

13 JANUARY 1961

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POSITIONS OPEN

Medical Writer-Editor

Unusual opportunity for scientifically trained or experienced medical writer. Professional position with Ethical Phar-maceutical Division of expanding chemi-cal corporation located in New York City suburbs. **Box 230, SCIENCE.**

(a) Microbiologist to supervise department of 450-bed hospital; California. (b) Organic Chemist with steroid syntheses experience for new labo-ratory of large university hospital; academic ap-pointment included; around \$10,000; Midwest. (c) Clinical Research Director for drug evalua-tion, research and administrative duties for ex-panding pharmaceutical firm; to \$20,000; Mid-west. (d) Veterinarian to take charge of farm producing hybrids, inbreds, Swiss mice, and so forth; around \$10,000; East. (e) Clinical Scientist to head hematology, blood bank, immunology sections of university-affiliated hospital; Texas. (f) Neurophysiologist for advanced research at university; \$9000-\$11,000; South. (g) Pharma-cologist for research on untested new chemicals and activity evaluations for large drug firm; around \$10,000; Midwest. (h) Bacteriologist to 450 beds; modern laboratories; \$8500 up; Mid-west. (i) Biology Assistant and Associate Profes-sors for teaching; research in cytology, virology, and so forth, at state university; East. (Please write for details; also many other positions avail-able through our nationwide service.) S1-2 Medi-cago. THE BEST SOURCE FOR THE BEST MEDICAL-SCIENTIFIC POSITIONS. X

PHARMACOLOGIST PHARMACULOGIST Expanding Pharmaceutical Firm in Prince-ton, N. J. area has openings for two Phar-macologists with Ph.D. in Physiology or Pharmacology. Post-doctorate experience preferred. Send complete résumé including colory requirements salarv requirements. WALLACE LABORATORIES Division of Carter Products, Inc. Cranbury, N. J.

Ph.D. for Basic Research in Cystic Fibrosis. Field of interest-mucous synthesis on cellular level, analyses of body secretions and enzyme kinetics. Knowledge of use of isotopes helpful. Time for other work in field of personal interest. New research facilities. Excellent salary.

Box 2, SCIENCE

PHYSICAL BIOCHEMIST

Prospective or recent Ph.D. as collabora-Toppetrive and the second seco Main Street, Cambridge 42, Mass.

Research Assistantships in Biochemistry and Physiology at B.A. or M.S. level. Re-search applicable toward Ph.D.

Heart disease research institute associated with large midwestern university. Initial stipend up to \$4800 for 12 months' service. Send complete résumé.

Box 1, SCIENCE

RESEARCH PHARMACOLOGIST

To conduct and supervise research on pharmacodynamics of novel chemical substances. Excellent facilities. Opportunities for collaboration with scientists in allied fields. Reply—Director Research, Irwin, Neisler & Co., Decatur, Ill.

POSITIONS OPEN

DROSOPHILA TECHNICIAN

Must be experienced. Knowledge of *Drosophila* genetics and terminology essential. Knowledge of histological and salivary gland techniques help-ful but not essential. Location is Chapel Hill, North Carolina. Salary open, commensurate with experience and ability.

Box 201, SCIENCE

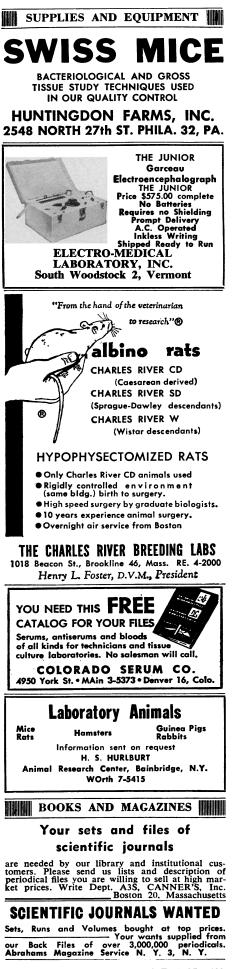
Box 201, SCIENCE
(a) Medical Writer; M.S. minimum, qualified chemistry, biology, other sciences; unusually fine opportunity for experienced writer; to \$12,000; prominent eastern company. (b) Bacteriologist; M.S. preferred for research in isolation, identification new viral agents; experienced virology, tissue culture; research foundation affiliated southeastern pediatric hospital; to \$6000. (c) Bacteriologist; M.S. equivalent to head department, voluntary general hospital 250 beds; \$7500; lovely Chicago suburb. (d) Biochemist; Ph.D. capable independent work, supervision and teaching of technical personnel; West Coast pharmaceutical company; to \$9600. (e) Clinical Chemist; M.S. preferred, consider B.S. or recent Ph.D. to head active section, 350-bed general hospital; residential suburb prominent eastern industrial, university center. (f) Bacteriologist; M.S., Ph.D. to aid in reorganization of laboratories, 300-bed general hospital; \$9000; southeastern city 50,000. (g) Pharmacologist; Ph.D. for company with major studies to \$10,500. (h) Biochemist; Ph.D. experienced clinical methods, university-affiliated general hospital area near prominent university center; Southeast. (j) Biochemist; M.S. to supervise well-staffed department, busy laboratory, 250-bed hospital expanding to 350; to \$7500 for M.S.; Midwest. (k) Pharmacologist; Ph.D. to direct cardiovascular drug screening program, outstanding eastern company; to \$13,000. Science Division, Woodward Medical Bureau, Ann Woodward, Director, 185 North Wabash, Chicago.

