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

**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. Send copy for display advertising to **SCIENCE**, Room 1740, 11 West 42 St., New York 36.

Single insertion \$50.00 per inch  
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**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

**Agricultural Biochemist, Ph.D.** Animal biochemistry, nutrition, carbohydrates, industrial research, academic research and teaching. Desires opportunity in industrial or academic research. Box 98, **SCIENCE**. X

(a) **Ph.D. Biochemist/Physiologist** prefers teaching with research. (b) **Ph.D. Chemist** (organic, analytical, physical); interests: supervision, instrumentation. (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

**Biologist.** Desires college teaching appointment. Primary interest—animal physiology. Experience: 4 years' research plus 7 years' college teaching. Available summer 1962. David B. Brittain, 110 Elm, Elmhurst, Illinois. X

**General Biologist Ph.D.;** 12 years of teaching various zoology and botany courses. Special interest invertebrate zoology. Publishing and technical writing experience. Box 99, **SCIENCE**. 5/18

**Medical Writer.** Experienced in brochures, clinical papers, FDA submissions. Desires position with ethical pharmaceutical firm, East Coast. Box 91, **SCIENCE**. 5/11

**Virologist-Microbiologist, M.A., Ph.D.** Desires teaching research position in medical or veterinary school or supervisory position. Experienced in virology, tissue culture, virologic diagnostic work, and teaching medical microbiology in medical school. Box 100, **SCIENCE**. X

### POSITIONS OPEN

**MEMORIAL UNIVERSITY  
OF NEWFOUNDLAND**  
St. John's, Newfoundland, Canada

Because of expanded facilities two additional positions at the Assistant Professor rank and with specialization in Marine Biology have been created in the Department of Biology, Memorial University of Newfoundland. (One position will have emphasis on marine invertebrates, the other on marine botany.)

Duties beginning September, 1962 to include teaching and research.

Applications accompanied by complete curriculum vitae and the names of three referees should be addressed to the **Head, Department of Biology, Memorial University of Newfoundland**.

## SENIOR RESEARCH SCIENTIST

Senior Research Scientist in biological laboratory. Training and experience clinco-pathological techniques necessary.

An understanding of general pathology and a willingness to extend knowledge in histopathology will be required.

Participate in projects as a working member of a team. The applicant will be encouraged to accept responsibility and perform some supervisory functions.

Must have PhD or MS with experience.

Submit complete résumé in confidence to: Mr. Thomas J. Murphy

**Johnson & Johnson**

**RESEARCH FOUNDATION  
NEW BRUNSWICK, NEW JERSEY**

### CANADA FISHERIES RESEARCH BOARD PROTEIN CHEMIST, BIOCHEMIST or ENZYMOLOGIST

**Duties:** To develop and execute a research programme, preferably in relation to lipoproteins or proteolytic enzymes, in order to complement the activities of a research group engaged in studying the effects of frozen storage on the proteins and other constituents of fish muscle. Problems on other aspects of protein chemistry or biochemistry of marine life may be acceptable. To supervise junior personnel and assess results and prepare them for publication.

**Qualifications:** Applicants should have a Ph.D. from a university of recognized standing; post-graduate experience in some aspect of protein research essential.

**Salary and Privileges:** \$8800 to \$10,500 per annum, depending upon qualifications and experience. Benefits of Public Service are available. For further details apply to: **Director, Fisheries Research Board of Canada, P.O. Box 429, Halifax, Nova Scotia, Canada.**

**U. S. Army  
Quartermaster Research & Engineering Center  
Natick, Massachusetts**

#### Needs:

#### A Life Sciences Administrator

To serve as Associate Director, Pioneering Research Division, with responsibility for directing long range fundamental research programs in the fields of microbiology, insect physiology, biophysics, biochemistry and radiation biology.

A Ph.D. with at least three years of appropriate administrative and technical experience, with publications, in biological science fields.

and

#### A Physical Chemist

To head the Physical Chemistry Laboratory, Pioneering Research Division, performing fundamental research in the areas of photochemistry, flash photolysis, radiation chemistry, reactions in the adsorbed state and free radicals.

A Ph.D. with at least three years' appropriate experience and publications, preferably in the areas of photochemistry and radiation chemistry.

