



We are pleased to announce
Another "First"

Highly Purified HUMAN THROMBIN

Essentially devoid of other known non-activated and activated
clotting factors as well as Plasminogen and Plasmin.

LYOPHILIZED GRADES

| Product No. | Electrophoretic Purity | NIH u/mg Protein | Tentative Price | | | 10 vials (premeasured) 10 NIH U each |
|-------------|------------------------|------------------|-----------------|----------------|----------------|--------------------------------------|
| | | | 250 NIH Units | 1000 NIH Units | 5000 NIH Units | |
| T 6759 | Essen. Homogen. | 3000 (min) | \$32.00 | \$82.00 | \$390.00 | \$25.00 |
| T 6884 | > 80% | 2000 (min) | \$29.00 | \$75.00 | \$351.00 | \$20.00 |
| T 7009 | > 50% | 1000 (min) | \$25.00 | \$67.00 | \$300.00 | \$15.00 |

Includes shipping costs via Air (CIF).

The premeasured vials are convenient for routine use in the Thrombin-Time test, platelet aggregation function, etc. Excess rehydrated Thrombin solutions can be stored for several months below 20°C.

Protein determination per Lowry et al: JBC 193:265 (1951) and by absorbancy at 280 nm prior to lyophilization.

LIQUID GRADE

| | | | |
|--------|--|--|----------|
| T 3010 | From Human Plasma. | 250 units | \$ 40.00 |
| | Frozen solution with 0.05M Sodium Citrate: 0.15M Sodium Chloride, pH 6.5 | 1000 units | \$ 90.00 |
| | Activity: 3000 (min) NIH units per mg Protein (Lowry). | 2500 units | \$220.00 |
| | Approximately 5000 NIH units per ml for quantities of 2500 units and over. Smaller package sizes contain approximately 500 NIH units per ml. | 5000 units | \$400.00 |
| | Suggested for research applications that require highest purity available. | Includes shipping costs via Air (CIF) within the Continental USA, excluding Alaska. Shipped in dry ice, FOB St. Louis via Air Freight to Hawaii, Alaska and all other Countries. | |

We also offer:

| | | | |
|--------|---|---|----------|
| A 7388 | ANTITHROMBIN III (Factor Xa Inhibitor) | | |
| | From Human Plasma. Essentially Homogeneous by electrophoresis. | | |
| | Unit Definition: 1 unit is the activity present in 0.1 ml normal Human pooled plasma tested in the presence of 0.1 unit of Heparin. | 10 units | \$ 15.00 |
| | Ref: Yin, E.T. et al, Heparin (Bradshaw, R.A. and S. Wessler, Eds.), Adv. in Exptl. Med. and Biol. 52:239 (1975). | Price and package size are tentative. Other package sizes on request. | |

| | | | |
|--------|----------------------------------|-----------|----------|
| A 7513 | HUMAN ANTITHROMBIN III ANTISERUM | | |
| | Produced in Rabbit, Lyophilized. | 2 ml Vial | \$ 32.50 |

And Several BOVINE BLOOD COAGULATION FACTORS:

| | | | |
|----------|-------------------------------------|---------|-------------------------|
| B2-7D | Factor II & VII Deficient Plasma | F 4253 | Factor II |
| B7-10D | Factor VII & X Deficient Plasma | B5-3000 | Factor V |
| B2,7,10D | Factor II, VII & X Deficient Plasma | F 4003 | Factor X |
| BBSE | Plasma Barium Sulfate Eluate | 870-10 | Activated Factor X (Xa) |
| RBC | Rabbit Brain Cephalin | V 2501 | Russell's Viper Venom |
| RVC-L | Russell's Viper Venom in Cephalin | | |

Also, for the Determination of Plasma HEPARIN,
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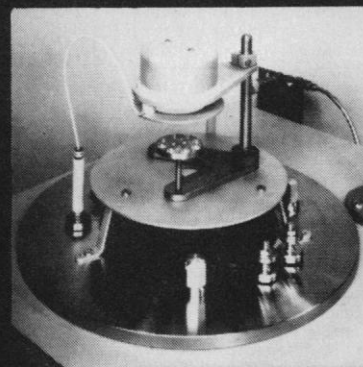
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Personnel Placement

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:

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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:

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

POSITIONS WANTED

Auditory Physiologist. Ph.D. Eleven years of post-doctoral experience in animal and human auditory electrophysiology, including electrocochleography and brainstem auditory evoked response investigations. Publications, grants, and teaching experience. Seeks position to continue human auditory research and teaching. Box 313, SCIENCE. 7/9, 16

Biochemist/Biologist. Ph.D. Good background in limnology and histochemistry. Eight years of research and teaching in biochemistry; 2 years in freshwater fish biology. Seeks research position to continue work in the field of water reuse systems for intensive fish culture. Box 314, SCIENCE. X

Biochemist. Ph.D. Extensive experience in membrane biochemistry, enzymology, cell and metabolic regulation, metabolic disorders, and brain research. Seeking interdisciplinary research and/or teaching. Box 315, SCIENCE. X

Biochemist. Ph.D. 1972. Research in chemical-viral carcinogenesis, drug metabolism; experience in cell cultures, GC/MS, HPLC. Many publications, grants. Box 316, SCIENCE. X

Biochemist/Molecular Geneticist. Ph.D. Highly qualified, 12 years of experience after Ph.D. in control mechanisms, carcinogenesis, tissue culture, endocrinology. Good background in cancer chemotherapy. Many publications. Teaching. Currently holding administrative position. Seeks academic research and/or teaching position. Available August. Box 317, SCIENCE. X

Cytogeneticist. Ph.D. 1968, wide background in mammalian and human in vivo and in vitro systems, chromosomal banding, sister chromatid exchange, chemical mutagenesis, and teratogenesis. Key publications. Desires position in government or hospitals. Box 318, SCIENCE. X

