

# Personnel Placement

Only those employers and individuals who do not discriminate on the basis of race, sex, religion, age, color, or national origin should submit Personnel Placement advertising.

**POSITIONS WANTED:** 40¢ per word; use of Box Number counts as 10 additional words. Minimum charge \$10. Prepayment required. This rate applies to individuals only; personnel agencies, companies, colleges, and universities take display rate for all advertising.

**DISPLAY (POSITIONS OPEN, MARKET PLACE, AND SO FORTH):** \$130 per inch, minimum, per insertion (1 inch is equivalent to 12 lines of 48 characters each). Ads over 1 inch billed to nearest quarter inch. No charge for Box Number. Rates net. No agency commission allowed for ads under 4 inches. No cash discount. Prepayment required for foreign advertising. Purchase orders and billing information must accompany all other advertising.

COPY for ads must reach SCIENCE by Wednesday, 3-1/2 weeks before issue date (Friday of each week) requested. Send copy for all positions wanted ads and display ads under 5 inches to:

SCIENCE, Room 207  
1515 Massachusetts Ave., NW  
Washington, D.C. 20005

Send copy for display ads, 1/6 page and larger, to:

Scherago Associates, Inc.  
11 West 42nd Street  
New York, N.Y. 10036

BLIND AD replies should be addressed as follows:

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SCIENCE  
1515 Massachusetts Ave., NW  
Washington, D.C. 20005

## POSITIONS WANTED

**Analytical Chemist:** B.S. 1967. Seeking R & D position doing materials analysis and characterization. No agencies please. Box 159, SCIENCE. X

**Biochemist.** Ph.D. Postdoctoral experience. Training in enzymology and metabolism. Seeks position combining research with teaching. Box 184, SCIENCE. 4/23, 30; 5/7

**M.A. Biochemistry, Neurochemistry.** Versatile, conscientious, hard worker, impeccable laboratory techniques with radioisotopes, electron microscope, enzyme assays. Teaching experience. Seeks research position in university-affiliated laboratory where continuing education opportunity toward Ph.D. exists. Box 199, SCIENCE. X

**Bioengineer.** M.S. plus in bioengineering. Background and experience in mechanical engineering. Computer skills. Seeks research and development position. Box 200, SCIENCE. X

**Biologist-Anatomist.** M.S. zoology 1970, M.S. anatomy 1976. Desires challenging teaching position at 4-year college. Experienced in teaching anatomy-physiology, general biology, histology, and gross anatomy. Box 201, SCIENCE. X

**Biological Scientist.** A.B. (1975) Indiana University, seeks research technician's position in lab setting. Box 202, SCIENCE. 4/23, 30

**Ecologist/Zoologist.** Ph.D. Seeks academic position (associate professor) in biology and/or environmental education. Experience: college teaching (11 years) in ecology, invertebrate zoology, general biology, and zoology; research and publications specializing in freshwater mollusks; museum work; environmental consulting. Dr. P. Clappitt, 521 West Oakridge, Ferndale, Michigan 48220. X

**Groundwater Hydrologist.** Ph.D. Eight years of field, modeling experience, foreign, domestic. Prefers overseas teaching, research, or field position. Box 203, SCIENCE. X

**Law/Biology.** M.S., J.D., 1974. Seeks interdisciplinary teaching and/or academic administrative position. Teaching and publications in biology. Law review and private practice in law. Résumé and references available. D. Peterson, 210 Vallejo Street, Petaluma, California 94952. X

## POSITIONS WANTED

**Certified consulting Meteorologist-Senior Scientist.** Currently engaged in environmental and energy research. Experienced in technical management, business development, customer interface, administration. Box 204, SCIENCE. X

**Neuropsychologist/Psychophysicist.** M.A. 1974; dissertation on evoked slow potentials in man; experienced in AC and DC recording techniques, EEG, biofeedback, computer programming, electronics, photography. Box 190, SCIENCE. X

**Organic Chemist/Chemical Oceanographer.** Ph.D. Experience in lipid biogeochemistry and hydrocarbon pollution research, shipboard investigations. Conducted field and laboratory studies. GC, GC/MS, IR, and other instrumentation. Publications. Seeks research and/or teaching position. Box 205, SCIENCE. X

**Physiological-Comparative Psychologist.** Ph.D. by August 1976. Papers and publications in sexual, maternal, aggressive, and play behavior in several species. Research experience in lesion, pharmacological, and hormonal manipulations. Desires research or postdoctoral position involving training in neurochemical or neuroendocrinological techniques in academic, clinical, or industrial setting. Box 206, SCIENCE. 4/23, 30

**Plant Physiologist.** B.S., M.A., 2 years of additional graduate studies. Teaching experience, meticulous researcher, enthusiastic. Desires a challenge. Box 207, SCIENCE. X

**Senior Reproductive Biochemist** seeks academic position. Currently directing active, innovative program on the maturation of spermatozoa. First-rate credentials and references. Box 208, SCIENCE. X

## POSITIONS OPEN

Two positions in ANATOMY with rank of instructor or assistant professor open 1 July 1976. Ph.D. and/or M.D. required. Applicants should be proficient in teaching both medical gross and microscopic anatomy or medical gross and neuroanatomy. Independent research is expected.

Candidates who qualify may send curriculum vitae and three letters of recommendation to:

Adrian F. Reed, M.D.  
Head, Department of Anatomy  
Louisiana State University School of Medicine  
in Shreveport  
P.O. Box 3932  
Shreveport, Louisiana 71130

An Equal Opportunity/Affirmative Action Employer

### ANATOMY

Two junior faculty positions available as of 1 July 1976. Ph.D., M.D., or D.O. required. A strong background in neuroanatomy is desirable for one position. Broad background in gross anatomy and microscopic anatomy essential. Submit curriculum vitae and the names of three references to:

Dr. M. W. DuBois, Chairman  
Department of Anatomy  
Chicago College of Osteopathic Medicine  
1122 East 53 Street  
Chicago, Illinois 60615

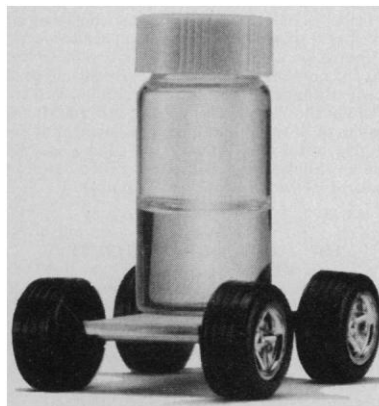
An Equal Opportunity Employer

### ANATOMY RESEARCH/TEACHING

Research position available in field of experimental anatomy as adjunct professor of appropriate rank at the University of California, Irvine. Collaborative studies of experimental animals undergoing exposure to pollutants in food and air requires knowledge of normal and pathologic anatomy by light and electron microscopy. Opportunity to teach normal and pathologic anatomy to graduate students in toxicology. Requires Ph.D. in anatomy or related field and 2 years of postdoctoral research preferably including electron microscopy. Closing date for applications is 1 June 1976. Applications from all qualified candidates are welcome; minorities and women are encouraged to apply. Submit complete curriculum vitae and names of at least three references to Dr. T. Timothy Crocker, Professor and Chairman, Community and Environmental Medicine, College of Medicine, University of California, Irvine, Calif. 92717.

