Psychopharmacology of Aggression. L. Valzelli, Ed. Karger, Basel, 1978. viii, 180 pp. \$42.50. Modern Problems of Pharmacopsychiatry, vol. 13.

Psychopolitics. Milton Greenblatt. Grune and Stratton, New York, 1978. xx, 278 pp. \$18.50.

Putnam's Geology. Peter W. Birkeland and Edwin E. Larson. Oxford University Press, New York, ed. 3, 1978. x, 660 pp., illus. + plates. \$16.

Quinolines. Part 1. Gurnos Jones, Ed. Interscience (Wiley), New York, 1978. x, 898 pp., illus. \$100. The Chemistry of Heterocyclic Compounds, vol. 32.

Reflection Seismology. A Tool for Energy Resource Exploration. Kenneth H. Waters. Wiley-Interscience, New York, 1978. xvi, 378 pp., illus. \$28.

Regulation of Fatty Acid and Glycerolipid Metabolism. Proceedings of a symposium, Copenhagen, 1977. Raymond Dils and Jens Knudsen, Eds. Pergamon, New York, 1978. viii, 120 pp., illus. \$16. Proceedings of 11th FEBS Meeting, vol. 46. To order this book circle No. 400 on Readers' Service Card

Regulatory Mechanisms of Carbohydrate Metabolism. Proceedings of a symposium, Copenhagen, 1977. Viggo Esmann, Ed. Pergamon, New York, 1978. x, 360 pp., illus. \$43. Proceedings of the 11th FEBS Meeting, vol. 42. To order this book circle No. 401 on Readers' Service Card

Regulatory Proteolytic Enzymes and Their Inhibitors. Proceedings of a symposium, Copenhagen, 1977. Staffan Magnusson, Martin Ottesen, Bent Foltmann, Keld Danø, and Hans Neurath, Eds. Pergamon, New York, 1978. viii, 236 pp., illus. \$30. Proceedings of the 11th FEBS Meeting, vol. 47: To order this book circle No. 402 on Readers' Service Card

Structural Pattern Recognition. T. Pavlidis. Springer-Verlag, New York, 1977. xii, 304 pp., illus. \$19.80. Springer Series in Electrophysics, vol. 1. To order this book circle No. 403 on Readers' Service Card

Studies in Automatic Programming Logic. Zohar Manna and Richard Waldinger with contributions by Shmuel Katz and Karl Levitt. North-Holland, Amsterdam, 1977 (U.S. distributor, Elsevier, New York). viii, 192 pp., illus. \$15.95. Artificial Intelligence Series. The Computer Science Library.

Sun/Earth. How to Use Solar and Climatic Energies. Richard L. Crowther. Scribner, New York, 1978. viii, 232 pp., illus. Paper, \$8.95.

Systems Engineering for Power. Program Report, January 1978. U.S. Department of Energy, Washington, D.C., 1978 (available from National Technical Information Service, Springfield, Va.). vi, 200 pp. Paper, \$9.25; microfiche, \$3.

Technical Data on Fuel. J. W. Rose and J. R. Cooper, Eds. Halsted (Wiley), New York, ed. 7, 1977. xii, 344 pp., illus. \$70.

A Technology Assessment of Coal Slurry Pipelines. Office of Technology Assessment, Washington, D.C., 1978 (available from the Superintendent of Documents, Washington, D.C.). xvi, 156 pp., illus. Paper, \$3.25.

Die Tenebrioniden des papuanischen Gebietes. I. Strongyliini (Coleoptera: Tenebrionidae). Z. Kaszab. Department of Entomology, Bishop Museum, Honolulu, 1977. 220 pp., illus. Paper, \$10.50. Pacific Insects Monograph 33.

Textbook of Veterinary Parasitology. Norman D. Levine. Burgess, Minneapolis, 1978. xii, 236 pp., illus. \$34.95.

The Tides of the Planet Earth. Paul Mel-

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chior. Pergamon, New York, 1978. xii, 610 pp., illus. \$75. To order this book circle No. 404 on Readers' Service Card

Time Bomb. LNG: The Truth about Our Newest and Most Dangerous Energy Source. Peter van der Linde with Naomi A. Hintze. Doubleday, Garden City, New York, 1978. vi, 184 pp. \$6.95.

Tomol. Chumash Watercraft as Described in the Ethnographic Notes of John P. Harrington. Travis Hudson, Janice Timbrook, and Melissa Rempe, Eds. Art work by Jane Jolley Howorth. Ballena Press, Socorro, N.M., and Santa Barbara Museum of Natural History, Santa Barbara, Calif., 1978. 198 pp., illus. Paper, \$8.95. Ballena Press Anthropological Papers No. 9.

Toward a Metric of Science. The Advent of Science Indicators. Papers from a conference, Stanford, Calif., June 1974. Yehuda Elkana, Joshua Lederberg, Robert K. Merton, Arnold Thackray, and Harriet Zuckerman, Eds. Wiley-Interscience, New York, 1978. xiv, 354 pp. \$19.95. Science, Culture, and Society.

Trace Metals in the Environment. Ivan C. Smith and Bonnie L. Carson. Ann Arbor Science, Ann Arbor, Mich., 1978. Vol. 1, Thallium. xii, 394 pp. \$24. Vol. 2, Silver. xxvi, 470 pp. \$24. Vol. 3, Zirconium. xviii, 406 pp. \$24. Vol. 4, Palladium and Osmium. Ivan C. Smith, Bonnie L. Carson, and Thomas L. Ferguson. x, 194 pp. \$24.

Transactions of the Seventh Prague Conference on Information Theory, Statistical Decision Functions, Random Processes and of the **1974 European Meeting of Statisticians**. Vol. A. Prague, Aug. 1974. Reidel, Boston, 1977. 602 pp. \$52.

Transient Techniques in Electrochemistry. Digby A. Macdonald. Plenum, New York, 1977. xii, 330 pp., illus. \$37.50.

The Twenty-Ninth Day. Accommodating Human Needs and Numbers to the Earth's Resources. Lester R. Brown. Norton, New York, 1978. xvi, 364 pp., illus. Cloth, \$11.95; paper, \$3.95. A Worldwatch Institute Book.

Ulcerative Colitis and Crohn's Disease and Other Diseases of the Alimentary System in Childhood. Papers from a symposium, Obergurgl, Austria, Jan. 1976. P. P. Rickham, W. Ch. Hecker, and J. Prévot, Eds. Urban & Schwarzenberg, Baltimore, 1978. vi, 242 pp., illus. \$24.50. Progress in Pediatric Surgery, vol. 11.

Understanding Chemical Patents. A Guide for the Inventor. John T. Maynard. American Chemical Society, Washington, D.C., 1978. 146 pp. \$12.50. To order this book circle No. 405 on Readers' Service Card

The Visual System in Vertebrates. Frederick Crescitelli, Ed. Springer-Verlag, New York, 1977. xii, 816 pp., illus. \$16.40. Handbook of Sensory Physiology, Vol. 7/5. To order this book circle No. 389 on Readers' Service Card

Weeding and Sowing. Preface to a Science of Mathematical Education. Hans Freudenthal. Reidel, Boston, 1978. x, 314 pp. \$34.

Wernher von Braun. Erik Bergaust. National Space Institute, Washington, D.C., 1978 (distributor, Stackpole Books, Harrisburg, Pa.). xviii, 590 pp., illus. \$13.95.

World Minorities. Vol. 1. Georgina Ashworth, Ed. Quartermaine House, Sunbury, England, 1977 (U.S. distributor, Transatlantic Arts, Levittown, N.Y.). xxii, 168 pp. Paper, \$7.50.

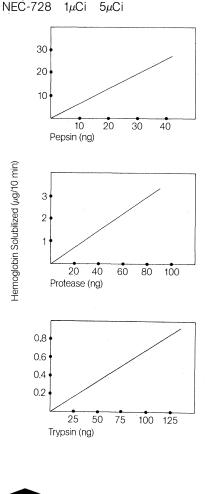
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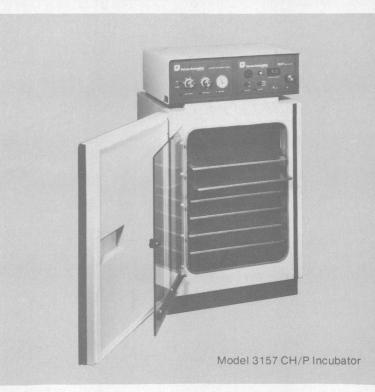


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Personnel Placement

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Biomathematician (Ph.D., 1974). Currently in a med-ical statistics department. Seeks teaching-research position in a mathematics, statistics, or inter-disciplinary department. Ph.D. thesis in probability theory. Experience includes applied n-dimensional analysis, applications in pharmacology and clinical medicine, as well as error studies in various quan-titatively analytic determination techniques. August 1979. Box 298, SCIENCE. X

Clinical Biochemist, M.T., Ph.D. (biochemistry), specialist in chemistry (ASCP), clinical chemist (NRCC), Board-eligible. Broad experience in clini-cal chemistry, radioimmunoassay, automation, ra-dioreceptor assay, method development; publica-tions. Seeks hospital/medical school position. Box 299, SCIENCE. X

Immunochemist. Ph.D., M.S. pathology. Major in-terest in elastin metabolism. Capacity for original, independent research and ability to teach at graduate and undergraduate levels. Citation index good in-dication of research status. Seeks academic or in-dustrial position. D. W. Smith, Dental Anatomy, University of Pennsylvania, 4001 Spruce Street, Philadelphia, Pennsylvania 19104. Telephone: 215-243-8811. X

Immunologist. Ph.D. microbiology. Extensive experience in tumor immunology, tissue culture, cancer research. Strong background in biochemistry and laboratory techniques. Publications. Box 288, SCI-DICE 9/15,22

Toxicologist/Pharmacologist, Ph.D. 1971. Two and one-half years of NIH postdoctoral experience in en-vironmental toxicology. Presently working as re-search assistant professor of pediatrics and pharma-cology in a major university. Research interests: bio-chemical mechanisms of drug induced teratogenesis, regulation and environmental modification of drug disposition and action. Publications: developmental pharmacology and toxicology. Wide supervisory and research experience in analytical and biochemi-cal techniques. Desires industry, institute, or aca-demic position. Box 295, SCIENCE. X

Virologist/Immunologist. D.V.M., Cornell Ph.D. Sixteen years of experience in mammalian and avian virology/immunology research, cell-culture work. Publications. Seeks research position in academia, government, or industry. Available immediately. Box 297, SCIENCE. X

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ANATOMIST, Ph.D. Responsible for teaching gross anatomy and human dissection.