Marine Ecologist. Ph.D. fall 1976. A problem-solver well-grounded in experimental design and analysis. Dissertation research on the dynamics and ecology of denitrifying bacteria in a salt marsh ecosystem. Interested in extending research efforts to other microbial processes in marine systems. Seeks research associate or postdoctoral position. B. Sherr, University of Georgia, Marine Institute, Sapelo Island, Georgia 31327. X

POSITIONS WANTED

Electron Microscopist, Plant Physiologist/Biochemist. Ph.D. 1965. Cell physiology, microbiology, enzyme localization in cells of animals, plants, and microorganisms. Publications and expertise. Desires mature position: managing EM lab, research and/or teaching, collaboration. Box 319, SCIENCE. 7/9, 16

Instrumentation and Control Electrical Engineer. Desires to apply 25 years of experience with instruments and electrical control and a lifetime of intense interest in animal and bird behavior to some field of biological research support. Available immediately. Box 320, SCIENCE. X

Microbiologist. M.S. 1974. Registered (AAM): agricultural, industrial, food, dairy, and sanitation; civil service rating GS-9/11 (microbiology). Teaching experience and graduate education in microbial biochemistry. Desires challenging laboratory position in industry or government. Box 321, SCIENCE. X

Neuroscientist/Anatomist. Ph.D. 1972; postdoctorate; 4 years of medical school teaching experience. Publications. Seeks teaching position (neuro, gross) with opportunity to pursue highly fundable research. Telephone 212-650-7695 or write Box 308, SCIENCE. X

Pharmaceutical Executive. Ph.D. 1961. Presently top scientific executive in moderately sized pharmaceutical company. Responsibilities include R & D, QC, QA, governmental affairs and regulations, GMP, and scientific marketing. Experienced in pharmaceutical dosage forms, fermentation (antibiotics and vitamins), government liaison, and NDA's. Seeking challenging and responsible position. Box 322, SCIENCE. X

Sociologist. Ph.D. July 1976. Complex organization, stratification, rural development, methods. Teaching experience, several publications. Research or research and teaching. G. Stanfield, Sociology Department, University of Missouri, Columbia, Missouri 65201. X

POSITIONS OPEN

ACADEMIC MEDICINE—CAREER OPPORTUNITIES in Department of Internal Medicine, Admissions Center. Full-time faculty appointment with responsibilities in well-staffed admissions area of a primary teaching hospital of the Medical College of Wisconsin. Appointment to an appropriate subspecialty section. Ample time and opportunity to pursue clinical or laboratory investigations aimed at developing a career in academic medicine. *Non-discrimination in employment.* Contact: **George B. Theil, M.D., Chief, Medical Service, Veterans Administration Research Center, Wood (Milwaukee), Wisconsin 53193.**

ASSISTANT TO DIRECTOR SMALL ANIMAL TOXICOLOGY

IRDC's continued expansion creates a need for two individuals to assist our Director of Small Animal Toxicology. Applicants should have a minimum of a B.S. degree and experience in long-term studies in small animal toxicology (rats, mice, and hamsters). If you would like to join a company that has doubled its size and business over the past 5 years, and would like to live in a desirable area of the Midwest, send your résumé (including salary history) to: **International Research and Development Corporation, 500 North Main Street, Mattawan, Michigan** (a few miles from Kalamazoo) 49071. Attention: **J. M. Ragen, Director of Personnel.** *Equal Opportunity Employer.*

The Hormel Institute, a Research Unit of the Graduate School of the University of Minnesota, invites applications for a position at the level of **ASSISTANT PROFESSOR.** Ph.D. degree and postdoctoral experience are required. The successful candidate is expected to establish an independent research group in an area of, or related to, **LIPID BIOCHEMISTRY.** Preference will be given to applicants whose research plans complement ongoing Institute projects in lipid research. Available after 1 October 1976. Before 1 August 1976, please submit a curriculum vitae, research plans, full publication list, graduate transcripts, and the names and addresses of three references to: **Dr. Howard Brockman, Chairman of the Search Committee, The Hormel Institute, University of Minnesota, Austin, Minnesota 55912.** *An Equal Opportunity/Affirmative Action Employer.*

POSITIONS OPEN

ASSISTANT PROFESSOR

Applications are invited for the position of assistant professor with primary teaching responsibility for courses in horse production, reproduction, feeding, and management. A significant amount of time will be given to extension work. Participation in ongoing research with food-producing animals is expected with possibility of initiating research in horses.

Direct replies to **W. D. Morrison, Professor and Chairman, Department of Animal and Poultry Science, Ontario Agricultural College, University of Guelph, Guelph, Ontario, Canada N1G 2W1.**

Closing date for applications is 30 September 1976.

ASSISTANT PROFESSOR OF ENVIRONMENTAL SCIENCE: 1-year appointment. Must have Ph.D. or Ed.D. to teach general science, environment pollution courses, and science methods course. Write to: **Dr. Rodger N. Jenkins, Chairman, Division of Natural and Physical Sciences, Shaw University, Raleigh, N.C. 27602.**

The Physics Department of the University of California will have an **ASSISTANT PROFESSOR** position open in **EXPERIMENTAL SOLID STATE PHYSICS** and invites applications from physicists who have specialist backgrounds in modern high-energy spectroscopy of solids in relation to the band structure of solids. Candidates must possess the ability to conduct original research of significance. Applications should be sent to the **Chairman of the Physics Department, University of California, Berkeley, California 94720**, and should be received before 15 October 1976. *The University of California is an Affirmative Action Employer. Minority and women candidates are encouraged to apply.*

