

**Medical Physics.** Vol. 1, Physiological Physics, External Probes. A. C. Damask. Academic Press, New York, 1978. xvi, 374 pp., illus. \$26.

**The Messier Album.** John H. Mallas and Evered Kreimer. Sky Publishing Corporation, Cambridge, Mass., 1978. viii, 216 pp., illus. + plates. \$9.50.

**Methodological Approaches to Deriving Environmental and Occupational Health Standards.** Edward J. Calabrese. Wiley-Interscience, New York, 1978. xiv, 402 pp. \$33.25. Environmental Science and Technology.

**MHD Instabilities.** Glenn Bateman. MIT Press, Cambridge, Mass., 1978. xii, 264 pp., illus. \$22.50.

**Microcomputer Design.** Carol Anne Ogdin. Prentice-Hall, Englewood Cliffs, N.J., 1978. xiv, 190 pp., illus. Cloth, \$12.95; paper, \$8.95.

**The Microprocessor and Its Application.** An Advanced Course. D. Aspinall, Ed. Cambridge University Press, New York, 1978. xviii, 384 pp., illus. \$29.50.

**Mind in the Heart of Darkness.** Value and Self-Identity among the Tswana of Southern Africa. Hoyt Alverson. Yale University Press, New Haven, Conn., 1978. xiv, 300 pp. + plates. \$16.

**Minority Quotas in Law and Medicine.** George H. Jaffin. Published by the author, 2949 Terrace Drive, Chevy Chase, Md., 1977. iv, 138 pp. Paper, \$14.

**Modern Approaches to the Taxonomy of Red and Brown Algae.** Proceedings of a symposium, London. D. E. G. Irvine and J. H. Price, Eds. Published for the Systematics Association by Academic Press, New York, 1978. xii, 486 pp., illus. \$54.25. The Systematics Association Special Volume No. 10.

**Modern Molecular Photochemistry.** Nicholas J. Turro. Benjamin/Cummings, Menlo Park, Calif., 1978. xii, 628 pp., illus. \$23.95.

**Modern Political Economy.** Bruno S. Frey. Halsted (Wiley), New York, 1978. viii, 166 pp., illus. \$14.95.

**Molecular and Crystal Structure Models.** Ann Walton. Horwood, Chichester, England, and Halsted (Wiley), New York, 1978. 202 pp., illus. \$22.50.

**Molecular Basis of Biological Degradative Processes.** Proceedings of a symposium, Farmington, Conn., May 1977. Richard D. Berlin, Heinz Herrmann, Irwin H. Lepow, and Jason M. Tanzer, Eds. Academic Press, New York, 1978. xii, 332 pp., illus. \$17.

**Ordinary Differential Equations.** Garrett Birkhoff and Gian-Carlo Rota. Wiley, New York, ed. 3, 1978. xiv, 342 pp., illus. \$18.95.

**Perspectives on Health Promotion and Disease Prevention in the United States.** Elena O. Nightingale, Mary Cureton, Vicki Kalmar, and Michelle B. Trudeau. Institute of Medicine, National Academy of Sciences, Washington, D.C., 1978. xvi, 244 pp. Paper, Institute of Medicine Staff Paper.

**Phase Diagrams.** Materials Science and Technology. Vol. 5, Crystal Chemistry, Stoichiometry, Spinodal Decomposition, Properties of Inorganic Phases. Allen M. Alper, Ed. Academic Press, New York, 1978. xviii, 330 pp., illus. \$35. Refractory Materials, vol. 6.

**Phencyclidine (PCP) Abuse.** An Appraisal. Papers from a conference, Pacific Grove, Calif., Feb. 1978. Robert C. Petersen and Richard C. Stillman, Eds. National Institute on Drug Abuse, Rockville, Md., 1978 (available from National Clearinghouse for Drug Abuse Information, Rockville, Md.). viii, 314 pp., illus. Paper. NIDA Research Monograph 21.

**Photographic Anatomy of the Human Body.**

Chihiro Yokochi and Johannes W. Rohen. University Park Press, Baltimore, and Igaku-Shoin, Tokyo, ed. 2, 1978. viii, 102 pp. \$19.50.

**Physical Methods in Modern Chemical Analysis.** Vol. 1. Theodore Kuwana, Ed. Academic Press, New York, 1978. x, 320 pp., illus. \$33.

**Physical Modalities in Dermatologic Therapy.** Radiotherapy, Electrosurgery, Phototherapy, Cryosurgery. Herbert Goldschmidt, Ed. Springer-Verlag, New York, 1978. xvi, 290 pp., illus. \$39.80.

**Physiological and Pathological Aspects of Prolactin Secretion.** Vol. 1, 1977. Steven W. J. Lamberts and Robert M. MacLeod. Eden Press, St. Albans, Vt., 1978. viii, 150 pp. \$16. Annual Research Reviews.

**Physiology of Membrane Disorders.** Thomas E. Andreoli, Joseph F. Hoffman, and Darrell D. Fanestil, Eds. Plenum, New York, 1978. xxvi, 1122 pp., illus. \$75.

**Recent Advances in the Pharmacology of Adrenoceptors.** Proceedings of a symposium, Manchester, England, July 1978. E. Szabadi, C. M. Bradshaw, and P. Bevan, Eds. Elsevier/North-Holland, New York, 1978. xiv, 404 pp., illus. \$52.

**Recent Developments in Aerosol Science.** Papers from a symposium, Atlantic City, N.J., Aug. 1976. David T. Shaw, Ed. Wiley-Interscience, New York, 1978. xvi, 328 pp., illus. \$24.50.

**Recent Progress in Hormone research.** Vol. 34. Proceedings of a conference, Mont Tremblant, Quebec, Aug. 1977. Roy O. Greep, Ed. Academic Press, New York, 1978. x, 572 pp., illus. \$42.

**Sociobiology and Human Nature.** Papers from a symposium, San Francisco, June 1977. Michael S. Gregory, Anita Silvers, and Diane Sutch, Eds. Jossey-Bass, San Francisco, 1978. xxii, 326 pp. \$14.95. The Jossey-Bass Social and Behavioral Science Series.

**Soil Sampling and Soil Description.** J. M. Hodgson. Clarendon (Oxford University Press), New York, 1978. x, 242 pp., illus. \$26.

**Special Relativity.** The Foundations of Macroscopic Physics. W. G. Dixon, Cambridge University Press, New York, 1978. x, 262 pp. \$34.50.

**Spectral Theory of Linear Operators.** H. R. Dowson. Academic Press, New York, 1978. xii, 422 pp. \$39. L. M. S. Monographs, No. 12.

**Statistical Analysis in Geology.** John M. Cubitt and Stephen Henley, Eds. Dowden, Hutchinson and Ross, Stroudsburg, Pa., 1978 (distributor, Academic Press, New York). xviii, 342 pp., illus. \$29.50. Benchmark Papers in Geology, vol. 37.

**A Stratigraphical Index of British Ostracoda.** Raymond H. Bate and Eric Robinson, Eds. Seel House Press, Liverpool, 1978. xiv, 538 pp., illus. £40. *Geological Journal* Special Issues, No. 8.

**Streptococci.** Papers from a symposium, Manchester, England, July 1977. F. A. Skinner and L. B. Quesnel, Eds. Academic Press, New York, 1978. xiv, 416 pp. \$37.25. The Society for Applied Bacteriology Symposium Series No. 7.

**Viaje a China.** Arturo Gomez-Pompa. Instituto de Investigaciones sobre Recursos Bióticos, Xalapa, Veracruz, Mexico, 1978. iv, 164 pp. + plates. Paper, Mex\$125.

**Vitamin and Carrier Functions of Polyphenols.** Papers from a symposium, Bangalore, India, Dec. 1976. H. R. Cama and P. S. Sastry, Eds. Karger, New York, 1978. xiv, 246 pp., illus. \$90. World Review of Nutrition and Dietetics, vol. 31.

# Personnel Placement

SCIENCE publishes each Friday, except the last Friday of the year. Advertising closing for a particular Friday issue is Wednesday, 3 1/2 weeks before. Advertising is accepted only in writing; no abbreviations. Also, personnel advertising is accepted only with the understanding that the advertiser does not discriminate among applicants on the basis of race, sex, religion, age, color, national origin, or handicap.

**POSITIONS WANTED:** 40¢ per word, plus \$4 for use of box number, per insertion. \$10 minimum, per insertion. Prepayment required. This rate is available only to individuals seeking jobs.

**DISPLAY (POSITIONS OPEN, COURSES, FELLOWSHIPS, MARKET PLACE, and so forth):** \$6.40 per millimeter; \$160 minimum, per insertion (minimum charge covers 25 millimeters on a single column; 25 millimeters equals 10 lines of 50 spaces per line). No charge for use of box number. No agency commission for ads less than 103 millimeters (4 inches). No cash discount. Prepayment required for all foreign ads. Purchase orders and billing information required for all other advertising.