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## POSITIONS OPEN

**ANESTHESIOLOGIST**—Board-certified or -eligible. Active residency and teaching program with Louisiana State University Medical Center—School of Medicine in Shreveport. Moderate climate. Submit curriculum vitae to **Dr. M. T. Metzgar, P.O. Box 3932, Shreveport, Louisiana 71130**, or telephone **318-266-3306**. *An Equal Opportunity Employer.*

The University of Minnesota Medical School, Minneapolis, invites nominations and applications for a faculty position at the rank of **ASSOCIATE PROFESSOR OR PROFESSOR** for an endowed chair in the field of rheumatic diseases. This position requires a physician-medical scientist holding the M.D. degree; Ph.D. degree in addition is desirable, but optional. Specialty training and postdoctoral fellowship or equivalent research training are desirable. Candidates should have clinical and research experience in basic mechanisms of pathogenesis of connective tissue diseases. Leadership in academic medicine should be demonstrated by scientific research and strong commitment to undergraduate and graduate medical education. Inquiries, including a curriculum vitae, should be sent to **Dr. Alfred Michael, Chairman of Search Committee, Department of Pediatrics, Mayo Box 491, University of Minnesota Medical School, Minneapolis, Minnesota 55455**. *An Equal Opportunity/Affirmative Action Employer.*

### THE CALIFORNIA INSTITUTE OF TECHNOLOGY invites applications for an ASSISTANT PROFESSORSHIP IN ASTRONOMY

The major research interests of candidates should be in the observational or interpretative aspects of optical, infrared, or ultraviolet astronomy.

Members of the Caltech Astronomy Faculty whose major research activity is in optical or infrared astronomy are normally appointed as Staff Members of the Hale Observatories subject to the approval of the California Institute and of the Carnegie Institution of Washington.

Applications should include (i) a description of educational background, (ii) a résumé of research and teaching experience, (iii) a list of all publications, (iv) copies of all manuscripts submitted for publication but not yet published, and (v) a statement of current research interests and future research plans. The applicant should ask three scientists who know the applicant personally to send letters of evaluation directly to **Professor W. L. W. Sargent, Executive Officer for Astronomy, California Institute of Technology, Pasadena, Calif. 91125**. Completed applications and letters of evaluation should be received by 1 June 1976; appointment will be made as soon thereafter as circumstances permit.

*Caltech is an Equal Opportunity Employer with an Affirmative Action Program. We encourage applications from qualified women and members of minority groups.*

### ASSISTANT PROFESSOR OF BIOLOGICAL CHEMISTRY (VIROLOGY) UCLA SCHOOL OF MEDICINE

Applications are invited from individuals whose major research activity is in the biochemical aspects of animal virology with additional interests in the pathogenesis of viral diseases. Candidates will be expected to participate in the teaching program of the Department of Biological Chemistry and to develop an independent research program within the newly established interdepartmental Section on Neurovirology, Reed Neurological Research Center, directed by Professor Jack Stevens. This Center is physically and administratively an integral part of the UCLA School of Medicine. Send curriculum vitae, a short statement of research interests and plans, and references by 1 July 1976 to **Virology Search Committee, Department of Biological Chemistry, School of Medicine, University of California, Los Angeles, California 90024**. *We are an Equal Opportunity/Affirmative Action Employer. Applications from minority candidates and women are encouraged.*

**ASSOCIATE DIRECTOR** of Clinical Chemistry Laboratory. Ph.D. with experience preferred. Faculty appointment dependent on qualifications. Salary commensurate with experience and qualifications. Qualified applicants should submit their curriculum vitae to: **C-70, P.O. Box 2045, Philadelphia, Pa. 19103**. *An Equal Opportunity/Affirmative Action Employer.*

## POSITIONS OPEN

### DEPARTMENT OF ANATOMY DALHOUSIE UNIVERSITY HALIFAX, NOVA SCOTIA ASSOCIATE OR ASSISTANT PROFESSOR

Applications are invited from persons with M.D., D.D.S., and/or Ph.D. qualifications for the above position. Duties may include the teaching of anatomy to medical, dental, or paramedical students. Experience in teaching gross anatomy is required and a research interest in the nervous system is desirable. Salary and rank commensurate with experience. Applications, together with curriculum vitae and the names of two referees, should be addressed to **Dr. D. G. Gwyn, Head, Department of Anatomy, Dalhousie University, Halifax, Nova Scotia, Canada B3H 4H6**.

The University of California College of Medicine, Irvine, is recruiting for an **ASSISTANT RESEARCH AUDITORY PHYSIOLOGIST** to do research on auditory brainstem responses in humans. Familiarity with psychoacoustics would be helpful. Position open 1 July 1976. Send curriculum vitae and names of three references to **Arnold Starr, M.D., Professor of Neurology and Psychobiology, University of California, Irvine, 101 City Drive South, Orange, Calif. 92668**. *Applications from all qualified candidates are welcome; minorities and women are encouraged to apply.*

### OPPORTUNITIES IN CANCER RESEARCH RADIATION ONCOLOGY CENTER TUFTS-NEW ENGLAND MEDICAL CENTER

Staff and postdoctoral-level opportunities available in Radiation Biology and Radiation Physics Divisions of the Department of Therapeutic Radiology. Active ongoing programs in basic cancer biology, with emphasis on cell membrane structure and function, immunology, hyperthermia, and radiation effects on normal and malignant cells and tissues. New, modern laboratory facilities include IR and Raman spectroscopy, scanning electron microscopy, tissue culture and animal facilities, and so forth. Extensive and sophisticated computer facilities and expertise in the Department.

Active and fully equipped Radiotherapy Department furnishes access to ample clinical material for clinically related laboratory investigations.