ASSISTANT PROFESSOR OF OBSTETRICS AND GYNECOLOGY AND BIOLOGICAL CHEMISTRY

Applications are invited from individuals holding the doctoral degree in biological chemistry from a recognized university program and whose major research activity is in the biochemical aspects of reproductive endocrinology. The appointee will be expected to supervise the endocrinology laboratory in the Department of Obstetrics and Gynecology and to participate in the teaching program of the Department of Biological Chemistry. He or she will be expected to develop an independent research program and to collaborate in the research projects of the faculty members of the Division of Reproductive Endocrinology in the Department of Obstetrics and Gynecology. Send curriculum vitae, a short statement of research interests and plans, and references by 1 October 1976 to **William J. Dignam, Department of Obstetrics and Gynecology, 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.*

BIOCHEMIST. Position available for a Ph.D. with broad interests in enzymology, metabolism, protein chemistry, and at least 2 years of postdoctoral experience in nucleic acid biochemistry. Teaching opportunities available. Send curriculum vitae, list of publications, and names of three references to: **Dr. George L. Wolff, Chief, Division of Mutagenic Research, National Center for Toxicological Research, Jefferson, Arkansas 72079.**

An Equal Opportunity/Affirmative Action Employer. Minority and women candidates are encouraged to apply.

UNIVERSITY OF QUEENSLAND CHAIR OF PHYSIOLOGY

The University invites applications for the chair of physiology, to fall vacant upon the retirement of Professor O. E. Budtz-Olsen. Applicants should have high academic qualifications, a distinguished research record in any area of physiology, and experience in tertiary teaching. The appointee will be expected to provide leadership in research and teaching in medical, veterinary, or science physiology.

The present salary for the position is A\$25,955 per annum. The University provides prescribed traveling and removal expenses, superannuation, study leave, and housing assistance.

Additional information and application forms are obtainable from the **Staff Officer, University of Queensland, St. Lucia, Brisbane, Queensland 4067, Australia**, with whom applications close on 31 August 1976.

POSITIONS OPEN

BEHAVIORAL PHARMACOLOGIST

Research assistant position available immediately for experienced B.S. or M.S. with laboratory background in operant behavioral procedures and CNS pharmacology. Additional training in neurophysiological techniques and computer instrumentation desirable. The multidisciplinary research teams' focus is related to the discovery of CNS active drugs.

Research facility is located in a medium size midwestern city with educational and recreational resources.

Send complete résumé including salary requirements to: **Richard O. Obrig, Employment Representative.**

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Merck Sharp & Dohme Research Laboratories is presently offering a unique career opportunity for a capable individual with a recent Ph.D. in biochemistry and 3 to 4 years of postdoctoral experience. Candidates must have a working expertise in protein, glycoprotein, and polysaccharide biochemistry, with interest in preventive medicine applications. Selected candidates must also possess ability to work in a team effort in the field of vaccine research.

You can expect a salary commensurate with experience, a complete benefits program, and a challenging opportunity to work in a stimulating and professional environment at our suburban Philadelphia location.

Please send summary of training and experience, date available, and minimum salary expected to:

DONAL E. JACKSON

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RESEARCH
LABORATORIES**

Division of Merck & Co., Inc.
West Point, Pennsylvania 19486

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CHAIRPERSON DEPARTMENT OF MICROBIOLOGY

University of Pennsylvania
School of Medicine

Applications are invited from highly qualified individuals to head the Department of Microbiology of the University of Pennsylvania School of Medicine.

Microbiology Search Committee
Dean's Office, School of Medicine
University of Pennsylvania
Philadelphia, Pennsylvania 19174

An Equal Opportunity Employer

POSITIONS OPEN

BIostatistician

An excellent growth opportunity is available at our worldwide headquarters for a research and development professional possessing a Ph.D. in biostatistics and 3 to 5 years of experience in a laboratory environment.

Additional requirements include strong communicative skills and the ability to work independently as well as to generate positive working relationships with individuals in a variety of biological and chemical disciplines.

Broad-based responsibilities will be both of a theoretical and practical nature and will include the application of statistical methodology to analytical assays and process optimization.

Salary will be commensurate with experience and the successful applicant will enjoy a liberal benefits package. Interested candidates should forward a curriculum vitae with salary requirements to:

Recruitment and Selection Manager

Department JM

E. R. Squibb & Sons, Inc.

P.O. Box 4000

Princeton, New Jersey 08540

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CHAIRPERSON DEPARTMENT OF PHARMACEUTICAL CHEMISTRY

The School of Pharmacy, Medical College of Virginia, Virginia Commonwealth University, is seeking a chairman for the Department of Pharmaceutical Chemistry. We are searching for a person with a strong research background in medicinal chemistry with a knowledge of and commitment to pharmacy education. Qualified candidates are invited to submit their credentials to:

Dr. Louis S. Harris, Chairman
Search Committee

Box 27

Medical College of Virginia
Richmond, Virginia 23298

A Nondiscriminatory, Affirmative Action Employer

CHEMICAL OCEANOGRAPHY

ROSENSTIEL SCHOOL OF MARINE AND ATMOSPHERIC SCIENCE of the University of Miami invites applications for a faculty position that will involve teaching and research. Research interests in the area of sources and fluxes of particles in the ocean would be of special interest. The appointment would be at the assistant or associate professor level, as appropriate. Applicants are requested to contact **James H. Carpenter, Division of Chemical Oceanography, Rosenstiel School of Marine and Atmospheric Science, 4600 Rickenbacker Causeway, Miami, Florida 33149. The University of Miami is an Equal Opportunity/Affirmative Action Employer.**