Send copy for all **Positions Wanted** ads and **Display** ads less than 1/6 page in size (125 millimeters) to:

SCIENCE, Room 207  
1515 Massachusetts Ave., NW  
Washington, D.C. 20005  
Telephone: 202-467-4456

Send copy for **Display** ads 1/6 page and larger to:

Scherago Associates, Inc.  
1515 Broadway  
New York, N.Y. 10036  
Telephone: 212-730-1050

Blind ad replies should be addressed as follows:

Box (give number)  
SCIENCE  
1515 Massachusetts Ave., NW  
Washington, D.C. 20005

## POSITIONS WANTED

**Biochemist/Plant Physiologist** Ph.D., 29 years of experience in conducting and guiding research in physiology of cotton and linseed. More than 50 international publications. Presently heads research institute in India. Seeks research, teaching position. Box 200 SCIENCE. 7/13,20,27

**Cell Biologist**, Ph.D. tree tissue culture. Teaches botany, cell biology, dendrology, ecology, genetics, tissue culture, and advises all levels of student research. Supervisory laboratory head for 15 years; 43 publications. Winton, 901 South Christine, Appleton, Wisconsin 54911. X

**Cytogeneticist.** Ph.D., 18 years of experience in human cytogenetics. Extensive medical school research, administrative, teaching, and service experience. Has developed and directed a human cytogenetics service which processes 1,000 amniotic fluid, blood, bone marrow, tissue culture, and other specimens per year. Seeking senior level position in industry, government, or hospital, to develop or direct a human cytogenetics service and/or research facility. United States or abroad. Box 206, SCIENCE 7/13,20,27

**Field Biologist/Ecologist.** Ph.D. Experience in insect-plant interactions, pollination, insect/plant taxonomy. Six years of teaching at major university. Seeking field research, teaching/curatorial position. Résumé/publication list on request. A. Moldenke, 811 Columbia Street, Santa Cruz, California 95060. X

**Medical Microbiologist/Immunologist.** Ph.D. 1979; B.S. zoology. Seeks postdoctoral or faculty position. Host-parasite interaction. Cellular and humoral passive immunoprotection. Microbial virulence enhancement. Immunizing agents. Box 207, SCIENCE. X

**Zoologist:** Ph.D. expected December 1979. Fields of expertise: animal behavior, invertebrate zoology, general biology, statistics, analog and digital electronics (including microcomputer design, interfacing, and programming). Publications; teaching experience. Desires teaching/research or teaching position. Available immediately. Box 209, SCIENCE. X

## POSITIONS WANTED

**Russian Translations**, written and oral. Physiologist; recent M.A. with research and translation experience. Box 208, SCIENCE. X

## POSITIONS OPEN

**ADJUNCT ASSISTANT PROFESSOR**—Combination of expertise in mammalian cardiac physiology and membrane biochemistry. Experience in isotopic techniques is also desirable. Strong background in excitation-contraction coupling processes and in the preparation of and experimentation with isolated membrane systems is desirable.

Applicants should submit curriculum vitae with a list of publications and names of references to:

**Dr. Glenn A. Langer**  
Department of Physiology  
University of California, Los Angeles  
School of Medicine  
Los Angeles, Calif. 90024

*The University of California is an Equal Opportunity Employer with an Affirmative Action program. Women and minorities are encouraged to apply.*

**Position:** ADMINISTRATOR/COORDINATOR, Professional Development Program.

**Salary:** Commensurate with qualifications and experience.

**Responsibilities:** Administration of Academic Senate programs which increase educational opportunities for minorities and women at all educational levels, with an emphasis on science, engineering, and other professional areas.

Development of programs support from private foundations, corporations, and state and federal agencies.

Selection, supervision, and training of a diverse teaching and administrative staff. Interaction with university administrators, academic faculty, and students in the development of special educational programs.

**Position available:** 1 September 1979. Starting date is negotiable.

**Qualifications:** Demonstrated knowledge and experience in management, fund raising, and budgetary control. Demonstrated record of creativity and achievement in special programs for minority and/or women students

Master's degree required. Higher level degree desired; advanced graduate training acceptable if combined with substantial experience in teaching or educational administration.

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

**Application:** Correspondence and résumé should be sent by 1 August 1979 to:

**Special Scholarships Committee**  
Professional Development Program  
230-B Stephens Hall  
University of California  
Berkeley, California 94720

**ANIMAL CARE SPECIALIST.** Job duties include direction of animal care procedures, research on wildlife rehabilitation, and participation in educational program. Qualifications include an advanced degree or equivalent experience in a field related to veterinary science. Salary range is approximately \$12,500 to \$15,500. Closing date for receipt of applications is 15 September 1979. Send résumé, official transcripts, and letters of recommendations to: **Dr. Paul Beaver, Willowbrook Wildlife Haven, Forest Preserve District of DuPage County, 881 West St. Charles Road, Lombard, Ill. 60148.**

### ASSISTANT INHALATION RESEARCH TOXICOLOGIST

Position available at the Toxic Hazards Research Laboratory in Dayton, Ohio.

Requires a minimum of B.S. degree in biological sciences or chemistry and 2 years of experience in applied toxicology, or an equivalent combination of education and experience.

Closing date for accepting applications is 31 August 1979.

Send résumé to:

**Lois A. Doncaster**  
UNIVERSITY OF CALIFORNIA  
Overlook Branch, P.O. Box 3067  
Dayton, Ohio 45431

*An Affirmative Action Employer. Minorities and women encouraged to apply.*

## POSITIONS OPEN

Coastal and Oceanographic Engineering Department, University of Florida, invites applications for an **ASSISTANT OR ASSOCIATE PROFESSOR** position. Desired area of expertise: **ocean wave mechanics**. Experience in numerical modeling of coastal and ocean processes desirable. Ph.D. in related field required. Send inquiries and résumés to: **Dr. D. M. Sheppard, Acting Chairman, Coastal and Oceanographic Engineering Department, University of Florida, Gainesville, Florida 32611.**

**ASSISTANT PROFESSOR.** Tenure-track position available January 1980. Ph.D. in animal physiology required. Responsibilities include teaching comparative animal physiology, possibly anatomy and physiology, and master's level course(s) in area of specialization; initiation of active research program and supervision of M.S. students. Applications close 1 October 1979. Send letter of application, official transcripts, curriculum vitae, and three letters of recommendation to: **Chairman, Department of Biological Sciences, Florida Atlantic University, Boca Raton, Fla. 33431.** An Equal Opportunity/Affirmative Action Employer.

**ASSISTANT PROFESSOR, BIOENGINEERING.** Ph.D. in bioengineering plus minimum of 2 years of postdoctoral training required. Experience with computer analysis of EEG and evoked potentials preferred. Major responsibilities include graduate teaching and research in minicomputer applications in a medical school, hospital environment. Extensive experience required with the PDP-11 and LSI-11. Send applications, including curriculum vitae, detailed narrative of computer experience, and the names of three references, to:

**Dr. Normal Coulter, Biomedical Engineering and Mathematics Curriculum**  
123 Clinical Sciences Building, 229H  
University of North Carolina  
Chapel Hill, N.C., 27514

**ASSISTANT PROFESSOR, BIOLOGICAL SCIENCES.** Open position for scientist with promise of dynamic research program. Preference in reproductive biology and/or parasitology, but other areas of biology may also be considered. Appointee will be expected to teach standard course and to develop specialty course for advanced undergraduate and graduate students. *Women and minority applicants are particularly sought.* Send résumé to: **A. Eisenstark, Director, Division of Biological Sciences, Tucker Hall, University of Missouri-Columbia, Columbia, Missouri 65211.**

### UNIVERSITY OF REGINA (CANADA) ASSISTANT PROFESSOR, DEVELOPMENTAL BIOLOGY

Applications are invited from candidates who have training and experience in the biology of development at the molecular, cellular, and organismic level. Expertise in plant development and regeneration from somatic cells is desirable, but not essential. Applicants must have at least two years of postdoctoral experience.

The appointee will share in the teaching of undergraduate and graduate students and is expected to develop an active research program. Minimum salary: \$18,829. Starting date: as soon as possible.

Applications, including curriculum vitae, list of publications, a statement of research interests, and the names of at least three referees, should be sent to: **Dr. H. Bertrand, Department of Biology, University of Regina, Regina, Saskatchewan, Canada S4S 0A2** before 20 August 1979.

**ASSISTANT RESEARCH PHARMACOLOGIST.** Research in drug, toxicant, and hormonal regulation of hepatic and endocrine heme biosynthesis. Applicant must have Ph.D. and research experience in enzymology and assay of purine and pyridine nucleotides with training in the techniques of NMR-IR spectroscopy and isoelectric focusing. Send curriculum vitae to: **Dr. W. N. Piper, Department of Pharmacology, University of California, San Francisco, Calif. 94143.** The university is an Affirmative Action/Equal Opportunity Employer.

### ASSISTANT SCIENTIFIC DIRECTOR NATIONAL PANCREATIC CANCER PROJECT

Full-time position. Ph.D. and/or M.D.: background experience in pancreatic cancer research. University title; salary dependent upon qualifications and background. Apply with curriculum vitae to: **Isidore Cohn, Jr., M.D., Louisiana State University Medical Center, 1542 Tulane Avenue, New Orleans, La. 70112.** An Equal Opportunity Employer.

## POSITIONS WANTED

### UNIVERSITY OF MICHIGAN MEDICAL SCHOOL

The Department of Surgery at the University of Michigan is seeking a candidate for a position in **ACADEMIC GENERAL SURGERY**. The candidate should have completed a residency in general surgery at a University Hospital in the United States or Canada, be certified by the American Board of Surgery, and have specialized training which qualifies him/her for laboratory research in a specific area of general surgery. The position will be based primarily at Wayne County General Hospital, an affiliate with and staffed by the University of Michigan. Must have M.D., Board-certification in general surgery. This appointment would be at the instructor/assistant professor level and would be for 2 years only. Code 400H0. Reply to: **Box 204, SCIENCE.** A non-discriminatory, Affirmative Action Employer.

Applications are invited for the position of **ASSISTANT PROFESSOR OF ENGINEERING SCIENCE (TENURE-TRACK)**. Positions are available in September 1979 and January 1980. Applicants should possess a Ph.D. in engineering or a related physical science and have demonstrated the ability to generate original research. The positions involve research, teaching graduate and undergraduate courses, and the guiding of graduate student research. Applicants should submit curriculum vitae, the names and addresses of three referees, and a statement of teaching and research interests to: **A. M. Strauss, Head, Department of Engineering Science, ML #112, University of Cincinnati, Cincinnati, Ohio 45221.** The University is an Equal Opportunity/Affirmative Action Employer.