Accredited chiropractic college. Possible immediate appointment. Salary negotiable.

Send letter of application, three recent letters of ref-erence, and curriculum vitae information to: Dr. Gerald R. Konsler, Assistant Executive Secretary, Council on Chiropractic Education, 3209 Ingersoll Avenue, Des Moines, Iowa 50312.

ASSISTANT PROFESSOR, BIOLOGICAL SCI-ENCES (repeat announcement). Open positions for scientists with promise of creative and dynamic re-search programs in: (i) behavioral and neurobiology, (ii) cell biology, and (iii) tumor virology or micro-biology. Post-Ph.D. experience and quality of re-search will be prime considerations. Appointee will be expected to teach standard course and to develop specialty course for advanced undergraduate and graduate students. For someone who may be espe-cially qualified, the rank of associate professor may be considered. Applications from women and mem-bers of minority groups will be particularly welcome. Send résumé to: A. Eisenstark, Director, Division of Biological Sciences, Tucker Hall, University of Mis-souri-Columbia, Columbia, Missouri 65211. ASSISTANT PROFESSOR, BIOLOGICAL SCI-

15 SEPTEMBER 1978

POSITIONS OPEN

ADMINISTRATIVE OFFICER

Private organization in Washington, D.C., seeks a program officer to administer postdoctoral award programs for advanced research experience and pro-fessional development. The program officer will par-ticipate in the determination and implementation of program policies, share administrative duties, and assume responsibility for management of programs as assigned. Significant travel within the United States is required. Applicants should be highly energetic and have

a broad knowledge of the natural sciences, engineering and technology, plus laboratory research experi-ence (preferably at the doctoral level), and be familiar with the graduate education process. Prior expe-rience in the management of people-oriented programs preferred.

programs preferred. Excellent compensation and fringe benefits (in-cluding TIAA/CREF) and a challenging opportunity to contribute meaningfully to advanced education in the sciences and engineering. Women and minority persons are encouraged to consider this opportu-nity. Please submit résumé and salary history to: **Box 291, SCIENCE.** An Equal Opportunity Employ-er.

ANALYTICAL LABORATORY MANAGER. Two-ANALYTICAL LABORATORY MANAGER. Two-year appointment available I September for manager of an analytical laboratory responsible for quan-titation of drugs in human body fluid (renewable de-pending on performance and funding). Basic knowl-edge in wet chemistry techniques and experience in operation and maintenance of analytical instrumen-tation (GC, HPLC, TLC, RIA, and fluorescence) es-captial. BD desirable hut net mendetory. Science tation (GC, HPLC, 1LC, KIA, and fluorescence) es-sential. Ph.D. desirable but not mandatory. Salary negotiable depending on training and experience. Send curriculum vitae to: Charles Hignite, Clinical Pharmacology, University of Kansas Medical Center, Kansas City, Kansas 66103.

ANIMAL LEARNING PSYCHOLOGIST

Animal learning psychologist, rank open. Must be able to teach introductory course in drugs and be-haviour. Research interest to dovetail with present faculty. Salary in accordance with rank and qualifi-cations. Starting date is 1 January 1979, if possible. Apply to: Dr. G. R. Skanes, Head, Department of Psychology, Memorial University of Newfoundland, St. John's, Newfoundland, Canada A1B 3X9. Position subject to availability of funds.

ASSISTANT PROFESSOR

The Salk Institute is seeking candidates for basic research positions at the assistant professor level in the area of cell differentiation and developmental bi-ology related to cancer. Candidates are expected to establish their own research programs and seek out-side funding. Candidates should send curriculum vitae, publication list, names of references, and a de-scription of proposed research to:

Dr. Walter Eckhart, Director Armand Hammer Center for Cancer Biology The Salk Institute P.O. Box 1809 San Diego, California 92112

The Salk Institute is an Equal Opportunity Employer, M/F.

ASSISTANT TO FULL PROFESSOR, Department ASSISTANT TO FULL PROFESSOR, Department of Bioengineering, University of Utah, seeks appli-cants for one or two tenure-track faculty positions. Please submit complete curriculum vitae, represen-tative publications, and three references to: Dr. J. Janata, Chairman, Search Committee, Department of Bioengineering, University of Utah, Salt Lake City, Utah 84112 by 15 January 1979. An Affirmative Ac-tion/Equal Opportunity Employer.

The University of California, San Francisco, is seek-ing an individual with demonstrated competence in ing an individual with demonstrated competence in academic metabolism and endocrinology to be em-ployed at the ASSISTANT PROFESSOR level at the San Francisco VA Hospital. Position requires re-search expertise and productivity in any of the areas of metabolism: diabetes, carbohydrate or lipid me-tabolism, and/or mechanism or regulation of insulin or glucagon secretion. Qualified candidates will have demonstrated clinical excellence in diabetology and ability to teach this area both at bedside and in a didactic setting. Inquiries and curriculum vitae to: addiactic setting. Inquiries and curriculum vitae to: Marvin D. Siperstein, M.D., Metabolism Section (111-F), San Francisco, Calif. 94121. The University of California is an Equal Opportunity/Affirmative Action Employer.

POSITIONS OPEN

ASSISTANT PROFESSOR—Departments of Phar-macology and Oncology beginning 1 January 1979. Applicants must have an M.D. or M.D./Ph.D., expe-rience in cellular oncology, mouse genetics, immu-nochemistry, and biochemistry. Duties will include teaching in pharmacology and oncology and a re-search program in mouse genetics, animal cell cul-ture interproduction. search program in mouse genetics, animal cell biology. Can-didates must have demonstrated excellence in re-search confirmed by published scientific material. Salary range: \$20,000 to \$30,000.

Send curriculum vitae, bibliography, and references

Thomas August, M.D. Professor and Director Department of Pharmacology Johns Hopkins University Baltimore, Maryland 21205

Johns Hopkins University is an Equal Opportunity/ Affirmative Action Employer. Women and minorities are encouraged to apply.

ASSISTANT/ASSOCIATE PROFESSOR in universi-ASSISTANT/ASSOCIATE PROFESSOR in Universi-ty teaching hospital new critical care/emergency medicine section. Must be academically qualified, Board-certified, or Board-eligible ABIM. An Equal Opportunity/Affirmative Action Employer. Send cur-riculum vitae and references to: Robert J. Bolt, M.C. Chairperson, Department of Medicine, 204 UCD Pro-fessional Building, 4301 X Street, Sacramento, Cali-fornia 95817. Open until 31 January 1979.

ASSISTANT PROFESSOR, IN-RESIDENCE, CLINICAL CHEMISTRY

University of California, Irvine, Department of Pathology, is recruiting for faculty position at assistant professor level. Required: M.D., clinical Board-eli-gible/qualified, service experience in clinical chemis-try, demonstrated interest in independent research. Duties: teach medical students and house staff, limit-Duties: teach medical students and house start, limit-ed administrative responsibility in area of clinical chemistry. All qualified candidates welcome; minor-ilies and women encouraged to apply. Send curricu-lum vitae and references to: H. Simpkins, M.D., Ph.D., Department of Pathology, University of Cali-fornia, Irvine, California 92717 by 23 October 1978.

ASSISTANT PROFESSOR OF MICROBIOLOGY

Position open for molecular cell biologist (2 to 5 years postdoctoral) to do research and teaching in years postdoctoral) to do research and teaching in areas related to immunology and/or virology at the University of Virginia School of Medicine. Active research, graduate, and postdoctoral training pro-grams. Send résumé to: Chairman, Department of Microbiology, University of Virginia School of Medi-cine, Charlottesville, Va. 22908. An Equal Opportu-nity/Affirmative Action Employer.

SSISTANT RESEARCH CHEMIST/ARCHAE-ASSISTANT RESEARCH CHEMIST/ARCHAE-OLOGIST position is available in the Ocean Re-search Division, Scripps Institution of Oceanogra-phy. The individual will be responsible for: (i) de-signing and carrying out experiments on the aging implications of amino acid racemization in metabolimplications of amino acid racemization in metabol-ically stable proteins in living mammals, and (ii) de-veloping, coordinating, and supervising projects in the newly formed Marine Archaeology Program at Scripps. Applicants should have a Ph. D. in either bi-ology or chemistry and postdoctoral experience rele-vant to both of the areas of responsibility listed above. Salary range: \$17,500 to \$22,000, commensu-ta with experience. Applicants chould cand cur above. Salary range: \$17,500 to \$22,000, commensu-rate with experience. Applicants should send cur-riculum vitae, bibliography, and the names and ad-dresses of three references to: Chair, Ocean Re-search Division A020, Scripps Institution of Oceanography, La Jolla, Calif. 92093. The University of California, San Diego, is an Equal Opportunity/ Affirmative Action Employer.