CHEMICAL OCEANOGRAPHY

ROSENSTIEL SCHOOL OF MARINE AND ATMOSPHERIC SCIENCE of the University of Miami invites applications for a faculty position that will involve teaching and research. Research interests in the area of sediment-water interactions and sediment diagenesis would be of special interest. The appointment would be at the rank of assistant through professor, as appropriate. Applicants are requested to contact **James H. Carpenter, Division of Chemical Oceanography, Rosenstiel School of Marine and Atmospheric Science, 4600 Rickenbacker Causeway, Miami, Florida 33149. The University of Miami is an Equal Opportunity/Affirmative Action Employer.**

DEAN, SCHOOL OF GRADUATE STUDIES

The position entails administrative responsibility for a wide range of master's degree programs and development of future doctoral programs. Candidates should have an earned doctorate. Required qualifications include demonstrated administrative experience necessary to assume management of the School and to interact effectively with other components of the University and the community. Candidates should possess credentials suitable to hold the rank of professor in one of the academic departments of the University as well as experience in supervision of graduate theses or dissertations. Appointment effective January or July 1977.

Inquiries should be sent before 15 August 1976 to: **Dr. Jerry H. Hubschman, Associate Provost, Wright State University, Dayton, Ohio 45431.**

An Equal Opportunity/Affirmative Action Employer

Senior Scientist Cell Biology

The Cell Biology laboratory in corporate research is seeking a Ph.D. scientist to participate in an emerging cell biology research team. This laboratory will be involved in an R & D program seeking therapeutic agents from cell cultures.

Formal training should be in cell biology, molecular biology, biochemistry or microbiology. Experience must include eukaryotic cell culture; genetic and molecular biology approaches to understanding and controlling cell function.

ABBOTT IS AN AFFIRMATIVE ACTION EMPLOYER AND WELCOMES APPLICATIONS FROM ALL QUALIFIED SCIENTISTS.

Abbott is located in North Chicago, Illinois, midway between Chicago and Milwaukee, Wisconsin. Applicants are invited to send resumes with salary history, in confidence, to:

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Corporate Placement

ABBOTT
NORTH CHICAGO, ILL. 60064

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Affirmative Action Employer*

JAMES COOK UNIVERSITY OF NORTH QUEENSLAND LECTURER IN ZOOLOGY

Applicants should possess an initial degree in zoology or biology, a Ph.D. and some experience in university teaching and research. A population ecologist or population geneticist, preferably with an interest in entomology or biometrics, is sought but applicants with experience closely allied to these fields will be considered.

Salary Range \$A12,835-\$A17,229 p.a. plus locality allowance of \$A194 p.a. for married males or \$A97 p.a. for a single appointee.

Information on conditions of appointment and application procedure available from the Association of Commonwealth Universities (Appts), 36 Gordon Square, London WC1H 0PF.

Applications close on 30 July 1976.

Professor C. Burdon-Jones, Head of the Department of Biological Sciences is at present in the U.K. Interested candidates may write to him c/o the Association.

POSITIONS OPEN

THE PUBLIC HEALTH RESEARCH INSTITUTE OF THE CITY OF NEW YORK, INC.

The Chairman and Board of Directors invite nominations and applications for the position of **DIRECTOR** of the Public Health Research Institute.

The Institute is a center for research in those disciplines and areas concerned with the public health defined in the broadest terms. The Institute is supported by the city of New York as well as by federal and private funds.

The director is responsible for the administration of the Institute and the implementation and coordination of the policies of the Board.

We are looking for a director who will be responsible not only for the continuance of programs already in operation but for the initiation of new programs concerned with urban public health problems. Sufficient space, resources, and facilities are available for the development of these additional research programs.

Nominations and applications will be accepted until 15 August 1976. All communications should be sent to:

Dr. Barbara W. Low
Chairman, Search Committee
c/o Miss Florence M. Zolberti
455 First Avenue
New York, New York 10016

An Equal Opportunity/Affirmative Action Employer

CARDIOVASCULAR PHARMACOLOGIST

We are currently seeking candidates for positions in cardiac pharmacology and/or hypertension research. Candidates should be presently nearing completion of their post-doctoral training in pharmacology/physiology. The scientists selected will be involved in a cooperative effort in exploring new approaches to the understanding and treatment of cardiovascular diseases.

Our research laboratories are located in West Point, Pennsylvania (25 miles northwest of Philadelphia). Starting salary is commensurate with qualifications. Fringe benefits are excellent.

Please send curriculum vitae with complete list of publications to:

DONAL E. JACKSON
Biological Research
**MERCK SHARP &
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LABORATORIES**
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DIRECTOR OF RESEARCH IN ANESTHESIA—Ph.D. with experience in pharmacological or physiological research related to anesthesia. Will conduct research, train fellows in research, and teach. Level of appointment and salary commensurate with experience and ability. Concurrent appointment with Pharmacology Department in Tufts University School of Medicine. Must be experienced in writing grant proposals and obtaining and administering grant funds. Contact **Kurt F. Schmidt, M.D., Professor and Chairman, Tufts-New England Medical Center Hospital, 171 Harrison Avenue, Boston, Mass. 02111.** An Equal Opportunity Employer, M/F.

ELECTRON MICROSCOPIST—The Department of Zoology, University of Maine at Orono, invites applications for the position of assistant professor of zoology to begin 1 September 1976. Position is temporary for one academic year with possibility of extension into permanent position. Salary dependent upon qualifications. Ph.D. required. Preference given to experienced applicants. Teaching responsibilities in large undergraduate comparative anatomy course and higher-level courses in biological ultrastructure and microtechnique. Research involvement. Send credentials, reprints, and three letters of reference to: **Dr. Frank L. Roberts, Chairman, Department of Zoology, University of Maine, Orono, Maine 04473.** Deadline for receipt of applications 1 August 1976. An Affirmative Action/Equal Opportunity Employer.