Desire M.D. or Ph.D. with 2 to 3 years of relevant experience, preferably in radiation biology, to facilitate collaboration between research-oriented clinicians and basic scientists in areas outlined above.

**Postdoctoral fellowships** available for holders of M.D. or Ph.D. degree interested in basic or clinically related research. United States citizenship or immigrant visa.

Address inquiries, including curriculum vitae to **Dr. John E. Munzenrider, Acting Chairman; or Dr. Donald F. H. Wallach, Chief, Radiobiology Division, Department of Therapeutic Radiology, Tufts-New England Medical Center, 171 Harrison Avenue, Boston, Mass. 02111**.

### CARDIOVASCULAR PHYSIOLOGIST

University of North Carolina at Chapel Hill has positions available at the instructor level and higher for persons with demonstrated success in teaching cardiovascular physiology at the preclinical and clinical level. Only candidates with active present research involvement and at least 2 years of postdoctoral research experience will be considered. Joint involvement with a clinical department is desirable but not essential. Successful candidate must be prepared to accept immediate teaching responsibility. Send résumé to **Cardiovascular Search, Department of Physiology, University of North Carolina at Chapel Hill, School of Medicine, Chapel Hill, North Carolina 27514**. *An Equal Opportunity/Affirmative Action Employer.*

### COMPARATIVE PHYSIOLOGIST

To teach a course in comparative animal physiology, participate in introductory biochemistry, and direct student research. 1976-77 with possible 1-year reappointment. Applicants should send résumé and names of three persons whose recommendations have been requested to: **Dr. K. M. Eschenberg, Department of Biological Sciences, Mount Holyoke College, South Hadley, Mass. 01075**. *An Equal Opportunity/Affirmative Action Employer.*

## POSITIONS OPEN

### ASSISTANT PROFESSOR OF ANATOMY

Ph.D. with strong commitment to teaching. Primary responsibility: gross anatomy. Some involvement in the programs of other anatomical subdisciplines possible. Opportunities for independent or collaborative research available. For one who enjoys working with students at the professional level. For one who desires a small community/rural environment. Applicants please submit curriculum vitae, brief statement of interests, and names of three references to: **F. J. Julian, Ph.D., Professor and Chairman, Department of Anatomy, Kirksville College of Osteopathic Medicine, Kirksville, Missouri 63501**. *An Equal Opportunity/Affirmative Action Employer.*

### CHALLENGING POSITION IN BIOMEDICAL INFORMATION ANALYSIS

Scientists with a broad interest in research in clinical oncology, who have had training in the fields of cancer diagnosis, biochemistry, immunology, and/or cancer therapy are invited to apply for an integral position in a new program for Cancer Information Analysis. Interested researchers with an M.D., Ph.D., or M.S. degree should send a curriculum vitae, indicating their complete biomedical training and experience, and names of references to **Dr. E. M. McKelvey, M. D. Anderson Hospital and Tumor Institute, 6723 Bertner Drive, Houston, Texas 77030**. *An Equal Opportunity/Affirmative Action Employer.*

### Chairperson Department of Pathology School of Medicine-School of Dentistry Georgetown University Washington, D.C. 20007

The two Schools are searching for a new **chairperson**, Department of Pathology. A challenging opportunity exists for teaching approximately 820 medical and 600 dental students and for encouraging and promoting research. The School of Medicine in its 125th and the School of Dentistry in its 75th year are well established and committed to traditional, scholarly, educational, and research programs.

*The University is an Affirmative Action/Equal Opportunity Employer.* Letters from interested persons or proposals for the position should be addressed to:

**John C. Rose, M.D.  
Chairman, Search Committee  
Georgetown University School of Medicine  
3900 Reservoir Road, NW  
Washington, D.C. 20007**

### CHAIRPERSON PHYSIOLOGY and BIOPHYSICS

Applications are invited for the position of chairperson in the Department of Physiology and Biophysics, West Virginia University School of Medicine. Applicants should possess an M.D., Ph.D., or equivalent degree, have demonstrated a high level of scholarship in teaching and research as well as demonstrated leadership potential. Applications, including a complete curriculum vitae and the names of three persons to be contacted as references, should be sent by 15 May 1976 to:

**Dr. William W. Fleming  
Department of Pharmacology  
West Virginia University Medical Center  
Morgantown, West Virginia 26506**

*West Virginia University is an Affirmative Action/Equal Opportunity Employer.*

### DIRECTOR OF TOXICOLOGY

Rapidly growing division of a major pharmaceutical corporation located in the Northeast seeks a toxicologist to direct an expanding drug evaluation program.

You must have a Ph.D., minimum of 5 years of industrial experience with heavy emphasis on experimental designs and data evaluation/management, plus thorough familiarity with federal regulatory policies and requirements.

We offer an excellent starting salary and fringe benefits program, including paid relocation expenses. Submit curriculum vitae, including list of published articles, plus names and addresses of at least three references, in confidence to:

**Box 209, SCIENCE  
An Equal Opportunity Employer, M/F**

## POSITIONS OPEN

### DIRECTOR INSTITUTE OF MARINE SCIENCE UNIVERSITY OF ALASKA

The University of Alaska-Fairbanks seeks applications for the position of Director, Division of Marine Science and Institute of Marine Science. Qualifications sought are a doctoral degree or its equivalent in experience or training; leadership in interdisciplinary research management; experience in dealing with federal, state, and industrial funding sources; as well as a knowledge of general university budgetary and financial operations. Also desired is a distinguished research record in ocean or aquatic science and technology as well as experience in teaching and research direction at the graduate level. The Division has a full-time faculty of 20 and a graduate student enrollment of 35.

