

Lloyd. Academic Press, New York, 1975. xii, 554 pp., illus. \$36.

Modelling the Economy. Papers from a conference, London, July 1972. G. A. Renton, Ed. Published for the Social Science Research Council by Heinemann, London, 1975 (U.S. distributor, Crane, Russak, New York). xii, 676 pp., illus. \$57.50.

Modern Molecular Orbital Theory for Organic Chemists. Weston T. Borden. Prentice-Hall, Englewood Cliffs, N.J., 1975. xiv, 306 pp., illus. \$14.95.

Molecular Mechanisms of Genetic Processes. N. P. Dubinin and D. M. Gol'dfarb, Eds. Translated from the Russian edition (Moscow, 1972) by A. Mercado. P. Harry, Transl. Ed. Halsted (Wiley), New York, and Israel Program for Scientific Translations, Jerusalem, 1975. viii, 374 pp., illus. \$43.50.

Multivariate Analysis in Vegetation Research. László Orlóci. Junk, The Hague, 1975. x, 276 pp., illus. Paper, Dfl. 50.

New Approaches to the Identification of Microorganisms. Papers from a symposium, Stockholm, June 1973. Carl-Göran Hedén and Tibor Illéni, Eds. Wiley, New York, 1975. xxviii, 466 pp., illus. \$21.50. Techniques in Pure and Applied Microbiology. A Wiley Biomedical Health Publication.

Nutrition. Proceedings of a congress, Mexico City, Sept. 1972. Adolfo Chavez, Hector Bourges, and Samir Basta, Eds. Karger, Basel, 1975. Four volumes, illus. Vol. 1, Review of Basic Knowledge. xxii, 398 pp. Vol. 2, Prognosis for the Undernourished Surviving Child. xvi, 370 pp. Vol. 3, Foods for the Expanding World. xvi, 368 pp. Vol. 4, Approaches to Practical Solutions. xvi, 374 pp. \$191.

Of Time, Passion, and Knowledge. Reflections on the Strategy of Existence. J. T. Fraser. Braziller, New York, 1975. xiv, 530 pp. \$20.

The Paranormal. Part 1, Patterns. Michael A. Persinger. MSS Information Corp., New York, 1974. 248 pp. Cloth, \$12; paper, \$6.25.

Pattern Recognition Principles. Julius T. Tou and Rafael C. Gonzalez. Addison-Wesley, Reading, Mass., 1974. xxii, 378 pp., illus. \$19.50. Applied Mathematics and Computation, No. 7.

Perspectives of Biophysical Ecology. Papers from a symposium, Pellston, Mich., Aug. 1973. David M. Gates and Rudolf B. Schmerl, Eds. Springer-Verlag, New York, 1975. xiv, 610 pp., illus. \$34.80. Ecological Studies, vol. 12.

Physical Chemistry. An Advanced Treatise. Vol. 11A, Mathematical Methods. Douglas Henderson, Ed. Academic Press, New York, 1975. xxiv, 564 pp., illus. \$45.

Physiological Ecology of Estuarine Organisms. Papers from a symposium, Apr. 1973. F. John Vernberg, Ed. Published for the Belle W. Baruch Institute for Marine Biology and Coastal Research by the University of South Carolina Press, Columbia, 1975. xii, 398 pp., illus. \$25. The Belle W. Baruch Library in Marine Science No. 3.

Practical Quantum Mechanics. Siegfried Flügge. Translated from the German edition and revised by the author. Springer-Verlag, New York, 1974. xvi, 336 pp. + 288 pp. Paper, \$14.80. Springer Study Edition. Reprint in one volume of the 1971 English edition.

Principles and Problems in Physical Chemistry for Biochemists. Nicholas C. Price and Raymond A. Dwek. Clarendon (Oxford University Press), New York, 1975. xii, 186 pp., illus. Cloth, \$17.75; paper, \$7.75.

Principles of Genetics. Eldon J. Gardner. Wiley, New York, ed. 5, 1975. x, 622 pp. + plates. \$14.95.

Proceedings of the Fourteenth International

Machine Tool Design and Research Conference. Manchester, England, Sept. 1973. F. Koenigsberger and S. A. Tobias, Eds. Macmillan, London, 1974 (U.S. distributor, Halsted [Wiley], New York). viii, 842 pp., illus. \$92.50.

Psychology. Roger Brown and Richard J. Herrnstein. Little, Brown, Boston, 1975. xviii, 762 pp., illus. \$14.50. Study guide, Alan C. Kamil. xvi, 262 pp., illus. Paper, \$3.

Psychotherapy and Psychoanalysis. Theory, Practice, Research. Robert S. Wallerstein. International Universities Press, New York, 1975. viii, 476 pp. \$17.50.

Sedimentary Petrology. W. v. Engelhardt, H. Füchtbauer, and G. Müller. Part 2, Sediments and Sedimentary Rocks 1. Hans Füchtbauer with a contribution by Hans-Ulrich Schmincke. Translated and revised from the German edition (Stuttgart, 1970). Schweizerbart, Stuttgart, and Halsted (Wiley), New York, 1975. x, 464 pp., illus. \$49.50.

Speaking of Children. Their Learning Abilities/Disabilities. Careth Ellingson. Harper and Row, New York, 1975. xiv, 286 pp. + plates. \$8.95.

The Stone-Čech Compactification. Russell C. Walker. Springer-Verlag, New York, 1974. x, 334 pp., illus. \$30.40. Ergebnisse der Mathematik und ihrer Grenzgebiete, Band 83.

Studies in Algebraic Logic. Aubert Daigault, Ed. Mathematical Association of America, Washington, D.C., 1974. viii, 208 pp., illus. \$10. Studies in Mathematics, vol. 9.

