studies to provide new compounds of potential therapeutic interest. Position requires Ph.D. in organic chemistry. Industrial synthetic organic chemistry experience will prove advantageous.



Miles Laboratories recently-completed research center, headquarters for Miles-Ames research activities.

This is another example of how creative research at Miles-Ames is making important advances in forward pharmaceutical areas. Now occupying a new Research Center, the Miles-Ames Professional Staff is expanding its research activities in Biology, Biochemistry, Chemistry, Enzymology, Microbiology, Immunology, Pharmacology and Physiology. The continuing goal of these studies is the development of new and more effective pharmaceutical products.

Inquiries may be directed in complete confidence to: **DR. R. A. McCRACKEN**, Coordinator of Management Recruitment (Personal discussions can be arranged at your convenience, including Saturdays, in Elkhart, Indiana.)

## MILES LABORATORIES, INC. and AMES COMPANY, INC.\*

1127 MYRTLE STREET, ELKHART, INDIANA

An Equal Opportunity Employer \*AMES COMPANY, INC. IS AN ETHICAL PHARMACEUTICAL DIVISION OF MILES LABORATORIES, INC.

New liquid scintillation flow cell provides precise continuous measurement of radioactivity in liquid chromatography columns



Now you can automatically, continuously, and precisely assay beta-emitting isotopes in the effluent stream of your liquid chromatography column. ¶ Simply insert the special flow cell in any Nuclear-Chicago liquid scintillation system. The conversion takes only minutes. ¶ C-14 efficiency, 27-40%; background 15 counts/min. H-3 efficiency, 2-3% for tritiated water; background 40 counts/min. Sensitivity 4 x 10<sup>-5</sup> microcuries. Superb resolution. ¶ The new liquid flow cell is available as a reasonably priced accessory for all Nuclear-Chicago liquid scintillation spectrometers. Write or ask your Nuclear-Chicago representative for literature.

349 EAST HOWARD AVENUE DES PLAINES, ILLINOIS