Virginia Mason Research Center, an Equal Op-Virginia Mason Research Center, an Equal Op-portunity Employer, is seeking a candidate to fill a combined position as an ASSOCIATE MEMBER in the Tumor Immunology Program (3/4 time) and as ASSISTANT DIRECTOR FOR CLINICAL RE-SEARCH (1/4 time). Minimum qualifications for this position are: M.D. licensure, or eligibility for such in the state of Washington; completion of a post-doctoral fellowship in cellular or tumor immunology; at least 3 years of relevant experience in the conduct and administration of stages 1 and 2 immunotherapy trials in man; and a specialty interest and expertise in the treatment of human solid tumors. It is antici-pated that this position will be open as of 1 January 1979.

Please send résumés to: John C. Houck, Ph.D., Director, Virginia Mason Research Center, 1000 Sen-eca Street, Seattle, Washington 98101.

ASSISTANT PROFESSOR OF ORGANIC CHEMIS-TRY—Tenure-track position, beginning September 1979; postdoctoral experience desirable. Position in-cludes teaching at undergraduate and graduate levels and development of a strong research program. Ap-plicant's research interests, as they may complement those of other members of the department, will be considered. Send résumé, transcripts, description of research interests, and three letters of recommenda-tion to: Dr. Grant Gill Smith, Chairman, Search Committee, Department of Chemistry and Biochemis-try, UMC 03 Utah State University, Logan, Utah 84322. Closing date for application is 1 November 1978. Utah State University is an Equal Opportu-nity/Affirmative Action Employer. ASSISTANT PROFESSOR OF ORGANIC CHEMIS-

ASSOCIATE PROFESSOR

Position available for M.D. with Ph.D. in immunology, graduate training in pathology and immuno-genetics, and a strong interest in cancer research and teaching. Expertise with techniques such as thymec tomy and thoracic duct cannulation of mice and familiarity with adoptive transfer systems is neces-sary. Salary range: \$25,000 to \$30,000. Submit replies to: Box 293, SCIENCE.

BIOCHEMIST-INSECT VIROLOGIST. Postdoc-toral position for Ph.D. in biochemistry with strong expertise in enzymology and protein chemistry and expertise in enzymology and protein chemistry and knowledge in insect virology. Employment from 1 October 1978 to 31 July 1979. Stipend: \$10,000 to \$14,000 per annum. Closing date for applications: 22 September 1978. The University of California is an Equal Opportunity Employer. Send curriculum vitae and names of three references to: Dr. Y. Tanada, Division of Entomology and Parasitology, 333 Hilgard Hall, University of California, Berkeley, Calif. 94720.

Independent liberal arts college in the Baltimore-Washington area seeks a Ph.D. BIOLOGIST for ten-ure-track position at assistant professor rank begin-ning September 1979. Courses to be taught are ecol-ogy, perspectives in biology, and a principles of biol-ogy course. Candidate should have a concentration in ecology and a sound botanical background. Salary and fringe benefits competitive. An Equal Opportu-iv/Affingative Action Employer A Duly before 30. and image benefits competitive. An Equal Opporta-nity/Affirmative Action Employer. Apply before 30 November 1978. Address pertinent materials to: Jean Kerschner, Department of Biology, Western Maryland College, Westminster, Maryland 21157.

University of California, Los Angeles (UCLA), School of Medicine, seeks appropriate candidates for the DELLA MARTIN CHAIR IN PSYCHIATRY, newly endowed professorship for distinguished academic psychiatrist (English-speaking, eligible Cali-fornia licensure) committed to research especially on major mental illnesses of adolescents and young adults. Equal Opportunity/Affirmative Action Em-ployer. Send curriculum vitae, letter discussing career goals, and five references to:

Arnold B. Scheibel, M.D., Chairman Della Martin Search Committee 760 Westwood Plaza Los Angeles, California 90024

The University of California, Irvine, College of Medicine, is seeking a CHAIRMAN for the Depart-ment of Psychiatry and Human Behavior. Can-didates will have demonstrated excellence in research and teaching and will have administrative ex-perience. Candidates should be able to provide academic leadership for the department. Appli-cations from all qualified candidates are welcome; California, from an qualified canadates are welcome; minorities and women are encouraged to apply. Send curriculum vitae, before 1 December 1978, to: Calvin S. McLaughlin, Chairman of the Search Com-mittee, Dean's Office, College of Medicine, University of California, Irvine, Calif. 92717.

CHAIRPERSON—Seton Hall University invites applications for the position of chairperson, Depart-ment of Chemistry, to be filled in July 1979. Can-didates should combine a record of scholarship with a history of extramural contract or grant support, and should have demonstrated leadership in devel-opment of educational and research programs. Reopment of educational and research programs. Re-search interests may be in any area of chemistry. The department has strong programs at all levels through the doctorate, and maintains close ties with the large New Jersey industrial community. Appli-cations, including a list of at least three references, should be sent to: Chairperson, Search Committee, Chemistry Department, Seton Hall University, South Orange, N.J. 07079. An Equal Opportunity/Affir-mative Action Employer.

POSITIONS OPEN

CHAIRPERSON Department of Biological Structure School of Medicine UNIVERSITY OF WASHINGTON

Applications for this position are invited from schol-ars committed to biological research and education in the health sciences. Established fields of investi-gation in the department relate to developmental bi-ology, cell differentiation in the hemopoietic and imnune systems, reproductive biology, neurobiology, ultrastructure, and x-ray crystallography. Depart-mental teaching responsibilities include gross, mimental teaching responsibilities include gross, mi-croscopic, neuro- and developmental anatomy in a progressive medical and graduate educational pro-gram. Send curriculum vitae, bibliography, and three references by 30 November 1978 to: Dr. E. G. Krebs, Chairman, Search Committee, Department of Pharmacology, SJ-30, School of Medicine, University of Washington, Seattle, Wash. 98195. The University of Washington is an Equal Opportunity/Affemating of Washington is an Équal Opportunity/Affirmative Action Employer

CURATOR OF PLANTS

Advanced degrees plus 3 to 5 years of experience desirable. Knowledge of plants of the Sonoran desert, their natural history, management under cul-tivation, nutrition, and diseases. Departmental ad-ministration. Send résumé to: Personnel Manager, Arizona-Sonora Desert Museum, Box 900-Route 9, Tucson, Arizona 85704.

DEAN SCHOOL OF MEDICINE

Emory University is conducting a search for quali-fied candidates for the position of dean of the School of Medicine of the university's Woodruff Medical Center. This position becomes vacant 1 September 1979 following the retirement in August 1979 of Dean Arthur P. Richardson. The School of Medicine is one of three academic schools involved in the Medi-cal Center programs of teaching, research, and pa-tient care. Other schools and facilities include the tient care. Other schools and facilities include the School of Dentistry, School of Nursing, Emory Uni-versity Clinic, Yerkes Regional Primate Center, Emory University Hospital, Crawford W. Long Me-morial Hospital, and various affiliate institutions. The Woodruff Medical Center is located on the main campus of Emory University in suburban Atlanta, Georgia. The dean is responsible to the vice presi-dent for health affairs and director of the Woodruff Medical Center and for administration of the School of Medicine and for the school's instructional and of Medical center and for the school's instructional and research programs. The dean also participates in the development of Woodruff Medical Center policy. Minimum qualifications are a medical degree and demonstrated academic medical administrative, re-search, clinical, and teaching experience.

Interested candidates should submit a résumé and Interested candidates should submit a resume and names of three professional references by 1 Novem-ber 1978 to: E. Garland Herndon, Jr., M.D., Vice President for Health Affairs and Chairman of the Search Committee, Emory University, Atlanta, Georgia 30322.

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DEAN-VETERINARY MEDICINE

North Carolina State University invites appli-

North Carolina State University invites appli-cations and nominations for the position of the first dean of the School of Veterinary Medicine. North Carolina State University is a land-grant in-stitution with broad academic offerings and extenstitution with broad academic offerings and exten-sive research and public service programs. The School of Veterinary Medicine has recently been es-tablished and the dean will have the responsibility of providing leadership for developing all activities within the school by formulating and undertaking policies and programs that effect the instructional, research, and service functions of the school. Applicants must possess the D.V.M. and Ph.D. degrees and have a record of research and scholarly achievements, teaching, clinical, and other profes-sional experience to qualify for tenured rank in the university faculty. Applicants must be able to repre-sent the school before public, professional, and pri-vate agencies at state and national levels.

Applications and nominations should include cur-Applications and nominations should include cur-rent curriculum vitae and the names and addresses of at least three references who can assess the can-didate's strengths and experience. These should be submitted by 15 October 1978 to:

W. H. Simpson Secretary, Search Committee Dean of Veterinary Medicine North Carolina State University Raleigh, North Carolina 27650 Equal Opportunity/Affirmative Action Employer

POSITIONS OPEN

DEAN-SCHOOL OF MEDICINE

The University of California, Davis, invites applications and nominations for the position of dean of the School of Medicine. The school, established in 1966, offers degree programs leading to the M.D., Ph.D., M.S., M.A., H.H.S., and an extensive resi-dency program in all specialties. The dean has re-sponsibility for academic leadership, representing the school to the administration; articulating to the community the goals and programs of the school; management of resources; participating with the Di-rector of Hospital and Clinics in the management of clinical affairs in the university-owned hospital and in campus-wide policy development through mem-bership on the Council of Vice Chancellors and Deans. The dean reports to the chancellor.