### ASSISTANT PROFESSOR OF PATHOLOGY

The candidate should be an academically trained pathologist. Must be Board-certified in anatomic pathology and have had experience in research and in teaching medical students and residents. Experience in diagnostic electron microscopy or other specialized field is highly desired. Please reply to:

**Chairman, Pathology Department**  
Temple University School of Medicine  
3400 North Broad Street  
Philadelphia, Pa. 19140

*An Equal Opportunity/Affirmative Action Employer*

### UNIVERSITY OF MICHIGAN MEDICAL SCHOOL

The Department of Surgery and Section of General Surgery at the University of Michigan is seeking a qualified candidate for a position of **ASSISTANT OR ASSOCIATE PROFESSOR OF SURGERY**. The individual would be based at Wayne County General Hospital, affiliated hospital of the University of Michigan. The position would involve patient care, teaching, research, and administrative responsibilities. Candidate should have training and experience in all of these areas as a full-time member of an academic surgery staff. Must be M.D., Board-certified in general surgery. Reply to: **Box 205, SCIENCE.** Code 1300FO. A nondiscriminatory, Affirmative Action Employer.

### BIOCHEMIST—CLINICAL PATHOLOGY LABORATORY

University of California in affiliation with Fresno Veterans Administration (VA) Hospital is searching for a biochemist, doctoral level, to oversee and implement clinical pathology laboratory procedures in clinical chemistries, radio-immune assays. Hospital is a 275 acute-care teaching hospital. *The university and the VA are Equal Opportunity/Affirmative Action Employers.*

Send résumé with first inquiry to:

**Jean Beland, M.D.**  
Chief, Pathology Service  
Veterans Administration Medical Center  
2615 East Clinton Avenue  
Fresno, California 93703

### DEVELOPMENTAL NEUROBIOLOGIST

We are seeking a faculty member, at any rank, who has demonstrated excellence in the field of developmental neurobiology. Excellent working conditions and generous set-up funds will be provided. Applications, which will be held in confidence, should be addressed to: **Marcus Jacobson, Chairman, Department of Anatomy, University of Utah College of Medicine, Salt Lake City, Utah 84132.** The University of Utah is an Equal Opportunity Employer. Deadline for applications is 1 September 1979.

## POSITIONS OPEN

**ASSISTANT/ASSOCIATE PROFESSOR OF IMMUNOLOGY.** Depending on background and degree of experience. Candidate should have potential as an independent researcher and an interest in teaching at the graduate level. Individuals interested in the application of immunology to the understanding and control of infectious diseases are encouraged to apply. Salary open to negotiation depending on experience. Minimum 10-month salary: \$17,500 plus. Potential for summer salary. Send curriculum vitae and names of three references to: **Dr. Myron Essex, Chairman, Department of Microbiology, Harvard University, School of Public Health, 665 Huntington Avenue, Boston, Mass. 02115.** Women and members of minority groups are encouraged to apply. Harvard University is an Equal Opportunity/Affirmative Action Employer.

The IR-4 Office at Rutgers, The State University of New Jersey, has two positions available:

**Position 101—ASSOCIATE PROFESSOR (FIELD RESEARCH COORDINATOR).** Grant-funded non-tenured position with annual 1 year reappointment in the National Office of IR-4 Program. Duties include developing needs information, criteria for research, cooperation with federal and state researchers on ornamental pesticide registration programs. A Ph.D. or equivalent experience in horticulture, weed science, entomology, or plant pathology with a background in ornamentals. Salary dependent on qualifications and experience.

**Position 102—ASSOCIATE RESEARCH PROFESSOR (RESIDUE CHEMIST).** Grant-funded non-tenured position with annual 1 year reappointment in the National Office of IR-4 Program. Duties include organizing research data to support petitions to EPA and developing criteria for pesticide clearance research. A Ph.D. or equivalent experience in agricultural sciences, biology, or chemistry with strong background in pesticide residue/metabolism and registration procedures. Salary dependent on qualifications and experience.

Applicants should state the number of the position they are applying for, and send curriculum vitae and three letters to:

**Dr. R. H. Kupelian, National Director  
Office of IR-4  
Cook College  
Rutgers University  
New Brunswick, N.J. 08903**

Rutgers, the State University, is an Equal Opportunity/Affirmative Action Employer.

**BIOCHEMIST.** Position as associate researcher available for Ph.D. to study mutagenic and gene regulation affecting events in chemical carcinogenesis. Background in chemistry and microbiology desirable. Salary range: \$15,000 to \$16,000. Send curriculum vitae and three references to: **Dr. Gerhard Stöhrer, Department of Chemical Oncogenesis, Sloan-Kettering Institute for Cancer Research, 145 Boston Post Road, Rye, New York 10580.**

**BIOCHEMIST—**Must be specialized in protein-enzyme isolation. Area of research: the isolation of enzymes from mitochondria. Salary negotiable as assistant research biochemist (approximately \$19,600 to \$22,000). To start September-October 1979. Send curriculum vitae and letters of reference to: **Dr. Ernest Kun, 103-SURGE Building, University of California, San Francisco, San Francisco, Calif. 94143.** The university is an Equal Opportunity/Affirmative Action Employer. Women and minorities are encouraged to apply.

**Biochemist, chemist, or immunologist** position available summer 1979 in Kiel, Germany, to continue in a project on reproductive immunology working with antigen analysis and tissue cultures supported by the German Research Foundation. Postdoctoral status preferred, not absolutely necessary. Send curriculum vitae, credentials, and references to: **Dr. L. Mettler, Laboratory of Human Reproduction, Department of Obstetrics and Gynecology, University of Kiel, 2300 Kiel, Hegewischstrasse 4, West Germany.**

**BIOCHEMIST—CHEMIST.** Lake Erie College is seeking applications for a joint teaching position in biology and chemistry at the assistant professor level. Candidates must have a doctoral degree and a strong desire to teach in a liberal arts setting at the undergraduate level. Teaching responsibilities include organic chemistry, biochemistry, genetics, and general biology. Send transcripts, curriculum vitae, and three letters of reference by 15 August 1979 to: **Dr. B. J. Gibbins, Lake Erie College, Painesville, Ohio 44077.** Equal Opportunity Employer.

## POSITIONS OPEN

### CHAIRPERSON OF PHYSIOLOGY

The University of Florida, College of Medicine, seeks a distinguished individual with administrative ability to fill the position of professor and chairperson of the Department of Physiology. Position requires Ph.D. or M.D., outstanding record of accomplishment in research, and a clear commitment to education in the health sciences. Salary commensurate with credentials. Anticipated starting date: 1 January 1980. Send curriculum vitae, bibliography, and names of four references by 7 August 1979, to: **Dr. Allen H. Neims, Box J-267 JHMHC, University of Florida, Gainesville, Florida 32610.** Equal Opportunity/Affirmative Action Employer.

The Division of Materials Research seeks qualified individual as **DIVISION DIRECTOR.** The division director's responsibilities include the exercise of scientific leadership and administrative expertise in materials research, planning, developing, and managing the grant programs at the foundation. This position is currently excepted from the competitive civil service and will become part of the Senior Executive Service on 13 July 1979. The incumbent will be classified either career or noncareer depending upon the conditions of employment. Office of Personnel Management approval is required for career status. The salary range is from \$44,756 to \$47,500 per annum. Applicants should submit a Personal Qualifications Statement, SF-171, or a letter of application plus curriculum vitae to: **The National Science Foundation, Division of Personnel and Management, Room 212, 1800 G Street, NW, Washington, D.C. 20550, attention: Executive and Managerial Personnel Branch, Announcement EMPB Number 79-15 by 1 August 1979.** For further information, telephone **Teddy Haessig-Dyer at 202-632-4124.**

### FACULTY POSITION CHEMICAL OCEANOGRAPHY

Texas A & M University is seeking a chemical oceanographer with an outstanding record and potential in research and teaching. Rank and salary will be commensurate with experience. Contact: **W. D. Nowlin, Jr., Professor and Head, Department of Oceanography, Texas A & M University, College Station, Texas 77843.**

An Equal Opportunity/Affirmative Action Employer

### TEMPORARY FACULTY POSITION

Assistant professor to perform and direct research in protein glycosylation and saccharide polymerization involving glycosyl lipid intermediates.

Some teaching required. Position available 1 September 1979 to 31 August 1980 as a sabbatical leave replacement. Salary: \$15,000 to \$17,000. Contact:

**C. L. Villemez  
Department of Biochemistry  
University of Wyoming  
Laramie, Wyoming 82071  
Telephone: 307-766-6443**

**FACULTY IN RESIDENCE/ASSISTANT PROFESSOR OF BIOCHEMISTRY** to begin 15 January 1980. Temporary 1½-year appointment. To teach two courses, elementary biochemistry and biochemical genetics (one course each semester); and carry out research in biochemical genetics or viruses or prokaryotes. Qualifications: Ph.D. required; background in biochemical genetics of viruses or prokaryotes or related areas; postdoctoral research and college teaching experience desirable. By 1 September 1979 contact: **Dr. James A. Stewart, Chair, Biochemistry Department, Spaulding Life Science Building, University of New Hampshire, Durham, N.H. 03824.** The university is an Affirmative Action/Equal Opportunity Employer.

**FACULTY POSITION available in retinal hemodynamics and blood flow studies.**

**University of Illinois Eye and Ear Infirmary and Abraham Lincoln School of Medicine, the University of Illinois at the Medical Center, Chicago.**

Applications are invited for a faculty position at the assistant or associate professor level. The major responsibility will be the supervision of research on vascular flow in the retina, utilizing a unique non-invasive computerized ophthalmoscopy system. Active interchange with engineers and clinical ophthalmologists will be fostered. An advanced degree (Ph.D. or M.D.) is a prerequisite.