#### Send resume to:

**Dr. S. David Bailey, Director  
Pioneering Research Division  
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### BIOLOGICAL CHEMIST

Take charge of Biological Section in Control Department of pioneer manufacturer of intravenous drugs and associated plastic medical equipment, located in beautiful Glendale, California. Supervise technical and subsidiary personnel performing pharmacologic/bacteriologic control testing. Develop such tests for Control, Development and Research Departments. Minimum of Bachelor or Masters degree in biochemistry, pharmacology or related field plus industrial or equivalent experience in supervision and pharmacologic methodology. Reply, including résumé and salary requirement to

**J. C. Mitchell**

**DON BAXTER, INC.**

1015 Grandview Avenue, Glendale 1, California

(a) **Ph.D./M.S. Mathematics**, teaching and research; central; to \$10,000. (b) **Research Associate**, bacteriology/entomology; permanent or summer; central university; to \$8000 year. (c) **Clinical/Research Ph.D. Bacteriologist**, midwestern medical center; to \$13,000. (d) **Faculty Appointment**; biology/anatomy; eastern college; to \$8500. (e) **Ph.D. Biochemist**, plasma, enzyme research; eastern medical school; to \$9000. (f) **M.S. Biochemist**; isotope/physical chemistry experience; central university research. Many other opportunities available for both junior and senior scientists. Please write Science Division, **The Medical Bureau, Inc., Burnice Larson, Chairman**, 900 North Michigan Avenue, Chicago 11, Illinois.

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To assume full charge of injectable manufacturing in medium-size mid-western pharmaceutical company.

**Box 85, SCIENCE**

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Excellent salary. Liberal employee benefits. Please send qualifications to

**Box 97, SCIENCE**

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### VIROLOGIST

Well-known midwestern drug manufacturer seeks a man with background in virology, microbiology or tissue culture, capable of top performance in challenging assignment in the production and/or processing of biologicals. Direct reply to

**BOX 95, SCIENCE**

**NCR**

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New programs in semiconductor and thin films research have created ground floor opportunity for qualified and vigorous research scientists in NCR's expanding research and development effort. Our interest is not temporary; rather it is an element of the stable long-range viewpoint that has led to 78 years of leadership in the field of business equipment and systems. Perhaps you qualify to become a part of this respected organization.

*Openings in our Physical  
Research Department include:*

Ph.D. in physics, with at least five years' experience in semiconductor component research and development, a theoretical understanding of semiconductor (silicon and germanium) physics, research and development experience in the semiconductor device fabrication techniques such as diffusion, alloying, masking etching, and in particular be familiar with the epitaxial formation of multilayer semiconductor structures.

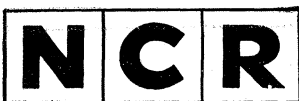
Assignment involves technical leadership for a program in molecular electronics which will first be concerned with the investigation and exploitation of the epitaxial technique to determine its limitation and capabilities as related to the fabrication of functional semiconductor structures.

Ph.D. in physical chemistry with three years of experience in the areas of electro-chemistry, preferably as applied to the formation of thin magnetic films. He should be familiar with the process of electro-deposition as related to magnetic materials and alloys, and have considerable understanding of magnetic theory, processes of crystal nucleation and growth as they are related to the formation of metallic electro-deposited films. It is also desirable to have technical familiarity with x-ray and electron diffraction examination and analysis methods, so that these skills may be brought to bear on the problem of the relationships of film composition and crystalline structure to the magnetic characteristics of electro-deposited films.

Ph.D. in physical chemistry, with approximately 5 years' experience and theoretical understanding of the problems of materials preparation, structural and compositional analysis and interpretation, and methods of materials evaluation. Particular emphasis should include solid state materials, such as semiconductors, magnetic materials, superconductors, and dielectrics. To investigate these and other openings, write to:

**Technical Placement, The National Cash Register Company, Main and K Streets, Dayton 9, Ohio**

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## ADVANCE DEVELOPMENT

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### • SOLID STATE PHYSICS

*To design and confirm integrated circuit structures*

### • ELECTRONICS

*To design and evaluate integrated circuits*

### • LOGIC

*To specify and evaluate integrated circuits in logical applications*

### • PROCESS

*To establish and improve processes in thin film and semiconductor technology such as evaporation, diffusion, contacting, surface treatment, epitaxy, etc.*

In addition to unexcelled facilities and opportunities, NCR offers many unusual and unexpected benefits both in living and working climate. Purposeful effort, long-range planning, and good management backed with 78 years of systems experience underlie the stimulating program of research and development now emerging at NCR. To be considered for what may be your ground-floor opportunity, write to:

**T. F. Wade, Technical Placement**  
**The National Cash Register Company,** Main & K Streets, Dayton 9, Ohio

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## POSITIONS OPEN

### BIOCHEMIST-Ph.D. UNUSUAL OPPORTUNITY

... for a Biochemist with good background in intermediary metabolism and knowledge of physiology; able to work effectively with both scientists and management people; must have facility in oral and written communication.

