Personnel Placement

It is requested that only those employers who will not discriminate on the basis of race, sex, religion, color, or national origin submit positions open advertising.

POSITIONS WANTED: 40¢ per word, minimum charge \$10. Use of Box Number counts as 10 additional words. Payment in advance is required. These rates apply to individuals only. Personnel agencies and companies take display rate for all advertisina.

POSITIONS OPEN: \$110 per inch. No charge for Box Number. Rates net. No agency commission allowed for ads under 4 inches. No cash discount. Ads over 1 inch will be billed to the nearest half inch. Payment in advance is required except where satisfactory credit has been established.

COPY for ads must reach SCIENCE 4 weeks before issue date (Friday of every week). Send copy for Personnel Placement adver-tising to:

SCIENCE, Room 211 1515 Massachusetts Ave., NW Washington, D.C. 20005

Replies to blind ads should be addressed as follows:

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

POSITIONS WANTED

Biochemist/Molecular Biologist, Ph.D. 1967, 6 years' experience as research associate and lecturer, strong background in nucleic acid-protein synthesis, publications, seeks research/academic position. Box 297, SCIENCE.

Ph.D. Biochemist, female, seeks position in Los Angeles area, California, prefer medical research, familiar with nucleic acids and protein synthesis, protein isolation and characterization, immunochemistry and clinical chemistry. Box 286, SCIENCE.

Consultation in Veterinary and Comparative Histopathology: Board certified veterinary pathologist will examine stained sections of animal tissues for toxicologic, research, or diagnostic studies, Box 287, SCIENCE. 6/8, 15

Ph.D., Engineering background, experience in health-related research, seeks academic or industrial position. Box 298, SCIENCE. X

Mathematically oriented and trained physics Ph.D., experienced in behavioral research, programming, statistics, seeks position in the biological, social research: modeling, simulation. Box 299, SCIENCE.

Minicomputer Specialist, Real-time data acquisition, signal processing, Fourier methods, instrumentation control. I can make it work. Write D. Hindman, 1307 Falcon, Austin, Texas 78745. 6/8, 15

Pharmacologist, Ph.D. (7 years' teaching and research experience; over 60 publications in toxicology, blood coagulation, behavioral and addiction; edited two books on addiction) seeks academic, research position in government or industry at senior level. Box 292, SCIENCE. 6/1

Soil Chemist/Microbiologist, Ph.D. Research experience in herbicide/pesticide degradation in natural systems and in microorganisms, Also experienced in basic soil chemistry. Publications, Seeks challenging position in research or research-teaching. Box 300, SCIENCE.

Zoologist. Ph.D. seeks teaching position. Interests include developmental biology, histology, biometry, histological technique, comparative anatomy. Box 301, SCIENCE.

POSITIONS OPEN

ASSISTANT PROFESSOR—Fall 1973. Animal virology. Strong biochemistry background required. Oncogenic virus research interests and postdoctoral experience desirable. Send résumé, transcripts and three reference letters to: Chairman, Department of Microbiology and Biochemistry, Idaho State University, Pocatello, Idaho 83201. An Equal Opportunity/Affirmative Action Employer. Women and minority group applications encouraged. Closing date: 21 June 1973.

ASSISTANT PROFESSOR

Applications are invited from physicians with a commitment to academic medicine for appointment to the rank of Assistant Professor in the Division of Gastroenterology within the Department of Internal Medicine, University of Michigan Medical School. The successful candidate may be assigned to the affiliated Veterans Administration Hospital on a part-time or full-time basis, Send résumé to Box 302, SCIENCE, A Nondiscriminatory Affirmative Action Employer.

THE UNIVERSITY OF BRITISH COLUMBIA FACULTY OF MEDICINE Department of Biochemistry

Applications are invited for the position of Professor and Head of the Department of Biochemistry. The applicant should hold a Ph.D or M.D. degree and be well qualified in teaching and research in Biochemistry. The successful applicant would be responsible for: (a) administration of departmental affairs; (b) organization of undergraduate and graduate teaching programmes; (c) fostering development of research programmes in the department; (d) active participation in teaching and research.

The salary is negotiable, according to qualifications and experience.

Date of appointment is open.

Interested applicants should send a full curriculum vitae and the names and addresses of three referees to: Dean David V. Bates, Faculty of Medicine, University of British Columbia, Vancouver 8, British Columbia, Canada. Closing date for applications is 31 July 1973.