The Study of Deviance. Perspectives and Problems. Don C. Gibbons and Joseph F. Jones. Prentice-Hall, Englewood Cliffs, N.J., 1975. viii, 216 pp. Paper, \$5.50.

Survival in Society. Eugene Heimler. Halsted (Wiley), New York, 1975. vi, 160 pp. \$7.95.

Symmetry Properties of Nuclei. Proceedings of a conference, Brussels, Sept. 1970. Gordon and Breach, New York, 1974. xii, 362 pp., illus. \$40.75.

T-Groups. A Survey of Research. C. L. Cooper and I. L. Mangham, Eds. Wiley-Interscience, New York, 1975. xviii, 284 pp. Paper, \$5.95. Reprint of the 1971 edition.

Thrombosis. Pathogenesis and Clinical Trials. Papers from a congress, Vienna, June 1973. E. Deutsch, K. M. Brinkhous, K. Lechner, and S. Hinnom, Eds. Schattauer, Stuttgart, 1974. xvi, 352 pp., illus. Paper, DM 112.

Toxicology of Insecticides. Fumio Matsuura. Plenum, New York, 1975. xviii, 504 pp., illus. \$27.50.

Trees. Structure and Function. Martin H. Zimmermann and Claud L. Brown with a chapter by Melvin T. Tyree. Springer-Verlag, New York, 1974. xiv, 336 pp., illus. Paper, \$12. Springer Study Edition. Reprint of the 1971 edition.

The Twilight Seas. Sally Carrighar. Illustrated by Peter Parnall. Weybright and Talley, New York, 1975. xii, 180 pp. \$9.95.

Vision. Human and Electronic. Albert Rose. Plenum, New York, 1974. xvi, 198 pp., illus. \$15. Optical Physics and Engineering.

Waves. D. R. Tilley. Macmillan, London, 1975 (U.S. distributor, Crane, Russak, New York). x, 188 pp., illus. Paper, \$9.75. A Macmillan Physics Text.

Wild Flowers of the Cape Peninsula. Mary Maytham Kidd. Oxford University Press, New York, ed. 2, 1975. Not paged, illus. Paper, \$11.25.

Yearbook of the Association of Pacific Coast Geographers. Vol. 36, 1974. Papers from a meeting, San Diego, June 1973. Rodney Steiner, Ed. Published for the Association by Oregon State University Press, Corvallis, 1974. 184 pp., illus. Paper, \$5.

Personnel Placement

Only those employers who will not discriminate on the basis of race, sex, religion, age, color, or national origin should submit Personnel Placement advertising.

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POSITIONS WANTED

Biochemist. Ph.D. Experience and interests in purification and characterization of protein-carbohydrates, enzymes, tumor antigens, tissue culture, immunology. Desire research position in academic, industry, government, hospital. Box 276, SCIENCE. X

Business Administration/Scientist. M.B.A., Ph.D. seeks opportunity to join progressive organization. Particular strengths: multicultural background, training in chemical and pharmaceutical disciplines, marketing orientation. Willing to relocate. Available June 1975. Box 277, SCIENCE. X

Clinical Microbiologist. Ph.D., M.P.H., Canadian, holding U.S. immigrant visa. Laboratory direction, administration, teaching experience. Publications. Desires clinical, public health laboratory, or teaching position. Box 278, SCIENCE. X

Combustion. Ph.D. experimentalist with teaching/research experience seeks university/industry position. Funding/publications. Box 279, SCIENCE. X

Ecologist. M.Sc., Ph.D., publications. Environmental consultant, international experience in wildlife, forestry, surveys, seeks senior post in applied research or management. Box 280, SCIENCE. X

Freelance Writer-Editor. Life sciences; psychology, biology, physiology. Graduate McGill University. Box 268, SCIENCE. 6/27

Immunobiologist. Ph.D., 20 years of research, some teaching, many publications, fellowship awards. Desires teaching and/or research. Box 281, SCIENCE. 6/27; 7/4

Membrane Physical Chemist. Ph.D. 1972. Polymer chemistry/Ch.E. minor; 3 years of research on hollow fiber membranes. Interested in basic and applied biomembrane research; faculty or postdoctoral. Box 282, SCIENCE. X

Science Writer-Editor. Twenty-five years' experience, books, periodicals, encyclopedias. Will work with industry. Professional biologist. Box 285, SCIENCE. X

POSITIONS WANTED

Ph.D. (October 1975). Environmental health: air pollution. Dissertation and experience: assessment and modeling of dispersion, health effects and economic effects of air pollutants. B.S., M.S.: chemical engineering. Age 29. Permanent resident. Box 283, SCIENCE. X

Physiologist/Histochemist. M.S. 1974. Experience in light and electron microscopy techniques, 3 years of medical lab and teaching experience, publications. Desires university or industrial position. Location open. Available August 1975. Box 271, SCIENCE. 6/27

Physiologist-Histologist: M.S. Training in the fields of respiratory physiology, histology, immunohematology, immunology, coagulation, fluorescence and electron microscopy. Teaching, research, and clinical experience. Box 284, SCIENCE. X

Senior Research Scientist, M.D., Ph.D., seeks relocation in New York metropolitan area or Northeast Coast: cell kinetics and radiobiology with own established tumor systems, clinical medicine/teaching background. Desires senior research position, later combined with clinical work. Box 286, SCIENCE. X

Toxicologist. Ph.D. 1971. Three years of NIH postdoctoral training. Publications. Pesticide and drug metabolism. Enzyme induction and developmental toxicology. Seeks academic, industry, or governmental position. Available July 1975. Box 272, SCIENCE. 6/27