Qualifications include distinguished performance in teaching and research equivalent to that required for appointment to a professorship; commitment to high-quality medical education; interest in and demonstrated capability for academic administration. Salary is commensurate with experience and qualifications.

Nominations of candidates or direct applications, including a current professional résumé and sup-porting documents, should be sent to: Chancellor James H. Meyer, University of California, Davis, Cal-if. 95616 by 15 November 1978.

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DIRECTOR OF RESEARCH **REHABILITATION RESEARCH AND TRAINING CENTER #8**

TEMPLE UNIVERSITY SCHOOL OF MEDICINE

The Rehabilitation Research and Training Center #8 The Rehabilitation Research and Training Center #8 at Temple University is recruiting for the position of Director of Research. This requires an individual to direct, coordinate, review, and participate in the re-search activities of the center in accordance with federal, state, and regional procedures. The center's research activities are concerned with the problems of the movement-disabled patient, including visuo-motor behavior, locomotion, and neuromuscular and cardiopulmonary requirements of movement.

The educational requirements specify an M.D. or Ph.D. in rehabilitation or an allied field, for example, Ph.D. in renabilitation or an allied held, for example, physiology. Faculty rank and salary commensurate with experience, basic and applied research, pub-lications in recognized professional journals, and achievement in the field of rehabilitation medicine (or related field).

Submit applications and résumés to: Dr. Dorothea D. Glass, Project Director, Rehabilitation Research and Training Center #8 (Moss Rehabilitation Hospi-tal), 12th Street and Tabor Road, Philadelphia, Pa. 19141. An Equal Opportunity/Affirmative Action Employer

POSITION IN FISHERIES BIOLOGY Appalachian Environmental Laboratory University of Maryland Center for Environmental and Estuarine Studies

The University of Maryland is seeking a Ph.D.-level person to fill a tenure-track assistant professor posi-tion in fisheries biology at the Appalachian Environ-mental Laboratory, Center for Environmental and Estuarine Studies, University of Maryland, Frost-burg, Maryland, Twelve-month appointment.

QUALIFICATIONS: The successful applicant is expected to teach graduate-level courses in fisheries management/aquaculture and advanced fisheries sci-ence. Résumé and transcript of course work must ence. Resume and transcript of course work must reflect strong fisheries background, with training in biometrics and computer programming. The pre-ferred applicant will have a good publication record, a demonstrated ability to secure funding through contracts and grants, and an ability to independently establish a research program that will complement ongoing activities of the Appalachian Environmental Laboratory

SCHEDULE: Closing date for applications is 15 October 1978, with starting date December 1978. CONTACT:

Dr. Dan M. Harman Chairman, Search Committee Appalachian Environmental Laborator Center for Environmental and Estuarine Studies University of Maryland Frostburg State College Frostburg, Maryland 21532 An Equal Opportunity/Affirmative Action Employer

FACULTY POSITION-ORGANIC CHEMIS-**TRY**. The Department of Chemistry, University of Arizona, is seeking to fill a tenure-track position at TRY Arizona, is seeking to fill a tenure-track position at the assistant professor level. Candidates will be ex-pected to demonstrate the ability to develop an out-standing research program and to participate active-ly in the organic chemistry teaching program. Appli-cants should submit a résumé, a statement of research interests, and have three letters of recom-mendation sent to: Professor Victor J. Hruby, De-partment of Chemistry, University of Arizona, Tuc-son, Arizona 85721. Closing date for applications and all supporting materials: 23 October 1978. An Equal Opportunity/Affirmative Action/Section 504 Employ-er.

THE UNIVERSITY OF MICHIGAN

Five faculty positions available at the instructor through professor level in the Department of Inter-nal Medicine, University of Michigan Medical Cen-ter and affiliated hospitals. Reply to: Box 290, SCI-ENCE. Code 600B0. A nondiscriminatory, Affir-mative Action Employer.

TWO FACULTY POSITIONS, Department of Vet-erinary Biology, University of Minnesota.

1) ANIMAL PHYSIOLOGIST. A strong research orientation in neuro-, gastrointestinal, or cardiovas-cular physiology is preferred but applications are in-vited from individuals with research experience in other areas. Teaching responsibilities will be shared with other faculty.

2) VETERINARY PHARMACOLOGIST. Appli cants should have a commitment to teaching veteri-nary students and demonstrated excellence in research. Specialty open, except toxicology.

Ph.D. required. Rank (assistant to full professor) and salary open for both positions. Positions are available 1 July 1979 and application deadline is 1 February 1979. Send curriculum vitae and names of three references to: Dr. T. F. Fletcher, Department of Veterinary Biology, University of Minnesota, St. Paul, Minnesota 55108. The University of Minnesota is an Equal Opportunity Educator and Employer.

POSITIONS OPEN

The UNIVERSITY OF KONSTANZ, West Germany, is pleased to offer two new faculty positions:

1) A full professorship (C-4 professor) for PHYTOPATHOLOGY

Candidates are expected to have established themselves scientifically in the field of plant physiology Particular emphasis should be given to interactions with environmental pathogens. This chair is part of a newly established program for ecology in the Department of Biology

2) A tenured associate professorship (C-3 professor)

MICROBIAL ECOLOGY We are looking for a microbiologist who is famil-iar with microbial ecosystems and is capable of carrying out an innovative research program. Close collaboration with already existing groups of biochemical microbiology and limnology is expected.

andidates for both positions should be fluent in spoken and written German. Applications with the usual papers (including reprints of recent pub-lications and a list of teaching record) should be submitted to:

Fachbereich Biologie Universität Konstanz 7750 Konstanz, West Germany

by 27 October 1978.

ORGANIC CHEMISTRY POSTDOCTORAL RESEARCH ASSOCIATE

Position available now for research in vinyl mono-mer carcinogenesis study. This is a temporary, full-time position and may be renewable. State-of-art in-strumentation (HPLC, FT-NMR, and so forth) available. Close interaction with medical school cancer research groups. Salary competitive. Send résumé, salary history, and transcripts to: **Professor John L. Wong, Department of Chemistry, University of Louis-ville, Louisville, Kentucky 40208**, by 31 October 1978. Also, two letters of recommendation should be sent directly from persons who will write for you. An Equal Opportunity/Affirmative Action Employer

POSITIONS OPEN

GEOLOGIST-STRUCTURAL, ECONOMIC. An assistant professor position (tenure-track), appoint ment effective as early as 15 January 1979, is anticinicht eneentigen as for ander yn a rosandar yn standar yn pated contingent om administrative approval. Ph.D. required; some teaching experience helpful; salary commensurate with qualifications. The successful applicant will participate in a rapidly growing under-graduate program by teaching structural geology, ec-onomic geology, field geology, and related courses including introductory geology as well as carrying on active research. Preference will be given to field-ori-ented applicants with a strong interest in developing an undergraduate program. A normal teaching load is 12 didactic hours. It is anticipated that the geology program will become degree granting in 1980–1981. The school is located 15 miles west of Washington, D.C., and 15 miles south of the USGS National Cen-ter at Reston. Applicants for this potential position should submit a résumé, the names of three refer-ences, and a statement concerning research activipated contingent on administrative approval. Ph.D. ences, and a statement concerning research activi-ties by 1 November 1978 to: Dr. Douglas Mose, De-partment of Chemistry, George Mason University, 4400 University Drive, Fairfax, Virginia 22030. Af-firmative Action/Equal Opportunity Employer.

GROUNDWATER GEOLOGIST. A leading inter-GROUNDWATER GEOLOGIST. A leading inter-national consulting firm dealing primarily with the electric utility and coal mining industries has an im-mediate permanent opening for an experienced hy-drogeologist. Experience with numerical modeling desired. Work will be in the United States and abroad. Minimum qualifications include a graduate degree and several years of academic or field experi-ence. Opportunity for advancement. Reply to: Box 292, SCIENCE. An Equal Opportunity Employer.

UNIVERSITY OF MICHIGAN MEDICAL SCHOOL

The University of Michigan is seeking a sub-special-ty Boarded M.D. in neonatal-perinatal medicine for a faculty position in **PEDIATRICS**. Candidates should have a research interest in some aspect of perinatal medicine. Position available 1 July 1979. Reply to: **Box 294**, **SCIENCE**. A nondiscriminatory, Affirmative Action Employee Affirmative Action Employer

POST DOCTORAL **RESEARCH ASSOCIATES**

Positions are available in the following areas of atmospheric and ecological research:

Studies of long range atmospheric transport us-ing tracer compounds. Ultra-trace determination of electronegative compounds. Experience in capillary chromatography is highly desirable. Laboratory devel-opment and field deployment.

 Development of techniques for trace analysis of environmental samples by derivatization chromatogra-phy. Experience in two or more of the following areas is desirable. HPLC, capillary GC, microchemical techniques, fluorescence spectroscopy

Studies of the uptake and reaction of trace gases in rain and cloud water responsible for acid rain and atmospheric cleansing by precipitation. Requires famil-iarity and experience in chemical thermodynamics, and reaction kinetics. Laboratory and field studies.