Those interested should direct inquiries together with a curriculum vitae and bibliography to: **Morton F. Goldberg, M.D., Professor and Head, Department of Ophthalmology, University of Illinois Eye and Ear Infirmary, 1855 West Taylor Street, Chicago, Ill. 60612; telephone: 312-996-6590.**

Equal Opportunity/Affirmative Action Employer

Two positions are available under the Inter-governmental Personnel Act of 1970 for persons now employed in state/local government or in colleges and universities. These positions are within the Environmental Observation Division of the Office of Space and Terrestrial Applications, National Aeronautics and Space Administration (NASA) Headquarters. Both positions are for 1 year with the possibility for renewal for an additional year. Pay will be at a level commensurate with experience, and will be established after a review of qualifications.

Candidates must have been employed by the university in a permanent position for at least 90 days or be a career employee of a state or local government. Candidates must also meet the federal qualification standards for the position. These are as follows: a degree in an appropriate field of science, plus 3 years of progressively responsible experience in duties related to the position.

### OCEANOGRAPHER (one position)

This individual will provide scientific guidance to NASA management in the development and implementation of a scientific research program in remote satellite sensing of oceanic processes in coastal regions. A background in coastal oceanography or ocean optics is preferred, with experience in physical, biological, and/or geological oceanography. A Ph.D. or equivalent training and experience is mandatory. Experience in remote sensing is desirable, especially as related to ocean color.

### METEOROLOGIST/CLIMATOLOGIST (one position)

This individual will provide technical and scientific expertise to NASA management in the applications program in remote satellite sensing of atmospheric processes. A background in meteorology, climatology, or atmospheric physics is required. A background in remote sensing is desirable. A Ph.D. or the equivalent training and experience is mandatory.

Interested parties should send a current résumé to: **NASA Headquarters, Attention: Sarah Keegan, Code EPM-3, Washington, D.C. 20546.**

## MERGER OR FINANCING?

Are you thinking of equity financing or merger of your company, now or in the future? Beckman Instruments maintains a long-term search for top quality, technical growth opportunities serving science, medicine, and industry. Perhaps you or an associate would like a copy of our Diversification Interests statement—for your present review or future reference. Available on request and in confidence.

**ROBERT Q. BROWN**  
Director of Corporate Planning

**BECKMAN**

Beckman Instruments, Inc.  
Dept. S  
2500 Harbor Blvd., Fullerton, CA 92634

## POSITIONS OPEN

**FACULTY POSITION—PHARMACOLOGY.** The Department of Pharmacology, The Vanderbilt University School of Medicine, is seeking an investigator at the assistant professor level in the area of the biochemical pharmacology of the prostaglandin system. The applicant should hold a Ph.D. degree, preferably in pharmacology. If the degree is not in pharmacology, some experience in this field would be acceptable. Special knowledge and experience in biochemical aspects of arachidonic acid metabolism is sought, including quantitative work with mass spectrometry. An additional qualification is a capability for involvement and interest in graduate and postdoctoral training. Salary and rank are negotiable. *Sex, race, religion, or national origin will not be factors in the selection process.* Applicants should send curriculum vitae and the names of three references to: **John A. Oates, M.D., Director, Research Center for Clinical Pharmacology and Drug Toxicology, Vanderbilt University School of Medicine, Nashville, Tennessee 37232.**

**TENURE-TRACK FACULTY POSITIONS.** Applications and nominations are invited for tenure-track faculty positions in the Department of Chemistry at the State University of New York at Stony Brook. We are especially interested in senior candidates whose research contributions are in organic chemistry, but junior and senior candidates with outstanding qualifications in all areas will be considered. All applicants are expected to have unusually strong and active research programs, and to make significant contributions to undergraduate and graduate education. Curriculum vitae and the names of at least three references should be sent to: **Professor William J. le Noble, Chairman, Search Committee, Department of Chemistry, State University of New York, Stony Brook, Long Island, N.Y. 11794. Equal Opportunity/Affirmative Action Employer.**

**IMMUNOPATHOLOGIST** with demonstrated research accomplishments. Faculty position with clinical laboratory responsibilities. Contact: **J. E. Craighead, Department of Pathology, University of Vermont, Burlington, Vermont 05405.**

*An Equal Opportunity Employer*

## NEUROCHEMISTRY

Applications are invited for two faculty positions at the instructor level in the following research areas: (i) stimulus-induced changes in the turnover of phosphatidylinositol in nervous tissue, and (ii) regulation of catecholamine biosynthesis in the sympathetic nervous system. Candidates should have a strong background in biochemistry and/or one of the neurosciences, and should submit curriculum vitae and a brief summary of research interests to: **Dr. Thomas Lloyd, Departments of Obstetrics and Gynecology and Pharmacology, Pennsylvania State University at the Milton S. Hershey Medical Center, Hershey, Pa. 17033. An Equal Opportunity Employer.**

## NEUROPHYSIOLOGIST

Position available for neurophysiologist. Ph.D. required and minimum of 2 years of experience. Appointment subject to approval by the University of Minnesota. Please send curriculum vitae, references, and transcripts to: **Chief, Personnel Service (05A), VA Medical Center, 54th Street and 48th Avenue South, Minneapolis, Minn. 55417. An Equal Opportunity Employer.**

## ORGANIC CHEMIST

Preferably with postdoctoral training to synthesize biologically active substances in collaborative programs and to build own research program. Salary commensurate with qualifications. Please send résumé and names of three references to: **Box G, Department of Pharmacology, THE MOUNT SINAI SCHOOL OF MEDICINE, One Gustave L. Levy Place, New York, N.Y. 10029. An Equal Opportunity Employer.**

## PHYSICS—MATHEMATICS

Faculty position in liberal arts college related to the American Baptist churches. Duties include teaching physics in premed program, teaching and working with math majors. The applicant would also teach one section in a general education program. Ph.D. is preferred. Send résumé and credentials to: **Keith Shumway, Academic Vice President, Ottawa University, Ottawa, Kansas 66067. Salary and rank commensurate with background. An Equal Opportunity/Affirmative Action Employer.**

## POSITIONS OPEN

**PEDIATRIC ONCOLOGIST**, assistant professor for teaching and clinical research in major southeastern Pediatric Department. Board-eligibility in pediatrics and hematologic-oncology required. Interest in research in immunology and oncology, Cancer Research Center, or cancer epidemiology preferred. Send letter of inquiry and curriculum vitae to: **John K. Whisman, M.D., Department of Pediatrics, University of North Carolina, Chapel Hill, N.C. 27514. An Equal Opportunity/Affirmative Action Employer.**

## PHARMACOLOGY: TENURE-TRACK POSITION

The South Bend Center for Medical Education of the Indiana University School of Medicine invites applications from individuals who have a Ph.D. degree and who are capable of developing and teaching a course in general pharmacology to second-year medical students. Candidates will be required to show evidence of a strong research commitment; post-doctoral experience is desirable. The 12-month appointment could begin in spring 1980. Interested persons should send curriculum vitae and a letter describing current research activities, future research goals, and teaching interests to: **Thomas A. Troeger, M.D., Director, South Bend Center for Medical Education, Haggard Hall, University of Notre Dame, Notre Dame, Ind. 46556.**

*Indiana University is an Equal Opportunity/Affirmative Action Employer.*

**PHYSICIANS** (multiple openings)—The Food and Drug Administration (*an Equal Opportunity Employer*) has Civil Service and Commissioned Corps (U.S. Public Health Service) openings for evaluation of new drug clinical testing and potential effects of drugs. Some investigation positions also available in the bioresearch monitoring program. Vacancies are for physicians qualified in specialties (endocrinology, internal medicine, pulmonary disease, or rheumatology), or with clinical pharmacology training/experience, or with research experience in development of new drugs.

Positions have no patient care duties, are located in Rockville, Maryland, and require medical judgments, effective writing and speaking, and ability to organize work and to meet deadlines. Grades GS-14 and GS-15 (salary range \$40,009 to \$47,500 per year, depending upon experience and qualifications). Comprehensive fringe benefits available.

Requirements: medical degree (M.D. or doctor of osteopathy) and Board-eligibility in above listed specialty; or equivalent experience in clinical pharmacology or drug research. Acceptability of degree source governed by Civil Service regulations.

Send résumé or curriculum vitae to:

**George H. Calvert  
Food and Drug Administration  
Division of Personnel Management  
5600 Fishers Lane  
Rockville, Maryland 20857**

## POSTDOCTORAL POSITION

To work on structure of nucleoproteins using new techniques including heavy atom labels and scanning transmission electron microscopy at atomic level. Write to:

**Professor Michael Beer  
Department of Biophysics  
Johns Hopkins University  
34th and Charles Streets  
Baltimore, Md. 21218**

**POSTDOCTORAL POSITION** available September 1979 for the biochemical and immunological characterization of Streptococcal antigens and their interaction with mammalian tissues and their components. Stipend: \$11,000 per annum; available for 2 years. Send curriculum vitae and three letters of recommendation to: **Dr. Murray W. Stinson, Department of Microbiology, State University of New York, School of Medicine, Buffalo, N.Y. 14214. An Equal Opportunity/Affirmative Action Employer.**

**POSTDOCTORAL POSITION.** Immediate opening for a Ph.D. biochemist, physiologist, or pharmacologist to participate in research on the molecular-biochemical basis of hormone-regulated transport in the kidney and related systems. Research involves detecting hormone-mediated protein phosphorylation in a variety of cellular systems, chemical modification of transport systems, and spectral probes of membrane-transport events. Please send curriculum vitae and summary of research experience and interests to: **Dr. Murray J. Ettinger, Department of Biochemistry, State University of New York at Buffalo, 102 Cary Hall, Buffalo, N.Y. 14214.**