ASSISTANT OR ASSOCIATE PROFESSORSHIP

Ph.D. Biochemist, available 25 August 1973. Should have strong interest in undergraduate education. Teaching duties will incude general biochemistry and general chemistry. Send résumé to Chairman, Chemistry Faculty, University of Colorado, Colorado Springs, Colorado 80907.

CHAIRMAN, DEPARTMENT OF BOTANY

The Ohio State University invites qualified applicants to apply for the position of Chairman, Department of Botany. Applicant should be an established scientist interested in plant science with demonstrable administrative ability. Send curriculum vitae, list of references, and other pertinent information to Dr. Clarence E. Taft, Department of Botany, The Ohio State University, 1735 Neil Avenue, Columbus, Ohio 43210, before 1 July 1973. An Equal Opportunity Employer.

COORDINATOR FOR REMOTE SENSING FACILITY. University-based, service unit oriented toward both applications and research. Applicant should have interpretive ability in photography and imagery with expertise in Natural Resource applications. Potential for interdepartmental research and teaching responsibility. Salary open with advanced degree preferred or equivalent experience. Position open 1 July 1973. Send applications and résumé to:

Dr. Marvin P. Carlson

Dr. Marvin P. Carlson

Dr. Marvin P. Carlson 113E Nebraska Hall University of Nebraska Lincoln, Nebraska 68508

An equal opportunity employer

Director of Commercial Development—Position available in young, vigorous, and rapidly growing company. Essence of position is ability to take concepts, the feasibility of which will be demonstrated in company's strong, existing research department, and to translate such concepts seasonably into competitive, commercial products. Advanced degrees in biological or medical sciences or bioengineering desirable. Applicant should have experience turning out finished products in medical or clinical diagnostics or pharmaceuticals or related fields. Personnel in this company are aware of this recruitment. Box 303, SCIENCE.

POSITIONS OPEN

FACULTY POSITION

Ph.D. Ecologist with interest in Vertebrates.
Assistant Professor in small liberal arts college, Expected to help manage large wildlife sanctuary and field station. Equal opportunity employer.
Beginning in July 1973.

Paul Biebel
Department of Biology
Dickinson College
Carlisle, Pennsylvania 17013

ENVIRONMENTAL BIOLOGIST. Interdisciplinary program in Environments and People, concentrating on the interaction of human societies within natural ecosystems, has a position for an environmental biologist. The program is looking for an individual with an understanding of bioecology, a sense of social concern, a commitment to teaching, and an interest in public affairs. Position and salary are open based upon experience and qualifications. Ph.D. and experience preferred,

Prospective applicants are reminded that Sangamon State University is an equal opportunity employer and are requested resume to Jerry L. Wade, Environments and People Program, Sangamon State University, Springfield, Illinois 62708,

ENVIRONMENTAL SCHOOL

A 1-year program, focus on solving real problems in a humanistic setting for college-age students. Seeks M.S. or Ph.D. in Natural Science or Chemistry, 3 to 5 years' experience teaching, environmentally literate. Habitat, Box 136, Belmont, Mass. 02178.

IMMUNOLOGIST

For a 2- to 3-year position with potentially permanent appointment. To start a laboratory of cellular immunity in central nervous system, in a neurological research unit in the Southwest. Salary negotiable. Prefer Ph.D. with some post-doctoral experience. Send curriculum vitae and references to

Box 304. SCIENCE

Box 304, SCIENCE

INSTRUCTOR

INSTRUCTOR

Position available in the Department of Dermatology, University of Michigan Medical School, Candidate should have approximately 2 years of postdoctoral training in a biochemical or molecular biology laboratory. Expertise in the steroid area in general and especially in the area of glucocorticoids effects required. A general knowledge of the cyclic AMP system is important. Send résumé to Box 305, SCIENCE.

A Nondiscriminatory Affirmative Action Employer.

LABORATORY DIRECTOR

Direct operations of a contract toxicologial laboratory. Ph.D. or D.V.M. degree with training in toxicology necessary. Five to 10 years of experience in toxicology testing and customer and governmental regulatory contacts.

Send résumé and salary requirements to:

Box 306, SCIENCE

An Equal Opportunity Employer

MANAGING EDITOR

MANAGING EDITOR

For the Proceedings of the National Academy of Sciences located in Washington, D.C. Ph.D. in biochemistry or related field plus substantial editorial experience required. Will supervise small professonal staff. Send résumé to: Dr. Robert W. Johnston, Executive Office, National Academy of Sciences, 2101 Constitution Ave., NW, Washington, D.C. 20418. An Equal Opportunity Employer.