 Development of techniques for the character-ization and determination of trace atmospheric constitu-ents (gases and aerosols) by laser techniques, including RAMAN, fluorescence and opto-acoustic spectroscopy. Familiarity with laser optics and low-level detection is desirable

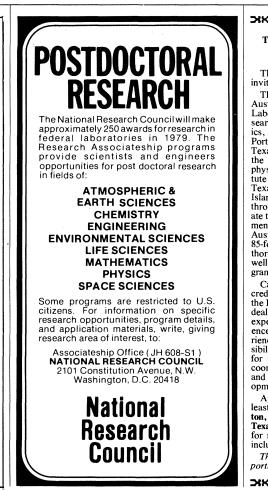
Experimental and analytical studies of turbulence mixing of miscible fluids and suspensions. Requires familiarity in fluid mechanics, transport phenomena, and thermodynamics. Some knowledge of aerosol dynam-ics and atmospheric diffusion is helpful.

Appointments will be tenable initially for one year.

Applicants should include a curriculum vitae and ar-range for three letters of reference to be forwarded to:

Dr. Leonard Newman Head, Atmospheric and Analytical Chemistry, Department of Energy and Environment, Brookhaven National Laboratory, Associated Interactive Associated Universities, Inc. Upton, Long Island, New York 11973 An Equal Opportunity Employer M/F

15 SEPTEMBER 1978



THE UNIVERSITY OF TEXAS AT AUSTIN MARINE SCIENCE INSTITUTE DIRECTOR

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The University of Texas Marine Science Institute invites applications for the position of director.

The Marine Science Institute is headquartered in Austin, Texas, and has the Galveston Geophysics Laboratory in Galveston, Texas, with extensive re-search programs in marine geology, marine geophysics, solid earth and planetary geophysics, and the Port Aransas Marine Laboratory in Port Aransas, Port Aransas Marine Laboratory in Port Aransas, Texas, with a basic and applied research program in the biological sciences, chemistry, sedimentation, physical oceanography, and engineering. The insti-tute also has a mariculture facility in Port Aransas, Texas, and a field station in St. Croix, U.S. Virgin Islands. The institute conducts research programs throughout the world, has a multidisciplinary gradu-ate teaching program in conjunction with the Depart-ment of Marine Studies at the University of Texas at Austin, operates three ships (165-foot, 130-foot, and 85-foot) as well as many smaller vessels, and has a thoroughly diversified marine research program as well as a solid earth and planetary geophysics prowell as a solid earth and planetary geophysics program.

Candidates should possess recognized scientific credentials, must qualify for a tenure appointment in the Department of Marine Studies, and be capable of the Department of Marine Studies, and be capable of dealing with leadership and policy issues. Extensive experiences in scientific research in the marine sci-ences is required. Administrative and teaching expe-rience is important in the selection process. Respon-sibilities include providing administrative direction for academic and world-wide research programs, coordination of research directions, and intellectual and philosophical leadership in continuing the devel-opment of an outstanding marine science program.

Application, personal résumé, and the names of at least three referees should be sent to: **H. Eldon Sut-ton**, Vice **President for Research**, **The University of Texas at Austin**, **Austin**, **Texas 78712**. The deadline for receipt of materials is 1 October 1978. Do not include materials which must be returned.

The University of Texas at Austin is an Equal Opportunity/Affirmative Action Employer. SXC

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BIOLOGIST-AQUACULTURE, FISHERIES FISHERIES BIOLOGIST—AQUACULTURE, Michigan State University. Assistant professor, 12-month, tenure-track. Major responsibilities: teach-ing (40 percent)—a senior-level course in aquacul-ture and an introductory course in fisheries/wildlife management. Research (40 percent)—develop re-search program and supervise graduate students. Extension (20 percent)—develop program primarily in aquaculture. Qualifications: Ph.D., fisheries biol-ogy and aquaculture; additional expertise in fish tox-icology preferred. Submit letter of application, ré-sumé and supporting materials, and three letters of sumé and supporting materials, and three letters of reference by 31 October 1978 to: Dr. Daniel R. Tal-helm, Search Committee Chairman, Department of Fisheries and Wildlife, Michigan State University, East Lansing, Michigan 48824.

Equal Opportunity/Affirmative Action Employer

HEINRICH PETTE-INSTITUT FÜR EXPERIMENTELLE VIROLOGIE UND IMMUNOLOGIE AN DER UNIVERSITÄT HAMBURG

Applications are invited for the position of HEAD OF THE DIVISION OF IMMUNOLOGY

The institute consists of six divisions. It is a foundation concerned with research on the biology of human viruses, the pathogenesis of virus diseases, and defense mechanisms of the host and related problems.

We are looking for a scientist whose main interest lies in the field of cell biology and/or virology.

Curriculum vitae, list of publications, and further documents should be sent to: the Board of Directors of the Heinrich Pette-Insti-tut, Martinistrasse 52, D-2000 Hamburg 20, Federal Republic of Germany, by 1 Novem-bor 1078 ber 1978.

IMMUNOCHEMISTRY POSTDOCTORAL available fall 1978. Individual must have strong biochemical background with interest in immunological as-pects of cell-cell interactions and membrane chemispects of cell-cell interactions and membrane chemis-try. Research involves characterizing the immuno-genicity human tumor cell surface antigens, and in-volves liposome biology. Salary: \$11,500 to \$12,500. Send curriculum vitae with two letters of reference to: Dr. B. H. Tom, Division of Organ Trans-plantation, The University of Texas Medical School, Houston, Texas 77030. An Equal Opportunity Em-player

 ployer.
 MOLECULAR BIOLOGY/ENDOCRINOLOGY OF VITAMIN—POSTDOCTORAL POSITIONS. Two positions are available: one immediately and one for 1 December 1978. One position is to study the ster-oid hormone properties of the vitamin D metabolite, 1,25(OH)₂D₃ viz gene expression, and RNA, protein synthesis; experience with cDNA, and mRNA isola-tion and translation, and so forth, is desirable. The second position is to isolate and characterize recep-tors for vitamin D metabolites. Experience with pro-tein chemistry and affinity chromatography desir-able. Send résumé and names of three references to: Dr. Anthony W. Norman, Department of Biochemis-try, University of California, Riverside, California 92521. An Equal Opportunity/Affirmative Action Employer. Employer.

UNIVERSITY OF SHERBROOKE

PLANT BIOGEOGRAPHIST AND ECOLOGIST. Effective 1 November 1978. Professor to participate in the teaching of plant ecology, phytosociology, and plant biogeography and to collaborate in existing re-search. Candidates should hold a Ph.D. and are ex-pected to teach in French. Send curriculum vitae be-fore 15 October to: **Dean, Faculty of Science, Univer**site to octoper to: Dean, Faculty of Science, Univer-sity of Sherbrooke, Sherbrooke, Quebec, Canada J1K 2R1.

POSTDOCTORAL FELLOW in behavioral endocri-nology, Division of Entomology and Parasitology, University of California, Berkeley. Applicant must have 1 or 2 years of postdoctoral experience and professional level skill in microsurgery, histology, professional level skill in microsurgery, histology, transmission and scanning electron microscopy, pheromone research and behavioral assay tech-niques, preferably in *Orthoptera*. Closing date for applications: 15 October 1978. Send curriculum vitae and the names of three persons to be used as references to: **Professor W. J. Loher, 201 Wellman Hall, University of California, Berkeley, California 94720.** The University of California is an Equal Op-portunity Employer. portunity Employer.

POSITIONS OPEN

HEAD. Department of Biology. University of Minnesota, Duluth. The department invites applications and nominations for the position of head to begin 1 September 1979. Appointment will be as associate or full professor with tenure. We seek individuals with tull professor with fenure. We seek individuals with administrative experience, a commitment to teach-ing and a demonstrated record of scholarly achieve-ment in research, preferably in the area of ecology. Applicants should submit curriculum vitae plus a statement of professional goals and three references by 1 November 1978. Applications, nominations, and requests for information should be sent to:

Dr. B. O. Krogstad, Chairman Department Head Search Committee Department of Biology University of Minnesota, Duluth Duluth, Minnesota 55812

Equal Opportunity/Affirmative Action Employer

NEUROMORPHOLOGIST/NEUROBIOLOGIST

The Department of Cell Biology is seeking a faculty member at the level of assistant professor. Formal teaching duties include teaching in the medical neu-roscience course. The successful applicant will be expected to establish an independent research pro-gram in the field of neurobiology and contribute to an active research environment. Applicants should an active research environment. Applicants should submit curriculum vitae, including a list of pub-lications and names of references, to:

In names of references, to: Dr. D. J. Woodward Faculty Research Committee Department of Cell Biology The University of Texas Health Science Center at Dallas Southwestern Medical School 50000 SouthWestern Medical School 5323 Harry Hines Boulevard Dallas, Texas 75235 The University of Texas is an Equal Opportunity/Af-firmative Action Employer, M/F/H.

OCEANOGRAPHER ALASKA OUTER CONTINENTAL SHELF OFFICE

The Alaska Outer Continental Shelf Office, Bureau The Alaska Outer Continental Shelf Office, Bureau of Land Management, which plans, contracts, and manages studies in support of oil and gas develop-ment, is seeking applicants for a 2-year assignment as oceanographer. Successful applicant will be a member of an interdisciplinary team which mon-itors, inspects, and makes recommendations on studies for the OCS program. Only persons in gov-ernment or institutes of higher learning who can ob-tain a 2-year leave of absence for mutual benefit of tain a 2-year leave of absence for mutual benefit of tain a 2-year leave of absence for mutual benefit of the agencies are eligible. Salary and other costs will be negotiated with the home institution. Obtain fur-ther information from: Alaska OCS Office, Box 1159, Anchorage, Alaska 99510; telephone: 907-276-2955.