## POSITIONS OPEN

**POSTDOCTORAL APPOINTMENTS** starting September 1979 for kinetic, physical, and structural studies on thiol-treated, superactive ribonuclease [see *Science* **199**, 1084 (1978)] and/or high field (360 MHz) NMR studies on protein dynamics and the unfolding and refolding of proteins [see *BBRC* **86**, 885 (1979)]. Applicants with expertise in protein chemistry or physical biochemistry are desired. The initial appointments will be for one year with the possibility of renewal. Please send résumé, including details of research experience, and three letters of recommendation to: **Dr. F. W. Benz, Department of Pharmacology and Toxicology, University of Louisville, School of Medicine, P.O. Box 35260, Louisville, Kentucky 40232. The University of Louisville is an Affirmative Action/Equal Opportunity Employer.**

**POSTDOCTORAL ASSOCIATE.** University appointment as staff associate to collaborate in an NIH-funded cellular biophysics research program on striated and cardiac muscle. Investigative procedures include: light and electron microscopy, light and x-ray diffraction, physiological technique. Opportunity for inter- and intradepartmental interaction as well as training for a research and teaching career. Base: \$12,000 per annum (supplemental if qualified to contribute to departmental teaching programs). Send curriculum vitae and three letters of reference to: **Dr. Ernest W. April, Department of Anatomy, College of Physicians and Surgeons of Columbia University, 630 West 168 Street, New York, N.Y. 10032.**

**POSTDOCTORAL POSITION** available immediately in molecular pharmacology to study environmental factors affecting the metabolism of drugs. Experience in biochemistry and/or pharmacology are essential. Send résumé and two letters of recommendation to: **Dr. G. M. Rosen or Dr. E. J. Rauckman, Department of Pharmacology, Duke University Medical Center, Durham, N.C. 27710. Duke University is an Equal Opportunity/Affirmative Action Employer.**

**POSTDOCTORAL POSITION IN PROTEIN FRACTIONATION FOR THERAPEUTIC USE** is available immediately. Research concerning the expert application of biological separation techniques (for example, chromatography, bioaffinity, electrophoresis and so forth) for the isolation and characterization of proteins from human cells for potential therapeutic use. Experience with the development of quantitative immunoassays is an absolute requirement. Familiarity with cell culturing methods is highly desirable. Send curriculum vitae and the names (including phone numbers) of three references to: **Dr. Nicholas Catsimopoulos, Biophysics Laboratory, Department of Nutrition and Food Science, Massachusetts Institute of Technology, Room 56-307, Cambridge, Mass. 02139. An Equal Opportunity/Affirmative Action Employer.**

**POSTDOCTORAL POSITIONS IN VANCOUVER**—Positions are currently available for studies on: (i) the control of phosphatidylcholine biosynthesis in animals, and (ii) interactions between animal viruses and cell membranes. Stipends begin at \$12,200 per annum. Apply with curriculum vitae, list of publications, and names of three referees to: **Dr. Dennis E. Vance, Department of Biochemistry, University of British Columbia, Vancouver, British Columbia, Canada V6T 1W5.**

**POSTDOCTORAL POSITION** available September or later. Salary according to experience. Candidate expected to participate in ongoing research on the role of biogenic amines in nerve and endocrine physiology. The research involves an integrated approach using light and electron microscopic, biochemical, and pharmacological methods. Prior experience in electron microscopy and/or biochemistry desirable but not essential. Send curriculum vitae to:

**Dr. E. A. Nunez  
Department of Anatomy  
Columbia University  
College of Physicians and Surgeons  
630 West 168 Street  
New York, New York 10032**

## POSTDOCTORAL POSITION

To study the metabolic response to trauma. Possible areas of research include the control of substrate interactions in vivo, and the regulation of pulmonary surfactant metabolism. Excellent laboratory facilities (including mass spectrometry) at the Shriners Burns Institute in affiliation with Massachusetts General Hospital and Harvard Medical School. Please send résumé and names of three references to: **Dr. Robert R. Wolfe, Shriners Burns Institute, 51 Blossom Street, Boston, Mass. 02114.**

INTERNATIONAL LABORATORY  
FOR RESEARCH  
ON ANIMAL DISEASES (ILRAD)  
Nairobi, Kenya

## IMMUNOLOGISTS TO WORK ON PARASITIC DISEASES

There are in the laboratory of the director of ILRAD two vacancies for immunologists to work on theileriosis. The research will include infection and transformation of bovine lymphocytes and other cell types by theileria parasites and analysis of cell-mediated immune responses to the parasites and parasitized cells.

Applicants should have experience in cellular immunology and in parasitic or other infectious diseases.

Salary will depend on age and experience. Perquisites include moving allowance, housing and commutation allowances, medical and retirement benefits.

Applications, with curriculum vitae, list of publications, and the names of three referees, should be submitted to: **Director, ILRAD, P.O. Box 30709, Nairobi, Kenya**, by 20 August 1979.



REQUIRED BY THE  
FOOD AND AGRICULTURE ORGANIZATION (FAO) OF THE UNITED NATIONS,  
ROME, ITALY:

## CROP PROTECTION SPECIALISTS (PHYTOPATHOLOGISTS, ENTOMOLOGISTS, WEED SCIENTISTS)

To be stationed in Sahelian countries, serving in a large-scale project on Integrated Pest Management for Basic Food Crops implemented with the assistance of FAO by the Inter-States, Permanent Committee for Drought Control in the Sahel (CILSS).

**ESSENTIALS:** Ph.D. in plant protection sciences. At least 7 years of postgraduate experience in pest management. Good working knowledge of English or French.

**SALARY:** Dependent on qualifications/seniority, net tax-free including the usual International Civil Service allowances. Please send detailed curriculum vitae quoting "TF/RAF/128(USA)—comm." to: **T. Eshetu, Manpower Planning, AGO, FAO, Via delle Terme di Caracalla, 00100 Rome, Italy.**



## SYMPOSIUM ON BIOLOGICAL DEVELOPMENT

In Honor of James D. Ebert

Conveners: Donald D. Brown and Paul R. Gross

A Symposium on Developmental Biology, the state of the discipline and its expected directions during the coming decade, will be held at the **Marine Biological Laboratory, Woods Hole, Massachusetts, September 11th through 13th, 1979**. The program will consist of a sequence of major addresses by leaders in the field, each of whom will present a summary of significant current ideas and problems, and his or her view of what should and will be done in the near future. Speakers include the following:

Donald D. Brown — *Developmental Genetics*  
Barton Childs — *Teratology and Birth Defects*  
Gerald Edelman — *Cell-Cell Interaction*  
David Epel — *Fertilization*  
Nina Federoff — *Plant Development*  
Walter Gehring — *Drosophila Developmental Genetics*

Howard Green — *Specialized Cells in Culture*  
P.R. Gross — *Mosaic Versus Regulative Development*  
John Gurdon — *Nucleocytoplasmic Interactions*  
Beatrice Mintz — *Mammalian Embryogenesis*  
Keith R. Porter — *Morphogenesis*  
Lauri Saxen — *Embryonic Induction*

The Laboratory can provide housing and meals for a limited number of participants; a wide range of accommodations is available in the village of Woods Hole and elsewhere in the vicinity. Off-campus accommodations will be available at reasonable cost, the summer holiday season having ended prior to the meetings.

Further information will be provided promptly upon inquiry to: Ebert Symposium, c/o Office of the Director, Marine Biological Laboratory, Woods Hole, MA 02543. All formal sessions will be open to the local scientific community and to visitors without charge.



## POSITIONS OPEN

Two **POSTDOCTORAL POSITIONS** (2 years) available September 1979. (i) Study soybean iron metabolism. Methodology involves separating proteins by gel electrophoresis and identifying Fe proteins by autoradiography. (ii) Study transmission of cowpea mosaic virus by the Mexican bean beetle. Transmission of electrophoretic forms will be compared and fate of radiolabelled virus will be studied. Salary about \$13,000 per year. By 5 August send application to or request details from: **Dr. O. C. Lane**, Plant Pathology Department, The University of Nebraska-Lincoln, Lincoln, Nebraska 68583. Telephone: 402-472-3165. *Affirmative Action/Equal Opportunity Employer.*

**POSTDOCTORAL POSITION** available immediately for biochemist (neurochemist) to study lipid metabolism in brain. Stipend: \$13,000 to \$14,000 per year. Support available for a period of 2 to 3 years. Send curriculum vitae with three references to: **Dr. S. N. Shah**, Brain-Behavior Research Center, University of California, Sonoma State Hospital, Eldridge, Calif. 95431.

*Equal Opportunity/Affirmative Action Employer*

**POSTDOCTORAL POSITIONS IN TUMOR AND DEVELOPMENTAL BIOLOGY**, one available immediately and one in mid-1980, to investigate cellular and biochemical mechanisms of in ovo oncogenesis induced by avian tumor viruses, using both histochemical and biochemical approaches. Persons having experience in the area of modern embryology of the chick or mouse, using immunological, biochemical, histochemical, or transplant technology are preferred. Interested candidates please send curriculum vitae, bibliography, and names of two referees to: **Professor R. M. Franklin**, Biocenter, University of Basel, Klingelbergstrasse 70, CH-4056 Basel, Switzerland.

