

How to Save Your Home and Life. Peter Yanev. Drawings by Robert Higginbotham. Chronicle Books, San Francisco, 1974. 304 pp., illus. Cloth, \$9.95; paper, \$4.95.

Photomesic and Photoneuclear Reactions and Investigation Methods with Synchrotrons. D. V. Skobel'tsyn, Ed. Translated from the Russian edition (Moscow, 1971) by Joachim R. Büchner. Consultants Bureau (Plenum), New York, 1974. viii, 252 pp., illus. Paper, \$37.50. Proceedings of the P. N. Lebedev Physics Institute, vol. 54.

Physics of Sound in Marine Sediments. Proceedings of a symposium, Austin, Texas, May 1973. Loyd Hampton, Ed. Plenum, New York, 1974. xii, 570 pp., illus. \$32.50. Marine Science, vol. 1.

Polar Deserts and Modern Man. Papers from a AAAS symposium, Philadelphia, Dec. 1971. Terah L. Smiley and James H. Zumberge, Eds. University of Arizona Press, Tucson, 1974. x, 174 pp., illus. \$11.50.

Ponds and Lakes. T. T. Macan. Crane, Russak, New York, 1974. 148 pp., illus., + plates. \$10.50.

The Population of Latin America. A History. Nicolas Sanchez-Albornoz. Translated from the Spanish by W. A. R. Richardson. University of California Press, Berkeley, 1974. xvi, 300 pp., illus. \$17.50.

Post-Miocene Stratigraphy Central and Southern Atlantic Coastal Plain. Robert Q. Oaks, Jr., and Jules R. DuBar, Eds. Utah State University Press, Logan, 1974. viii, 276 pp., illus. \$12.

Power from the Wind. Palmer Cosslett Putnam. Van Nostrand Reinhold, New York, 1974. xiv, 224 pp., illus. \$9.95. Reprint of the 1948 edition.

Practical Nuclear Medicine. Fuad S. Ashkar, Ed. Medcom Press, New York, 1974. xviii, 218 pp., illus. \$25. Medcom Medical Update Series.

Practical Waste Treatment and Disposal. Denis Dickinson, Ed. Halsted (Wiley), New York, 1974. xvi, 214 pp., illus. \$19.75.

The Principles and Practice of Astrology. Vol. 3, The Planets. Their Signs and Aspects. Noel Tyl. Llewellyn Publications, St. Paul, Minn., 1974. x, 176 pp., illus. Paper, \$3.95. The Llewellyn Syllabus for Home Study and College Curriculum.

Problem Drinking among American Men. Don Cahalan and Robin Room. Rutgers Center of Alcohol Studies, New Brunswick, N.J., 1974 (distributor, College and University Press, New Haven, Conn.). xiv, 270 pp. \$12.50. Monographs of the Rutgers Center of Alcohol Studies No. 7.

Progress in Oceanography. Vol. 6. B. A. Warren, Ed. Pergamon, New York, 1974. viii, 194 pp., illus., + charts. \$24.

Recent Advances on Pain. Pathophysiology and Clinical Aspects. Papers from a symposium, Florence, Italy, Apr. 1972. John J. Bonica, Paolo Procacci, and Carlo A. Pagni, Eds. Thomas, Springfield, Ill., 1974. xvi, 374 pp., illus. \$19.75.

Recent Advances in Particle Physics. Papers from a conference, New York, Mar. 1973. Fred Cooper, Ed. New York Academy of Sciences, New York, 1974. 266 pp., illus. Paper, \$26. *Annals of the New York Academy of Sciences*, vol. 229.

The Red Blood Cell. Vol. 1. Douglas MacN. Surgenor, Ed. Academic Press,

New York, ed. 2, 1974. xvi, 612 pp., illus. \$45.

The Ruling Minority 1974. A Small Businessman's View of Economics and Politics. Lawrence R. Krivit. Library Research Associates, Monroe, N.Y., 1974. x, 210 pp. \$5.95.

Schwingungslehre. Erwin Meyer and Dieter Guicking. Vieweg, Braunschweig, Germany, 1974. xii, 472 pp., illus. DM 96.

Science and Creation. From Eternal Cycles to an Oscillating Universe. Stanley L. Jaki. Science History Publications, New York, 1974. viii, 368 pp. \$15.

Science Policy Studies. A. Rahman and K. D. Sharma, Eds. Somaiya Publications, Bombay, India, 1974. xii, 544 pp. Rs. 80.

The Shaping of American Anthropology 1883-1911. A Frank Boas Reader. George W. Stocking, Jr., Ed. Basic, New York, 1974. xiv, 354 pp. \$12.95.

The Social Behavior of the Bees. A Comparative Study. Charles D. Michener. Belknap Press of Harvard University Press, Cambridge, Mass., 1974. xii, 402 pp., illus. \$25.

Solar Energy. Technology and Applications. J. Richard Williams. Ann Arbor Science Publishers, Ann Arbor, Mich., 1974. x, 134 pp., illus. Cloth, \$9.95; paper, \$6.95.

Solid State Physics. J. S. Blakemore, Saunders, Philadelphia, ed. 2, 1974. x, 506 pp., illus. \$16.95. Teacher's manual available.

Solide Maligne Tumoren im Kindesalter. E. Rossi, Ed. Karger, Basel, 1974. iv, 102 pp., illus. Paper, \$14.25. Pädiatrische Fortbildungskurse für die Praxis, vol. 39.

Stiff Differential Systems. Proceedings of a symposium, Wildbad, Germany, Oct. 1973. Ralph A. Willoughby, Ed. Plenum, New York, 1974. x, 324 pp., illus. \$25. IBM Research Symposia Series.

Structure and Bonding. Vol. 18. J. D. Dunitz, Ed. Springer-Verlag, New York, 1974. vi, 220 pp., illus. \$27.90.

Structure of the Human Brain. A Photographic Atlas. Stephen J. DeArmond, Madeline M. Fusco, and Maynard M. Dewey. Oxford University Press, New York, 1974. x, 166 pp., illus. Spiral bound, \$9.95.

Topics in Algebraic and Analytic Geometry. Phillip Griffiths and John Adams. Princeton University Press, Princeton, N.J., and University of Tokyo Press, Tokyo, 1974. vi, 220 pp. Paper, \$5. Mathematical Notes, No. 13.

Trimethoprim-Sulfamethoxazole. Microbiological, Pharmacological, and Clinical Considerations. Proceedings of a symposium, Boston, Mass., Dec. 1972. Maxwell Finland and Edward H. Kass, Eds. University of Chicago Press, Chicago, 1974. viii, 392 pp., illus. \$17.95.

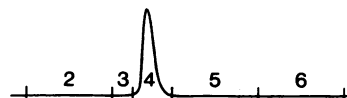
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Two Stochastic Processes. John A. Beekman. Almqvist and Wiksell, Stockholm, Sweden, and Halsted (Wiley), New York, 1974. 192 pp., illus. \$22.50.

Urban Economic Development. Suburbanization, Minority Opportunity, and the Condition of the Central City. Bennett Harrison. Urban Institute, Washington, D.C., 1974. xiv, 200 pp., illus. Cloth, \$10; paper, \$4.50.

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Body, male, Ph.D. in biological oceanography (sensory physiology and behavior), M.S. in electrical engineering (geoelectric and geomagnetic fields), B.S. in physics. Postdoctorate and industrial engineering and management experience. Desires academic position in small college or university. Curriculum vitae, reprints, and references on request. Box 520, **SCIENCE**.

Botanist. Ph.D., 7 years of teaching, publications, seeks position in small- or medium-sized college or university. Interests include taxonomy, plant-animal relationships, economic botany. Speaks Spanish. Stephen D. Koch, Rama de Botánica, Colegio de Postgraduados, Chapingo, México, México. 11/22

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Editor, natural sciences; more than 5 years of editorial experience at university press, 4 years spent handling publication of multidisciplinary science journal. Present position static; wish to relocate. Box 509, **SCIENCE**. 11/22

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Neuroanatomist/Electron Microscopist. Ph.D. Postdoctoral abroad. Presently on medical faculty. Desires teaching/research position. Research interest: developmental and pathological changes in neuroglia. Publications. Teaching experience: neuroanatomy and neurophysiology, histology, and gross anatomy. Box 504, **SCIENCE**. 11/22, 12/6

POSITIONS OPEN

ACADEMIC OPENING

The Department of Chemistry of Yale University is seeking applications for appointment to our faculty at the Assistant Professor level in inorganic chemistry. The appointment would become effective in the 1975-76 academic year. Expertise in x-ray crystallography is required; however, a research program in structural chemistry should complement a program in another subspecialty, such as bioinorganic or organometallic chemistry.