Applications or nominations with biographical and other pertinent information should be sent before 15 June 1976 to the chairman of the search committee:

**Dr. Frank Darnell**  
CNER  
University of Alaska  
Fairbanks, Alaska 99701

*The University of Alaska is an Equal Opportunity/Affirmative Action Employer; women and members of minority groups are encouraged to apply.*

**EPIDEMIOLOGIST.** Applications are invited from persons with strong academic orientation for a senior faculty position in the Department of Family, Community and Preventive Medicine at Stanford University. Candidates should have a record of achievement in original investigations, preferably in cancer, cardiovascular, or chronic disease epidemiology. Should be stimulating teacher of basic and advanced medical school courses, and be willing to work with persons from other medical disciplines. Send curriculum vitae and names of at least three references to: **Dr. Paul F. Basch, Chairman, Epidemiologist Search Committee, Room S-142, Stanford University School of Medicine, Stanford, Calif. 94305.** *Stanford University is an Equal Opportunity Employer and welcomes nominations of women and minority group members, and applications from them.*

**FIELD ORNITHOLOGIST** with training (Ph.D. required) and ability to teach graduate and undergraduate ornithology courses, natural history (nature study), and direct master's research. Available fall 1976, assistant professor, tenure track. Applicants should send résumés and transcripts by 15 May 1976 to **Dr. L. Koehler, Department of Biology, Central Michigan University, Mt. Pleasant, Michigan 48859.** *An Equal Opportunity/Affirmative Action Employer.*

**GEOPHYSICIST**—Assistant or associate professor in earth science geography department. Assist in the development of a petroleum technology program and expansion of undergraduate geology program. Teach courses in introductory geology, geophysics, structural geology, and geophysical techniques. Earned doctorate is desirable. Field experience in mapping, geophysical exploration techniques, and practical experience in the petroleum industry is expected. Additional training in petroleum engineering and/or marine science would be useful. Salary dependent upon qualifications; excellent fringe benefits. Send curriculum vitae, three letters of recommendation, and official transcripts to **Dr. Richard B. Hart, Dean, School of Science and Technology, California State College, California, Pa. 15419,** by 15 May 1976. *An Equal Opportunity/Affirmative Action Employer*

**HORTICULTURIST/PREPARATOR.** The University of Montana has an opening for an experienced person to operate and oversee operation of greenhouse and other plant growth facilities; must also be able to provide technical services required in botanical teaching laboratories, including preparation of demonstration material and supplies for student activities. Minimum qualifications are a bachelor's degree in botany or a related field with at least 1 year of experience. Master's degree preferred; familiarity with modern laboratory equipment desirable. Submit inquiries to: **Sherman J. Preece, Jr., Chairman, Department of Botany, University of Montana, Missoula, Montana 59801;** or to **Personnel Services, Lodge 258, University of Montana, Missoula, Montana 59801.** Deadline for applications is 21 May 1976. *Equal Opportunity Employer; women and minorities are encouraged to apply.*

23 APRIL 1976

## MICROBIOLOGIST IMMUNOLOGIST

Our expanding Immuno-diagnostic testing activities have created a research scientist opening within the Immunochemistry product development group. Successful candidate will be a Microbiologist/Immunologist with minimum 3 years post-Doctorate or equivalent, preferably with broad culture experience, fluorescent antibody techniques and clinical laboratory background. Excellent professional compensation and fringe benefit packages.

Please write, in confidence, with detailed resume of qualifications and training to **D. F. Barber.**

## DADE

Division American Hospital  
Supply Corporation  
P.O. Box 520672 Miami, FL 33152

An Equal Opportunity Employer M/F

## HUNTER COLLEGE CITY UNIVERSITY OF NEW YORK GRADUATE STUDIES IN BIOLOGY AND BIOCHEMISTRY

Applications are invited for admissions into M.A. and Ph.D. programs. Faculty with wide research interests in Cell Biology, Biophysics, Genetics, Molecular Biology and Plant and Animal Physiology. Excellent facilities at a stimulating mid-Manhattan location.

Students are supported by Institutional instructional funds and can expect to be well trained teachers at the conclusion of their doctoral studies. Teaching fellowships and tuition waivers totalling \$4500 are available to all beginning students but some may qualify for graduate fellow awards carrying a \$6500/annum salary. Required courses offered in evening hours for the convenience of students who may wish to commence graduate work on a part time basis.

For applications or further information, please contact:

**Dr. Eugene S. Handler, Graduate Advisor, Department of Biological Sciences, Hunter College, C.U.N.Y., 695 Park Avenue, New York, N.Y. 10021 U.S.A. Telephone no. area code 212-360-5561.**



## Department Head

### (Chemical Engineering Research)

The Marshall Division of Miles Laboratories, Inc., a recognized leader of industrial enzymes and food ingredients provides an excellent opportunity in the R & D laboratory for a Biochemical or Chemical Engineer.

The candidate should have a Ph.D. in Biochemical or Chemical Engineering plus 5-10 years of industrial experience with supervision included. The position requires an ability to direct engineering service functions, coordination and management of projects which would include theoretical processing, engineering analysis, scale-up, analysis of plant operations and the preparation of complete processes for plant engineering. The appropriate candidate will be responsible for leading a group of scientists involved in chemical engineering research and pilot services.

Located in Elkhart, Indiana, a community of 50,000 population, we offer excellent recreational and educational activities, as well as convenient accessibility to the Chicago area. Excellent starting salary commensurate with experience. Relocation expenses paid by the company. Please send complete resume, in confidence, to:

**Curtis A. Brown**  
Senior Placement Representative, Dept. 806  
**MILES LABORATORIES, INC.**

Elkhart, Indiana 46514  
An Equal Opportunity Employer M/F



## POSITIONS OPEN

**IMMUNOCHEMIST.** Ph.D. to join clinicians, immunochemists, and pathologists interested in applied and original research leading to identification of and/or development of assays for new as well as established human tumor markers (CEA and AFP). Experience in tumor antigen isolation and characterization and/or radioimmunoassays desired. Submit curriculum vitae, bibliography, statement of research interests, and three references to **N. Zameck, M.D., Gastroenterology Research Laboratory, Mallory Institute of Pathology, Boston City Hospital, 784 Massachusetts Avenue, Boston, Mass. 02118.**

*An Equal Opportunity Employer*

## NONTENURED INSTRUCTOR POSITION OPEN

Instructor in Zoology, primary duties: supervision and coordination of laboratory preparation for multi-section courses in general biology; lecture, one section. M.S./M.A. in zoology or biology minimal; experience desirable, 12-month appointment; approximately \$10,000. Application deadline: 1 May 1976. Send curriculum vitae and three letters of recommendation to: **Dr. Raj V. Kilambi, Chairman, Search Committee, Department of Zoology, University of Arkansas, Fayetteville, Arkansas 72701.**

*The University of Arkansas is an Affirmative Action/Equal Opportunity Employer.*

## INTERNIST. FACULTY POSITION UNIVERSITY OF CALIFORNIA CHIEF— INTERNAL MEDICINE TEACHING PROGRAM VETERANS ADMINISTRATION HOSPITAL FRESNO, CALIFORNIA

The University of California, San Francisco School of Medicine, is searching for a faculty member to organize and direct a new Internal Medicine Teaching Program for medical students, house staff, and associated health professionals at the VA Hospital in Fresno, California. The Medical School is developing a major clinical branch in Fresno with substantial grant support from the VA; the VA Hospital will be an important site of instruction. The program emphasizes training in primary care fields.