**POSTDOCTORAL POSITION** available immediately for research on the mechanism of in vitro induction of leukemia cell differentiation with an emphasis on folate metabolism. Approach will involve application of recombinant DNA techniques and evaluation of patterns of DNA metabolizing enzymes. Previous experience in molecular hybridization techniques, tissue culture, and enzymology is desirable. Appointment renewable annually; salary ranges from \$11,000 to \$14,000 depending upon experience. Send curriculum vitae, summary of research interests, and three letters of reference to: **Dr. Samuel Waxman**, Department of Medicine, Mount Sinai School of Medicine, Fifth Avenue and 100th Street, New York, New York 10029. *Mount Sinai is an Equal Opportunity/Affirmative Action Employer.*

**POSTDOCTORAL POSITION** available immediately to study role of proteases and vasopressin mediators in vascularization and growth of malignant tissue. Experience in enzyme purification, characterization, and kinetics. Salary starts at \$13,000; appointment renewable annually. Send résumé and three references to: **Dr. Nathan Back**, Department of Biochemical Pharmacology, State University of New York, Hochstetter Hall 355, Buffalo, New York 14260.

**POSTDOCTORAL POSITION** available in chemical carcinogenesis research program. The studies aim to define and analyze the sequential stages in cancer induction using the kidney as an experimental model. Experience in histopathology, electron microscopy, or cell culture desirable. Send curriculum vitae and letters of recommendation to: **Dr. Gordon C. Hard**, Fels Research Institute, Temple University School of Medicine, 3420 North Broad Street, Philadelphia, Pa. 19140. *Equal Opportunity Employer.*

**POSTDOCTORAL POSITION**. Available fall 1979 for research on structure and functioning of the mitochondrial electron transport chain. Recent Ph.D. with background in protein chemistry preferred. Please send curriculum vitae and references to: **Roderick Capaldi**, Institute of Molecular Biology, University of Oregon, Eugene, Oregon 97403. *An Equal Opportunity/Affirmative Action Employer.*

**POSTDOCTORAL RESEARCH ASSOCIATE** position available September 1979. Research in gene activation in somatic cell hybrids, mutagenesis, genetic analysis of differentiated genes in mouse hepatoma cells. Background in biochemistry preferred. Send résumé and names of three references to: **Dr. Gretchen Darington**, Cornell University Medical College, 1300 York Avenue, Room F-209, New York, N.Y. 10021. *Equal Opportunity/Affirmative Action Employer, M/F.*

## POSITIONS OPEN

**POSTDOCTORAL POSITIONS** in molecular and tumor virology available in September at the Institute for Molecular Virology in St. Louis. Studies on adenoviruses include viral-coded early and "transformation" proteins, transcription, DNA replication, and molecular genetics. Research programs on RNA tumor viruses include studies on proviral DNA synthesis and integration. Send résumé, plus three references, to:

**Dr. Gary F. Gerard**  
Institute for Molecular Virology  
St. Louis University School of Medicine  
3681 Park Avenue  
St. Louis, Missouri 63110

*Equal Opportunity/Affirmative Action Employer*

**POSTDOCTORAL POSITION** available. Research involves immunohematology and immunochemistry with particular emphasis on glycoprotein chemistry. Exposure to clinical medicine and blood banking is also provided. Write to: **Volker E. Dube, M.D.**, Evanston Hospital Blood Bank, Northwestern University, 2650 Ridge Avenue, Evanston, Ill. 60201.

### POSTDOCTORAL RESEARCH ASSOCIATE(S)

For investigations of enzyme reaction mechanisms and/or organic reactions as models for enzyme action. Available immediately. Send curriculum vitae and two letters of reference to: **Dr. R. M. Pollock**, Department of Chemistry, University of Maryland Baltimore County, 5401 Wilkens Avenue, Baltimore, Md. 21228. *An Affirmative Action/Equal Opportunity Employer.*

### POSTDOCTORAL RESEARCH ASSOCIATE PHOTOBIOLOGY OR ALKYLATING-AGENT BIOLOGY

Participate in basic research on mutations induced by physical and chemical mutagens in mammalian cells; action of such agents on mammalian DNA; repair of alkylating-agent induced damage in mammalian cells.

Background in mammalian cell culture, synchronization methods, and photobiology or cancer biology. Ph.D. in biology, genetics, molecular biology, or biochemistry. Salary range: \$990 to \$1560. One-year term appointment, renewable to maximum appointment of 3 years.

Send two copies of curriculum vitae and names of three references to: **Dr. H. John Burki**, care of:

**Ron Lowder**  
Personnel Department  
Lawrence Berkeley Laboratory  
1 Cyclotron Road  
Berkeley, Calif. 94720  
Telephone: 415-486-5149

**POSTDOCTORAL RESEARCH POSITION** available immediately for U.S. citizen to study functions of mitochondria in cultured mammalian cells. Background in cellular or molecular biology desirable. Send résumé and names of three references to: **Dr. V. Fay Righthand**, Department of Immunology and Microbiology, Wayne State University School of Medicine, 540 East Canfield Avenue, Detroit, Mich. 48201. *Equal Opportunity/Affirmative Action Employer.*

**POSTDOCTORAL RESEARCH POSITION IN PHARMACOLOGY**. Studies on the biochemical and pharmacological effects of adrenoceptor agents structurally related to trimetoprim. Available immediately. Two-year position with salary range of \$10,800 to \$12,000 per year. Send résumé and references to: **Dennis R. Feller, Ph.D.**, College of Pharmacy, The Ohio State University, Columbus, Ohio 43210. *An Equal Opportunity/Affirmative Action Employer.*

**POSTDOCTORAL SCHOLAR**. Position available immediately to study glycoproteins released by human breast epithelial cells as a function of glandular architecture. Experience with glycoprotein purification, electrophoretic techniques, and radioimmunoassays is desirable. Send curriculum vitae and names of three references to: **Dr. Zoltán Tókes**, University of Southern California, School of Medicine, Cancer Research Laboratory, 1303 North Mission Road, Los Angeles, Calif. 90033, or telephone: 213-226-4775.

### PROTEIN ISOLATION CHEMIST

Proficiency in amino acid sequencing, analytical chemical procedures, structural and chemical studies of proteins, working knowledge of glycoproteins is desirable. UCLA Bone Research Laboratory. Contact: **Carole Powell** by telephoning 213-825-6521.

## POSITIONS OPEN

**UNIVERSITY OF HAWAII AT MANOA, PROFESSOR AND CHAIRPERSON**, to provide leadership in the areas of conventional and tropical foods and promotion of health. Doctorate in food science, nutrition, biochemistry, physiology, or related field and attainment or ability to qualify as full professor. Send résumé, curriculum vitae, and three letters of reference to: **Selection Committee (Professor and Chairperson)**, College of Tropical Agriculture and Human Resources, Department of Food Science and Human Nutrition, 1800 East West Road, Room 224, Honolulu, Hawaii 96822. Deadline: 15 August 1979. *Equal Opportunity/Affirmative Action Employer.*

### PROGRAM MANAGER (\$32,442 to \$47,500)

The National Science Foundation (NSF), Division of Ocean Sciences, is seeking a qualified person who is interested in a permanent or 2-year rotational assignment at the National Science Foundation as Program Manager for Operations, Office for Oceanographic Facilities and Support. This program manages foundation support for operation and utilization of the academic fleet required for the conduct of NSF-funded research programs. Responsibilities included are program planning, proposal evaluation, administration of grants, contracts, and interagency agreements, and extensive liaison with other NSF program officers, the institutions of the academic oceanographic community, and other federal agencies and coordinating groups. Salary is negotiable based on qualifications and experience. Health, life insurance, and leave benefits are available. Applicants should have a Ph.D. or its equivalent in experience in marine management, oceanography, or ocean engineering. Specific experience related to the management and scheduling of ships and other oceanographic facilities in an academic setting is required.

**HOW TO APPLY**—Submit letters of interest and SF-171 or current résumés by 15 August 1979 to: **National Science Foundation, DPM, Executive and Managerial Personnel Branch, EMPB-79-13, 1800 G Street, NW, Washington, D.C. 20550**. For further information, telephone: **Catherine Hobek at 202-632-4124**. Deadline for submission: 15 August 1979.

*An Equal Opportunity Employer*

**RADIOIMMUNOASSAY**, Ph.D. Assistant professor, tenure-track position, and chief of Radioimmunoassay Section of Hospital Laboratories. Applicants should have postdoctoral clinical radioimmunoassay laboratory experience and be capable of developing an independent research program. Send curriculum vitae and three letters of recommendation to: **M. M. Yokoyama, M.D.**, Department of Pathology, University of Illinois at the Medical Center, 840 South Wood Street, Chicago, Illinois 60612. *The University of Illinois is an Affirmative Action/Equal Opportunity Employer and encourages applications from members of minority groups and women.*

**RESEARCH ASSOCIATE** position is available immediately in the Gulf Coast area. Recent Ph.D. (membrane protein biochemist or biophysicist) will conduct research on molecular pharmacology of drug receptor sites in brain monoamine oxidase system and  $\text{Na}^+$ ,  $\text{K}^+$ -ATPase. Emphasis will be the structure and function relationships deriving from application of biochemical and physical methods. Send curriculum vitae and three letters of recommendation to: **Dr. R. H. Huang**, Department of Biochemistry, University of South Alabama, College of Medicine, Mobile, Ala. 36688.

**RESEARCH ASSOCIATE**. Available in regulation of protein degradation: effect of PFK regulatory factor and insulin. Ph.D. in biochemistry or related area required. Salary: \$12,000 and up, plus fringes, depending on qualifications. Applications will be accepted up to 23 July 1979. Send curriculum vitae and names of three references to: **Dr. George Dunaway**, Department of Pharmacology, Southern Illinois University School of Medicine, Springfield, Ill. 62708. *An Equal Opportunity/Affirmative Action Employer.*

**RESEARCH ASSOCIATE**—Comparative physiology/endocrinology; \$11,875 per year. Ph.D. or completion of the requirement thereof, with research training in comparative physiology, endocrinology and biochemistry, and at least six months of teaching experience required. Specific interest in the hormonal regulation of vitellogenesis and expertise in the development of new protein radioimmunoassays, tissue culture, and gel electrophoresis preferred. Forty-hour week; schedule flexible; research environment. Send résumé to: **Dr. I. P. Callard**, Department of Biology, Boston University, 2 Cummings Street, Boston, Massachusetts 02215.