Yale has an active Affirmative Action Program and we are especially interested in minority group or female candidates who meet the above criteria.

Candidates should request referees to write and should send a curriculum vitae, a list of publications, brief summaries of predoctoral and any postdoctoral research, and a brief outline of proposed research projects to the **Chairman, Department of Chemistry, Yale University, New Haven, Connecticut 06520**. Applications should be sent promptly, preferably by 31 December 1974, to assure consideration.

ALLIED HEALTH

Faculty positions are available in a newly developing program of health related professions. Graduate degree minimum, and applicants should have experience in teaching and curriculum planning. Rank and salary dependent upon qualifications and experience. Send curriculum vitae and names of three references to: **Director, Division of Allied Health and Life Sciences, University of Texas at San Antonio, San Antonio, Texas 78285**. An equal opportunity/affirmative action employer.

ASSISTANT PROFESSORSHIPS IN CELLULAR IMMUNOLOGY, MICROBIAL REGULATION, AND PHYSIOLOGICAL ECOLOGY

A rapidly growing, well-equipped modern department of biological sciences located in the hills outside Baltimore is seeking scientists with postdoctoral research experience who have demonstrated their ability to initiate a vigorous research program. Candidates must also have a commitment to quality graduate and undergraduate teaching. Submit curriculum vitae, bibliography, names of suggested referees, and a description of research interests to: **Dr. Thomas F. Roth, Chairman, Search Committee, Department of Biological Sciences, University of Maryland Baltimore County, Catonsville, Maryland 21228**. An Equal Opportunity, Affirmative Action Employer

ASSISTANT PROFESSOR

Position available in the Department of Microbiology, University of Michigan Medical School. Candidate must have Ph.D. and 1 year of postdoctoral training or equivalents. Position is for virologist to conduct independent research in basic virology and to participate in teaching programs. Send résumé with reprints of most significant publications to **Box 514, SCIENCE**.

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ASSISTANT PROFESSOR OF ANATOMY

A position will be open in this department for 1 July 1975 for an anatomist qualified at the assistant professor level to (i) assist in the teaching of gross anatomy or histology to medical or dental students and (ii) develop his or her independent research program in an area of current interest. Interested applicants should send a curriculum vitae, names of three references (letters not required), and a letter describing teaching and research interests along with any other pertinent information to **Dr. Duane Belt, Department of Anatomy, Tufts University Schools of Medicine and Dental Medicine, 136 Harrison Avenue, Boston, Mass. 02111**. This University is an Equal Opportunity/Affirmative Action Employer.

POSITIONS OPEN

ASSISTANT PROFESSOR. Undergraduate and master's level teaching/research in Animal Physiology. Ph.D. required. Applicants must have competence in vertebrate systemic physiology with broad undergraduate training in biology. Send a curriculum vitae, three letters of reference, and complete transcripts to **Dr. C. D. Vanicek, Chairman, Department of Biological Sciences, California State University, Sacramento, Sacramento, California 95819**, by 15 February 1974. An Equal Opportunity/Affirmative Action Employer.

ASSISTANT/ASSOCIATE PROFESSOR OF ANATOMY

Available 1 July 1975 to teach histology/embryology. Research interest open. Send curriculum vitae, list of publications, and names of references to: **Dr. Harold Brody, Chairman, Department of Anatomical Sciences, State University of New York at Buffalo, Buffalo, New York 14214**.

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ASSISTANT PROFESSOR OF BIOCHEMISTRY

Full time beginning September 1975. Interests in metabolic regulation at the molecular level (including control of nucleic acid and protein biosynthesis) or the molecular basis of nutrition. Outstanding candidates in other areas also considered. Duties include teaching in graduate, undergraduate, or professional programs. Contact: **Chairman, Department of Biochemistry, State University of New York at Buffalo, Buffalo, New York 14214**.

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ASSISTANT PROFESSOR—CYTOLOGIST

Ph.D. or M.D.; to develop graduate programs and teach with medical histology team. Preference given for postdoctoral experience in fine structure of cell surfaces. *Applications from women and minority groups especially welcome.* Submit curriculum vitae and letters of recommendation to **Dr. D. E. Kelly, Department of Anatomy, University of Southern California, Los Angeles, California 90033**.

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ASSISTANT PROFESSOR—WILDLIFE BIOLOGY

Position available as a joint appointment in Institute of Animal Resource Ecology and Department of Zoology beginning in July 1975 for one person to develop an integrated program in wildlife studies and resource management. Candidate must have ability to do quantitative field studies on larger mammals or birds and to direct graduate work on wildlife species. Teaching will involve one undergraduate course in ecology or behavior and a graduate course in area of specialization.

Curriculum vitae and names of three referees should be sent to **Dr. W. G. Wellington, Director, Institute of Animal Resource Ecology, University of British Columbia, Vancouver, Canada V6T 1W5**. Closing date: 31 January 1975.

BACTERIAL PHYSIOLOGIST

A faculty position is available to develop a teaching and research program in a Ph.D.-granting institution. Rank and salary are dependent on qualifications. Interested applicants should submit a curriculum vitae including area of research interest and three referees to: **Dr. Harold W. Rossmore, Department of Biology, Wayne State University, Detroit, Michigan 48202**.

An Equal Opportunity Employer

UNIVERSITY OF VICTORIA DEPARTMENT OF BIOLOGY

Applications are invited for a continuing position to teach and organize the Department's introductory biology course. The appointment will be made at the Assistant Professor level, although applicants with exceptional experience and qualifications may be considered at a higher rank. Applicants must hold a doctorate degree, have previous experience and a special interest in teaching introductory biology, and be active scholars in their field of research. The area of specialized research is of less consequence than the applicant's abilities as a teacher, although a field complementing the Department's specializations in marine science or field biology is desirable. Teaching duties commence in September 1975, and the closing date for applications is 31 December 1974.

Applications should include a curriculum vitae and the names of three referees. Applications should be directed to **Dr. Michael Ashwood-Smith, Chairman, Department of Biology, University of Victoria, Victoria, B.C., Canada V8W 2Y2**.

POSITIONS OPEN

ASSISTANT INHALATION RESEARCH TOXICOLOGIST

Required at Toxic Hazards Research Laboratory in Dayton, Ohio

To perform and participate in a variety of research assignments pertinent to conducting environmental toxicology studies to determine the effects of environmental contaminants on living systems. The Toxic Hazards Research Laboratory is a unique facility equipped with automatically controlled exposure chambers designed for prolonged continuous and intermittent animal exposures.

Position requires college graduate with minimum of B.S. degree in biological sciences or chemistry and 2 years experience in applied toxicology or equivalent. Knowledge of inhalation techniques is essential.

Send résumé, including salary requirements, to:

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CELL BIOLOGIST NORTHWESTERN UNIVERSITY

Full-time faculty position available for 1 September 1975 in the Department of Biological Sciences. Salary and academic rank (Instructor or Assistant Professor) to depend on qualifications. Applicants will be evaluated in terms of how research and teaching interests integrate with existing strengths in the department (development, physiology, endocrinology, or membrane biology).

Send curriculum vitae and names of three referees to: James L. Oschman, Department of Biological Sciences, Northwestern University, Evanston, Illinois 60201.

Northwestern University is an Equal Opportunity Employer

POSITIONS OPEN

TWO VISITING INSTRUCTORS OR ASSISTANT PROFESSORS OF BIOLOGY to be appointed for 2 years each. Teaching duties include introductory biology and two of the following: embryology, cell physiology, vertebrate histology, and general ecology. Interested persons should send curriculum vitae, transcripts, and three letters of reference by 10 January 1975 to: **Chairman Search Committee, Biology Department, Kenyon College, Gambier, Ohio 43022.** Kenyon College is an Equal Opportunity Employer.

McGILL UNIVERSITY, DEPARTMENT OF BIOLOGY

HUMAN OR MAMMALIAN CELL GENETICIST
NEUROBIOLOGIST
TERRESTRIAL PLANT ECOLOGIST competent to develop a course in Canadian Flora
VERTEBRATE ETHOLOGIST

Four Assistant Professors will be hired in 1975 to join the regular academic staff in the Biology Department (currently approximately 50 members). Expertise is required in one of the four fields indicated above. The Department has major and honours programs and groups of staff members conducting research in these four areas. All staff are expected to establish their own research programs and to take an active part in teaching undergraduate and graduate students. Applicants should send a curriculum vitae and the names of suitable referees before 31 January 1975 to Ms. E. Mader, Administrative Assistant, Department of Biology, McGill University, P.O. Box 6070, Station A, Montreal, Quebec, Canada, H3C 3G1.