The individual sought should have Board certification in internal medicine and a broad background of clinical teaching experience.

*The University of California is an Equal Opportunity Employer with an Affirmative Action faculty recruitment program.*

Please send curriculum vitae or inquiries for further information to:

**Marvin H. Slesinger, M.D.,  
Chairman, Search Committee  
Dean's Office, S-224  
School of Medicine  
University of California  
San Francisco, Calif. 94143**

A full-time Ph.D. **NEUROCHEMIST** is being sought for the position of assistant research neurologist in the Reed Neurological Research Center, UCLA School of Medicine. Applicant needs demonstrated ability with heavy metal toxicology, radiochemical techniques in brain slices, and chemical fractions, lipid chemistry, and enzymology. Applicants should submit a curriculum vitae and reprints to **Pieter Kark, M.D., Assistant Professor of Neurology, Reed Neurological Research Center, University of California School of Medicine, Los Angeles, California 90024.** *UCLA is an Equal Opportunity/Affirmative Action Employer and is desirous of receiving applications from minority and women candidates as well as from other qualified people.*

Radiation Chemistry Data Center, jointly sponsored by ERDA and the NBS Office of Standard Reference Data, requires a Ph.D. **PHYSICAL CHEMIST** with background in kinetics and/or spectroscopy for data compilation and information storage and retrieval activities. The position provides an opportunity to develop a career in computerized information and data handling. Appointment will be made to the Special Professional Faculty of the University of Notre Dame. Send résumé to: **Dr. Alberta B. Ross, Supervisor, Radiation Chemistry Data Center, Radiation Laboratory, University of Notre Dame, Notre Dame, Indiana 46556.**

*An Equal Opportunity/Affirmative Action Employer*

## POSITIONS OPEN

### **PATHOLOGIST**

Board-certified (AP) individual for medical school faculty position with major responsibility in diagnostic pathology. Position also involves house staff and medical student training. Candidate should exhibit evidence of scholarly interests, activities, and skills. Rank and salary depend upon background and qualifications. References required. Contact **P. A. Ward, M.D., Department of Pathology, University of Connecticut Health Center, Farmington, Conn. 06032.** *An Equal Opportunity Employer, M/F.*

**PHYSIOLOGICAL PSYCHOLOGIST/PSYCHIATRIST**—A Ph.D. or M.D. investigator at the assistant professor level trained in neurobiology and behavioral methodology to participate in ongoing research on controls of food intake patterns in laboratory animals and man. Expertise in application of sensitive computerized techniques for meal pattern analysis is desired. A record of accomplishment in the field of ingestive behavior with evidence of independent productivity a prerequisite. Please send curriculum vitae to: **Box 210, SCIENCE.**

*An Equal Opportunity Employer, M/F*

## POSTDOCTORAL AND FACULTY POSITIONS EXPERIMENTAL AND CLINICAL IMMUNOLOGY RUSH MEDICAL COLLEGE

The Department of Immunology of Rush Medical College is offering positions to individuals interested in humoral and cellular aspects of the immune response during inflammation and disease, and in clinical immunology.

Problems currently under investigation include the immunobiology of the complement system and acute phase reactants, particularly C-reactive protein; humoral and cellular responses in the acute phase of inflammation; immunological injury in infectious, rheumatoid, and renal diseases; and tumor immunology.

Appointments will be made at the level of instructor or assistant professor, depending upon experience.

For further information write **Henry Gewurz, Chairman, Department of Immunology, Rush Medical College, 1753 West Congress Parkway, Chicago, Illinois 60612.**

*Rush-Presbyterian-St. Luke's Medical Center has a continuing program of Affirmative Action in the area of Equal Employment Opportunity.*

**POSTDOCTORAL POSITIONS.** Mammalian transfer RNA's and synthetases (available June 1976, reply by 14 May to **C. Hedgcoth**); regulation of mammalian pyruvate dehydrogenase complexes (available September 1976, reply by 15 July to **T. E. Roche**); nonhistone chromatin proteins (available August 1976, reply by 14 May to **G. R. Reeck**), **Department of Biochemistry, Kansas State University, Manhattan, Kansas 66506.** *The University is an Equal Opportunity/Affirmative Action Employer.*

### **POSTDOCTORAL POSITION**

Immediate opening for recent Ph.D. chemist or biochemist to study quantitative aspects of affinity chromatography under 3-year NIH grant. Send résumé of experience and references to: **Dr. Ben Dunn, Department of Biochemistry and Molecular Biology, Box J-245, J. Hillis Miller Health Center, Gainesville, Florida 32610.**

**POSTDOCTORAL RESEARCH ASSOCIATE,** biochemist-immunologist. Requires Ph.D. and expertise in structure of cytochrome c; to develop program on cytochrome as a probe for studies on immunoregulation. Experience in immunological techniques necessary. Apply to: **Dr. J. M. Chiller, National Jewish Hospital, Denver, Colorado 80206.** *An Equal Opportunity/Affirmative Action Employer.*

## POSITIONS OPEN

**POSTDOCTORAL FELLOW—RESEARCH ASSOCIATE** (Ph.D., M.D., or equivalent). A qualified applicant for a traineeship in molecular approaches to chemical carcinogenesis and DNA repair is being sought for late summer 1976. Background in molecular biology and cell culture work is desirable but is not required. Salary commensurate with training and experience. Send curriculum vitae and bibliography to: **Michael W. Lieberman, M.D., Ph.D., Department of Pathology, Washington University School of Medicine, St. Louis, Missouri 63110.** *An Equal Opportunity/Affirmative Action Employer.*

Applications are invited from recent Ph.D.'s in biology for starting **POSTDOCTORAL STUDIES IN GENETICS OR CELL BIOLOGY.** Submit curriculum vitae, undergraduate and graduate transcripts, brief statement of research interests, and three letters of reference to **Frederick Forro, Jr., Head, Department of Genetics and Cell Biology, 250 BioScience Center, University of Minnesota, St. Paul, Minnesota 55108.** *An Equal Opportunity Employer; applications from women and minority persons encouraged.*