POSITIONS OPEN

SCRIPPS INSTITUTION OF OCEANOGRAPHY has a faculty/research opening in **ACOUSTIC SIGNAL PROCESSING**. The level of the position is open, from assistant professor/assistant research scientist up to full professor/research scientist (\$12,800 to \$30,500) depending on qualifications and experience. Position details may be obtained by writing **Dr. Victor C. Anderson, Marine Physical Laboratory of the Scripps Institution of Oceanography, University of California, San Diego, San Diego, California 92132. Telephone: 714-452-2304. The University is an Equal Opportunity Employer with an Affirmative Action Program.**

A position is available at the **Associate Professor** rank in the Division of Allergy/Immunology, Department of Pediatrics, State University of New York at Buffalo. The position is open to individuals with the following qualifications: (i) M.D. degree, (ii) Board certification in Pediatrics and in Allergy/Immunology, (iii) Research capabilities in laboratory immunology, in addition to the ability to supervise laboratory procedures for the evaluation of humoral and cellular immunologic competence, polymorphonuclear leukocyte function, and the complement system. (iv) Able to assume clinical and teaching responsibilities. Apply to **Chairman, Department of Pediatrics, Children's Hospital, 219 Bryant Street, Buffalo, N.Y. 14222. Telephone: 716-878-7258. An Equal Opportunity/Affirmative Action Employer.**

ASSISTANT PROFESSOR: BIOCHEMISTRY

A faculty position at the rank of assistant professor will be available after 1 July 1975. The primary requirement is primary interest and a demonstrated excellence in teaching and an active interest in research. Applicants should submit a curriculum vitae and list of publications, a brief description of teaching interests and background and proposed research, and names of three references to **Chairman of Search Committee, Department of Biochemistry, Rush Medical College, 1753 West Congress Parkway, Chicago, Ill. 60612. Rush Medical College is an Equal Opportunity/Affirmative Action Employer.**

ASSISTANT PROFESSOR OF ENTOMOLOGY

Position available 1 August 1975 for qualified person to conduct research on insect pests of vegetables, to assist in development and presentation of course in pest management, and eventually to participate in graduate student training. Should have a Ph.D. in entomology and training or experience in pest management. Some teaching experience is desirable. Send résumé, transcripts, thesis summary, reprints, and names of three references to **Dr. R. L. Rabb, Department of Entomology, North Carolina State University, Raleigh, N.C. 27607. Affirmative Action/Equal Opportunity Employer.**

POSITIONS OPEN

AQUATIC ECOLOGIST

Appointment available at Rosentiel School of Marine and Atmospheric Science, University of Miami, for an aquatic ecologist interested in quantitative population or community ecology with particular interest in food chain dynamics and community structure. Responsibilities will include teaching and the designing and coordination of field research. Level of appointment would be commensurate with qualifications. Inquiries should be submitted to:

**Chairman—Ecologist Search Committee
Division of Biology and Living Resources
Rosentiel School of Marine and Atmospheric Science
University of Miami
4600 Rickenbacker Causeway
Miami, Florida 33149**

ASSISTANT PROFESSOR/IMMUNOLOGY

A position with teaching responsibilities in immunology at the undergraduate and graduate levels may become available in the Department of Bacteriology with a joint appointment in the Molecular Biology Institute. Qualified individuals with postdoctoral experience, strong record of research achievement, and potential are invited to submit curriculum vitae and two letters of recommendation to **C. F. Fox, Department of Bacteriology, University of California, Los Angeles, Calif. 90024, before 15 September 1975. An Equal Opportunity Employer.**

ASSISTANT PROFESSOR—MICROBIOLOGY

Seeking, for 15 August 1975 appointment, Ph.D. in microbiology with good postdoctoral research experience to teach general microbiology and/or courses in area of expertise and to develop strong independent or collaborative research program. Submit curriculum vitae and three letters of recommendation to **Dr. M. Ogur, Chairman, Department of Microbiology, Southern Illinois University, Carbondale, Ill. 62901. An Equal Opportunity/Affirmative Action Employer.**

Opportunity for physician scientist to become **ASSOCIATE CHIEF OF STAFF FOR RESEARCH**, Oklahoma City VA Hospital. Position is that of Chief Executive for Research Service in 463-bed general medical and surgical hospital located on Oklahoma Health Sciences Center campus and affiliated with the University of Oklahoma (Colleges of Medicine, Dentistry, Nursing, Health). Research Service administers programs for 43 investigators who publish 193 papers annually. Desired attributes of individuals are experience in research, clinical and administrative endeavors, willingness to contribute to patient care programs, and curriculum vitae commensurate with academic appointment in relevant department of College of Medicine. Contact or submit curriculum vitae to **Dr. Solomon Papper, Chairman of Search Committee, VA Hospital, 921 N.E. 13th Street, Oklahoma City, Oklahoma 73104.**

BANTING AND BEST DEPARTMENT OF MEDICAL RESEARCH UNIVERSITY OF TORONTO

Applications and nominations are invited for a faculty position to start on or about 1 January 1976. Molecular endocrinology or animal cell differentiation are the preferred areas of research. Minimum of 2 years of postdoctoral experience required. Salary negotiable and commensurate with rank. Interested persons should send curriculum vitae. Also arrange to have three letters of recommendation sent to:

**Search Committee Chairman
Banting and Best Department of Medical Research
University of Toronto
112 College Street
Toronto, Ontario, M5G 1L6
Canada**

BOTANY AND ZOOLOGY

Botanist, Ph.D., with both field botany and molecular research interests. Must be capable of managing herbarium and teaching vascular and nonvascular botany and principles of biology.

Zoologist, Ph.D., with strong research background in physiology. Must be capable of teaching invertebrate and vertebrate biology and invertebrate and vertebrate physiology. Entomological or ornithological interests also desirable.