DEPARTMENT OF BIOLOGY CASE WESTERN RESERVE UNIVERSITY

Two faculty positions at the junior or senior level are available starting September 1975. Areas to be considered: (i) Eukaryotic Genetics (any research specialty ranging from Molecular to Population Genetics), (ii) Cell Biology (preference for an individual whose research program includes Electron Microscopy). Applicants should have a strong commitment to research, undergraduate and graduate education. Interested persons should submit a curriculum vitae plus a brief statement of current research interests, and have three letters of recommendation sent to Dr. Norman B. Rushforth, Chairman, Department of Biology, Case Western Reserve University, Cleveland, Ohio 44106. Case Western Reserve University is an Equal Opportunity Employer.

CARDIOLOGIST

Academically trained individual needed to direct coronary care unit or noninvasive laboratory on university service. Should have research experience. University of California faculty appointment and salary dependent upon qualifications. New hospital under construction in West Los Angeles. Send résumé to Ellis Rolett, M.D., Chief, Cardiology Section, VA Wadsworth Hospital Center, Los Angeles, Calif. 90073. An equal opportunity employer.

CHAIRPERSON, BIOLOGY, SEPTEMBER 1975

Appointee is expected to hold earned doctorate, have at least 3 to 5 years of concurrent teaching and administrative experience, should be active in research and have teaching interests in anatomy and genetics. Department currently consists of eight full-time faculty, serving more than 80 junior and senior majors and a small graduate program. Salary commensurate with experience and background. An Equal Opportunity/Affirmative Action Employer. Send letters of recommendation and curriculum vitae to Dean Donald P. Gavin, Dean of Graduate School, John Carroll University, Cleveland, Ohio 44118.

POSITIONS OPEN

UNIVERSITY OF GUELPH CHAIRMAN OF THE DEPARTMENT OF HUMAN KINETICS DIRECTOR OF THE SCHOOL OF PHYSICAL EDUCATION

Applications are invited for the combined position of Chairman of the Department of Human Kinetics and Director of the School of Physical Education, the appointment to be effective from 1 July 1975, when the present Director will complete his second term of office, or as soon as possible thereafter.

The Chairman of the Department of Human Kinetics acts as the Director of the School of Physical Education, as well as administering the affairs of the Department of Athletics through its Director. The Department of Human Kinetics will be entering into the training of graduate students in 1975 as well as carrying a well established undergraduate programme. The position requires a recognized scholar with broad knowledge of human movement. Experience in university teaching is desirable.

The term of office is 3 to 5 years, with a possible extension upon review.

Enquiries and applications, which will be treated in confidence, should be addressed to: The Secretary, Selection Committee, Dean's Office, College of Biological Science, University of Guelph, Guelph, Ontario, Canada, N1G 2W1.

Closing date for applications is 1 January 1975.

CHAIRMANSHIPS

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Qualifications:

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- 3) Established reputation in research based upon creative, innovative biomedical investigation.
- 4) Experience in organizing and developing programs in effective delivery of health care in both ambulatory and inpatient settings.
- 5) Unequivocal interest in leading a large academic department in a time of rapidly changing influences and directions.

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CHAIRMAN OF DEPARTMENT OF HORTICULTURE. Department includes areas of Floriculture and Ornamentals, Horticultural Education, Landscape Design, Pomology, Vegetable Crops, and Horticultural Processing. Minimum qualifications include Ph.D. degree, 10 years of experience in horticultural teaching, research, extension, or administration. *The University of Maryland is an Equal Opportunity/Affirmative Action Employer.* Interested and qualified persons may apply to: C. W. Reynolds, Search Committee Chairman, Department of Horticulture, University of Maryland, College Park, Md. 20742.

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With specific experience in diagnostic Virology and Serology in a hospital setting.

For modern teaching hospital with excellent facilities, working conditions and benefits.

A Grade 3 vacancy also exists.

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The Wellesley Hospital
160 Wellesley St., East
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POSITIONS OPEN

UNIVERSITY OF WISCONSIN-MADISON.

The Department of Chemistry is seeking applications for an assistant professor position in **Analytical Chemistry**. The primary requirement is promise of excellence in research and teaching. Preference will be given to persons with interests in the areas of separations or bioanalytical chemistry or interests which are complementary to our present staff activities. The teaching duties associated with this position include participation in the undergraduate chemistry program and analytical graduate courses on a rotating basis. *The University of Wisconsin is an Equal Opportunity Employer with an Affirmative Action Program and welcomes applications from women and minority candidates.* Applicants should send curriculum vitae and names of three references to: **D. H. Evans, Department of Chemistry, The University of Wisconsin-Madison, Room 3335, Madison, Wis. 53706.**

CHESAPEAKE BAY INSTITUTE

Staff research position available January 1975 for a Zooplankton Biologist/Marine Microbiologist with a Ph.D. To study nutrient dynamics and energy transfer in estuary and coastal ocean. Experience in nutrient chemistry desirable. Excellent working surroundings and benefits. Send curriculum vitae and names of three professional references to: **The Office of Personnel Services, First Floor, Garland Hall, The Johns Hopkins University, Baltimore, Maryland 21218.** *An Equal Opportunity Employer.*

Immediate opening for **CLINICAL NEUROLOGIST** with postgraduate training and research experience in neuropharmacology. To be appointed Assistant Professor in the Departments of Neurology and Pharmacology. Applicant should send curriculum vitae and names of three references to: **John Gilroy, M.D., Professor and Chairman, Department of Neurology, Wayne State University, School of Medicine, 3825 Brush Street, Detroit, Michigan 48201.**

COMPARATIVE PHYSIOLOGIST. Research interests in regulatory physiology at the organismal or cellular level. Undergraduate teaching in general vertebrate zoology or introductory biology, and comparative physiology, graduate teaching in area of research competence. Postdoctoral experience and/or outstanding research potential required. Position available July 1975; Assistant Professor rank. Please send biographical summary, publications, and three letters of reference to **Chairman, Physiology Search Committee, Department of Zoology, University of North Carolina, Chapel Hill, N.C. 27514.** *An Equal Opportunity Employer.*

COMPARATIVE PHYSIOLOGIST, Assistant or Associate Professor, for fall 1975. Teaching includes comparative physiology of adaptation, metabolism, and function of cells and organ systems. Postdoctoral research experience, publications essential. Apply: **Dr. John S. Willis, Department of Physiology and Biophysics, University of Illinois, 524 Burrill Hall, Urbana, Illinois 61801.** *The University of Illinois at Urbana-Champaign is an Affirmative Action/Equal Opportunity Employer and encourages applications from members of minority groups and women.*

DEAN OF FACULTY AND PROVOST

The John Jay College of Criminal Justice, City University of New York, invites applications for the position of Dean of Faculty and Provost. The college places particular emphasis on preparation for careers in criminal justice and public service. Earned doctorate, college teaching experience, publications, and academic administrative experience is essential. Some experience in criminal justice education desirable. Salary negotiable. Applications (including a résumé and a list of references) should be sent by 15 December 1974, to **Ruth A. Lonsdale, Secretary to the Faculty Search Committee, John Jay College of Criminal Justice, 444 West 56 Street, New York, New York 10019.**

An Equal Opportunity Employer

DEAN OF NATURAL SCIENCES SAN FRANCISCO STATE UNIVERSITY

Applications are sought for Dean of comprehensive science program comprising 140 faculty engaged in teaching and research and 2400 FTE students in new well-equipped science complex. Degrees through master's. Start August 1975. For further information, send summary résumé before 15 January to **Search Committee, Box 27068, San Francisco State University, San Francisco, Calif. 94127.** *Affirmative Action Employer.*

POSITIONS OPEN

CYTOGENETICIST

A position as a Research Fellow or Research Associate is open for a cytogeneticist. Candidates should have demonstrated competence as an independent investigator in human cytogenetics. Applicants should send their curriculum vitae, reprints, and the names of two people qualified to assess their capabilities to: **Janet D. Rowley, M.D., Box 420, Department of Medicine, University of Chicago, 950 East 59 Street, Chicago, Illinois 60637.** *The University of Chicago is an Equal Opportunity Employer.*

CYTOTECHNOLOGIST

A position is open for a technologist with experience in human cytogenetics. Applicants should be familiar with the preparation of chromosomes in metaphase and with the identification of human chromosomes with the new banding techniques. Candidates should send a résumé of their experience and the names of two people qualified to assess their capabilities to: **Janet D. Rowley, M.D., Box 420, Department of Medicine, University of Chicago, 950 East 59 Street, Chicago, Illinois 60637.** *The University of Chicago is an Equal Opportunity Employer.*

Central Michigan University is seeking a **DEAN FOR THE SCHOOL OF ARTS AND SCIENCES.** Duties commence 1 July 1975. Minimal requirements include an earned Ph.D. in a discipline taught within the School, scholarly productivity, recent teaching experience at the university level and 2 years of academic administrative experience.