SYMPOSIA IDEAS INVITED FOR 1974 ANNUAL MEETING

Members have been invited to submit proposals for the 1974 Annual Meeting in San Francisco, California, 24 February to 1 March 1974. This meeting initiates a new plan for molding AAAS annual meetings in the spring. Some general themes being considered are: science and technology around the Pacific, science and technology in western America, and looking toward the 1990's.

Some examples might be: ecology of the Pacific coastal zone, modern urban transportation in the light of BART, astronomy and astrophysics in western America, possible energy budgets of the United States by 1990, looking toward world systems management in the 1990's, and the large space telescope.

The proposal should consist of the symposium title, name and address of the arranger, a 300-word synopsis of the purpose and content of the symposium, a list of potential participants, and a brief description of the audience expected. It should be sent to **Dr. Howard D. Greyber, AAAS Director of Meetings**, 1515 Massachusetts Avenue, NW, Washington, D.C. 20005.

If, after review, a preliminary proposal is accepted, a detailed program will be required by 15 July and final program copy by 15 October. A strong response from the AAAS membership will help shape a stimulating, vigorous program worthy and representative of the world's most energetic and productive scientific community and will, in turn, enhance a beneficent influence of science and technology upon society.

Swiss Federal Institute of Technology Zurich

Applications or nominations are invited for the permanent position of an

Associate Professor in Geophysics

(ausserordentliche Professur)

and Head of the Rock Magnetism Laboratory in the Institute of Geophysics. Qualified candidates should have a strong background in geomagnetism and interest in solid-state physics. Duties will include instruction in applied and theoretical geophysics as well as active research in rock and palaeomagnetism. Specialists in rock physics will also be considered.

Applications giving details of qualifications, experience and research interests should be sent before 31 August 1973 to: Präsident der Eidgenossischen Technischen Hochschule Zurich, CH-8006 Zurich (Switzerland).

ESCIENTIST DRUG METABOLISM

, Immediate opening in our Research Division for a Ph.D. Biochemist with an academic solid training In organic chemistry.

In organic chemistry.

The qualified individual should be a self-starter, able to work harmoniously with others in a multi-directional environment. Emphasis will be in the area of pharmacokinetics in the identification and investigation of metabolites with a wide range of drugs. Duties will include the supervision of technical personnel and the desire to initiate independent research. Salary for this position is in the midteens.

Ortho is located on a 200 acre campus in Central New Jersey and offers a progressive scientific environment complimented by an excellent fringe benefit package.

Qualified individual should forward their curriculum vitae in with present salary and requirements in complete confidence to Mr. Robert T. Moran, Manager of Employment.



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Route 202, Raritan, New Jersey 08869 (A Johnson-Johnson Company)

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INFORMATION SCIENTIST

Abbott Laboratories is looking for a qualified professional to evaluate, abstract, and code current medical-scientific literature—prepare literature surveys and bibliographies and actively participate with research project teams in the vital areas of Pharmacology, Pharmacy, Clinical Medicine or Organic Chemistry. Position requires a B.S./M.S./Ph.D. in Organic Chemistry or Biomedical Sciences and the desirability of foreign language skills and writing experience.

Abbott is an expanding, international health care products company with a lot to offer—competitive salary, full benefits and profit sharing. If you meet these requirements, rush résumé and salary history in confidence to:

J. B. Gaddis Professional Employment



Electron Microscopist

Lederle Laboratories, a leading pharmaceutical manufacturer, offers an opportunity for an Electron Microscopist to participate in the safety evaluation of new drugs. This person must be knowledgeable and experienced in electron microscopy and should have training in pathology, anatomy, or cell biology.

Primary responsibilities of the candidate include the detection and evaluation of ultrastructural and light microscopic changes in cells and tissues.

Liberal benefits and excellent working conditions. Location within 30 minutes of New York City. Please send résumé and salary history to Mr. C. L. Hill.