POSITIONS OPEN

DIENER/EMBALMER

We are seeking a qualified person for the position of diener/embalmer at Wright State University. Major responsibilities will entail transporting, embalming, and storage of bodies. Additional duties will include, but will not be limited to, the maintenance of clean anatomy facilities. Applicants must have had previous experience in embalming human cadavers. Position is immediately available and salary is commensurate with experience. Please send applications before 30 July 1976 to **Dr. Antonio Zappala, Chairman, Department of Anatomy, Wright State University, Dayton, Ohio 45431.**

Wright State University is an Equal Opportunity/Affirmative Action Employer.

DIRECTOR AND PROFESSOR DIVISION OF BIOLOGY KANSAS STATE UNIVERSITY

The Division of Biology, in the College of Arts and Sciences, has 45 faculty members encompassing all areas of biology. Undergraduate and graduate degrees are offered in biology, microbiology, and fisheries and wildlife biology. The director will be responsible for administrative leadership and future development in research, instruction, and service. Essential qualifications include an outstanding record of accomplishment in research and excellence in teaching, an addition to evidence of administrative ability. Candidates should submit a current curriculum vitae including the names of three persons qualified to discuss in depth the applicant's qualifications, by 15 November 1976. Applications or nominations should be addressed to **Dr. Brian Spooner, Chairperson, Biology Directorship Search Committee, c/o Dean of Arts and Sciences, Eisenhower Hall, Kansas State University, Manhattan, Kansas 66506.**

Kansas State University is an Affirmative Action Employer and earnestly solicits applications and nominations on behalf of qualified female and minority candidates.

ELECTRON SPIN RESONANCE CENTER

A national Biomedical ESR Center has just been established at the Medical College of Wisconsin in Milwaukee under the sponsorship of the Biotechnology Resources Branch of the National Institutes of Health. Several new positions are available.

- 1) **Senior Electronics Engineer.** Applicants with ESR experience preferred. Primary responsibility will be development of new types of ESR apparatus. Microwave and digital experience desirable. Salary range: \$20,000 to \$25,000.
- 2) **Senior Electronics Technician.** Responsibilities for maintaining equipment. Should be capable of electronic design. Microwave and digital experience desirable. Salary range: \$14,000 to \$17,000.
- 3) **ESR Spectroscopist and Instrumentalist.** Will be responsible for assisting visiting scientist in the operation of ESR equipment. Computer experience desirable. \$12,000 to \$14,000.
- 4) **Postdoctoral Fellow.** Physical studies of nitroxide radical spin labels. Two-year appointment. \$12,000.

Send résumé or curriculum vitae to:

Professor Harold M. Swartz or
Professor James S. Hyde
Department of Radiation Biology and Biophysics
8700 West Wisconsin Avenue
Milwaukee, Wisconsin 53226
Equal Opportunity Employer, M/F

POSITIONS OPEN

BIOLOGIST—ENVIRONMENTAL SCIENTIST

The position is a 1-year temporary appointment beginning 1 September 1976. It will include teaching courses and supervising research primarily at the undergraduate level in one or more environmentally related and field biology areas and the teaching of some general biology.

Ph.D. is strongly preferred. Salary is dependent on training and experience. Applications, including three references, should be sent by 15 July 1976 to **Dr. Richard Kowles, Biology Department, St. Mary's College, Winona, Minnesota 55987.** An Equal Opportunity/Affirmative Action Employer.

CHEMIST EXPLOSIVES R & D

A leader in the commercial explosives industry, located in rural northeastern Pennsylvania, seeks an individual with a Ph.D. in organic chemistry and preferably a minor in physical chemistry.

We are looking for an individual with practical experience in product development, but will consider entry-level chemist with strong inclinations in this direction.

Experience in explosives or related industry is desirable. Knowledge of emulsion technology helpful.

This position will involve new product development of explosives for commercial use from bench scale through pilot plant.

We offer excellent salary and benefits in a stimulating work environment.

Please submit résumé stating background and salary history to: Personnel Supervisor



ATLAS POWDER COMPANY
SUBSIDIARY OF TYLER CORPORATION
P.O. Box 271, Tamaqua, Pennsylvania 18252

An Equal Opportunity Employer M/F

DIRECTOR, INDUSTRIAL AND EXTRACTIVE PROCESSES DIVISION

The Environmental Protection Agency (EPA) is seeking a director, Industrial and Extractive Processes Division within the Office of Research and Development. The mission of the Division is to provide staff support in the planning, coordination, and review of a research program to develop and demonstrate cost-effective technology to prevent, control, and abate adverse impacts from industrial and extractive processes; assess the overall environmental and socioeconomic impact of such processes; and identify and/or develop alternative systems and conservation measures including those necessary for unplanned releases (spills) to the environment. Candidates must have a bachelor's or higher degree in physical science, engineering, or mathematics that included 24 semester hours in physical science such as mechanics, dynamics, properties of materials; or equivalent combination of 4 years of experience and education that included 24 semester hours of physical science and/or closely related engineering science. In addition, at least three or more years of professional experience, including managing a scientific or technical group, are required. One year of the required experience must have been at a level of difficulty comparable to the next lower level in the federal service.

Location: Washington, D.C.

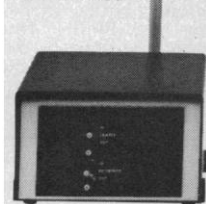
Salary range: \$31,309 to \$37,800 plus civil service benefits.