Both positions involve undergraduate and master's teaching and research. Rank and salary dependent upon qualifications. Send curriculum vitae to **Biology Search Committee, California State College, California, Pennsylvania 15419, for September employment. An Equal Opportunity/Affirmative Action Employer.**

POSITIONS OPEN

BIOLOGY FACULTY position starting 1 September 1975 to teach human anatomy and physiology, genetics, and introductory biology. The candidate with additional competence and desire may have an opportunity at various times to teach in the following areas: biochemistry, physics, marine science, and methods and supervision of secondary science teaching. The recipient is expected to participate actively in advising, in departmental and collegiate governance, in special college programs, for example, U.W.W., and in instructional-support roles. Qualifications: Ph.D.; teaching experience preferred. Only completed written applications including official transcript, curriculum vitae, and three letters of reference or placement credentials will be considered. Deadline: 1 July. Send to **Biology Search Committee, Box 2072, Stephens College, Columbia, Missouri 65201. We encourage women and members of minority groups to contact us as we are an A.A./E.O. employer.**

BIOLOGIST

There is an opening in biology at Mary Baldwin College beginning September 1975. Primarily the position entails teaching courses in microbiology, cytology, and developmental biology. The other courses to be taught are open to negotiation, but preference will be given to candidates who can teach physiology. Primary consideration will be given to applicants who hold the doctorate or who are candidates for the degree. Salary and rank are dependent upon qualifications. Some teaching experience is desirable.

Send curriculum vitae and references to: **Dean Marjorie B. Chambers, Mary Baldwin College, Staunton, Virginia 24401. Mary Baldwin College is an Equal Opportunity/Affirmative Action Employer.**

BIOLOGICAL RESEARCH COORDINATOR

Applications are invited for the professional position of Biological Research Coordinator. Basic qualifications for the position are a Ph.D. in the biological sciences and extensive field research experience in the Arctic. Applicant should be familiar with the research activities in the biological and ecological sciences conducted in northern Alaska by universities, state and federal agencies, and industry, and should have personally participated in or coordinated some of this research, preferably of an interagency nature.

Duties will be to coordinate and monitor the progress of the various biological projects of the Outer Continental Shelf Energy Program, conducted by BLM-NOAA in the Beaufort and Chukchi seas. The Coordinator will be responsible to the Project Manager of the OCS Arctic Project Office at the University of Alaska, which operates under contract to NOAA.

Salary will be in the range of \$2200 to \$2500 per month.

The University is an Equal Opportunity Employer; women and members of minority groups are encouraged to apply.

For further information, write to **Project Manager, OCS Arctic Project Office, Geophysical Institute, University of Alaska, Fairbanks, Alaska 99701.**

BIOMATHEMATICIAN

Position open for Biomathematician, Ph.D. Duties include organization, collection, and analysis of patient data from medical records and research laboratories; advice on design and analysis of both basic and clinical research, including therapeutic trials and epidemiologic studies. Academic appointment (UCLA) encouraged. Salary and rank depend on qualifications. Recent graduate preferred. Send curriculum vitae and references to: **M. I. Grossman, M.D., Ph.D., Center for Ulcer Research and Education, Wadsworth VA Center, Building 115, Room 116, Los Angeles, Calif. 90073.**

The University of California at Los Angeles is an Equal Opportunity Employer.

CHAIRPERSON—DEPARTMENT OF PHYSIOLOGY AND PHARMACOLOGY

The University of South Dakota School of Medicine is seeking a professor and chairperson for its Department of Physiology and Pharmacology. Requirements: Ph.D. in physiology or pharmacology; outstanding record of achievement in teaching and research; aptitude for administration. Available 1 July 1975; closing date: 31 December 1975. Applications or nominations, with accompanying curriculum vitae, bibliography, and references, should be sent to: **Otto W. Neuhaus, Ph.D., Chairman, Search Committee, Department of Physiology and Pharmacology, The University of South Dakota School of Medicine, Vermillion, South Dakota 57069. The University of South Dakota is an Equal Opportunity/Affirmative Action Employer.**

Argonne's Assistant to the Director talks about new professional opportunities

for men as well as women.

Argonne National Laboratory today has entered a new era that all of us feel is exciting in its potential for accomplishment. The nature, diversity and number of our current programs provide professional opportunity and stimulation on a broader scale than ever.

Our reactor-oriented activities have expanded in scope. They now include work in gas-cooled fast breeder reactors as well as LMFBF development, the Experimental Breeder Reactor Program, advanced fuel design, reactor physics, components technology, control and safety and other related areas.

The growth of our biomedical and environmental research continues to show the contributions that can be made by our kind of multi-disciplinary, multi-interface scientific and engineering community. You have to coordinate a wide range of disciplines, for example, to assess the impact of pollutants from all forms of energy generation – on humans, other biological systems and the environment.

Our expanded programs in alternative energy sources and systems present advanced challenges for still another large variety of theoretical and applied abilities. Our battery development program, for example, ranges from basic electrochemistry to the design and construction of prototype high-performance lithium-sulfur units. Our thermonuclear program extends from plasma theory and surface science to the materials and engineering requirements of fusion reactors.

Superconductivity is another growing area, with its importance to our work in magnetohydrodynamics as well as in controlled thermonuclear reactions and other aspects of energy development and transmission. Our major coal technology program goes from research into the nature of coal itself to improved conversion and combustion processes. And our work on solar energy ranges from light collection methods and diathermanous materials to photochemical and bio-conversion techniques.

Physical sciences research is the core for many other Argonne programs and serves as a source of new program ideas. It continues to encompass fundamental studies in many varied aspects of physics, chemistry, mathematics, materials and solid state science.

What is particularly rewarding about the opportunities provided by these programs is the academic atmosphere we work in. A recent comment by our Director, Dr. Robert G. Sachs, sums it up well. The Laboratory, he said, is an institution whose only product is knowledge. And the quality of that product is determined by the people in the Laboratory.