PHARMACOLOGIST. The Department of Pharma-cology, College of Medicine, University of South Alabama, invites applications from qualified individ-uals for a position at the associate professor or pro-fessor level. Candidates should possess the Ph.D. or M.D. degree and have demonstrated a commitment to quality teaching and research. All areas of re-search interest will be considered, but special atten-tion will be given to individuals working in cardiosearch interest will be considered, but special atten-tion will be given to individuals working in cardio-vascular, renal, or neuropharmacology. The depart-ment is rapidly developing and currently consists of nine faculty members responsible for teaching medi-cal students, nursing students, and graduate stu-dents. Interested individuals should send letters of inquiry along with curriculum vitae and names of three references to: Thomas M. Glenn, Ph.D., Chair-man, Department of Pharmacology, College of Medi-cine, University of South Alabama, Mobile, Alabama 36688. An Affirmative Action/Equal Opportunity Employer. Applications should be received prior to 1 October 1978.

POSTDOCTORAL POSITION available immediate-**POSTDOCTORAL POSITION** available immediate-ly in nutrition-cancer program. Experience in nutri-tion and/or biochemistry (RNA and protein) desired. Send curriculum vitae and name of two references to: Dr. H. Sidransky, Department of Pathology, The George Washington University Medical Center, Washington, D.C. 20037. An Equal Opportunity/Af-firmative Action Employer.

POSTDOCTORAL POSITION available immediate-ly to study the biochemistry of recombination in bacteriophage T4. Applicants must have biochemistry background, preferably in nucleic acid metabolism. Salary: \$13,000 per year. Send curriculum vitae and references to: Dr. Susan S. Wallace, Department of Microbiology, New York Medical College, Valhalla, New York 10595.

POSITIONS OPEN

PHARMACOLOGIST. Assistant professor in basic PHARMACOLOGIST. Assistant professor in basic dental sciences to teach predoctoral and dental spe-cialty students pharmacology, with 50 percent of time for research. Major interest in analgesics and anesthetics preferred. Send curriculum vitae and three letters of reference to: Dr. Parker E. Mahan, Department of Basic Dental Sciences, Box J-424, J. Hillis Miller Health Center, Gainesville, Florida 32610. An Equal Opportunity/Affirmative Action Employer. Employer.

PHYSICAL OCEANOGRAPHER. M.S. or Ph.D. to PHYSICAL OCEANOGRAPHER. M.S. or Ph.D. to participate in R & D and project work. Position re-quires strong background in ocean currents and waves, including knowledge of wind-wave genera-tion, propagation, and decay. Experience with spec-tral techniques, data analysis, numerical modeling, and computer techniques is desirable. Send résumé to: J. Buckles, OCEANROUTES, Inc., 3260 Hillview Avenue, Palo Alto, Calif. 93404. Equal Opportunity Employee. Employer

POSTDOCTORAL POSITION. For research on interaction of chemical carcinogens with liver cells in culture. Recent Ph.D. required. Position available immediately; annual salary: \$13,000. Submit cur-riculum vitae to: Gary M. Williams, M.D., Chief, Di-vision of Experimental Pathology, Naylor Dana Institute for Disease Prevention, American Health Foun-dation, Dana Road, Valhalla, N.Y. 10595. An Equal Opportunity Employer, M/F.

POSTDOCTORAL POSITIONS AVAILABLE IMMEDIATELY

- 1) Protein chemist/biochemist interested in cultivation of bacteria in heavy water and isolation of enzymes from these organisms for NMR studies. Experience in microbiology or NMR desirable but not essential.
- 2) Physical biochemist interested in biological and spectroscopic approaches to the study of gallium tumor-scanning agents.
- NMR spectroscopist interested in determination of peptide conformations by NOE measurements 3) and paramagnetic probes.

and paramagnetic process. Bruker HX-90, CXP-270 and WH-400 available for NMR studies. Send résumé and names of three ref-erences to: Dr. Ted T. Sakai (1), or Dr. Robert Len-kinski (2, 3), Comprehensive Cancer Center, Univer-sity of Alabama in Birmingham, Birmingham, Ala-bama 35294. An Equal Opportunity/Affirmative Action Employer Action Employer.

Two POSTDOCTORAL POSITIONS available im-Two POSTDOCTORAL POSITIONS available im-mediately to study: (i) membrane interactions in coated vesicle self assembly, or (ii) LDL transport into chicken oocytes. Salary: \$11,000 to \$14,000. Experience in cell biology or biochemistry desirable. Send curriculum vitae and telephone numbers of three referees to: Dr. Thomas F. Roth, Department of Biological Sciences, University of Maryland Balti-mer Courty, Cotexenille, Mourdend 2129 more County, Catonsville, Maryland 21228.

An Affirmative Action/Equal Opportunity Employer

POSTDOCTORAL POSITION available immediately: research on effects of environmental toxins on structure and function of brain barrier systems. Experience with SEM, TEM, and/or in vivo isolation of neural tissues desirable. Stipend according to quali-fications. Contact: L. A. O'Tuama, M.D., 320 B.S.R.C. 220H, University of North Carolina School of Medicine, Chapel Hill, N.C. 27514. Equal Oppor-tunity/Affirmative Action Employer.

POSTDOCTORAL POSITION available immediate-POSTDOCTORAL POSITION available immediate-ly for enzymologist/neurochemist to work on regula-tion of GABA synthesis in brain. Studies involve purification and regulatory properties of brain gluta-mate decarboxylase and may include tests of regula-tory properties in brain slices or in vivo. Experience in purification, mechanism or structure of proteins or enzymes is desirable. Send résumé and names of these references to: **Dr. David L. Mortin Biochamis**. three references to: Dr. David L. Martin, Biochemis-try Division, Department of Chemistry, University of Maryland, College Park, Maryland 20742. Affir-mative Action/Equal Opportunity Employer.

POSTDOCTORAL POSITION available immediate-POSTDOCTORAL POSITION available immediate-ly to work on DNA repair in eukaryotes. Applicants with graduate training in biochemical genetics, en-zymology, or recombinant DNA should contact: Dr. N. C. Mishra, Department of Biology, University of South Carolina, Columbia, S.C. 29208; telephone: 803-777-5938. Excellent laboratory facilities avail-able and salary commensurate with candidate's experience. An Equal Opportunity/Affirmative Action Employer.

Engineers and Scientists:



We can satisfy our energy needs and protect the environment.

The MITRE Corporation Metrek Division plays a major role in assisting various Federal, state and local government agencies with program planning, systems analysis, and systems engineering activities.

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 Ocean Energy Conversion Systems
 Toxic Chemical Analysis
 Nuclear Regulatory Policy
 Health and Environmental Impact Analysis

Please send your resume and salary history in absolute confidence to: V.T. Jasper, Metrek Division, The MITRE Corporation, 1820 Dolley Madison Blvd., McLean, VA 22102, An equal opportunity employer m/f/h.



POSTDOCTORAL POSITION in insect neurobiology for 1 or 2 years. Available immediately. Experi-ence in intracellular recording and staining techniques desirable. Inquiries to:

Dr. K. G. Pearson Department of Physiology University of Alberta Edmonton, Canada T6G 2H7

POSTDOCTORAL RESEARCH ASSOCIATE-Beginning July 1979 for studies of leukemia and melanoma cell surface glycoproteins, lectin binding, me tastasis, adhesiveness, and aggregation. Recent graduate preferred. Please send curriculum vitae to: Robert N. Taub, M.D., Ph.D., Chairman, Division of Medical Oncology, Box 230, Medical College of Vir-ginia, Richmond, Virginia 23298.

POSTDOCTORAL POSITION

Available immediately to persons with a strong background in the molecular biology of nucleic acids. The program involves analysis of gene organi-zation and replication in eukaryotes. Send curriculum vitae and the names of three references to: Dr. Peter J. Stambrook, Department of Biology, Case Western Reserve University, Cleveland, Ohio 44106.

A new **POSTDOCTORAL POSITION** available immediately for a Ph.D. in endocrinology/nutrition at university research laboratory for 1 year. Prior exat university research laboratory for 1 year. Prior ex-perience in biochemistry, enzymology, and thyroid research preferable. Ongoing projects involve ri-boflavin metabolism, thyroid hormones, zinc, and drugs. Both clinical and animal investigations are planned. Send curriculum vitae to: Dr. Richard S. Rivlin, 215 Black Building, Columbia Presbyterian Medical Center, 630 West 168 Street, New York, N.Y. 10042 10032.

POSTDOCTORAL RESEARCH POSITION available immediately to study the biochemical basis of altered hepatic microsomal drug metabolism in tuand the second and the second second and the second s

POSTDOCTORAL RESEARCH POSITION. To par-POSITIDOCTORAL RESEARCH POSITION. 10 par-ticipate in studies on the control of gene expression in differentiated eukaryotic cells in culture. Experi-ence in modern molecular biological techniques is desirable. Apply to: Secretary, Laboratory of Phar-macology, Harvard School of Dental Medicine, 188 Longwood Avenue, Boston, Mass. 02115.

The University of Alexandria Research Centre (UNARC), Alexandria, Egypt, announces **POSTS** (starting 15 September 1979) for experts with at least 5 years of postdoctoral research experience in: (i) S years of postdoctoral research experience in: (i) corrosion science, (ii) semiconductors and/or in-tegrated circuits, and (iii) laser physics. There is also a post (iv) for a laboratory engineer having a B.E. with adequate practical experience. The experts will be required to conduct and supervise predoctoral re-search, collaborate with the postdoctoral fellows, give advanced courses, and hold seminars in their re-productions. spective specializations. The laboratory engineer will maintain, repair, and design the laboratory equipment, as well as train local counterparts in lab-

oratorial operations. Appointments will be made on contractual basis for I year at the candidate's present substantive sal-ary, to be paid in the United States, plus different

ally, no be pain in the Onited States, pilos under in allowances and passage money (for candidate and family), including transportation of household. Working language is English, with knowledge of Arabic desirable. Interested scientists should apply before 1 December 1978 to: Director, UNARC, Bax 832, Alexandria, Egypt. Further information is avail-able from: Edgar Pike, NE/Tech., U.S. AID, U.S. De-partment of State, Washington, D.C. 20523.