The University enrollment stands at approximately 14,000 students. The School of Arts and Sciences is the largest of the five schools within the University. While 11 of the School's 14 departments offer graduate degrees at the master's level, the major thrust is undergraduate teaching. More than half of the 600 University faculty positions are in the School of Arts and Sciences. The School includes the departments of Biology, Chemistry, Economics, English, Foreign Languages, Geography, Geology, History, Mathematics, Philosophy, Physics, Political Science, Sociology and Anthropology, and Speech and Dramatic Arts.

Qualified persons should write immediately for application procedures to: **Chairperson, The Dean Search Committee, Box 117, Central Michigan University, Mt. Pleasant, Michigan 48859.** *Central Michigan University is an Equal Opportunity/Affirmative Action Employer.*

DIRECTOR

Immediate opening for a person qualified to assume responsibilities for the development and supervision of the curriculum, budget, personnel, and instructional facilities of the Division of Science and Mathematics in a comprehensive community college. Earned doctorate required, preferably in a discipline in science or mathematics with broad interest in science education; demonstrated superior teaching abilities and administrative leadership potential preferably in a comprehensive community college required. Closing date for receipt of applications, 1 December 1974. Applicants should send complete information to **Dr. Martin VanDyke, Dean, General Studies, Community College of Denver, North Campus, 1001 East 62nd Avenue, Denver, Colorado 80216.** *The Community College of Denver is an Affirmative Action/Equal Opportunity Employer.*

ECOLOGIST

The Department of Zoology at the University of Michigan expects to have a position available in the fall of 1975 for an assistant professor whose primary duties will be teaching and research in the area of ecology. Applications, including three letters of recommendation and a detailed statement of academic/research interests, should be sent to **D. H. Janzen, Department of Zoology, University of Michigan, Ann Arbor, Mich. 48104.**

A Nondiscriminatory, Affirmative-Action Employer

The Faculty of Medicine of MEMORIAL UNIVERSITY OF NEWFOUNDLAND

Will appoint an Endocrinologist to its Basic Sciences Division in 1975. Individuals with research interests in metabolic regulation, neuroendocrinology, or membrane studies will be considered.

Interested applicants should send résumé and names of three references to: **Dr. Bruce H. Sells, Laboratories of Molecular Biology, Faculty of Medicine, Memorial University of Newfoundland, St. John's, Newfoundland, Canada, before 15 December 1974.**

POSITIONS OPEN

ENVIRONMENTAL HEALTH SCIENCE—Faculty Position—January 1975 opening for assistant professor in expanding Allied Health Sciences Program. Research and teaching experience in Public Health and Epidemiology preferred along with strong basic sciences background. Doctorate required. Competitive salary and excellent fringe benefits commensurate with qualifications. *Equal Opportunity/Affirmative Action Employer.* Submit résumé and three professional references to: **Director, Allied Health Sciences Program, Division of Natural Sciences & Mathematics, York College, CUNY, 150-14 Jamaica Avenue, Jamaica, New York 11432.**

EPIDEMIOLOGIST. Division of Health Sciences, University of Delaware. Ph.D. and/or M.D. required. Applicants should be experienced in the social and environmental, as well as the etiological, bases of epidemiological problems and research in the medical and health sciences. Familiarity and/or training in the following areas is desirable: sociology, cultural anthropology, environmental studies, public health, preventive medicine, and health education.

Position would require research activity, and teaching at the undergraduate level in the field of epidemiology, related areas, and one's own specialty. Possibility of graduate teaching through joint appointment in the department of one's principal discipline.

Appointment is open at any rank. Salary is competitive and commensurate with experience. Twelve-month contract. Liberal fringe benefits. Available February, June, or September 1975. Applications accepted until 1 January 1975. Letters of application will not be acknowledged.

The University of Delaware is an Equal Opportunity Affirmative Action Employer.

Send credentials, with letters of recommendation to:

Professor Anne W. Clark, Secretary, Epidemiology Search Committee, Division of Health Sciences, 103 Willard Hall Building, University of Delaware, Newark, Delaware 19711.

Faculty opening for September 1975. Assistant Professor of Biochemistry with strong background in lipids and/or carbohydrates preferred. Capable of teaching undergraduate biochemistry and introductory courses. Research encouraged. Forward application, curriculum vitae, transcripts, and three letters of reference to: **Secretary, Faculty Search Committee, College of Arts, Sciences, and Letters, The University of Michigan-Dearborn, Dearborn, Michigan 48128.** *A Nondiscriminatory, Affirmative Action Employer.*

FOUR FACULTY POSITIONS

Available at a rank commensurate with experience in the Department of Microbiology. Applicants should have postdoctoral experience, demonstrated capability for a vigorous, independent research program and a desire to teach medical and graduate students. Their training and research program should also lend themselves to natural collaboration with a group of molecularly oriented cell biologists. Research interests should include one of the following: (i) cellular immunology, (ii) DNA or tumor virology or developmental biology, and (iii) fungal or bacterial genetics and development.

We seek to fill these positions by September 1975. Send curriculum vitae and reprints and arrange to have three letters of recommendation sent to **Dr. Donald J. Tipper, Department of Microbiology, University of Massachusetts Medical School, Worcester, Mass. 01605.**

Application deadline: 31 January 1975.

An Affirmative Action/Equal Opportunity Employer

GROSS ANATOMIST

Applications are invited from qualified persons with Ph.D. and/or M.D. degrees for an assistant or associate professorship in the Section of Gross Anatomy, Department of Surgery, Yale University School of Medicine, New Haven, Conn. The principal teaching duty will be to instruct medical students in Gross Anatomy. Candidates should also have demonstrated capacity for original research. Send applications, curriculum vitae, publications list, important reprints, and letters of recommendation to **Dr. Thomas R. Forbes, Section of Gross Anatomy, Department of Surgery, School of Medicine, Yale University, New Haven, Conn. 06510.** *An Equal Opportunity/Affirmative Action Employer.*

POSITIONS OPEN

FACULTY POSITION

Department of Microbiology, Emory University, Atlanta, Ga. Assistant or Associate Professor, teaching responsibility for professional and graduate courses, research interest in cellular immunology. Submit curriculum vitae and names of three references. *Emory University is an Affirmative Action/Equal Opportunity Employer.* Box 515 SCIENCE.

The University of Michigan-Dearborn is seeking applications for a faculty position in **ORGANIC CHEMISTRY**. A Ph.D. is required, postdoctoral experience and versatility in teaching will be assets. Duties will include teaching Organic Chemistry laboratories and lectures, and a variety of freshman chemistry courses. Research is expected. Send curriculum vitae and three letters of recommendation to **Faculty Search Secretary, College of Arts, Sciences, and Letters, The University of Michigan-Dearborn, Dearborn, Michigan 48128.** A nondiscriminatory, affirmative action employer.

HEAD DEPARTMENT OF BIOLOGICAL SCIENCES UNIVERSITY OF CINCINNATI

Applications and nominations are invited for the position of Head of the Department of Biological Sciences. The department is one of the largest in this university having 23 faculty with major interests in Cell Biology, Ecology, Evolution and Systematics, Genetics, and Physiology. Another program in Developmental Biology is offered jointly with faculty from the College of Medicine. Approximately 100 undergraduate majors are graduated per year and 50 to 60 graduate students are enrolled in the department. The facilities housing the department were dedicated in 1970.

Qualifications: A distinguished record of achievement in research and teaching, and evidence of administrative leadership.

Please respond to: **Professor Richard A. Day, Search Chairman, Department of Chemistry, University of Cincinnati, Cincinnati, Ohio 45221.** An equal opportunity, affirmative action employer.