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An Equal Opportunity Employer M/F

PhD PHARMACOLOGISTS

2 PhD Pharmacologists are required to provide the scientific expertise necessary for the evaluation and summarization of pre-clinical and clinical studies. Industrial experience and/or post-doctoral training preferred, but not required. Salary commensurate with training and experience. Send curriculum vitae to:

ROBERT MOBERG

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DIVISION OF RICHARDSON-MERRELL, INC. 110 East Amity Road, Cincinnati, Ohio 45215 An Equal Opportunity Employer M/F

MARINE RESOURCE ECONOMIST

For graduate professional interdisciplinary college of marine studies, East Coast university. Ph.D. in economics, commitment to teaching and re-

Box 307, SCIENCE

SENIOR FACULTY IN MEDICINAL CHEMISTRY—An experienced individual with an active research program, publications and teaching experience in synthetic organic chemistry is being sought to head an academic Division of Medicinal Chemistry with the Division of Pharmacological Sciences. Teaching responsibilities will include graduate instruction in medicinal chemistry, chemical biology and pharmacology. The Health Sciences Center is an equal opportunity employer and applications from members of minority groups or women are welcome. Address reply to Dr. Arthur Upton, Dean, School of Basic Health Sciences, State University of New York at Stony Brook, Stony Brook, Long Island, New York 11790.

NEUROANATOMIST-NEUROBIOLOGIST

NEUROANATOMIST—NEUROBIOLOGIST
Applications are invited for a faculty position in the Department of Anatomy, University of Saskatchewan, Saskatoon, Canada. The successful applicant will be required to teach neuroanatomy to medical and dental students and conduct research in the area of neurobiology. Good tissue culture, electron microscopy and cytochemistry facilities. Salary according to qualifications and experience. Further information can be obtained from Professor S. Fedoroff, Head, Department of Anatomy, University of Saskatchewan, Saskatoon, Canada S7N OWO.

THE HEALTH SCIENCES CENTER, STATE UNIVERSITY OF NEW YORK AT STONY BROOK, an equal opportunities employer, is seeking to establish an interdepartmental program in the neurosciences. Openings exist for a group of senior faculty members, who have demonstrated ability to collaborate on chemical and electrophysiological research and graduate training on the cellular biology of learning, with special reference to "simple" systems. Applicants must have demonstrated outstanding investigative ability. Arthur C. Upton, Dean, School of Basic Health Sciences.

Three Postdoctoral Fellows, ovarian biochemical research: 1) Protein chemist, hormone receptor interaction, expertise affinity labeling, affinity chromatography. 2) Organ, tissue or cell culture, Biologist. 3) Prostaglandin Biochemist. Salary—open. Minimum 2 years. Apply with curriculum vitae to Dr. J. Marsh, Endocrine Laboratory, University of Miami School of Medicine, P.O. Box 875, Biscayne Annex, Miami, Florida 33152.

In accordance with policy of Stanford University, the Department of Surgery of Stanford University School of Medicine invites applications for qualified candidates in the field of pediatric surgery. Candidates must be under the age of 42 and must have passed the General Surgical Boards, as well as completed training in pediatric surgery at an accredited institution. Additional specialty training, including research experience in pediatric fields, is desirable.

Stanford University has a faculty affirmative action program. Interested candidates are requested to submit their curriculum vitae to Dr. Roy Cohn, Professor of Surgery, Stanford University School of Medicine, Stanford, California 94305.

PHARMACOLOGIST

Position now open for Associate or Assistant Professor of Pharmacology (Ph.D. and/or M.D.) experienced and interested in teaching general pharmacology. Research interests may be in any area, but preference for autonomic pharmacologist.

gist.
Send curriculum vitae and three reference
names to Dr. Carl J. Pfeiffer, Pharmacology
Search Committee, Faculty of Medicine, Memorial University of Newfoundland, St. John's,
Newfoundland, Canada,

POSTDOCTORAL FELLOW

Immediate position for recent Ph.D. or Ph.D. with 1 to 2 years of experience in Biochemistry to study the Biochemistry of Enzymatic Modification of Proteins. Position is available for 1 to 2 years. Applicants should write to: Dr. Woon Ki Paik, Fels Research Institute, Temple University School of Medicine, Philadelphia, Pa. 19140.

Applications invited for two positions as Postdoctoral Resea Neuroscientists.

1) Ph.D. in erimental Psychology. To perhophysical and evoked cortical
response measurements in man. Programming experience with PDP-9 essential.

2) Ph.D. in Linguistics. To perform experiments
on hemispheric dominance in man using linguistic
and nonlinguistic signals, Experience with EEG
recordings and their analysis wth PDP-12 programs essential.