RECEPTOR BIOCHEMISTRY

Postdoctoral position for a recent graduate Postdoctoral position for a recent graduate with solid training in biochemistry. Unique interdisciplinary institute. Research on membrane taste receptor characterization. Send curriculum vitae and names of three references to: Dr. Robert H. Cagan, Monell Chemical Senses Center, University of Penn-sylvania, 3500 Market Street, Philadelphia, Pa. 19104. An Equal Opportunity Employer.

POSITIONS OPEN

PSYCHOLOGICAL RESEARCHER IN NEUROSCIENCE DEPARTMENT OF PSYCHOLOGY MEMORIAL UNIVERSITY OF NEWFOUNDLAND

Psychological researcher in neuroscience to teach Psychological researcher in neuroscience to teach graduate and undergraduate courses in physiological psychology. Rank open. Salary in accordance with rank and qualifications. Starting date is 1 September 1979. Apply to: Dr. G. R. Skanes, Head, Department of Psychology, Memorial University of Newfoundland, St. John's, Newfoundland, Canada A1B 3X9. Position subject to availability of funds.

RESEARCH ASSOCIATE

Required to engage in investigations with Iodine-125 and its effect on biological systems. Experience in radiation physics and/or radiobiology desirable. Send curriculum vitae to: Dr. E. J. Hall, Columbia University, Radiological Research Laboratory, 630 West 168 Street, New York, N.Y. 10032. An Equal Opportunity/Affirmative Action Employer.

RESEARCH ASSOCIATES-Three postdoctoral positions are available immediately to study elec-trolyte and nonelectrolyte transport in the intact in testine as well as in isolated and reconstituted intestine as well as in isolated and reconstituted in-testinal and renal luminal and contraluminal mem-branes. Send curriculum vitae, two references, and supporting materials to either: Dr. Don W. Powell, Department of Medicine, or Dr. Robert G. Faust, De-partment of Physiology, University of North Carolina School of Medicine, Chapel Hill, N.C. 27514. Affir-mative Action/Equal Opportunity Employer.

RADIOCHEMISTRY **STAFF AND** POSTDOCTORAL **OPPORTUNITIES Trace-element** migration

The Chemistry Division of Argonne National Laboratory has regular staff and postdoctoral positions available for individuals who have a Ph.D. in chem-istry and experience in radiochemistry. Background or interest in geochemistry is highly desirable.

Selected candidates will participate in an ongoing research program investi-gating trace-element migration in the lithosphere. Laboratory studies will be conducted on the interactions of selected nuclides with various geological materials. This research is directly related to feasibility and safety studies of potential radionuclide waste depositories.

Positions offer fully commensurate compensation, both in terms of salary and benefits, as well as excellent and benefits, as well as excellent potential for professional recognition and career advancement. Send résumé, including salary history, to: Robert P. Maxwell, Box CHM 1983, Argonne National Laboratory, 9700 South Cass Avenue, Argonne, Ill. 60439.



POSITIONS OPEN

PROFESSOR OF PATHOLOGY

Applications are sought for the position of profes-sor of pathology in the Eastern Virginia Medical School. We seek a candidate with M.D. degree and experience in antomical pathology both at the aca-demic- and hospital-practice level to participate in demic- and hospital-practice level to participate in an active educational program for the teaching of medical students and residents. Excellent depart-ment research facilities available, including electron microscopy. Applications should include curriculum vitae, bibliography, and letters of recommendation. Please send to: Robert J. Faulconer, M.D., Chair-man, Department of Pathology, Eastern Virginia Medical School, P.O. Box 1980, Norfolk, Virginia 23501. An Equal Opportunity/Affirmative Action Employer. Employer.

RESEARCH ASSISTANT PROFESSOR OR SENIOR RESEARCH ASSOCIATE

Ph.D. in biochemistry with postdoctoral research experience concerning HMG-CoA reductase in cho-lesterol biosynthesis. Job involves supervision and research concerning the enzyme HMG-CoA reduc-tion on it relates to the resulting of chelateran bio tase as it relates to the regulation of cholesterol bio-synthesis. Salary: \$15,000 to \$16,000, depending upon qualifications and experience. Send appli-cations to: Dr. T. J. Scallen, Biochemistry Depart-ment, University of New Mexico School of Medicine, \$15 Stanford, NE, Albuquerque, N.M. 87131. All ap-minations chould be required by 15 October plications should be received by 15 October.

RESEARCH ASSOCIATE IN NEUROCHEMISTRY

Position available for Ph.D. biochemist or molecular biologist to pursue collaborative research into the molecular differentiation of neuroblastoma in cell culture. Special interests in immunochemical approaches, cell surface glycoprotein or receptor changes, and transcriptional or posttranscriptional

changes, and transcriptional or posttranscriptional control of differentiation are encouraged. We are an Equal Opportunity Employer. Send let-ter and curriculum vitae to: Roger N. Rosenberg, M.D., Chairman, Department of Neurology, Labora-tory of Molecular Neurobiology, the University of Texas Health Science Center at Dallas, Dallas, Texas 75235 75235.

SENIOR RESEARCH ADMINISTRATORS PHYSIOLOGY, CELLULAR, AND MOLECULAR BIOLOGY

The National Science Foundation, Division of Phys-iology, Cellular, and Molecular Biology, is seeking qualified applicants to head senior positions in basic research covering (i) primarily biochemical areas, including metabolism, genetics, biochemistry, and biophysics and (ii) physiology, cellular, and devel-opmental biology. These positions are excepted from the competitive civil service. They are at a grade level equivalent to GS-16 (\$42,423 to \$47,500) and may be filled as permanent appointments or as grade level equivalent to GS-16 (\$42,423 to \$47,500) and may be filled as permanent appointments or as rotational appointments of 2 years, depending upon applicant qualifications. Applicants must have a Ph.D. or equivalent in the biological sciences or a closely related field, have established a national or international reputation for high-quality research in one of the fields named above, and have demonstrated eucocoefficient lood credition in combinistrational to a provide the second science of the fields applied to the second second second second provide the second successful leadership in administration. Applicants should submit a statement of interest and a résumé or Standard Form 171, Personal Oualifications Statement, to: Division of Personal Qualifications State-ment, to: Division of Personnel and Management, At-tention: Section B, Room 212, 1800 G Street, NW, Washington, D.C. 20550; telephone: 202-632-4107. Applications will be accepted until the positions are filled. The National Science Foundation is an Equal Opportunity Employer. Opportunity Employer

STAFF OR RESEARCH ASSOCIATE. Position start OK RESEARCH ASSOCIATE. Tostiton available for biochemist, biophysicist, or physiolo-gist to participate in research on fluid movements across epithelial membranes. Extensive experience in techniques, instrumentation, and laboratory man-agement highly desirable. Send curriculum vitae to: Dr. Jorge Fischbarg, Eye Research Division, Colum-bia University, 630 West 168 Street, New York, N.Y. 10032. An Affirmative Action/Equal Opportunity Employer.

SUPERVISORY TOXICOLOGIST—Career federal government, salary ranges; \$30,750 to \$39,975, de-pending on qualifications and experience. A tox-icologist provides leadership in assessing tox-icological studies and evaluating reports of tests of potentially harmful chemicals in consumer products. Personnel qualifications (SF-171) or résumé should be sent to: Ann S. Jordan, Division of Personnel, 5401 Westbard Avenue, Bethesda, Maryland 20207; tele-phone: 301-492-6500. phone: 301-492-6500.

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Wir sind ein namhaftes Unternehmen der pharmazeutischen Industrie mit Sitz in der Universitätsstadt Marburg und gehören zur Hoechst-Gruppe. Im Rahmen unserer virologischen Forschung entwickeln wir neue Präparate für Therapie und Prophylaxe und suchen deshalb einen jüngeren

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der über ein virologisches oder immunologisches Thema promoviert hat bzw. bereits seit mehreren Jahren in einem virologischen Institut tätig ist und über entsprechende Erfahrungen verfügt.

Er sollte etwa 30 Jahre alt sein, gute Englischkenntnisse besitzen und zur Teamarbeit in der Lage sein.

Unsere finanziellen und sozialen Leistungen entsprechen der Bedeutung dieser Position. Die näheren Einzelheiten möchten wir dann ggf. in einem persönlichen Gespräch erörtern.

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clinical enzymology or exposure to an environment of medically oriented research is helpful. The successful candidate should have 1 to 3 years of postdoctoral experience. The modern research laboratories of the newly formed Medical Products Division are located in suburban West-

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15 SEPTEMBER 1978

POSTDOCTORAL POSITION COMBINING ELECTRON MICROSCOPY WITH IN METABOLISM RESEARCH

Available after March 1979 for Ph.D. or M.D. with experience in electron microscopy to conduct re-search related to mammalian cell secretory systems. search related to mammalian cell secretory systems. Background in cell separation, cytochemistry, or im-munocytochemistry techniques would be desirable but not required. Position is NIH postdoctoral train-eeship and is open for 2 years. Send complete ré-sumés to: Eve P. Reaven, Ph.D., Department of Med-icine, Room S-005, Stanford University School of Medicine, Stanford, Calif. 94305. An Equal Opportu-nity/Affirmative Action Employer.