Dr. Patricia M. Failla was appointed Assistant to the Laboratory Director with special responsibilities for program planning in 1974. She graduated from Barnard College with a major in Physics, and took her Ph.D. in Biophysics from Columbia University. After extensive work as a Research Scientist with the Columbia Radiological Research Laboratory, she joined Argonne in 1960 as an Associate Biophysicist with the Radiological & Environmental Research Division. In 1971 she was appointed Assistant Director of that Division. Her research and many publications have involved the dosimetry, effects and recovery related to exposure of biological systems to ionizing radiation. In 1973 Dr. Failla became the Laboratory's Program Coordinator for the Physical, Biomedical and Environmental Research Programs. In addition to her new duties, which include identifying R&D areas to which Argonne can contribute, she is participating in the Executive Program of the University of Chicago Graduate School of Business, and is active on several national scientific and technical committees.

The opportunity to be individually recognized for accomplishment is another rewarding factor – particularly for women and minority professionals. I think this would be the case at Argonne – that ability would come first – even without our strong equal rights policy. With that policy, and with everyone here behind it, I think we have an even stronger base for helping to solve some of the most important problems facing our world.

Openings currently available at the Laboratory include:

- **Geophysical Scientist** (Ph.D., M.S. or equivalent)
- **Radiobiologist** (postdoctoral appointee)
- **Biologist, Biochemist or Biophysicist** (Ph.D., for oncogenesis studies.)
- **Ch.E. or M.E.** (Ph.D. or M.S., for Energy and Environmental Systems Division)
- **Nuclear Engineer** (Components Technology Division)
- **DP Systems Analyst** (Applied Mathematics Division)

Scientists and Engineers with specialized experience in any of the areas mentioned by Dr. Failla are invited to inquire regarding openings in their area. Please include details of your background, and write to **Richard C. Gehrke, Dept. 100-H, Argonne National Laboratory, 9700 South Cass Ave., Argonne, Illinois 60439**



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POSITIONS OPEN

CHAIRPERSON, DEPARTMENT OF ANIMAL ECOLOGY

Established graduate and undergraduate programs in animal ecology and fishery and wildlife biology in a new department. Need Ph.D. vertebrate ecologist with administrative, research, and teaching experience. Closing date 15 October 1975. Available January 1976 or negotiable. Send résumé to: **Dr. K. D. Carlander, Department of Animal Ecology, Iowa State University, Ames, Iowa 50010. Equal Opportunity/Affirmative Action Employer.**

Wanted as soon as possible.

CSIRO—AUSTRALIA DIVISION OF TEXTILE INDUSTRY GEELONG, VICTORIA APPOINTMENT OF CHIEF OF DIVISION

GENERAL: The Chief of the CSIRO Division of Textile Industry, Dr. M. Lipson, has indicated his intention to retire early in 1976 and the Executive wishes to select a successor. Applications are invited for the position of Chief of the Division from scientists with an established record of personal research achievements and leadership.

The Division, which is situated on the outskirts of Geelong, Victoria, has a total staff of 220, of which some 50 are professional scientists.

The research program is concerned mainly with wool textile processing and the development of new and improved consumer products from wool. Research on cotton is also undertaken, particularly on the textile properties of Australian-grown cotton. The Division has well-equipped physical and chemical research laboratories, together with a small vertical textile mill for large-scale trials.

Within the framework of the Wool Research Laboratories, the Division is closely associated with the Division of Protein Chemistry in Melbourne, Victoria, and the Division of Textile Physics in Sydney, New South Wales, in research to aid the Wool Industry. Coordination of the work and cooperation with the International Wool Secretariat is the responsibility of the Chiefs of the three Divisions meeting in Committee.

DUTIES: The Chief of the Division is responsible for the conduct and direction of the research activities, for the general administration of the Division, and for the control of funds available to it. The Chief is expected to make recommendations to the Executive on the future orientation of the research programs.

SALARY: Salary for the position will be not less than \$29,246 per annum, and appointment at a higher level would be considered in the case of an exceptional candidate.

TENURE: Appointment to the Organization will be for an indefinite period, and Australian Government Superannuation benefits are available, subject to normal conditions. However, the tenure of appointment as Chief could be subject to negotiation, but a fixed term (of the order of 7 years) would be envisaged initially. Such an agreement could be renegotiated for a further period.

FURTHER INFORMATION: A member of the CSIRO Executive, Mr. V. D. Burgmann, will be visiting the United States and Britain on behalf of the Appointments Committee, and will be available for discussions with applicants and others interested in the appointment in late July in the United States and early August in the United Kingdom. Scientists interested in discussing the appointment should ensure that the appropriate overseas office is contacted in ample time to enable suitable arrangements to be made. The addresses for contact are:

The Counsellor (Scientific)
Australian Embassy
1601 Massachusetts Avenue, NW
Washington D.C. 20036
The Chief Scientific Liaison Officer
Australian Scientific Liaison Office
64-78 Kingsway
London WC2B 6BD, England

It may be possible to arrange such discussions at a number of points in the United States and Britain.

Further information on the Division's activities can be obtained by writing to the **Secretary (Administration)**, CSIRO, P.O. Box 225, Dickson, A.C.T., 2602, Australia.

Applications stating full personal and professional details, the names of at least two referees, and quoting reference number 464/591 should reach:

The Secretary (Administration)
Head Office, CSIRO
P.O. Box 225
Dickson, A.C.T. 2602, Australia

by 19 September 1975.