Send curriculum vitae reprints and the names

Send curriculum vitae, reprints, and the names and addresses of three referees to Administrative Services Officer, University of California, San Diego, School of Medicine, Department of Neurosciences, La Jolla, California 92037. A Nondiscriminatory Affirmative Action Employer.

Inquiries welcomed from Ph.D. Scientists seeking position at level of Junior Assistant Professor, Department of Medicine, West Coast. Duties will be mainly research, but some teaching involved. Two positions available. Earliest possible appointment date desirable.

Areas of research experience required: Position 1. Cytotoxicity of lymphocytes: Position 2. Chemistry and Immunology of Tissue Antigens. Embryonic and phase specific antigens.

Box 308, SCIENCE

SENIOR FACULTY POSITION CORNELL UNIVERSITY

Position available in the Graduate School of Nutrition for an M.D. with research interests relating nutrition to disease. The University is an equal opportunity employer. Please submit curriculum vitae with most relevant publications to: Office of the Dean, Graduate School of Nutrition, Cornell University, Ithaca, New York 14850.

FACULTY POSITIONS IN SYSTEMS ENGINEERING

Assistant or Associate Professor, Ph.D. Preferred but not exclusive areas of interest are: (1) Industrial Systems Engineering, or (2) Urban and Transportation Systems Engineering. Candidate will be expected to develop independent research program. Send résumé to:

Dr. Joseph H. Engel, Head
Department of Systems Engineering
University of Illinois at Chicago Circle
Chicago, Illinois 60680

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POSITIONS OPEN

Applications are invited from individuals with training in VERTEBRATE ZOOLOGY-MAM-MALOGY for a position commencing 27 August 1973. Demonstrated competency in teaching is essential. Research is encouraged as it relates to student involvement. Teaching involves introductory and advanced courses. Credentials must include a curriculum vitae, official undergraduate and graduate transcripts, and three letters of reference, and are to be sent to: Dr. J. Robert Harrison, Department of Zoology, State University College, Oswego, N.Y. 13126. Oswego is an Equal Opportunity/Affirmative Action Employer. plover.

Veterinary Toxicologist

To conduct research on the toxicity of environmental chemicals to laboratory animals and wild-life. Send résumé to Gulf South Research Insti-tute, Post Office Box 1177, New Iberia, Louisiana

An Equal Opportunity Employer

ZOOLOGIST or BIOLOGIST-Ph.D.

The Biology Department of Gallaudet College in Washington, D.C., is accepting applications for a teaching position at the level of Assistant Professor. Salary \$11,000. Applicants should have very strong interest in teaching. Experience in education of deaf or knowledge of communication with deaf desired but not essential. Send applications to Dr. Eveline B. Lloyd, Biology Department, Gallaudet College, Washington, D.C.

AN EQUAL OPPORTUNITY EMPLOYER

CONFERENCE

SECOND INTERNATIONAL CONFERENCE ON THE BIOLOGY AND PHARMACOLOGY OF CYCLIC AMP.

To be held at the University of British Columbia, Vancouver, Canada, 8 to 11 July 1974. The Scientific Secretaries are G. A. Robison (Houston) and G. I. Drummond (Vancouver). Symposium topics will include adenylate cyclase and hormone-receptor interactions; phosphodiesterases; protein kinases; cyclic GMP, cyclic nucleotide analogs; the role of cyclic nucleotide in a variety of cellular processes, disease states and drug action. The conference will also feature a limited number of short communications.

For information, registration and abstract forms, write to Dr. G. I. Drummond, Department of Pharmacology, Faculty of Medicine, University of British Columbia, Vancouver 8, Canada, (604)228-2703.

COURSES

Positions are available for the following courses at the Bermuda Biological Station:

1) ADAPTIVE DIVERSITY IN MARINE COMMUNITIES. 11 June to 7 July. Dr. Robert Barnes, Gettysburg College.
2) DEVELOPMENTAL PHYSIOLOGY OF MARINE ANIMALS. 9 July to 4 August. Dr. H. Eugene Lehman, University of North Carolina.
3) ECOLOGY OF MARINE FISHES. 6 August to 18 August. Dr. J. Burnett-Herkes, Director, Bermuda Aquarium.
4) ENVIRONMENTS OF CARBONATE DEPOSITION. 6 August to 18 August. Dr. C. Gebelein, Bermuda Biological Station.
For details, write: Director, Bermuda Biological Station, St. George's West, Bermuda.