FELLOWSHIPS

Applications now being accepted for Graduate Study in Biochemical Pharmacology leading to Ph.D. degree. Prerequisites are a B.S. degree in chemistry or biology with a strong chemistry background. Research programs in progress on amino acid and nucleic acid metabolism, bio-chemical genetics, smooth muscle physiology, mechanism of enzyme action, and mechanism of drug action. Fellowships available with an initial stipend of \$3000 per annum. Personal interviews arranged for promising applicants. Write to Chairman, Department of Pharmacology, St. Louis University School of Medicine, St. Louis 4, Mis-souri. 1/20

The Department of Pharmacology, University of Buffalo School of Medicine, Buffalo 14, N.Y., of-fers a 4-year program of course work and re-search training leading to the Ph.D. degree. Re-search opportunities include the action of drugs on the kidney, the heart and circulation, the autonomic ganglia, and skeletal muscle. Annual stipends of \$1800 to \$2200 plus full tuition, plus \$500 for each dependent. Applications now being considered for entrance September 1961. De-tailed information supplied on request.





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Said Gaspard de Coriolis: "A particle which is subject to no forces in a rotating coordinate system experiences a radial acceleration and a tangential acceleration."

It was around 1840 that Coriolis discovered what has since become known as the Coriolis Effect. He noticed objects above the earth tend to rotate relative to the earth's rotation ... to the right in the northern hemisphere, to the left in the southern.

The Coriolis Effect is in force in outer space, too. If a space vehicle is rotated in order to establish artificial gravity, the necessarily short radius of the rotation causes a Coriolis force. This creates orientation problems for a human occupant. To eliminate this difficulty, a scientist at Lockheed Missiles and Space Division conceived the idea of connecting the vehicle to an auxiliary fuel tank by a half-mile-long cable. Thus, if the whole system is then rotated at a reduced speed around its center of mass gravity, the longer radius greatly minimizes the Coriolis force. Right now—on the drawing boards at Lockheed —is an enormously advanced space vehicle system which utilizes this concept, in addition to many others.

Fortunately, natural laws are about the only restrictions which circumscribe scientists and engineers at Lockheed Missiles and Space Division. The climate in Sunnyvale and Palo Alto, on the San Francisco Peninsula, is close to perfection. The creative atmosphere—the opportunity to work on such important projects as the DISCOVERER, MIDAS and SAMOS satellites, the POLARIS FBM, or even more advanced concepts such as the space system cited above—is the dream of the creative engineer.

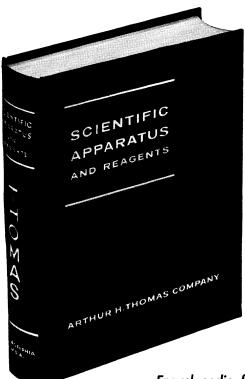
Why not investigate future possibilities at Lockheed? Write Research and Development Staff, Dept. M-11C, 962 West El Camino Real, Sunnyvale, Calif. U.S. citizenship or existing Department of Defense industrial security clearance required.

Lockheed MISSILES AND SPACE DIVISION

Systems Manager for the Navy POLARIS FBM; the Air Force AGENA Satellite in the DISCOVERER, MIDAS and SAMOS Programs

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