INSTRUCTOR/ASSISTANT PROFESSOR

Position available immediately in the Department of Pharmacology. Candidate with Ph.D. in pharmacology, teaching experience, and commitment to research is desirable. Send curriculum vitae and three letters of recommendation to: **Dr. Venkatray G. Prabhu, Chairman, Department of Pharmacology, Chicago College of Osteopathic Medicine, Chicago, Illinois 60615.**

An equal opportunity employer

THE SCHOOL OF OPTOMETRY, UNIVERSITY OF CALIFORNIA, Berkeley, has a permanent position immediately available at the assistant professor level. The Department hopes to attract a person with a background in optometry and graduate training in one of the following areas: optics, vision for the partially sighted, or community health optometry. The person would be expected to carry out active research in the person's own field of interest and teach in the School of Optometry.

The University of California is an equal opportunity employer with an Affirmative Action Program and welcomes applications from women and minority candidates.

Submit complete curriculum vitae and reprints to **Dr. Kenneth A. Polse, School of Optometry, University of California, Berkeley, California 94720.**

Section of Molecular Pharmacology of the University of Mainz, Germany.

RESEARCH ASSOCIATES
(Ph.D. in Biochemistry, Organic Chemistry or Cell Biology)

TECHNICIANS WITH MASTERS DEGREE (Biochemist, Organic Chemist or Cell Biologist)

required for well-equipped research laboratory to work on mechanisms of chemical carcinogenesis, involving synthetic and/or biochemical work, animal experimentation and/or tissue culture.

Salary within the range of \$12,000 to \$18,000 per annum for the research associate, \$8,000 to \$15,000 for the technician.

Start of appointment 1 December 1974 or later (some openings 1 April 1975).

Experience in solubilization, purification and study of enzymes and knowledge of German an advantage but not a prerequisite. Detailed applications with the names of referees and giving relevant laboratory experience should be sent to **Dr. F. Oesch, Biozentrum der Universität, Klingelbergstrasse 70, CH-4056 Basel, Switzerland.**

22 NOVEMBER 1974

POSITIONS OPEN

DIRECTOR IMMUNOLOGY RESEARCH

Three to five years minimum Industrial Diagnostic Product Development including protein isolation by several methods. Supervisory and Managerial experience required.

Salary, stock purchase and stock options commensurate with accomplishments. Box 525, SCIENCE.

MEDICAL EDITOR

Newly created position available for individual to enhance the scope and direction of our Publications Department. Experience in medical/scientific editing and writing helpful. Most publications submitted by 140 physician scientist staff of Scott & White Clinic associated with Scott & White Memorial Hospital. Competitive salary and complete benefit package.

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MEDICAL MYCOLOGIST

Associate professor of Medical Mycology. Experienced in teaching and clinically oriented research (with publications); immunology of yeasts and "opportunistic" fungi preferred. Send complete curriculum vitae to **Dr. Dighton F. Rowan, Director, Advanced Microbiology Division, Southern Illinois University School of Medicine, P.O. Box 3926, Springfield, Illinois 62708.**

An Equal Opportunity Employer

NEUROPHYSIOLOGIST—BEHAVIORAL BIOLOGIST

A faculty position is available to develop a teaching and research program in a Ph.D. granting institution. Rank and salary are dependent on qualifications. Interested applicants should submit a curriculum vitae including area of research interest and three referees to: **Dr. K. Mayeda, Department of Biology, Wayne State University, Detroit, Michigan 48202.**

An Equal Opportunity Employer

PHARMACOLOGY—Ph.D.

Marketing

Hoechst, one of the world's largest Pharmaceutical/Chemical companies has a new opening in its Pharmaceutical Marketing Department. This position has responsibility for providing technical expertise to our Marketing Department and in communications with outside physicians.

We are seeking a candidate with a Ph.D. in Pharmacology or Phycology and preferably some research background in neuropharmacology. Excellent verbal and writing skills are required. This would be an excellent opportunity for individual now in research to enter the field of pharmaceutical marketing.

Our new campus-like facilities are located on 110 acres in suburban area. Excellent compensation/benefit package. Write, including résumé and current earnings to **Manager Professional Employment, Corporate Personnel, Hoechst-Roussel Pharmaceuticals Inc., Route 202-206 North, Somerville, N.J. 08876.**



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POSITIONS OPEN

MARINE ECOSYSTEMS ECOLOGIST

The University of Southern California invites applications for full-time faculty position for a person experienced in research in marine ecosystems, modeling of ecosystems and mathematical ecology. Although the vacancy is formally listed at the Assistant Professor level, rank and salary can be negotiated dependent on qualifications; opportunity for leadership of marine biology program. Send curriculum vitae to **Dr. Bernard C. Abbott, Chairman, Department of Biological Sciences, University of Southern California, Los Angeles, Calif. 90007.**

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Action Employer*

OCEANOGRAPHIC INSTRUMENTATION ENGINEER—FACULTY

Position requires Ph.D. and demonstrated ability to plan, organize, and carry out major applied science projects in the marine environment. Principal competence sought in electro-mechanical area to conceive, design and test equipment and systems for ocean exploration, monitoring, data acquisition, and processing. At least 3 years of industrial or academic experience desired. Responsibilities will involve establishment of self-sustaining research program, contributions to ongoing research projects, graduate teaching, student advisement, and occasional public service duties. *An Affirmative Action/Equal Opportunity Employer.*

Write to: **Dr. V. Klemas, College of Marine Studies, University of Delaware, Newark, Delaware 19711, (302) 738-1212.**

OCEANOGRAPHIC INSTRUMENTATION ENGINEER—APPLIED SCIENTIST

Position requires Ph.D. and demonstrated ability to plan, organize, and carry out major applied science projects in the marine environment. Principal competence sought in electro-mechanical area to conceive, design, and test equipment and systems for ocean exploration, monitoring, data acquisition, and processing. At least 3 years of industrial or academic experience desired. Responsibilities will involve establishment of self-sustaining research program, contributions to ongoing research projects, graduate teaching, student advisement, and occasional public service duties.

Location is at Marine Studies Center of the University of Delaware, Lewes, Delaware. Position is with the College of Marine Studies, a graduate professional organization offering the M.S., M.A., and Ph.D. degrees. Rank and salary are open, commensurate with record of accomplishment and future potential. Starting date is flexible with optimum time being January through June 1975.

The University of Delaware is an equal opportunity and affirmative action employer.

Send application and inquiries to: **Dr. Vytautas Klemas, Chairman of Search Committee, College of Marine Studies, University of Delaware, Newark, Delaware 19711, (302) 738-1212.**

COLLEGE OF PETROLEUM AND MINERALS DHAHRAN, SAUDI ARABIA

Overseas opportunities for academic year 1975/76 in a new science and engineering college for faculty in chemical, civil, electrical, mechanical, and system engineering. Ph.D. degrees and teaching experience required. Also opportunities at various academic levels for engineering technologists and technicians, and in chemistry, English (TEFL—M.A. in TEFL with 2 to 3 years of teaching experience—and college level), geology, mathematics, and physics. Challenging assignments in undergraduate programs, some of which are evolving into research and graduate levels. Minimum regular contract for 2 years renewable. Competitive salaries, free air-conditioned furnished housing, free air transportation to and from Dhahran each 2-year tour. Attractive educational assistance grants for school-age children. Transportation allowance in cash per month. Ten-month duty each year with 2 months' vacation and possibility of participating in college's ongoing summer program with additional compensation. Apply with résumé, including age and sex of children, nationality, list of references, home and office addresses, and telephone numbers, to:

**College of Petroleum & Minerals
Saudi Arabian Educational Mission
880 Third Avenue—17th Floor
New York, N.Y. 10022**

Prospective candidates to be interviewed by college recruiter in early 1975.

POSITIONS OPEN

The **DEPARTMENT OF PHYSIOLOGY** at The University of Texas Health Science Center at San Antonio is seeking to hire one faculty member in each of the following areas:

- 1) An **Endocrinologist** to teach the molecular aspects of endocrine physiology and to carry out research on calcitonin and parathyroid hormone and their action on bone.
- 2) A **Cardiac Physiologist** to teach broad areas of cardiovascular physiology and to carry out research in some aspect of cardiac physiology.
- 3) A **Respiratory Physiologist** to teach respiratory physiology and to carry out research in some area of this field.
- 4) A **Neurophysiologist** to teach neurophysiology and to carry out research in motor aspects of central nervous system function.

The positions are at the Assistant Professor level. A Ph.D. or M.D. or other appropriate doctoral degree is required as is relevant research experience.