#### THE JOB:

Important role in Research and Development of new therapeutic agents including design of laboratory and clinical studies, interpretation of data and evaluation of clinical utility. Wide contact with laboratory scientists, clinicians and management.

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Wallace R. Hall,  
Employment Manager



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#### FISHER SCIENTIFIC CO.

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Write: Box 96, SCIENCE

#### CHEMIST BIOCHEMIST

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**Dr. Malcolm B. Carpenter, College of Physicians and Surgeons, Columbia University, 630 West 168th Street, New York 32, N. Y.**

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**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.

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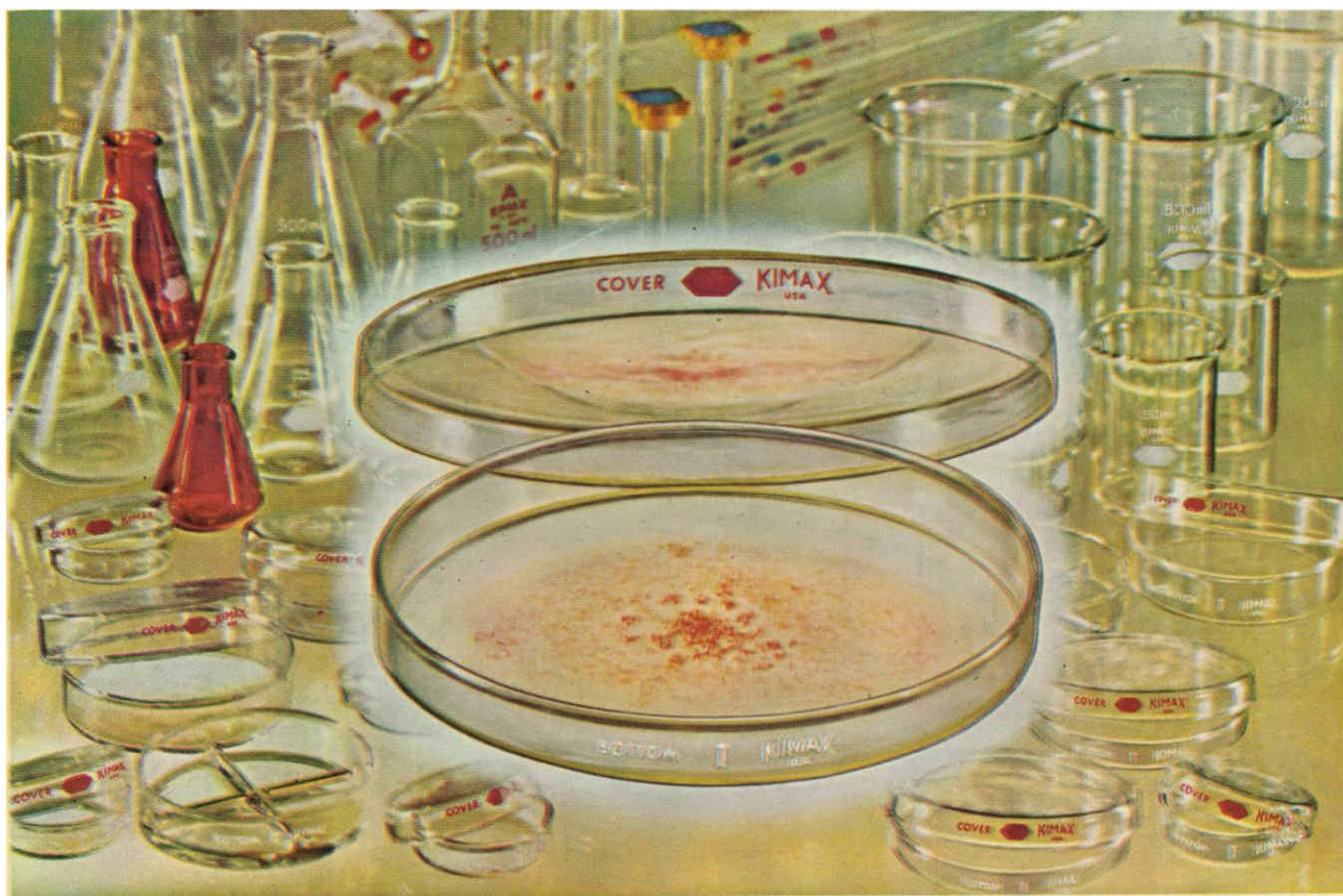
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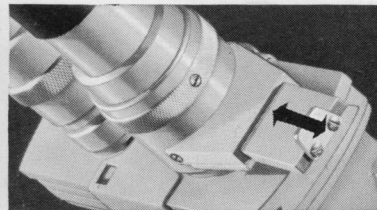
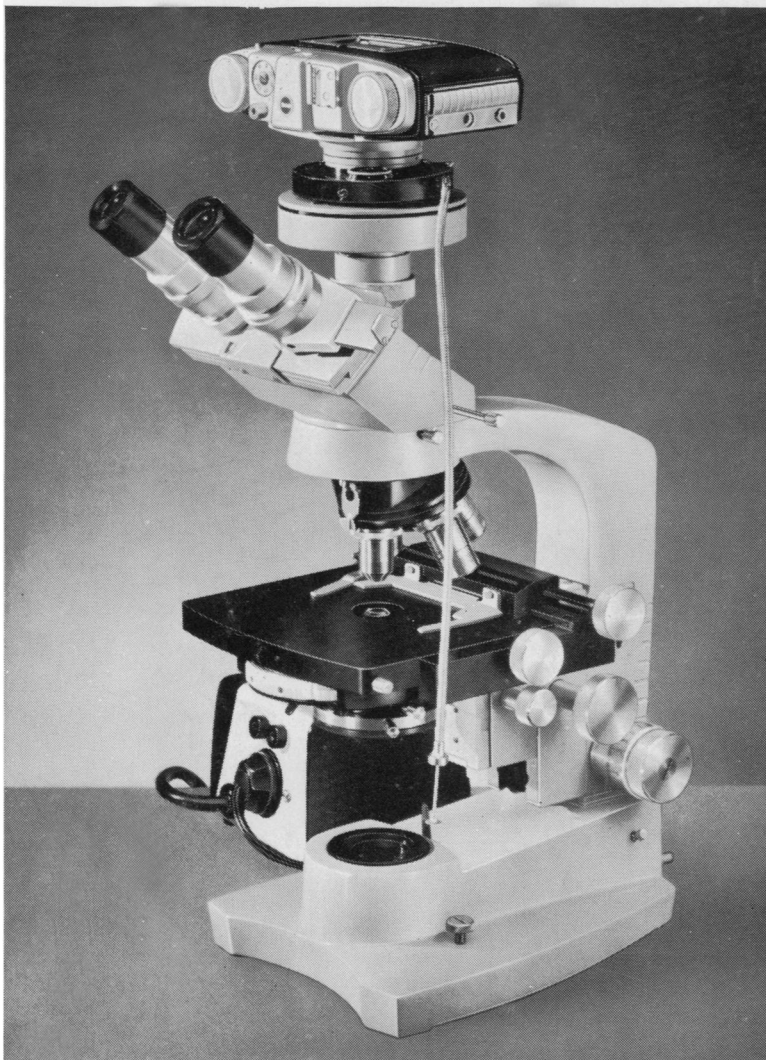
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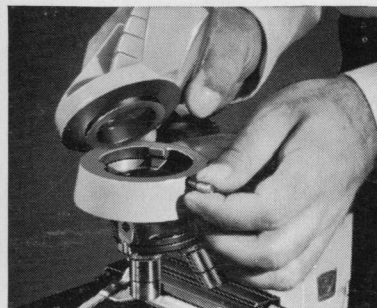
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**Interchangeable Stages** You loosen single set screw to remove and interchange stages... your choice of graduated or ungraduated mechanical or MICRO-GLIDE stages.

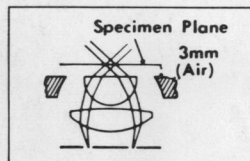
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