**NATO ADVANCED  
RESEARCH INSTITUTE  
IN VITRO TOXICITY  
TESTING: CURRENT  
AND FUTURE  
POSSIBILITIES**

**Monte Carlo, September 22-28  
inclusive, 1979**

*Organizing Committee:* L. Grant, S. Harris, A. Kolber  
(Chairman), J. McLachlan, T. Wong.

*Topics:* *In vitro* Carcinogenesis, Mutagenesis, End-Organ and Behavioral Toxicity Testing. Molecular Mechanisms, Human Criteria and Health Risk Assessment Methodologies. Epidemiology and Development of Environmental/Health Policy.

*Faculty:* B. Ames, H. Bartsch, J. Cavanagh, B. Commoner, J. A. DiPaolo, A. P. Dyban, R. Fahrig, L. Friberg, L. Golberg, R. Goyer, C. Heidelberger, G. Hueter, A. Hsie, P. T. Iype, T. Kada, P. Kleihues, T. Kuroki, P. D. Lawley, N. Loprieno, R. Merrill, R. Morgan, Q. Myrvik, D. Neubert, B. W. O'Malley, M. Radman, M. F. Rajewsky, D. Rall, L. Sachs, L. Saxen, H. F. Stich, P. O. Ts'o, J. M. Vasiliev, E. Vogel, M. Waters, B. Weiss, S. Wolfe and others.

Applications should reach A. Kolber, Chairman, Organizing Committee, Research Triangle Institute, Research Triangle Park, North Carolina 27709, U.S.A., before August 10, 1979. Please include a curriculum vitae, brief summary of applicant's background, current interests, and reasons for attendance. A small number of fellowships are available.

## Dermatology Research

### 3M Biosciences Research Laboratory

3M, a major R&D organization has an immediate opening in its Central Research Biosciences Laboratory for a Senior Scientist (PhD or equivalent) with research experience in skin physiology and/or dermatology.

Responsibilities will include the establishment and direction of the fundamental research program in dermatology. Located at 3M Center in St. Paul, Minnesota, we offer a competitive salary, excellent benefits and a challenging opportunity. Send your resume including salary history/requirements in confidence to Dennis G. Nelson, Technical Placement Manager/3M.

**Staffing & Employee Resources  
St. Paul, Minnesota 55101**

We Are An Equal Opportunity Employer M/F

# 3M

## Senior Biochemist

NEN is a world leader in the development and manufacture of radioactive chemicals for medical research and diagnosis.

As a senior biochemist in our Labeled Chemicals Division in Boston, your initial responsibilities will include R & D efforts related to production and new product development. The ideal candidate will hold a Ph.D. in Biochemistry with 1-5 years of post doctoral experience in the areas of enzymology and protein isolation and purification. We're seeking an experienced bench chemist with the motivation to eventually move into a supervisory capacity.

*We offer competitive salaries as well as a comprehensive benefits package, including profit sharing and relocation expenses.*

Interested candidates may submit a resume with salary history to Edward Saras, New England Nuclear Corporation, 549 Albany St., Boston, MA 02118.



**New England Nuclear**

**...A Better World**

an equal opportunity employer

## INTRODUCE "STATE OF THE ART" MOLECULAR BIOLOGY TO YOUR STUDENTS

### BRL CONCEPT™ I Restriction Endonucleases

Write or Call for full information!

**BRL**

**Bethesda Research Laboratories, Inc.**

411 North Stonestreet Avenue, Rockville, MD 20850  
(301) 340-0448 in Maryland • Toll Free (800) 638-8992  
Telex 440582 BRL XUI

**"THE MOLECULAR BIOLOGY COMPANY"**

Circle No. 158 on Readers' Service Card

## POSITIONS OPEN

**RESEARCH ASSOCIATE**—Available immediately. Attractive salary and opportunity for outstanding researcher with developing center. Bio-organic chemist with credentials in structure determination and stereochemistry. The research involves structure determination of new natural products using CMR, PMR, and other spectroscopic techniques. A strong knowledge of CMR and HPLC will be necessary. Write: Lolita Zamir, Chemistry Department, or Roy A. Jensen, Director, Center for Somatic-Cell Genetics and Biochemistry, State University of New York, Binghamton, N.Y. 13901.

**RESEARCH GRANTS ADMINISTRATOR**—M.D. or Ph.D. with understanding of basic biomedical research and clinical investigations to staff scientific advisory review committee and administer grants awarded. Voluntary health organization; New York City area. Submit curriculum vitae and salary requirements to: **Box 203, SCIENCE.**

**RESEARCH PHYSIOLOGIST**—Particular expertise in mammalian cardiac physiology with experience in isolated tissue perfusion and isotopic exchange measurement. In addition it is desirable to possess expertise in analysis of intermediate metabolism for work on problems of ischemia and anoxia.

Applicants should submit curriculum vitae with a list of publications and names of references to:

Dr. Glenn A. Langer  
Department of Physiology  
University of California, Los Angeles  
School of Medicine  
Los Angeles, Calif. 90024

*The University of California is an Equal Opportunity Employer with an Affirmative Action program. Women and minorities are encouraged to apply.*

**RESEARCH POSITION.** M.D. or Ph.D. Immunochemistry experience with lymphocyte function for the development of a cancer detection system. Teaching hospital in midwest. **Box 194, SCIENCE.**

**TEACHER OF BIOLOGY.** Needed by September 1979. Major area: mammalian physiology. Minor areas: histology, embryology, comparative anatomy. Ph.D. in physiology preferred. Will consider A.B.D. candidates or M.S. with substantial experience. Send résumé to: Vice President for Academic Affairs, College of Saint Teresa, Winona, Minnesota 55987. An Affirmative Action/Equal Opportunity Employer.

### TERRESTRIAL PLANT ECOLOGIST DUKE UNIVERSITY

Assistant professorship, tenure-track, as of 1 September 1980. Demonstrated excellence in research and teaching required. Deadline for applications: 1 November 1979. Send résumé, transcripts, reprints, and the names of three references to: Dr. Boyd Strain, Chairman, Search Committee, Department of Botany, Duke University, Durham, N.C. 27706.

*An Affirmative Action/Equal Opportunity Employer*

### VETERINARY PATHOLOGIST

The Collaborative Radiological Health Laboratory (CRHL) and the Department of Pathology, Colorado State University, have two positions for veterinary pathologists interested in an academic setting within a college of veterinary medicine. The CRHL is a multidisciplinary research group studying the long-term effects of low-level radiation in beagle dogs. Primary duties involve evaluation of a variety of diseases in a large canine population. Applicants should have a D.V.M. with advanced training in pathology, preferably with ACVP-eligibility or -certification. Application deadline: 1 September 1979 or until positions are filled. Rank, salaries, and starting dates are negotiable. *Colorado State University is an Equal Opportunity/Title IX Employer; Equal Opportunity Office, 314 Student Services Building.* Contact: Stephen A. Benjamin, Director, CRHL, Department of Pathology, Colorado State University, College of Veterinary Medicine and Biomedical Sciences, Fort Collins, Colorado 80523.

## POSITIONS OPEN

**SENIOR ANALYTICAL CHEMIST.** Major biomedical research/service organization is seeking a senior analytical chemist to direct and coordinate the activities of an instrumentation resource laboratory. Individual will perform in collaborative and consultative capacities with other senior investigators.

Qualified candidates must have a Ph.D. in analytical/organic chemistry plus experience with EI-CL, HPLC, GC/MS/DS, and FT-NMR. Knowledge of electronics essential.

Salary commensurate with experience, plus excellent benefits. Please send direct inquiry, plus résumé, to: Dr. J. P. Horwitz, Chairman, Department of Chemistry, Michigan Cancer Foundation, 110 East Warren Avenue, Detroit, Mich. 48201.

*The Michigan Cancer Foundation is an Affirmative Action Employer.*

## GRADUATE STUDY

Applications are invited from suitably qualified science or dental graduates to work for a higher degree in one of the following fields of study currently in progress in the Department of Oral Biology, University of Alberta, Edmonton, Alberta, Canada:

Developmental biology  
Neurophysiology  
Biochemistry of connective tissues  
Calcium regulating hormones  
Tumor development

Graduate assistantships can be awarded to successful applicants.

Applications can be directed to: Dr. J. W. Osborn, Chairman, Department of Oral Biology, University of Alberta, Edmonton, Alberta, Canada T6G 2N8.

## ASSISTANTSHIPS

**GRADUATE RESEARCH ASSISTANTSHIPS** available coming fall or spring semester leading to M.S. or Ph.D. in chemical oceanography. Strong background in analytical chemistry and interest in marine environment essential. Research area negotiable but will be on some aspects of inorganic, physical, or radiocgeo-chemistry of the oceans. Send curriculum vitae to or telephone: George Wong, Institute of Oceanography, Old Dominion University, Norfolk, Virginia 23508; telephone: 804-489-6477.

## FELLOWSHIPS

**ELECTRON MICROSCOPY RESEARCH FELLOWSHIP** available at Stanford Medical School for recent Ph.D. with experience in electron microscopy to join on-going research in development of axons for 2-year period beginning 1 January 1980. Excellent facilities and opportunity for interaction with physiologists and biophysicists. Send curriculum vitae and names of three references to: Stephen G. Waxman, M.D., Ph.D., Chief, Neurological Unit, Palo Alto Veterans Administration Medical Center, 3801 Miranda Avenue, Palo Alto, Calif. 94304. *Stanford University is an Equal Opportunity Employer and welcomes nominations of women and minority group members and applications from them.*

**POSTDOCTORAL FELLOWSHIPS** available 1 September 1979 in the Department of Parasitology at The Rockefeller University. Research projects include biochemistry, cell biology, immunology, and molecular biology of malaria, trypanosomes, and leishmania. Submit curriculum vitae and two letters of reference to: Dr. Araxie Kilejian, The Rockefeller University, New York, N.Y. 10021.