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

If interested in being a candidate for one of these positions, please send a copy of your curriculum vitae and bibliography to **Dr. Edward J. Masoro, Department of Physiology, The University of Texas Health Science Center at San Antonio, 7703 Floyd Curl Drive, San Antonio, Texas 78284.**

TEACHING POSITION AVAILABLE SEPTEMBER 1975

PHYSIOLOGIST. Assistant Professor, Ph.D. Undergraduate and graduate teaching in vertebrate physiology and zoology; preference for research at cell-organ level with background in special sensory organs or reticulo-endothelial system; postdoctoral experience desirable; direct graduate students and participate actively in research. Write **Dr. A. W. Pritchard, Chairman, Search Committee, Department of Zoology, Oregon State University, Corvallis, Oregon 97331. OSU is an affirmative action employer.**

PLANT DEVELOPMENT BIOLOGIST

A faculty position is available to develop a teaching and research program in a Ph.D. granting institution. Rank and salary are dependent on qualifications. Interested applicants should submit a curriculum vitae including area of research interest and three referees to: **Dr. Robert B. Goldberg, Department of Biology, Wayne State University, Detroit, Michigan 48202. An Equal Opportunity Employer.**

POSTDOCTORAL ASSOCIATE

Immediate position available for biochemist interested in research in protein biosynthesis mechanism. Send résumé to:

**Dr. S. Chladek
Michigan Cancer Foundation
110 E. Warren
Detroit, Michigan 48201**

DEPARTMENT EXECUTIVE OFFICER

Will work with Chairman of Chemistry Department to provide administrative and management planning services and coordinate many-faceted operations of the department. Responsibilities will include supervision and coordination of business activities such as preparation of departmental budgets, monitoring of contract and grant expenditures and planning for research and teaching facilities. Responsibilities will also include supervision of administrative staff in charge of business, student affairs, facilities, and personnel records. Will interface very closely with faculty, staff and students in planning, coordination, and implementation of departmental objectives. Candidates for this position should have proven administrative ability, organizational talent, management and fiscal experience and leadership record, preferably in the chemistry or related area of a research or teaching enterprise. College degree and good background in Chemistry. Experience in contract and grant administration highly recommended. Salary range \$19236 to \$25776 annually, depending upon qualifications. Send complete résumé including salary requirements to **UCSD, Employment Office (DEO-14), Bldg. 510 MC, Box 109, La Jolla, CA. 92037. A nondiscriminatory, affirmative action employer.**

POSITIONS OPEN

PHYSIOLOGIST

Assistant or Associate Professor of Physiology to start as early as 1 July 1975. Neuroendocrinologist preferred with special interest in biosynthesis and structure of protein hormones to work collaboratively with well-established group. Successful candidate will be expected to participate in undergraduate and graduate teaching and to continue high quality research program. Applicants should send curriculum vitae and names of referees to **Dr. J. Kraicer, Department of Physiology, Queen's University, Kingston, Ontario, Canada.**

THE DEPARTMENT OF BOTANY, University of North Carolina at Chapel Hill, has an opening for a **PLANT ECOLOGIST** available fall 1975. Applicants with a Ph.D. and interest in physiological ecology, quantitative ecology, or aquatic ecology are invited to write to **Dr. Helmut Lieth, Chairman, Search Committee, Department of Botany, University of North Carolina, Chapel Hill, N.C. 27514.** Graduate and undergraduate teaching. Rank and salary determined by qualifications. Send curriculum vitae, bibliography, and a complete list of references. *The University of North Carolina is an Equal Opportunity Employer with an Affirmative Action Program. Applications from members of minority groups and women are therefore welcome.*

PLANT PATHOLOGIST. Needed is a group leader to conduct testing of a large number of compounds as potential fungicides and bactericides at the laboratory and greenhouse level. Person should have Ph.D. or equivalent experience and an interest in crop protection. Should be able to plan and execute an innovative research program for improved methodology on both foliage and soil diseases. Develops data and recommendations for program of separate field research group. Persons interested should send résumé to **R. K. Thompson, Chevron Chemical Co., 940 Hensley Street, Richmond, California 94804.**

Kirkland College, a liberal arts college for women coordinate with Hamilton College, announces the following opening:

PLANT PHYSIOLOGIST OR PHYSIOLOGICAL PLANT ECOLOGIST. Interest in lower plants, for spring term beginning 1 February; January winter study term optional. Semester replacement for sabbatical, Ph.D. or very near; rank and salary commensurate with qualifications and experience. Can arrange interviews at AAAS convention; send curriculum vitae to **Nadine F. George, Acting Chairperson, Science Division, Kirkland College, Clinton, N.Y. 13323. Affirmative Action/Equal Opportunity Employer.**

DEPARTMENT OF AGRONOMY UNIVERSITY OF ILLINOIS

Postdoctoral positions available for research in several areas of Agronomy including Plant Physiology. All positions located at Urbana, Illinois 61801. Send résumé to **R. W. Howell. An equal opportunity employer.**

PROFESSOR: Full, Associate, or Assistant. Workers in aspects of molecular genetics or virology, qualified to teach biochemistry in a molecular biology graduate program and to participate in undergraduate biology instruction, may submit applications by 13 December 1974 to:

**Chairman, Faculty Search Committee
University of Texas at Dallas
Station 15—BA
P.O. Box 688
Richardson, Texas 75080**

An Equal Opportunity/Affirmative Action Employer

RESEARCH ASSOCIATE OR ASSISTANT PROFESSOR. Division of Orthopaedic Surgery, University of North Carolina School of Medicine. Minimum requirement: Ph.D. in Anatomy or Cell Biology, with training in electron microscopy of hard tissue. Primary responsibilities: develop research program in the ultrastructure of bone and cartilage. Duties may include some teaching in medical course on the musculoskeletal system and participation in graduate teaching. Salary based on education, experience, and recognition among peers. Send curriculum vitae, bibliography, and references to **Roy V. Talmage, Orthopaedic Research Laboratories, 327 Swing Building, University of North Carolina School of Medicine, Chapel Hill, N.C. 27514.**

An Equal Opportunity/Affirmative Action Employer

POSITIONS OPEN

POSTDOCTORAL POSITION

Postdoctoral Position available 1 January 1975 for research on structure and function of hemoglobin. Background in protein biochemistry or protein crystallography desirable. Salary \$9400 for 12 months. Send inquiries and two letters of recommendation to **Dr. Phillip D. Pulsinelli, Department of Medicinal Chemistry, School of Pharmacy, University of Pittsburgh, Pittsburgh, Pa. 15261. An equal opportunity/affirmative action employer.**

POSTDOCTORAL FELLOW OR RESEARCH ASSOCIATE

Available immediately for research into laboratory culture and studies of larval blackflies in conjunction with the program on biocontrol. Salary commensurate with experience and qualifications. Send application, and so forth, to **Dr. M. Laird, Director, Research Unit on Vector Pathology, Memorial University of Newfoundland, St. John's, Newfoundland.**

POSTDOCTORAL FELLOW

Position available for postdoctoral fellow (M.D. or Ph.D.) in laboratory for studies of endocrine aspects of bone disease (experience with radioimmunoassay desirable). Apply to **Dr. David Baylink, Veterans Administration Hospital, 4435 Beacon Avenue South, Seattle, Washington 98108.**

WESLEYAN UNIVERSITY. Full Professor of Psychology and also possibly Assistant Professor, starting September 1975. Field of personality-psychopathology given preference, though all general fields will be considered. Breadth of interest, including work in other fields of natural science, social science, or humanities is highly desirable. Wesleyan has a faculty of 14, M.A. program, two courses per term teaching load. *Equal opportunity employer.* Applicants should send curriculum vitae to **Karl E. Scheibe, Chairman, Psychology Department, Wesleyan University, Middletown, Connecticut 06457.**

REPRODUCTIVE BIOLOGIST NORTHWESTERN UNIVERSITY

Full-time faculty position available for 1 September 1975 in the Department of Biological Sciences. Salary and academic rank (Instructor or Assistant Professor) to depend on qualifications. Send curriculum vitae and names of three referees to: **Neena Schwartz, Department of Biological Sciences, Northwestern University, Evanston, Illinois 6020. Northwestern University is an Equal Opportunity Employer.**

RESEARCH ASSISTANT (Assistant to the Director). Ph.D. in Transportation or related field. Demonstrated ability in oral presentation, technical writing; commitment to research and technical education administration. Prepare literature summaries and reports; represent institute at meetings; present programs; prepare newsletter; develop short courses and seminars; and so forth. Résumé and references by 1 December 1974 to **Jack E. Stephens, Acting Director, Transportation Institute, University of Connecticut, Box U-37, Storrs, Connecticut 06268. An Equal Opportunity Employer.**