Contact: Please send a detailed résumé or a completed Standard Form 171 (Personal Qualifications Statement), which can be obtained from any federal government personnel office, to reach EPA no later than 6 August 1976, to: **Brenda Cunningham (PM-212), Personnel Management Division, Environmental Protection Agency, 401 M Street, SW, Washington, D.C. 20460.**

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Gilson Dual-Beam UV Monitor for Liquid Chromatography

MODEL 260



STABLE MEASUREMENTS—0.0005 OD per hour maximum drift
HIGH SENSITIVITY—0.05 OD full scale
SMALL CUVETTES—100 or 20 μ l cell volume
WIDE RANGE—254 to 700 nm wavelengths
CONVENIENCE—different wavelength filters are easily interchanged
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Available are other models which can perform dual-wave length, differential and two-channel measurements with greater sensitivity and stability.

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Directs and manages an extensive research program in the field of Oceanology which includes underwater acoustics, oceanography, marine physics, atmospheric physics, and ocean engineering and technology. Current subjects of investigations include anti-submarine warfare, acoustic propagation and scattering, ambient noise in the ocean, signal processing, marine and atmospheric pollution, instrumentation systems for deep ocean research and inspection, and methods of design and installation of structures and apparatus for use in the ocean. Directs a staff of over 400 personnel, the majority of whom are scientists, engineers, and technicians.

Requires outstanding capabilities in creative research, leadership, and management combined with established stature and reputation in the scientific community with credentials in an appropriate physical science or engineering field. Must show demonstrated ability to manage research programs of significant scope and difficulty.

If interested, submit Personal Qualifications Statement (SF-171), or detailed résumé including personal references and information on education, experience, publications and professional activities not later than 15 August 1976 to:

Civilian Personnel Office (Code 1811)
Naval Research Laboratory
4555 Overlook Avenue, S.W.
Washington, D.C. 20375

This position is in the Federal Career Service with all Civil Service benefits.

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POSITIONS OPEN

ENDOCRINOLOGIST

The Department of Physiology, Medical College of Virginia, is seeking an endocrinologist with teaching experience and evidence of research accomplishment to join the department during the academic year 1976-1977. The Department of Physiology currently has 24 faculty and 16 graduate students. Applicants should submit a résumé indicating educational background, professional experience, research productivity, and the names of three references to: **Norman Briggs, Chairman, Department of Physiology, Medical College of Virginia, Richmond, Va. 23298.**

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UNIVERSITY OF SOUTH CAROLINA SCHOOL OF MEDICINE FACULTY POSITIONS

The University of South Carolina invites applications from individuals interested in faculty appointments in all academic departments of the Medical School.

Candidates should desire involvement in a growing department, have a commitment to the teaching of medical and graduate students, and be open to the possibility of nontraditional teaching methods.

Outstanding applicants will be considered in a new Medical School established in affiliation with the Columbia Veterans Administration Hospital under the authority of the Veterans Administration Medical School Assistance and Health Manpower Training Act of 1972. Letters of application or nomination should include a curriculum vitae. Candidates should possess a medical degree and/or doctoral degree in their specialty.

The University of South Carolina offers Equal Opportunity in its employment, admissions, and educational activities, in compliance with Title IX and other civil rights laws.

Correspondence should be addressed to:

**Office of the Dean
School of Medicine
University of South Carolina
Columbia, South Carolina 29208**

MEDICAL EPIDEMIOLOGIST LOS ANGELES COUNTY- UNIVERSITY OF SOUTHERN CALIFORNIA CANCER CENTER

Wanted: Medical epidemiologist to conduct case-control and cohort studies in cancer epidemiology. Medical degree. At least 1 year of postgraduate experience in cancer epidemiology. Further information from **Dr. B. E. Henderson, Professor of Pathology, 1840 North Soto Street, Los Angeles, California 90032. Telephone: 213-226-2311. Equal Opportunity Employer.**

MICROBIAL PHYSIOLOGIST—Faculty position for August 1976, at assistant professor rank. To teach microbial physiology and biochemical genetics, and establish research program. Ph.D. required. Submit complete curriculum vitae and names of three references by 1 August 1976 to **Dr. H. G. Marshall, Chairman, Department of Biological Sciences, Old Dominion University, Norfolk, Virginia 23508. An Affirmative Action/Equal Opportunity Employer.**

PHYSICS TEACHING POSITION

Applications are invited for a temporary faculty teaching position beginning 15 August 1976. The position is for 1 year with a possibility of an additional 1-year appointment. The position will involve the teaching of junior/senior undergraduate courses in physics. Interest in interdisciplinary studies is desirable. Send résumé and three letters of recommendation to **A. J. Casella, Coordinator, Physical Sciences Program, Sangamon State University, Springfield, Illinois 62708. Telephone: 217-786-6630. Affirmative Action/Equal Employment Opportunity.**

RESEARCH ASSOCIATE IN OCEANOGRAPHY, to work on time series of nutrients. Research within a team of physical and biological oceanographers. Ph.D. required and experience in numerical data analysis. Salary according to experience. Contract renewable each year, for 3 years, starting as soon as possible. Members of **GIROQ** are marine scientists from Laval, McGill, and Montreal universities, in a wide variety of disciplines. Appointee will be working in Université Laval. Apply to: **Dr. Louis Legendre, GIROQ, Département de biologie, Université Laval, Québec, Canada, G1K 7P4.**

POSITIONS OPEN

GENETICIST—DEVELOPMENTAL BIOLOGIST, ASSISTANT PROFESSOR, for the one academic year 1976-77. Ph.D. required. Teach upper-level course each term (4-1-4), assist in core program, and guide senior research projects. Send résumé and recommendations by 15 July to **Denton Crocker, Chairman, Biology Department, Skidmore College, Saratoga Springs, N.Y. 12866. An Affirmative Action/Equal Opportunity Employer.**