## PRE- AND POSTDOCTORAL POSITIONS IN PULMONARY RESEARCH

Pre- and postdoctoral positions available in our Pulmonary Training Program. Ph.D. program consists of 2 years of fundamental course work and 2 to 3 years of lung-related research. Postdoctoral trainees (M.D., Ph.D., or equivalent) are accepted for a minimum of 2 years. Send inquiries to: **Dr. Carl Franzblau, Department of Biochemistry, Boston University School of Medicine, 80 East Concord Street, Boston, Mass. 02118.**

The Florida Solar Energy Center is an institution established as a result of action initiated by the Florida state government. The Center, operated under the State University System of Florida, currently has need for **RESEARCH ASSOCIATES** disciplined to perform technical assessments of solar energy conversion systems and proposed solar technology and with a capability in engineering economics applicable to such systems. Individuals should have a facility with mathematics, an ability to formulate methodology for assessing and evaluating conceptual designs for proposed systems, and a capability for identifying barriers to implementation of proposed technology. Salary level is negotiable depending on individual capability. Send curriculum vitae and references to:

**W. J. Austin, Associate Director  
Florida Solar Energy Center  
300 State Road 401  
Cape Canaveral, Florida 32920**

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Applications are invited for the position of **RESEARCH SPECIALIST** beginning 30 August 1976. Preference will be given to Ph.D. or equivalent applicants possessing research experience with indicator organisms and effects of heavy metals and organic pollutants on aquatic communities. Additional duties may include teaching in public health-related sciences.

Please send complete curriculum vitae and three reference letters to: **Dr. A. B. Dickas, Center for Lake Superior Environmental Studies, University of Wisconsin, Superior, Wisconsin 54880.** *An Affirmative Action/Equal Opportunity Employer.*

**RESPIRATORY PHYSIOLOGY.** Under a National Research Service Award, a few postdoctoral fellowships in advanced respiratory mechanics and in lung clearance mechanisms are offered by Drs. Jere Mead, Joseph Brain, and associates. Excellent background in mathematics, physics, engineering, physiology, and/or medicine is essential. Training, experience, and commitment to academic research in basic or applied respiratory physiology are desirable. Eligibility for stipend limited to U.S. citizens. Inquiries to: **Dr. Jere Mead, Department of Physiology, Harvard School of Public Health, 665 Huntington Avenue, Boston, Mass. 02115.** *An Equal Opportunity Employer.*

## GASTRO— INTESTINAL PHARMACOLOGIST

Searle Laboratories, the pharmaceutical division of G. D. Searle & Co. located in a northern suburb of Chicago, has a position immediately available for a GI Pharmacologist.

We're looking for an aggressive innovative PhD in biochemical pharmacology to plan, develop, and implement independent research in the area of gastrointestinal pharmacology with the aim of developing useful therapeutic agents for the treatment of digestive disorders. At least 2 years post doctoral experience in biochemical pharmacology as related to the GI tract is necessary. Publications in this area would be an asset.

If you want the challenge of becoming part of a highly professional research environment where independence and creative thinking are encouraged, please send your curriculum vitae, complete with availability date and salary requirements to:

Carol L. Bernacchi  
Employment Counselor

**SEARLE**

**G. D. Searle & Co.**

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## PhD-Biochemist Nutrition Area

General Foods Technical Center has an opportunity for a PhD-Biochemist with 0-5 years research experience. Additional knowledge/experience in nutrition and physiology desirable. Strong interest in food related satiety or metabolic interrelationships of energy producing nutrients required.

The successful candidate will be designing experiments and conducting bench research while maintaining a working relationship with other functions. Strong written and oral communication skills required.

The General Foods Technical Center provides excellent laboratory facilities, a thoroughly professional environment and potential for full career development. Our location in suburban Westchester County offers choice of urban or suburban living in an attractive area just north of New York City.

Please send resume with salary history and requirements to:

Personnel Associate,



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CORPORATION**

555 So. Broadway  
Tarrytown, NY 10591  
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## BIOCHEMIST PhD

### CLINICAL RESEARCH

Challenging growth-oriented position in the General Diagnostics Research & Development Department of the Warner-Lambert Research Institute requires a PhD in Clinical Chemistry or Biochemistry with one to 2 years experience in monitoring clinical trials. Assignments span design, implementation and maintenance of clinical studies for new diagnostic reagents.

We offer fully commensurate compensation and benefits. Please forward your curriculum vitae to: R. F. Benthien,

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division of



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## RU leiden

The UNIVERSITY of LEIDEN, on behalf of the DEPARTMENT of CHEMISTRY, invites applications for the position of

### LECTOR\* in BIOCHEMISTRY

Preference is for a biochemist with physical-chemical interests and experience, or for a biophysical chemist.

The appointee will be expected to use a physical chemical approach to carry out his task within the scope of the research projects of the department of Biochemistry. These projects include i.a. the study of the mechanism of protein biosynthesis and the structure and replication of viruses.

Salary commensurate with experience and age, max. hfl. 96950 p.a.

Applications, including curriculum vitae, full details of qualifications and experience, etc. should be addressed within eight weeks of this publication to: Dr. A. B. Ruigrok, Gorlaeus Laboratories, P.O. Box 75, Leiden, the Netherlands. (vac. nbr. 76.134).

\* Dutch equivalent of reader or associate professor.



## POSITIONS OPEN

**POSTDOCTORAL POSITIONS** available in the following areas: cell culture (especially mammary epithelium); molecular virology including molecular hybridization, immunology, or immunochemistry (immune electron microscopy, embryonic antigen); tumor endocrinology; and somatic cell genetics. Positions available under Institutional National Research Service Award beginning July through September 1976. Stipends \$10,000 to \$13,200 depending on experience and qualifications. Send curriculum vitae and names of three references to **Dr. S. Nandi, Cancer Research Laboratory, 230 Warren Hall, University of California, Berkeley, California 94720. An Equal Opportunity/Affirmative Action Employer.**

### PROFESSOR OF CLINICAL ONCOLOGY AND CO-DIRECTOR OF CANCER CENTER

A major, regional, university-based cancer center is seeking candidates for an American Cancer Society Professorship of Clinical Oncology in the University. Candidates must have outstanding, nationally recognized accomplishments, extensive experience, and commitment to the cancer problem. Spheres of activity include cancer patient management supervision, cancer education program direction, and cancer center administration. Apply with curriculum vitae to **Condit Moore, M.D., Cancer Center, University of Louisville, Louisville, Kentucky 40201.**

### CSIRO DIVISION OF LAND RESOURCES MANAGEMENT PERTH, WESTERN AUSTRALIA RESEARCH SCIENTISTS (THREE POSITIONS)

CSIRO has a broad charter for research into primary and secondary industry areas. The Organization has approximately 7000 employees—2200 of whom are research and professional scientists—located in Divisions and Sections throughout Australia.