RESEARCH ASSOCIATE

Postdoctoral position currently available for Ph.D. to participate in research on a number of areas dealing with the interaction between parathyroid hormone and target cell membranes. This position is available immediately with an annual stipend of \$12,000. Send curriculum vitae and at least two names of references to: **Dr. Leonard R. Forte, Department of Pharmacology, M 523 Medical Sciences Bldg., University of Missouri, Columbia, Missouri 65201. The University of Missouri is an Equal Opportunity, Affirmative Action Employer.**

SENIOR SCIENTIST with rank of full professor. Strong scholarly record required in research on the biology of aging. Optimal specialization in neurobiology or endocrinology, but other neuroscience specializations can be considered. Candidate would be expected to develop own research and assume responsibility for program development in research and research training in the biological sciences. Teaching responsibilities would be nominal and related to candidates research interest. Salary is negotiable. Contact **Dr. K. Warner Schaie, Associate Director for Research, Andrus Gerontology Center, University of Southern California, Los Angeles, Calif. 90007. An Equal Opportunity Employer.**

The Faculty of the Department of Biochemistry, University of California at Berkeley anticipates an opening at the level of Assistant Professor beginning in July 1975. The position will entail the establishment of a vigorous research program as well as teaching in departmentally administered course. It is expected that the chosen candidate will have demonstrated outstanding competence, originality, and productivity, as evidenced by research accomplishment and reputation in the field. The candidate should also be able to perform effectively both as a lecturer and in more informal teaching situations. Preference will be given to candidates whose research interests complement rather than duplicate those of current members of the department. In particular, we solicit applications from those with experience and interest in biochemical aspects of (1) growth and regulation of eucaryotic cells, (2) organization, function and assembly of supra-molecular structures, and (3) neurobiology.

A brochure describing the department facilities and faculty research programs is available on request. Applicants should submit a curriculum vitae and bibliography, a concise (500-1000 words) description of their prospective research program and names of three references, to the Chairperson of the Search Committee, at the above address.

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

UCLA

University of California, Los Angeles, Department of Geology invites applications for two-year faculty appointments as assistant professor. A Ph.D. is required. Two faculty two-year positions will be available beginning September 1975. Applicants must have truly superior capabilities in one or more of the relevant basic physical or biological sciences. Two earth scientists will be selected from the three following general areas:

1) Those engaged in research in one or more of the fields (a) igneous or metamorphic petrology; (b) ore genesis; (c) experimental or theoretical geochemistry; (d) mineral physics. Examples of emphasis include thermodynamics of irreversible processes and chemical or thermal diffusion.

2) Those engaged in research in the areas of tectonophysics, geological physics, or structural geology. Of particular interest are: (a) solid-state aspects of microscopic phenomena-fracture and flow of rocks, diffusion, thermodynamics, and lattice dynamics; (b) global tectonics; (c) quantitative modeling of large or small scale processes.

3) Marine science, those engaged in research in organic geochemistry, ecology, or marine geology. Examples of emphasis include diagenesis of sediments, interstitial water, evolution, phycology (calcareous algae), invertebrate biology, and global tectonics.

Send vitae and two letters of reference to:

Clarence A. Hall, Chairman
Department of Geology
University of California, Los Angeles
Los Angeles, California 90024

Minority and ethnic earth scientists are encouraged to apply. UCLA is an affirmative-action/equal opportunity employer.

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POSITIONS OPEN

RESEARCH/MANAGER

To manage the X-ray Central Facility of the Materials Science Center at Cornell University. This is a multidisciplinary facility serving the research needs of many departments. For an applicant with a Ph.D. the position would be similar to that of a postdoctoral one, for a limited term up to 2 to 3 years. Opportunity would be present to pursue research projects, either individually or with faculty members. At the M.S. level the position would be considered a more long-range one. Both types of applicants will be considered. The work would be more closely related to diffraction applications to solid-state and materials problems and not be involved in any large measure with crystal structure determination. Contact **B. W. Batterman**, Cornell University, Clark Hall, Ithaca, N.Y. 14853.

TEMPORARY POSITIONS AVAILABLE DEPARTMENT OF ANATOMY

Two teaching positions available at salary level of Assistant Professor. Appointment is for 6 to 12 months beginning 1 February 1975 or 1 August 1975. Positions involve laboratory teaching of freshman medical students in gross anatomy, histology, or neuroanatomy. Please send curriculum vitae and three letters of recommendation to **Dr. D. Orlic**, Department of Anatomy, New York Medical College, Valhalla, N.Y. 10595.

TEXTILES

Faculty position for research and teaching. January 1975. Ph.D. or extensive experience. Well-equipped laboratories available for chemical and physical experimentation. Responsibilities include making a major contribution to a textile science research program, directing graduate students, and teaching—undergraduate and graduate. Send résumé to **Dr. Nancy C. Saltford**, Department of Design and Environmental Analysis, New York State College of Human Ecology, Cornell University, Ithaca, New York 14853. *Cornell is an Equal Opportunity/Affirmative Action Employer.*

VERTEBRATE BEHAVIORAL ECOLOGIST

Applications are invited for position of Research Instructor, a 2-year appointment involving opportunities for teaching (vertebrate ecology, graduate course in specialty) and research (habitat utilization, foraging strategies and resource partitioning of woodland birds or small mammals). Send curriculum vitae and three letters of recommendation by 15 January 1975 to **Dr. Richard T. Holmes**, Department of Biological Sciences, Dartmouth College, Hanover, New Hampshire 03755. *Dartmouth College is an Equal Opportunity/Affirmative Action Employer.*

DEPARTMENT OF ZOOLOGY UNIVERSITY OF CALIFORNIA, DAVIS

The Zoology Department has an opening either for an Ecologist with research interests in aquatic organisms, or for a Behaviorist working on causal mechanisms or genetics of vertebrate behavior. The person appointed will be expected to conduct research and to participate actively in undergraduate and graduate teaching. The appointment will be as Assistant Professor. Persons who want to apply should send a curriculum vitae to: **The Search Committee, Department of Zoology, University of California, Davis, California 95616.** *The University is an Equal Opportunity and Affirmative Action Employer.*

DEPARTMENT OF ZOOLOGY UNIVERSITY OF ALBERTA EDMONTON, ALBERTA, CANADA T6G 2E1

Two faculty positions available 1 July 1975, as Assistant or Associate Professor in invertebrate zoology and vertebrate paleontology. Duties will include teaching in these fields at both general and advanced levels. Strong research orientation and Ph.D. are required. At the present time the department has 26 full-time academic staff members, modern quarters, advanced equipment and more than 75 graduate students (M.Sc. and Ph.D.). Applicants send a curriculum vitae and the names of three referees to **Dr. J. R. Nursall**, Chairman, before 31 January 1975.

RESEARCH ASSOCIATE

Position available to work on isolation and characterization of myelin proteins. Salary negotiable. Send curriculum vitae and names of three references to **Dr. Steven Brostoff**, Department of Neurology, Medical University of South Carolina, Charleston, S.C. 29401. *An equal opportunity/affirmative action employer.*

RESEARCH CONTRACT

RESEARCH CONTRACT EXPERIMENTS ON ABSORPTION, DISTRIBUTION, METABOLISM, EXCRETION AND PHARMACOKINETICS REQUIRED FOR CLINICAL TRIALS OF NEW ANTIMALARIAL DRUGS

The U.S. Army Medical Research and Development Command is soliciting proposals to conduct experiments on absorption, distribution, metabolism, excretion (ADME) and pharmacokinetics which are required for clinical trials of new antimalarial drugs.

The basic test series will comprise single dose experiments in two species, a pigmented strain of rat and monkeys, at one-dose level to outline the ADME of the radiolabeled drug over a reasonable time period. Advanced studies may include intraorgan localization or thin-layer chromatographic separation and determination of the parent drug. The Government will furnish the radiolabeled drug (usually ^{14}C , possibly ^3H) and unlabeled drug, and the contractor will check radiochemical purity and recrystallize to appropriate specific activity. An appropriate number of animals will be dosed, usually orally by gavage. Urine, feces, and blood will be analyzed, then at selected intervals animals will be killed and autopsied.

It is estimated that the annual workload will be three basic tests per year, plus special studies equivalent to a fourth such test series. The person who actively supervises the studies must be experienced in planning, conducting and evaluating ADME and pharmacokinetic studies of drugs as evidenced by publications and/or reports. Laboratory facilities are required for preparation of dosage media and processing of experimental materials, including radiochromatographic separations.