*The Rockefeller University is an Equal Opportunity Employer.*

**POSTDOCTORAL RESEARCH FELLOWSHIP.** Research program encompassing physiology, behavior, ultrastructure, and neuroanatomy of the teleost auditory system. Knowledge and experience in neurophysiology desirable. Starting date: 1 September 1979. Send curriculum vitae and names of three references to: Dr. Arthur N. Popper, Department of Anatomy, Georgetown University, 3900 Reservoir Road, NW, Washington, D.C. 20007. *An Equal Opportunity/Affirmative Action Employer.*

## FELLOWSHIPS

### SENIOR RESEARCH FELLOWSHIP AVAILABLE

The World Life Research Institute has an opening for a senior research fellow to research scientific literature, setting out data as to principles, concepts, hypotheses, theories, and experimental procedures relating to the use of adaptogenic agents and enzyme systems used in hyperbaric medicine in the treatment of spinal cord injuries.

The minimum requirements for this position are: M.D. degree, but license is not required; 2 years of surgical experience; candidate must have completed and had published one or more original medical articles, and must be able to read, speak, and write Russian, Arabic, and English.

This position may require travel to the U.S.S.R. and Arab countries at periodic intervals. Travel expenses will be paid by the institute. This is a full-time (40 hours per week) position, and we offer a salary of \$1,666.67 per month. Send curriculum vitae, photo, and character references. Submit applications to:

Fellowship Program  
World Life Research Institute  
23000 Grand Terrace Road  
Colton, Calif. 92324

**POSTDOCTORAL FELLOWSHIP IN MEMBRANE BIOCHEMISTRY.** A 2-year postdoctoral position is available for a Ph.D. in biochemistry or biophysics. The work will be on the physiological and biochemical role of newly isolated calcium carrier 3000 daltons from inner mitochondrial membrane. Please send curriculum vitae and three letters of reference to: Dr. Adil E. Shampoo, Professor and Chairman, Department of Biological Chemistry, University of Maryland, School of Medicine, Baltimore, Maryland 21201. *An Equal Opportunity/Affirmative Action Employer.*

**POSTDOCTORAL FELLOWSHIPS:** The Cardiovascular Institute at Boston University School of Medicine is seeking qualified candidates to pursue postdoctoral research related to basic science of cardiovascular disease, including studies in hypertension, atherosclerosis, and coronary artery disease. Stipend range: \$10,000 to \$14,000. For further information write: William B. Hood, Jr., M.D., Program Director, Boston University School of Medicine, 80 East Concord Street, Boston, Mass. 02118.

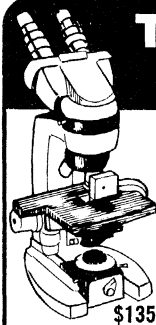
*An Equal Opportunity Employer, M/F*

## MARKET PLACE

**COLD! INTENSE!**  
**fiber optic illuminators**  
accessories for spectral research

PBL ELECTRO-OPTICS INC.  
P.O. Box 1067, New London, NH 03257  
(603) 526-6935

Circle No. 99 on Readers' Service Card



## THERMAL STAGE

Model TS-2 holds any temperature, minus 25°C to plus 60°C. It's thermoelectric, has no moving parts, no vibration.

The TS-2 stage fits most microscopes. Temperature control is automatic and the equipment includes a microprobe thermometer.

\$1350

BAILEY INSTRUMENTS INC.  
Saddle Brook, N.J. 07662 • (201) 845-7252

Circle No. 7 on Readers' Service Card



An EPA sponsored National Conference:

### Cardiovascular Disease and Drinking Water

October 9—11, 1979 at the  
University of Massachusetts/  
Amherst

Recognized authorities will present their latest research concerning the role of drinking water factors as etiologic agents in cardiovascular disease. The following three specific areas will be addressed in detail:

1. The influence of elevated levels of sodium in drinking water on human health.
2. The influence of selected heavy metals (e.g. cadmium, copper, lead, selenium, and zinc) in drinking water on cardiovascular disease.
3. The influence of hard and soft water on cardiovascular disease.

For further information concerning conference attendance write to:

Edward J. Calabrese, Ph.D.

or

Gary S. Moore, Dr. P.H.  
Conference Directors  
Division of Public Health  
University of Massachusetts  
Amherst, Massachusetts 01003

**EXECUTIVE POSITION** as Associate Chief of Staff for Research at a large VA Medical Center with close affiliation with a new medical school is available to a licensed physician with Board Certification and demonstrated experience in research. Faculty appointment and salary commensurate with qualifications and experience. The School of Medicine and VA Medical Center are E.O.E. and Affirmative Action Employers. Apply with resume to: Chief of staff, VA Medical Center, 4100 West Third St., Dayton, Ohio 45428 or Associate Dean for Academic Affairs, Wright State University School of Medicine, P.O. Box 927, Dayton, Ohio 45435.

**EXECUTIVE POSITION** as Associate Chief of Staff for Education at a large VA Medical Center with close affiliation with a new medical school. Successful applicants must hold the M.D. degree, be Board Certified and licensed. Preference will be given to individuals experienced in undergraduate and graduate medical education and administrative interests. Nominations and applications to include a curriculum vitae and the names and addresses of three references should be sent to the Chief of Staff, VA Medical Center, 4100 West Third St., Dayton, Ohio 45428 or to the Associate Dean for Academic Affairs, Wright State University School of Medicine, P.O. Box 927, Dayton, Ohio 45435. The School of Medicine and the VA Medical Center are E.O.E. and Affirmative Action Employers.

## Associate Director for Research Los Alamos Scientific Laboratory (LASL)

ASL is seeking a senior scientific professional to provide overview line management of all disciplinary research divisions and of most mission-oriented, non-defense project divisions.

The disciplinary research divisions include physics, theoretical sciences, meson physics, chemistry, geosciences, and biosciences. The programmatic divisions are magnetically-confined fusion, nuclear energy, accelerator technology, electronics, and systems analysis.

The position requires:

- \* PhD in a physical science
- \* Broad knowledge of physical and life sciences and technical and engineering aspects involved in Laboratory programs.
- \* Established research capability in at least one subdiscipline
- \* Knowledge of requirements for eventual technology transfer to commerce and industry
- \* Visibility and credibility in scientific and technological community
- \* Ability to create favorable interactions with program managers

The Laboratory is a multi-faceted national R&D organization operated by the University of California for the Department of Energy. We provide excellent working conditions and benefits, such as 24 days' annual vacation. Our location in the mountains of northern New Mexico offers a pleasing lifestyle in a setting of great natural beauty—ample recreational activities; a pollution-free environment; casual, uncrowded living; a superior public school system; and low taxes.

Send complete resume, in confidence, to:

Mr. R. Lynn Wilson, Employment Manager  
DIV 79-MM  
Los Alamos Scientific Laboratory  
P. O. Box 1663  
Los Alamos, New Mexico 87545



An Affirmative Action/Equal Opportunity Employer. Women, Minorities, the Handicapped and Veterans urged to apply. U.S. Citizenship Required.

LOS ALAMOS SCIENTIFIC LABORATORY

## ENVIRONMENTAL FIELD RESEARCH

### Transformation, effects and fate of pollutants in the environment.

The Radiological and Environmental Research Division of Argonne National Laboratory has positions for a program supervisor and several research staff. Qualified individuals with Ph.D. degrees and appropriate experience may apply before August 15, 1979. Positions include:

**Section Head:** to develop, supervise, and participate in a broad program investigating pollutant fate and effects in typical midwestern environments; both administrative and scientific research experience required.

**Organic Analytical Chemist:** to develop and lead a study of the transformation and fate of organic pollutants in the Great Lakes basin; team leadership experience desired.

**Aquatic Toxicologist:** to participate in studies of aquatic ecosystems exposed to organic pollutants; experience in population ecology desired.

**Plant Physiological Ecologist:** to participate in studies of atmospheric pollutant effects on crops; field research experience desired.

Send resume and salary history to:  
Mr. Walter McFall, Box RER, Argonne  
National Laboratory, 9700 S. Cass  
Avenue, Argonne, IL 60439.

An Equal Opportunity Employer, M/F



ARGONNE  
NATIONAL  
LABORATORY

U of C: AUA-USDOE





# The advanced AO Series One-Ten

...the laboratory microscope you might have  
designed yourself.



The AO Series One-Ten MICROSTAR® Microscope may be the world's most advanced laboratory microscope for years to come. And it's here now.

From contemporary styling and smooth, rich finish to application versatility, you'll like the design features of the new Series One-Ten in every way.

There's a bright, tungsten-halogen illuminator with continuously variable intensity control to select the exact illumination you need for every specimen. Traditionally fine AO optics give you a flat edge-to-edge image over a 20mm field of view. The focusable nosepiece allows the stage to remain secure and solid. Coaxial coarse and fine focusing controls are positioned low for easy use.

The Series One-Ten offers a total laboratory microscope system with building block technique components that you can add as you need them. Models are available for brightfield/darkfield. Add phase contrast, fluorescence, dual view, multiview and photographic accessories. The One-Ten lets you have the specific capability you want.

There's much more you'll like about the new Series One-Ten MICROSTAR Microscope. Details are described and illustrated in a new brochure. Send for your copy today. Or, even better, ask your AO Dealer for a demonstration.

American Optical, Scientific  
Instrument Division,  
Buffalo, NY 14215.

**AO**  
American  
Optical

Circle No. 129 on Readers' Service Card