1332

POSITIONS OPEN

CARDIOLOGIST—The Division of Cardiology in the Department of Medicine at the University of Alabama in Birmingham has available two positions at the **assistant professor** or **associate professor** level. The positions are open to qualified individuals at a senior level fulfilling three criteria. First, the individual must have expertise in the care and management of patients with cardiovascular disease and in cardiac catheterization. Second, the individual must have a firm commitment to teaching programs oriented to medical students, graduate students, house officers, and fellows. Finally, the individual should have a research background and be able to carry out independent research. Apply to the **Division of Cardiovascular Disease, Department of Medicine, University of Alabama Medical Center, Birmingham, Alabama 35294 (Attention Ms. Norma McSweeney); telephone: 205-934-3285. An Equal Opportunity/Affirmative Action Employer.** Expiration date for receipt of applications: 1 August 1975.

CHEMISTRY FACULTY position in a two-person department to teach organic chemistry and introductory inorganic chemistry. The candidate with additional competence and desire may have an opportunity at various times to teach in the following areas: biochemistry, physics, marine science, and methods and supervision of secondary science teaching. The recipient is expected to participate actively in advising, in departmental and collegiate governance, in special college programs, for example, U.W.W., and in instructional-support roles. Qualifications: Ph.D.; teaching experience preferred. Only completed written applications including official transcript, curriculum vitae, and three letters of reference or placement credentials will be considered. Deadline: 1 July. Send to **Chemistry Search Committee, Box 2072, Stephens College, Columbia, Missouri 65201. We encourage women and members of minority groups to contact us as we are an A.A./E.O. employer.**

DIRECTOR OF THE IDAHO STATE UNIVERSITY MUSEUM OF NATURAL HISTORY

The Idaho State University Museum of Natural History is seeking a director with a strong background in natural science museum management and development. The Museum is an integral department within the University and receives the bulk of its support from the institution. Principal fields of endeavor have been in the natural sciences, especially in anthropology/archaeology, vertebrate/paleontology, and zoology with involvement of the earth sciences as they apply to the listed fields.

The director is the administrative head of the Museum in all of its activities and must provide leadership in the initiation, coordination, and development of the various Museum programs. It is expected that the director will have a broad background with emphasis in those areas stressed by the Museum collections. It is highly desirable that the candidate have professional museum experience. The director must have a Ph.D. degree in one of the fields related to the activities of the Museum. Salary and rank are negotiable and effective starting date is 21 August 1975. Send curriculum vitae and résumé to **Dr. Vernon Lestrud, Executive Assistant to the President, Idaho State University, Pocatello, Idaho 83209.** Deadline for application is 7 July 1975. *An Equal Opportunity/Affirmative Action Employer*

LECTURER IN BIOCHEMISTRY UNIVERSITY OF CALIFORNIA, DAVIS

The Department of Biochemistry and Biophysics is seeking a qualified **full-time lecturer in biochemistry**, starting no later than 1 October 1975. This is a 9-month teaching position with no research responsibilities or facilities. Reappointment is on an annual basis and for no longer than 3 years. The lecturer will be expected (i) to teach up to two undergraduate (junior-senior level) lecture courses or one lecture and one laboratory course during each of the three quarters of the academic year, (ii) to participate in undergraduate curriculum development and seminars, and (iii) to participate in the academic and career advising of undergraduate biochemistry majors. A Ph.D. degree (preferably in biochemistry) is required. *The University of California is an Affirmative Action Employer.*

Applicants should submit a curriculum vitae, at least two letters of recommendation (with emphasis on teaching experience or potential), and other supporting documents to:

Professor I. H. Segel, Chairman
Lecturer Search Committee
Department of Biochemistry and Biophysics
University of California
Davis, California 95616
Telephone: 916-752-3193 or 752-3611

The deadline for applications is 30 July 1975.

POSITIONS OPEN

FACULTY POSITIONS IN BIOCHEMISTRY

ASSISTANT PROFESSOR: Ph.D. or M.D. with special interests in research and teaching in neuro-biochemistry, biochemical endocrinology, or nucleic acid chemistry.

ASSOCIATE PROFESSOR: Ph.D. or M.D. with strong research background and teaching experience in the area of Nutrition-Metabolic Regulation.

Both positions available fall 1975. Please send inquiries and curriculum vitae to: **Personnel Department, The University of Texas Health Science Center at Dallas, 5323 Harry Hines Blvd., Dallas, Texas 75235.**

An Equal Opportunity/Affirmative Action Employer.

MICROBIOLOGIST/BIOCHEMIST. Individual with Ph.D. for immediately available postdoctoral position carrying the title of research instructor. Training and/or experience in microbial biochemistry/physiology with an interest in electron microscopy. Send detailed résumé to **Dr. M. L. Higgins, Department of Microbiology and Immunology, Temple University, School of Medicine, Philadelphia, Pa. 19140. An Equal Opportunity/Affirmative Action Employer.**

MICROBIOLOGY

Two positions available, 1 August 1975. (i) Professor of Microbiology (\$28,000 to \$30,000), M.D. with at least 10 years of experience in teaching and research in medical microbiology and immunology. Must have international recognition in immunology research. (ii) Associate Professor of Microbiology (\$24,000 to \$26,000), M.D. (preferred) or Ph.D. (possible) with at least 6 years of experience in teaching and research in microbiology and cellular immunology. Both positions require teaching microbiology and immunology to medical, dental, and graduate students, supervision of graduate student research and independent research activities supported by funds solicited from outside agencies. Send curriculum vitae and list of publications to **Dr. Felix Milgrom, Professor and Chairman, Department of Microbiology, 203 Sherman Hall, State University of New York at Buffalo, Buffalo, N.Y. 14214. State University of New York at Buffalo is an Equal Opportunity/Affirmative Action Employer.**

PEDIATRIC OPHTHALMOLOGIST

Applications are sought for a Board-certified ophthalmologist with specialty training in pediatric ophthalmology; experience in motility disorders; expertise in genetic and metabolic disorders; previous teaching ability at the postgraduate level as well as medical student level; administrative ability will be given favorable consideration. Please send inquiries and curriculum vitae to **Stephen J. Ryan, M.D., Chairman, Department of Ophthalmology, University of Southern California School of Medicine, 1200 North State Street, Box 664, Los Angeles, California 90033. The University of Southern California is an Equal Opportunity and Affirmative Action Employer.**