Organizations wishing to participate in this program should request copies of **Request for Quotation DAMD17-75-Q-5526** from the U.S. Army Medical Research and Development Command, Attention SGRD-LD, Washington, D.C. 20314.

FELLOWSHIPS

DOCTOR OF ARTS IN BIOLOGY

Applications for predoctoral fellowships are being accepted now from qualified students dedicated to college-level teaching and interested in studying for the D.A. degree in Biology. Applicants must hold an M.S. degree in Biology or its equivalent prior to the fall 1975 term. Fellowships carry a stipend of \$2800 per academic year plus tuition waiver. For details of this new program and application materials write to: **Biology Chairman, Box 8007, Idaho State University, Pocatello, Idaho 83209.**

POSTDOCTORAL FELLOWSHIP IN IMMUNOCHEMISTRY

With special emphasis on cellular antigens, including neoplastic cells. \$7200 per year plus dependency allowance. Address applications to: **Dr. Alois Nowotny**, Department of Microbiology & Immunology, Temple University School of Medicine, Philadelphia, Pa. 19140. *An Equal Opportunity, Affirmative Action Employer.*

POSTDOCTORAL FELLOWSHIP IN HUMAN BIOCHEMICAL GENETICS

Fellowships are available for postdoctoral training in a Human Biochemical Genetics group with special interest in the study and diagnosis of human genetic disorders. Training will include studies in cytogenetics, cell culture systems for biochemical studies of diseases of amino acid, purine, and lipid metabolism, cystic fibrosis, genetic screening, and prenatal diagnosis and participation in clinical genetics programs.

Interested persons should send inquiries and curriculum vitae to: **Dr. J. E. Seegmiller**, Department of Medicine, School of Medicine, University of California, San Diego, La Jolla, California 92037. *An Equal Opportunity/Affirmative Action Employer.*

FELLOWSHIPS

POSTDOCTORAL FELLOWSHIP

Subject to approval of funds postdoctoral opportunities are anticipated in the following areas of biting fly research program on biocontrol: (i) Ecology of larval blackflies, (ii) laboratory studies and culture of pathogens and parasites of biting flies, and (iii) field surveys for biting fly pathogens and parasites. Send application and so forth to **Dr. M. Laird**, Director, Research Unit on Vector Pathology, Memorial University of Newfoundland, St. John's, Newfoundland.

SUMMER SCHOOL

FOURTH SUMMER SCHOOL IN METHODS OF IMMUNOLOGIC RESEARCH AND DIAGNOSIS

The fourth biennial course on current methods of immunologic research and diagnosis will be offered by The Center for Immunology of the State University of New York at Buffalo in July 1975. The deadline for applications is 31 March 1975.

Further information may be obtained from **James F. Mohn, M.D.**, Director, The Center for Immunology, State University of New York at Buffalo, Buffalo, New York 14214.

RESEARCH PROJECT

OCEAN LIVING THE NEW FRONTIER

The Ocean Living Institute has been formed to conduct and promote research in oceanography and independent self-sufficient forms of community living on the ocean. It will encourage individuals and business firms to form investment groups to fund construction and operation of ocean based industries, serve as a clearinghouse for ocean living contacts, publish information on legal and other aspects of oceanic settlement, publish information on new concepts in oceanography, aquaculture, and oceanic settlement, and conduct tests on new concepts and devices.

The institute is a non-profit corporation and contributions of cash and supplies are deductible for federal income tax purposes. The institute is in the formative stages, and is especially interested in hearing from people who can help to develop it.

Further information is available from, and contributions should be sent to:

OCEAN LIVING INSTITUTE
23 River Road
North Arlington, New Jersey 07032

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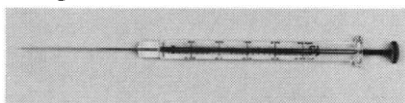
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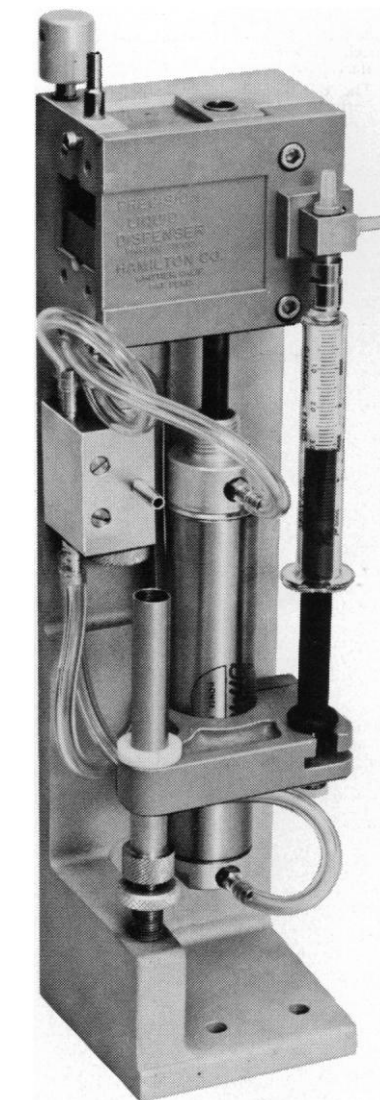
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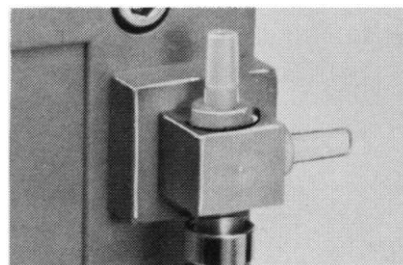


can flush and recharge the PLD in about one minute, too.

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The syringe is glass with a Teflon-tipped plunger . . . that's where the sample goes before it's dispensed. The filling tube, and dispensing tip are also inert (Teflon or CTFE). The switching point for the

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It's really quite a remarkable dispenser, with a precision that's hard to come by.

The Precision Liquid Dispenser is available from authorized dealers or direct from the factory. For more information and literature, write to Ron Sutton, Hamilton Company, Post Office Box 10030, Reno, Nevada 89510.


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2433-33	Deoxycytidine 5'-Triphosphate, Tetralithium [5- ³ H]	15,000-30,000	40./1 mc 165./5 mc
2433-34	Deoxycytidine 5'-Triphosphate, Tetrasodium [5- ³ H]	15,000-30,000	40./1 mc 165./5 mc
2433-58	Deoxyguanosine 5'-Triphosphate, Tetralithium [8- ³ H]	>10,000	40./1 mc 165./5 mc
2433-56	Deoxyguanosine 5'-Triphosphate, Tetrasodium [8- ³ H]	>10,000	40./1 mc 165./5 mc
3122-31	Glycine [¹⁴ C] (0.01 N HCl sol.) (U)	95-100	60./500 uc 110./1 mc
1433-59	Guanosine 5'-Triphosphate, Tetralithium [8- ³ H]	5,000-15,000	40./1 mc 165./5 mc
1433-60	Guanosine 5'-Triphosphate, Tetrasodium [8- ³ H]	5,000-15,000	40./1 mc 165./5 mc
3122-41	L-Leucine [¹⁴ C] (0.01 N HCl sol.) (U)	270-320	170./500 uc 320./1 mc
3122-45	L-Lysine [¹⁴ C] (0.01 N HCl sol.) (U)	270-300	170./500 uc 320./1 mc
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3122-53	L-Serine [¹⁴ C] (0.01 N HCl sol.) (U)	135-165	170./500 uc 320./1 mc
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2533-85	Thymidine [methyl- ³ H] (st. aq. sol.)	3000	60./5 mc 260./25 mc
2533-86	Thymidine [methyl- ³ H] (st. aq. sol.)	6000	60./5 mc 260./25 mc
2533-87	Thymidine [methyl- ³ H] (st. aq. sol.)	>10,000	60./5 mc 260./25 mc
2533-88	Thymidine [methyl- ³ H] (st. aq. sol.)	40,000-60,000	60./5 mc 260./25 mc
2433-94	Thymidine 5'-Triphosphate, Tetralithium [methyl- ³ H]	>40,000	40./1 mc 150./5 mc
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1433-89	Uridine 5'-Triphosphate, Tetralithium [5- ³ H]	10,000-25,000	40./1 mc 165./5 mc
1433-90	Uridine 5'-Triphosphate, Tetrasodium [5- ³ H]	10,000-25,000	40./1 mc 165./5 mc
3122-61	L-Valine [¹⁴ C] (0.01 N HCl sol.) (U)	225-265	140./500 uc 260./1 mc

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