The University of Texas Health Science Center at an Antonio, Department of Family Practice, seeks SOCIAL SCIENTIST: primarily to participate in San a SOCIAL SCIENTIST primarily to participate in the teaching of family medicine to senior medical students and other medical trainees in a medical school-directed Family Health Center; secondarily to engage in research in problems of cross-cultural health care delivery and in the training of primary health care providers. Applicants should be com-mitted to teaching social science concepts in a clini-cal medical setting.

al medical setting. Requirements: Ph.D. in social science. Preferences: Background in medical social sci-ence. Background in Mexican-American culture. Bi-lingual (Spanish-English).

Available immediately—Salary and academic rank commensurate with experience Inquiries to:

Paul C. Friedman, M.D. Assistant Professor and Research Coordinator Department of Family Practice The University of Texas Health Science Center San Antonio, Texas 78284

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THEORETICAL PHYSICIST. Applications are invited for a regular faculty position beginning fall 1979, at the assistant professor level, jointly in the Department of Physics and the McDonnell Center for the Space Sciences, Washington University. The for the Space Sciences, Washington University. The McDonnell Center consists of faculty in several dis-ciplines carrying out solar system, stellar, and galac-tic research. Preference will be given to candidates with interests and experience closely related to existing center programs. A brochure describing ac-tivities of the McDonnell Center is available upon request. While we expect to hire at the assistant pro-fereor leader conditions with excentional quelificafessor level, candidates with exceptional qualifications and accomplishments may be considered for a more senior appointment. Applications, including names of at least three referees, should arrive by 15 November 1978. Address:

Professor John W. Clark Search Committee Chairman Department of Physics Washington University St. Louis, Mo. 63130

Washington University is an Equal Opportunity/Affirmative Action Employer and welcomes appli-cations from women and members of minorities.

VETERINARY PHYSIOLOGY/PHARMACOLOGY

The School of Veterinary Medicine, Purdue University, is seeking applications and nominations for the head of the Department of Veterinary Physiology

Applications and nominations will be accepted through 15 October 1978. Apply to:

Dr. Billy E. Hooper School of Veterinary Medicine Purdue University Lafayette, Indiana 47907

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VIROLOGY. The Cell Biology Group of the Wor-cester Foundation for Experimental Biology an-nounces faculty-level positions in animal cell virol-ogy. We are seeking individuals with outstanding re-search potential. Inquiries should be directed to Drs. Ronald Luftig, Harriet Robinson, or Thoru Pederson through the Personnel Office, Worcester Foundation for Experimental Biology, 222 Maple Avenue, Shrewsbury, Massachusetts 05145. The Worcester Foundation for Experimental Biology is an Affir-mative Action, Equal Opportunity Employer.

COURSES

MARINE BIOLOGICAL LABORATORY MARINE BIOLOGICAL LABORATORY Woods Hole, Massachusetts will conduct a residential laboratory course OPTICAL MICROSCOPY AND PHOTOMICROGRAPHY in the BIOMEDICAL SCIENCES 3 to 8 December 1978

This concentrated program, offered for the second time, is intended primarily for scientists and physi-cians who require theoretically based training and experience in modern light microscopy. Among the topics to be discussed and practiced will be brightand dark-field, phase and modulation contrast, highand dark-heid, phase and modulation contrast, high-extinction polarized light and differential inter-ference microscopy, fluorescence, and color and black-and-white photomicrography and cinemicrog-raphy. The instructor in chief will be Robert Day Allen of Dartmouth College. Attendance is limited to 16 participants



Application materials and ad-Application materials and ad-ditional information are available from: Office of Admissions, Marine Biological Laboratory, Woods Hole, Mass. 02543. Tele-phone: 617-548-3705. An Equal Opportunity/Affirma-tive Action Institution

TRAINING PROGRAM

POSTDOCTORAL TRAINING PROGRAM IN ARTERIOSCLEROSIS RESEARCH

Postdoctoral fellow positions will be available after 1 July 1979 in an NIH-sponsored program of training in the broad field of arteriosclerosis research. Interdisciplinary training in basic research and/or clinical investigation will be available in the areas of lipid and lipoprotein metabolism, hyper-lipidemia, platelet and coagulation biochemistry and disease, biomathematics and computer modeling, regional myocardial blood flow and the coronary cir-culation, and electrophysiology, and arrhythmias. Applicants, for 1- to 3-year appointments, should possess the M.D. or Ph.D. degree or equivalent and be U.S. citizens or permanent residents. Send cur-riculum vitae to: Dr. DeWitt S. Goodman, Columbia University College of Physicians and Surgeons, New York, N.Y. 10032.

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FELLOWSHIPS

TWO POSTDOCTORAL FELLOWSHIPS IN THE EARTH AND PLANETARY SCIENCES

The Lamont-Doherty Geological Observatory of Columbia University invites scientists interested in any field of the earth and planetary sciences to apply for the following fellowships.

Two postdoctoral fellowships, each awarded for a period of 1 year (extendable to 2 years in special in-stances) beginning in September 1979, with a stipend statics) degining in September 1979, with a superior of \$16,500 per annum. Completed applications are to be returned by 15 January 1979. Application forms may be obtained by writing to: the Director, Lamont-Doherty Geological Observatory, Palisades, New York 10964.

Award announcements will be made 28 February 1979.

A POSTDOCTORAL FELLOWSHIP is available at the University of Delaware, Institute for Neurosci-ence and Behavior. Candidates should have a strong interest in the structure and function of the verte-brate visual system. Submit curriculum vitae and names of three references to: C. Groot, Institute for Neuroscience and Behavior, University of Delaware, Newark, Delaware 19711. An Equal Opportunity/Affirmative Action Employer.

GENETICS POSTDOCTORAL FELLOWSHIPS are available at the University of Rochester for 1979-1980. Intensive training in independent research is offered in human, eukaryotic, prokaryotic, viral, ottered in human, eukaryotic, prokaryotic, viral, molecular, and population genetics. Unusual oppor-tunities available in human genetic disease research. Applicants must have an M.D. or Ph.D. and be U.S. citizens or permanent residents. For further infor-mation write: Peter T. Rowley, M.D., Director, Ge-netics Postdoctoral Training Program, Box 641, Uni-versity of Rochester School of Medicine, Rochester, New York 14642.

FELLOWSHIPS

HYPERTENSION RESEARCH FELLOWSHIPS

Fellowships in hypertension research for 2 years with option of one or more additional years of clini-cal training for qualified applicants, are available at cal training for qualified applicants, are available at the Mayo Clinic and Mayo Graduate School of Med-icine. This NIH-funded multidisciplinary program provides research training in hypertension by faculty in nephrology, endocrinology, cardiovascular dis-ease, clinical pharmacology, pediatrics, biochemis-try, and physiology. Applicants should have the M.D. or Ph.D. degree and hold a permanent visa if not a citizen of the U.S. Degree programs leading to the master's or Ph.D. degrees are available to indi-viduals with the M.D. degree. For further informa-tion write to: R. D. Brown, M.D., Director, Multi-disciplinary Hypertension Research Training Pro-gram, Mayo Clinic, Rochester, Minn. 55901. An Equal Opportunity/Affirmative Action Institution.

POSTDOCTORAL RESEARCH FELLOWSHIP IN VISUAL SCIENCES

Three positions for postdoctoral research training in ophthalmic physiology and biochemistry with em-phasis on membrane transport, metabolism, elec-trophysiology, morphology, and protein chemistry of the lens, ciliary body, cornea, and retina are avail-able immediately. Recent Ph.D.'s or M.D.'s who are U.S. citizens or permanent residents are invited to apply. Initial appointment is for 1 year, renewable for 2 years. Stipends under currently funded Nation-al Research Service Awards range from \$10,000 to al Research Service Awards range from \$10,000 to \$14,000 per year, depending on previous relevant ex-perience. Send curriculum vitae with a statement of research interests, career goals, and three letters of reference (to be mailed direct by the referee) to: Dr. V. N. Reddy, Director, Institute of Biological Sci-ences, Oakland University, Rochester, Michigan 48063. An Equal Opportunity Employer.

C. H. BEST FOUNDATION POSTDOCTORAL FELLOWSHIP

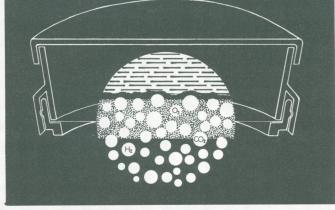
Applications are invited for the C. H. Best Foun-Applications are invited for the Benting and Best Department of Medical Research. The fellow-ship is tenable after 1 July 1979 for 2 years with a taxable stipend of \$14,200 for the first year, plus travel and dependents' allowance. The fellowship is travel and dependents allowance. The fellowship is available to a candidate who has recently graduated or who has had less than 2 years of postdoctoral ex-perience. Research interests of the department in-clude molecular biology, differentiation, structure and function of membranes, lipid metabolism, im-munology, and molecular endocrinology. A list of staff members and their research interests will be sent on request. Amplications, complete with cursent on request. Applications, complete with cur-riculum vitae, transcripts (if available), and three let-ters of reference, must be received by 15 November 1978. Please address applications or inquiries to: Dr. J. H. Dorrington, Banting and Best Department of Medical Research, University of Toronto, Toronto, Ontario, Canada M5G 1L6.

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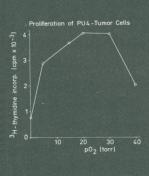


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