DEPARTMENT OF PHYSIOLOGY MCGILL UNIVERSITY

Cell Membrane Biologist. Applications for an appointment at the rank of assistant professor are invited from individuals with postdoctoral experience in the study of cell-surface receptors at the molecular level. Duties include teaching receptor mechanisms to honours physiology, immunology, and neurophysiology students. Send applications with curriculum vitae and names of three references to: **Dr. J. Milic-Emili, Chairman, Department of Physiology, McGill University, 3655 Drummond Street, Montreal, Canada H3G 1Y6.**

POSITION AVAILABLE: Clinical Immunologist-Microbiologist. Ph.D. required. Should be able to teach a course in anatomy and physiology. Rank and salary depend on training and experience. Applications by 15 July. Résumé, including course grades, should be sent to **Dr. Paul Thomas, Chairman, Department of Biology, Edinboro State College, Edinboro, Pa. 16444. Affirmative Action, Equal Opportunity Employer.**

POSTDOCTORAL POSITION

Protein chemist to perform peptide mapping and related studies on normal and mutant multifunctional enzyme complex. Experience with isolation and structural studies of proteins necessary. Available now for 1 year, \$11,000, with excellent possibility for renewal. Send résumé to **Dr. H. Richard Levy, Department of Biology, Syracuse University, 130 College Place, Syracuse, New York 13210. Syracuse University is an Equal Opportunity Employer, applications from minority candidates and women welcomed.**

SCIENCE, VOL. 188

CURRICULUM DEVELOPMENT

Technical Education Program

A position at Massachusetts Institute of Technology to develop innovative curricula for technical education at the post-high school level. Person filling the position will be expected to play a leadership role in a five-year research and development program at MIT sponsored by the Imperial Organization for Social Services (I.O.S.S.) of Iran.

Initial emphasis will be on curriculum development for grades 13 and 14 in electrical, mechanical, civil engineering technology; and in manufacturing materials technology. Work will involve interaction with faculty and staff of MIT and Wentworth Institute, as well as representatives of I.O.S.S. and other U.S. and Iranian organizations.

Sc.D. or Ph.D. in Engineering or Technical Education, curriculum development experience required. Industrial training experience is desirable. Position requires some overseas travel. Starting dates, August or September 1, 1975.

Submit Resume to
MIT Personnel Office
400 Main St.
Cambridge, Mass. 02139
Attn: Job #D-75-101

an affirmative action/equal
opportunity employer

MANAGER BIOSTATISTICS

(Riker Laboratories—Subsidiary of 3M)

Growth of a pharmaceutical research effort in our St. Paul, Minnesota Laboratories has created an immediate need for a Manager of Biostatistics.

You should possess a PhD or equivalent in Biostatistics or Biometry with at least four years industrial experience in pharmaceutical or health sciences industry with knowledge of protocol design, drug efficacy evaluation, and computer applications. Your ability to communicate with all levels of management is an extremely important attribute.

Your duties would include consultation on experimental design, managing the analysis and evaluation of clinical and preclinical data, assisting in the preparation of data for NDA's and IND's and presenting the information to management and regulatory agencies.

Besides the challenge of your assignments and the opportunity to build a strong team, you will enjoy an excellent salary attuned to your expertise, comprehensive benefits, and outstanding advancement opportunities.

For confidential consideration, Airmail your resume to:

Dean A. Lommen, Employment Department
3M Company—3M Center, St. Paul, Minnesota 55101

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UNIVERSITY OF RHODESIA

FACULTY OF MEDICINE

LECTURESHIP IN PHARMACOLOGY

Applications are invited for a Lectureship/Senior Lectureship in Pharmacology.

Salary Scales (approx. stg. equivs.)

(a) Medically qualified staff:

Senior Lecturer £8,139 x 256—£10,187
Lecturer Grade I £7,550 x 218—£8,422
Lecturer Grade II £6,392 x 209—£7,646

(b) Non-medically qualified staff:

Senior Lecturer £6,373 x 256—£8,421
Lecturer Grade I £5,793 x 218—£6,665
Lecturer Grade II £3,571 x 190—£4,521 x 218—£5,611

Both permanent, pensionable terms and short-term one or two year contracts are offered.

Permanent Pensionable Terms: Family passages and allowance towards transport of effects on appointment. Installation loan of up to half of one year's salary if required. Unfurnished University accommodation guaranteed for a period of at least three years for persons recruited from outside Rhodesia. Sabbatical Leave and Triennial Visits with travel allowances. Superannuation and medical aid schemes.

Short-term Contracts: Family passages and allowance towards transport of effects. Assistance with accommodation for persons recruited outside Rhodesia.

Applications: (6 copies) giving full personal particulars (including full name, place and date of birth, etc.), qualifications, experience and publications and names and addresses of three referees, should be submitted by 27 JUNE 1975 but will be accepted for a further 14 days to the Senior Assistant Registrar, Godfrey Huggins School of Medicine, University of Rhodesia, P.O. Box M.P. 167, Mount Pleasant, Salisbury, Rhodesia, from whom further particulars may be obtained. Overseas applicants please send a copy of their applications to the Association of Commonwealth Universities (Appts), 36 Gordon Square, London WC1H 0PF, from whom further particulars may also be obtained.