**Fields:** 1) **SOCIAL PSYCHOLOGY**  
2) **SOCIAL ECONOMICS**  
3) **APPLIED SYSTEMS ANALYSIS/OPERATIONS RESEARCH**

**General:** The Division of Land Resources Management is concerned with developing and applying methods for the wise use of land resources to maintain or improve the quality of life in Australian society. The Division is multidisciplinary with, at present, a wide range of disciplines in the physical and biological sciences. It is now expanding the range of disciplines to cover the socioeconomic aspects of resource planning and management.

1) **REF: PG284/54—SOCIAL PSYCHOLOGIST**  
**Duties:** To study and quantify the social requirements and behavioral aspects of human communities relevant to land resource planning and management in near-urban and rural areas.

2) **REF: PG284/55—SOCIAL ECONOMIST**  
**Duties:** To develop quantitative methods for evaluating nonmonetary factors (such as recreation, conservation, pollution) relevant to resource planning and management.

3) **REF: PG284/56—APPLIED SYSTEMS ANALYST/OPERATIONS RESEARCH**  
**Duties:** To develop mathematical methods for modeling land and water resource systems and for optimizing social benefits by wise management, taking account of multiple uses and multiple products of land.

**Qualifications:** Ph.D. or equivalent in control theory or systems analysis and demonstrable research ability.

**Salary:** Research scientist or senior research scientist: A\$12,833 to A\$19,004 per annum. Outstanding applicants may be considered for appointment as principal research scientist: A\$19,748 to A\$22,506 per annum.

**Tenure:** An indefinite or fixed-term appointment.

Applications, stating full personal and professional details, including the names of at least two references and quoting the appropriate reference number, should reach

**The Chief  
CSIRO Division of Land Resources Management  
Private Bag, P.O.  
Wembley, Western Australia 6014**

by 10 May 1976.

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## POSITIONS OPEN

### POSTDOCTORAL BIOCHEMIST

To collaborate with Harvard and MIT physicists and biologists in the exploratory application of a new technique based on immobilized enzymes combined with mass spectrometry. Skills required include the ability to immobilize and assay enzymes and to communicate with workers in relevant disciplines. Send curriculum vitae and three letters of reference to **Dr. James C. Weaver, Room 26-461, Physics Department, Massachusetts Institute of Technology, Cambridge, Mass. 02139.**

**RESEARCH FELLOW—CARDIAC ELECTROPHYSIOLOGY.** Position available 1 July 1976 for a recent M.D. or Ph.D. (physiology or pharmacology) to conduct animal experiments. Experience in electrophysiology research desirable. Send curriculum vitae and two references to: **Jaok Han, M.D., Professor of Medicine, Albany Medical College, Albany, N.Y. 12208.**

## CORNING

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### SENIOR MICROBIOLOGIST

Ph.D. for basic research in fermentation and general microbiology with 3 to 5 years of experience in industrial fermentations and knowledge of mycology. Position involves aid in continuing fermentation research and application of microbiology toward new products. Position will be primarily benchwork with supervision of one technician.

Reply to:

**Gordon R. McPherson  
Personnel Manager  
Technical Staffs Division  
Corning Glass Works  
Corning, New York 14830**

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### SUPERVISOR SEM MICROSCOPE LABORATORY

The University of Chicago has a User's Laboratory for electron microscopy containing two very high performance secondary emission microscopes, a Hitachi HFS 2 and a Coates/Welter 50-4. Both microscopes use field emission sources and are capable of very high resolution. These microscopes are made available to a wide variety of users both inside and outside the University. A supervisor is needed to run this laboratory. This supervisor would have the assistance of a full-time engineer and a part-time secretary. The duties of the supervisor would be to make sure that the microscopes are kept in good working order and to assist users in their work.

This position is suitable as a postdoctoral appointment since there is a considerable amount of time available on these microscopes for personal research. Collaborative research with faculty members is possible. The position is available 1 May 1976.

Experience with SEM's would be highly desirable and preferably some experience with electronics. Training will be given in the particular problems associated with the use of field emission sources. Salary is commensurate with experience.

Those interested should contact **Albert V. Crewe, 5640 Ellis Avenue, Chicago, Ill. 60637. An Equal Opportunity Employer.**

**TEACHING EQUIPMENT:** Leading publicly held company in the field of science teaching equipment has opening for individual to develop and maintain a line of environmental science teaching equipment for college and university level. Individual will also be responsible for applications and sales literature and technical support to sales group. Send résumé in complete confidence to:

**Box 182, SCIENCE**

## POSITIONS OPEN

**RESEARCH ASSOCIATE:** Applications are invited for a postdoctoral position available immediately in work on hemostasis and thrombosis. Areas of investigation include (i) protein purification, (ii) enzyme kinetics, (iii) immunochemistry with specific application to clinical investigation, and (iv) cell membrane protein interaction. Submit résumé to: **Monica Perrin, Department of Medicine, College of Physicians and Surgeons, 630 West 168 Street, New York, New York 10032. Columbia University is an Equal Opportunity/Affirmative Action Employer.**

## FELLOWSHIPS

**POSTDOCTORAL FELLOWSHIP:** Position available starting any time from 1 July to 1 October for Ph.D. to conduct research on esterase activity of human neurophils in relation to their chemotactic activity and other functions. Applications are invited from individuals with a background in cell biochemistry and/or protein chemistry. Stipend is \$10,000. Send résumé and three letters of reference to: **Dr. Elmer L. Becker, Department of Pathology, University of Connecticut Health Center, Farmington, Conn. 06032. An Equal Opportunity Employer, M/F.**

**POSTDOCTORAL FELLOWSHIP, SPACE PHYSICS:** To study magnetic field merging and related problems. One-year tenure, starting fall 1976. Send résumé before 17 May to **Professor B. Sonnerup, Dartmouth College, Hanover, N.H. 03755. An Equal Opportunity/Affirmative Action Employer.**

**POSTDOCTORAL FELLOWSHIPS IN EXPERIMENTAL PATHOLOGY.** Applications from persons holding advanced degrees (M.D., D.V.M., D.D.S., or Ph.D.) are invited for a small number of fellowships. Areas of research training span a wide range with a general emphasis on cellular pathology and include aging, amyloidosis, atherosclerosis, cell injury, cytogenetics, hypertension, immunopathology, inflammation, oncology, as well as specific organ pathology. Potential applicants should write to **Dr. David Lagunoff, Department of Pathology, SM-30, University of Washington, Seattle, Washington 98195. Affirmative Action/Equal Opportunity University.**