PHYSIOLOGIST

Position available in the Department of Basic Sciences, Peoria School of Medicine, one of the three clinical schools within the University of Illinois College of Medicine. Applicants must have a Ph.D. in physiology or an M.D. and at least 2 years of experience beyond the doctor's degree, preferably with subspecialty in the field of pulmonary or cardiovascular physiology. Duties will include teaching medical students, assisting in coordination of teaching programs, and conducting an independent research program in his/her field of expertise. Salary to be commensurate with experience and qualifications with academic rank of assistant or associate professor. Starting date as soon as possible. Interested persons should send their application to **Dr. F. J. Grundbacher, Acting Chairman, Department of Basic Sciences, Peoria School of Medicine, 1400 West Main Street, Peoria, Illinois 61606. The University of Illinois is an Affirmative Action/Equal Opportunity Employer and encourages applications from members of minority groups and women.**

POSTDOCTORAL BIOCHEMISTRY

PG-membrane interaction; starting summer 1976. Send résumé to **Ruth Goertler, Personnel Representative, SRI, 333 Ravenswood Avenue, Menlo Park, California 94025. An Equal Opportunity Employer.**

POSTDOCTORAL POSITION

Postdoctoral position starting November 1976. Research on carotenoid function in photosynthesis. Applicants should have training in photosynthesis and bioenergetics, experience in spectrophotometric and fluorescence measurements and interpretation, and ability to fractionate membrane components. Send résumé to **H. Yamamoto, Department of Food Science and Technology, University of Hawaii, Honolulu, Hawaii 96825. Equal Opportunity Employer.**

POSTDOCTORAL POSITION: Position for 1 or 2 years at the Centre for Air Environment Studies and Department of Veterinary Science for a Ph.D. to study the effects of air pollutants (toxic particulates and gases) on the pathobiology of pulmonary function and resistance to disease. Experience in cytology and electron microscopy and/or immunology required. Starting date between 1 July 1976 and 1 October 1976. Salary open, depending on experience. Send résumé and references to **Dr. A. Zarkower, 102 Animal Industries Building, Department of Veterinary Science, The Pennsylvania State University, University Park, Pennsylvania 16802. An Equal Opportunity/Affirmative Action Employer.**

POSTDOCTORAL POSITION—MICROBIAL GENETICIST. Starting September or later (\$10,000 to \$11,000) to carry out a genetic analysis of ketone oxidation by pseudomonads. Send résumé to:

**A. J. Markovetz
Department of Microbiology
University of Iowa
Iowa City, Iowa 52242**

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Applications are invited for a position at the level of **RESEARCH ASSISTANT PROFESSOR** in the Occupational Health Section of the Department of Industrial Environmental Health Sciences, Graduate School of Public Health, University of Pittsburgh. The applicant is expected to develop independent research programs, contribute to existing research, and teach in the Department. The applicant must have a doctorate in chemistry or biochemistry with very strong organic analysis background, and postdoctoral experience in the health sciences field. Interested candidates should send curriculum vitae, transcripts, reprints, description of areas of research interest, and names of three possible references to **Dr. Nurtan A. Esmen, Department of Industrial Environmental Health Sciences, Graduate School of Public Health, University of Pittsburgh, Pittsburgh, Pennsylvania 15261, by 15 July 1976.**

POSITIONS OPEN

UNIVERSITY OF SASKATCHEWAN DEPARTMENT OF BIOLOGY

Invertebrate developmental biologist to teach comparative embryology and to develop and teach a class in invertebrate embryology. Will also be required to teach some elementary biology. Appointment at assistant professor level. Ph.D. required. Appointment to take effect after 31 December 1976. **Department of Biology, University of Saskatchewan, Saskatoon, Saskatchewan, Canada S7N 0W0.**

THE NATIONAL SOLAR ENERGY RESEARCH CONSORTIUM

The National Solar Energy Research Consortium (NSERC), consisting of a group of major private and public universities, is preparing a proposal to the Energy Research and Development Administration (ERDA), for the management and operation of the Solar Energy Research Institute (SERI). Accordingly, résumés are invited from engineers, scientists, mathematicians, social and policy scientists, and administrative and support personnel for possible employment in SERI. Availability in January 1977 is desired. Send résumés to:

**Dr. Ali B. Cambel
School of Engineering and
Applied Science
The George Washington University
Washington, D.C. 20052**

NSERC will be an Equal Opportunity and Affirmative Action Employer.

TUMOR IMMUNOLOGIST IMMUNOBIOLOGY RESEARCH CENTER UNIVERSITY OF WISCONSIN-MADISON

Applications are invited for a new faculty position available immediately. Cellular immunologist with at Least 3 years of postdoctoral experience, to work on problems related to cell-mediated immunity to tumors in human and animal systems, and with cell-mediated immunity to oncogenic and nononcogenic viruses. Send curriculum vitae and three letters of recommendation to the **Personnel Director, Immunobiology Research Center, 1150 University Avenue, Madison, Wisconsin 53706. The University of Wisconsin is an Equal Opportunity/Affirmative Action Employer.**

FELLOWSHIPS

POSTDOCTORAL TRAINEESHIP ENVIRONMENTAL HEALTH STATISTICS

The departments of Statistics and Oceanography at the Florida State University invite applications for a postdoctoral NIH traineeship from individuals interested in an interdisciplinary program of study in environmental health measurement and statistics. A Ph.D. is required preferably in statistics or biostatistics. Applicants with degrees in other areas having a strong background in applied statistics will also be considered. Apply to the program director: **Professor F. W. Leysieffer, Department of Statistics, Florida State University, Tallahassee, Florida 32306. Telephone: 904-644-3034.**