INTRODUCTORY ELECTRON MICROSCOPY

Cornell University, 9-20 July 1973

Cornell University, 9-20 July 1973

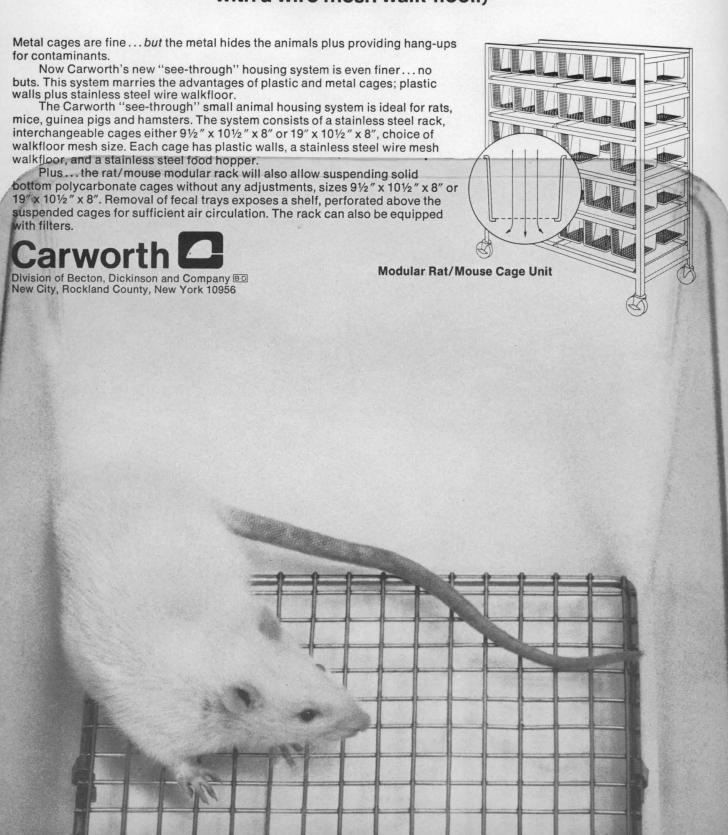
A course designed for scientists, either physical or biological, who would like to apply microscopical techniques in their research or development programs. The course provides a sound basis upon which participants can develop technical competence in microscopy. The course will consist of lectures, demonstrations, and laboratory practice. Instructors are Sydney S. Breese, Jr., of the Plum Island Animal Disease Laboratory and George G. Cocks of Cornell. For more information write or call Professor George G. Cocks, Olin Hall, Cornell University, Ithaca, New York 14850/607/256-5268.

GRADUATE STUDY

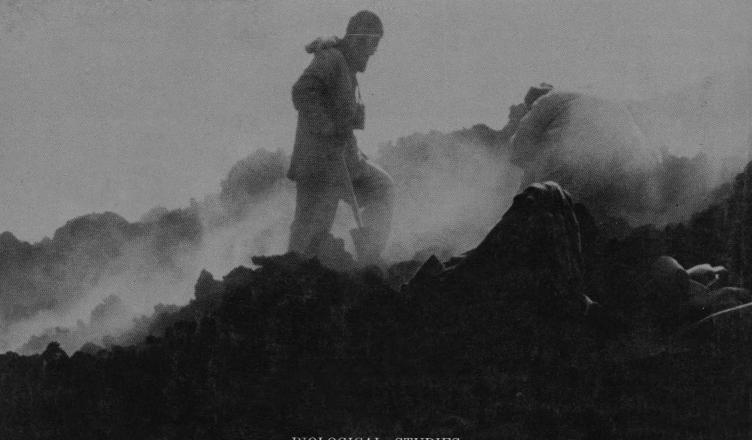
Postdoctoral Instructors and Predoctoral Graduate Students in Immunology, Microbiology, Virology, Molecular Biology, Cellular Biology, and Oncology, Prerequisites—Predoctoral applicants: B.S. degree in biology, chemistry, or related fields with B average or better. Postdoctoral applicants: recent Ph.D. in Microbiology, Biochemistry, or related subjects. U.S. citizenship required. Applications should be submitted before 1 July to Dr. Sheldon Dray, Head, Department of Microbiology, University of Illinois Medical Center, P.O. Box 6998, Chicago, Illinois 60680.

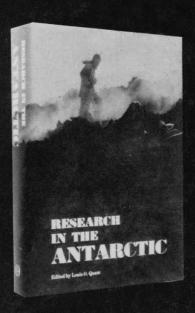
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