**STUDENT FELLOWSHIPS** available for U.S. citizens toward Ph.D. in pharmacology. Diversified training related to the pharmacological and biochemical basis for drug action with emphasis on cancer therapeutics: inhibition of nucleic acid, protein and membrane components, enzyme activity regulation, coenzyme action and inhibition, basis for selective toxicity, pharmacokinetics and drug metabolism in animals and cells, immunotherapy, immunosuppression, experimental chemotherapy, molecular pharmacology, endocrine pharmacology and metabolic regulators, hematology, preclinical and clinical pharmacology. Stipends are \$3900 per annum. Write to **E. Mihich, M.D., Chairman, Graduate Pharmacology Program, Roswell Park Memorial Institute, Buffalo, N.Y. 14263.**

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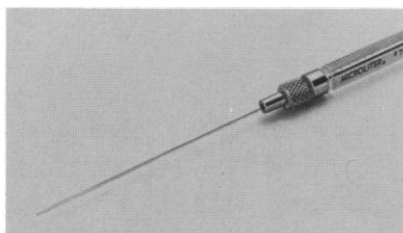
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#7001, 1.0  $\mu$ l syringe

It's hard to imagine, when you look at this syringe, that it's not a normal syringe. Your sample never reaches the glass barrel. The barrel is used simply as a volume indicator.

## It's all in the needle

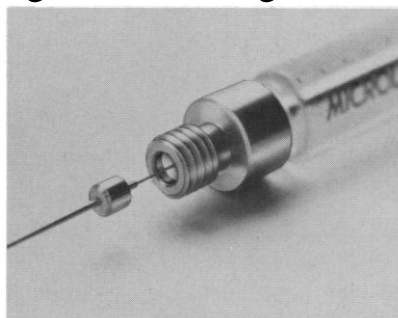
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You can use Hamilton's plunger guide or Chaney Adaptor to make

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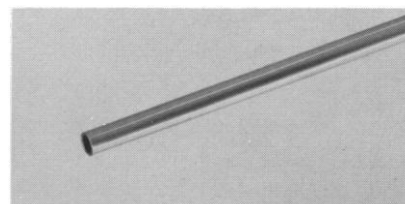


There's a Teflon seal in the hub that can be finger tightened to compensate for wear and to prevent leakage. You simply tighten the knurled hub to make the adjustment for a leak-tight seal.

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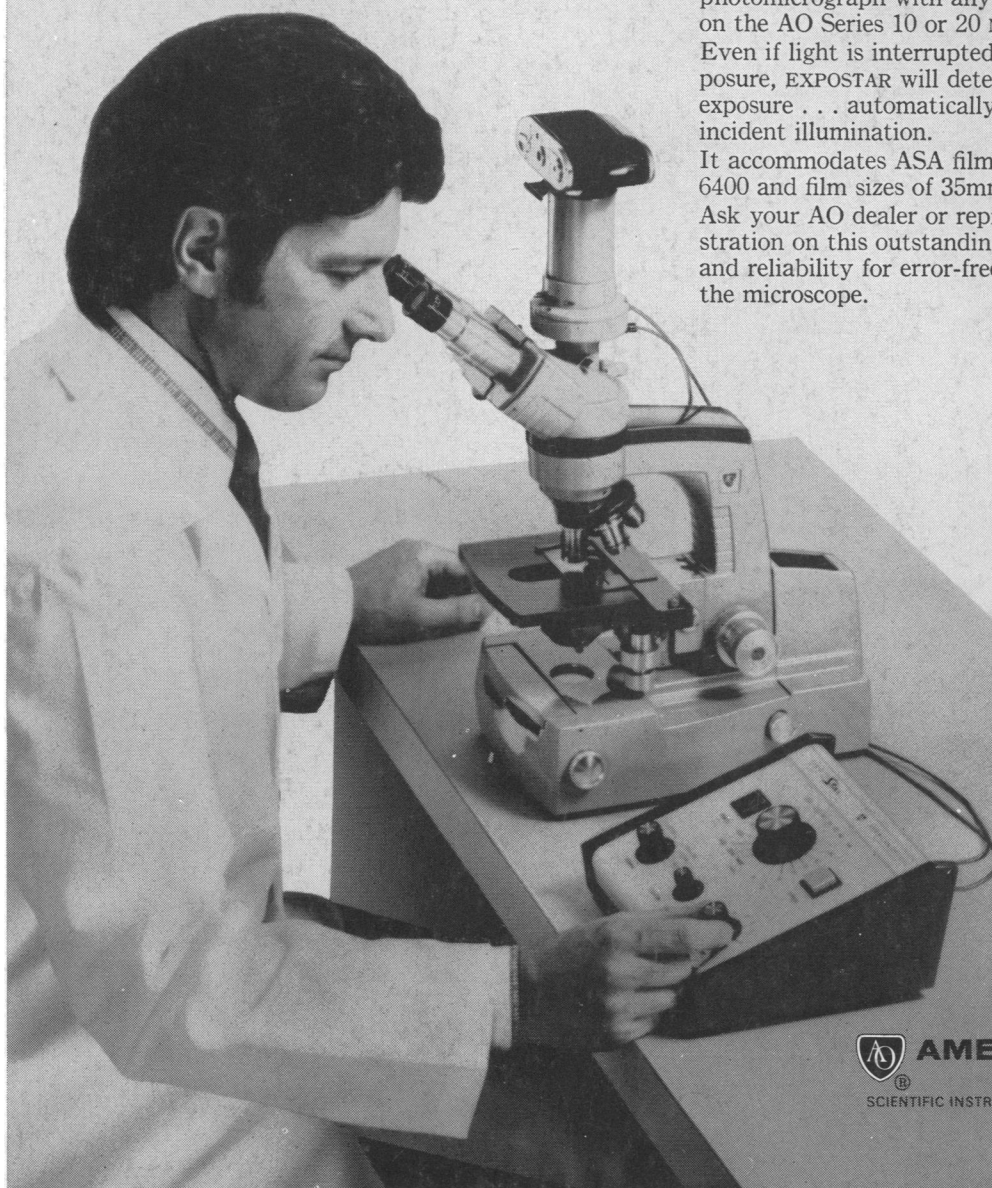
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