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POSTDOCTORAL TRAINING IN EYE RESEARCH AT YALE

The Ophthalmology and Visual Science Department at Yale University has received an award from the National Eye Institute to support training for basic scientists in eye research. Candidates holding an M.D. or Ph.D. with a background in biochemistry may request information on fellowships available immediately by writing **Dr. Ted W. Reid, Department of Ophthalmology and Visual Science, Yale University School of Medicine, New Haven, Connecticut 06510.** This program is restricted to U.S. citizens and permanent residents. *An Equal Opportunity/Affirmative Action Employer.*

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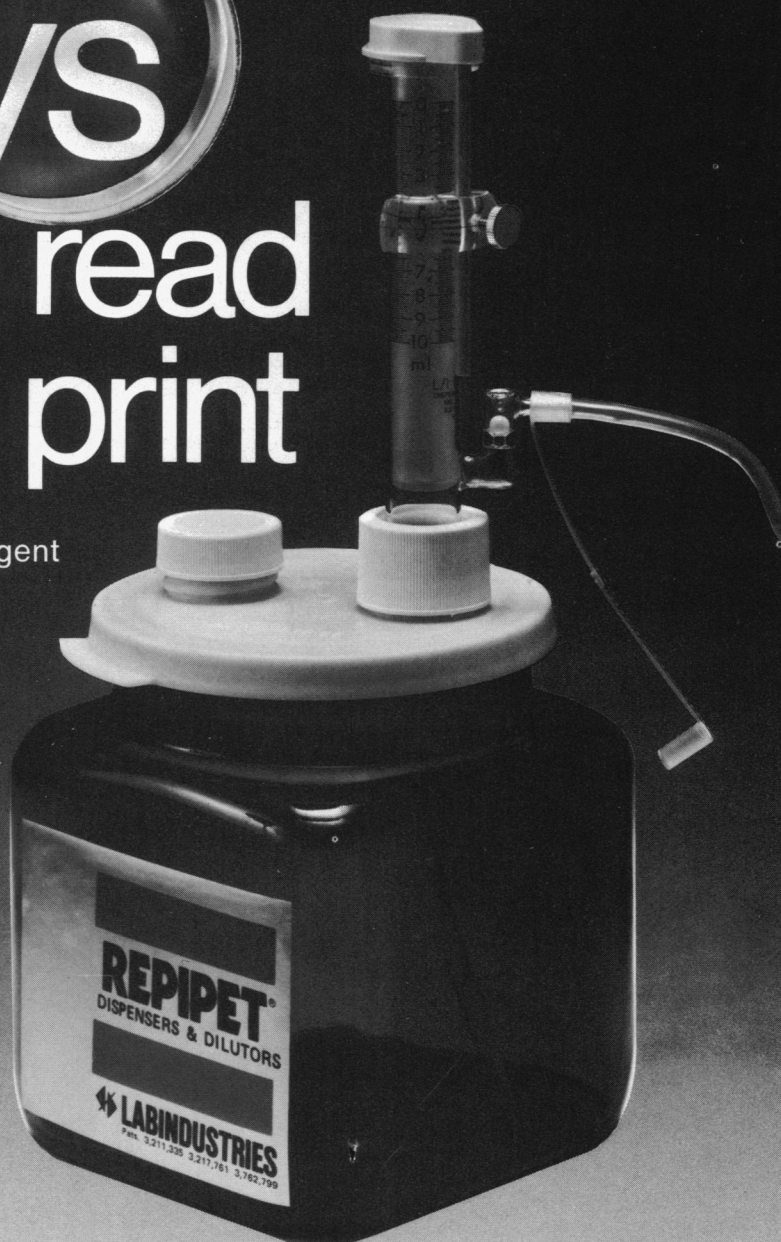
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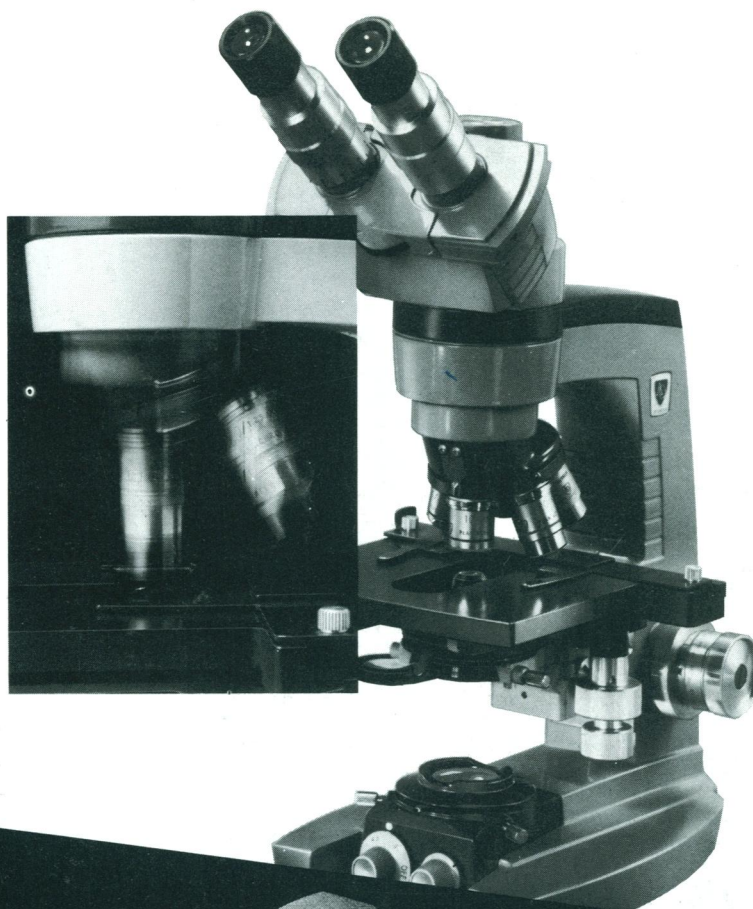
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