CARDIOVASCULAR PHARMACOLOGIST

Candidates should have a PhD in Pharmacology or a related discipline with interest and experience in the study of drug effects on the cardiac conduction system. Primary responsibility will lie in the supervision of a group devoted to the development of antidysrhythmic drugs. Interested persons should send their resume of education and research experience to:

CHARLES L. SMITH
Research Administrator

Wyeth



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P. O. Box 8299
Philadelphia, Pa. 19101

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DEPARTMENT OF HEALTH, EDUCATION & WELFARE

PUBLIC HEALTH SERVICE

FOOD AND DRUG ADMINISTRATION

SCIENTIST (Medical and/or public health aspects of food and cosmetic technology)

As Director, Bureau of Foods, conducts broad national programs to protect the nation's public health against impairment by foods, food additives and colors, and cosmetics. Directs a staff of 850 scientific, managerial and technical support personnel engaged in research and scientific studies in microbiology, pathology, toxicology, food/cosmetic chemistry and technology, and nutrition; development of standards on the composition, quality, nutrition and safety of foods, food additives, color and cosmetics and the planning and executing of FDA's surveillance and compliance programs.

Applicants must be nationally recognized scientists with extensive experience which clearly demonstrates the capability to plan, evaluate and manage broad scientific and technological research and operational programs of national public health significance and strong leadership and supervisory qualities. A Ph.D., or equivalent, in the biological or physical sciences is highly desirable. Publications, professional activities, honors and awards will be considered as indications of achievement, peer recognition and status in the scientific community. Salary—\$36,000 per annum (GS-18)

HOW TO APPLY

Submit a curriculum vitae, bibliography and a completed Standard Form 171 (Personal Qualifications Statement) to Division of Personnel Management, FDA, Room 10-85, Parklawn Building, 5600 Fishers Lane, Rockville, Maryland 20852.

FDA—Where Equal Opportunity is the Rule.

POSITIONS OPEN

PLANT PHYSIOLOGIST

Applications are invited from plant physiologists for the position of **Assistant Professor** in the Department of Plant Science, Faculty of Agriculture and Forestry, University of Alberta. Duties will include teaching and research in the area of plant physiology and biochemistry with emphasis on economically important plants. Starting salary normally will be \$15,832 per year, and will depend upon qualifications and experience.

Applications providing a curriculum vitae, list of publications with reprints, and the names of three references should be submitted to the **Chairman, Department of Plant Science, University of Alberta, Edmonton, Alberta, Canada**, before 31 August 1975. Starting date 1 January 1976, if possible.

POSTDOCTORAL POSITIONS. Postdoctoral position available for research on membrane biogenesis and genetic control of protein expression in eukaryotic cells. Salary \$10,000 to \$11,000. Duration is 2 to 3 years. Send curriculum vitae with names of three references to **Dr. Darrel Doyle or Dr. Richard Swank, Department of Molecular Biology, Roswell Park Memorial Institute, Buffalo, New York 14263.**

POSTDOCTORAL POSITION

Applications are invited for a postdoctoral fellowship to investigate chromatin structure and function with emphasis on x-ray, neutron diffraction, electron microscopy, and in vitro transcription. Applicant should have a strong biochemical-biophysical background. Salary will be equivalent to \$8000 after taxes. Applications including the names of references should be sent to **Dr. Stanley Bram, Département de Biologie Moléculaire, Institut Pasteur, 75015 Paris, France.**

POSTDOCTORAL POSITION

Available immediately for study of in vitro carcinogenesis. Experience with animal tissue culture required. Staff appointment. Send résumé to **Dr. P. S. Sabharwal, School of Biological Sciences, University of Kentucky, Lexington, Kentucky 40506. Equal Opportunity/Affirmative Action Employer.**

POSTDOCTORAL POSITIONS—MEDICAL GENETICS

Available immediately. Ph.D. or M.D. Specifically for training in cytogenetics and biochemical genetics of **Prenatal Diagnosis**. Background in human genetics, biochemistry, or cell biology preferable. Stipend of \$10,000+ depending upon experience. Two letters of recommendation and curriculum vitae to **Dr. A. Milunsky, Genetics Laboratory, Eunice Kennedy Shriver Center, 200 Trapelo Road, Waltham, Massachusetts 02154. Equal Opportunity Employer M/F.**

PREDOCTORAL ASSISTANTSHIPS AND TRAINEESHIPS. In Oncology, Immunology, Microbiology, Virology, and Molecular and Cellular Biology. Prerequisites: B.S. degree in biology, chemistry, or related fields with B average or better and high G.R.E. score. U.S. citizenship required. Traineeships and assistantships available. Inquiries should be submitted to: **Dr. Sheldon Dray, Head, Department of Microbiology, University of Illinois Medical Center, P.O. Box 6998, Chicago, Illinois 60680.**

UNIVERSITY OF BRITISH COLUMBIA DEPARTMENT OF ANIMAL SCIENCE

RANGE-PASTURE MANAGEMENT. Applicants are invited for a faculty position at the rank of assistant professor. Candidates should have expertise in the area of animal-plant relationships. Responsibilities will include undergraduate and graduate teaching, and the development of a strong research program in the area of specialty.

Qualifications: Ph.D. in the area of range-pasture management with strong animal orientation. Emphasis should be on the bioenergetics of grazing livestock—both domestic and wild. The applicant should have proven teaching and research ability. Canadian experience strongly preferred. The salary is negotiable, depending on qualifications.

Applications, giving details of curriculum vitae, transcripts, and names of three referees should be forwarded to:

**Dr. W. D. Kitts
Professor and Chairman
Department of Animal Science
University of British Columbia
Vancouver, B.C. V6T 1W5**

Closing date for applications: 31 July 1975. Applications are invited from both men and women.

POSITIONS OPEN

POSTDOCTORAL/RESEARCH ASSOCIATES— The Marine Science Program of the University of North Carolina at Chapel Hill and Morehead City invites applications for research associate positions in the areas of:

- 1) Marine botany—ecology of estuarine fungi.
- 2) Marine ecology—environmental impact of coastal zone development.
- 3) Marine geology—dynamics and depositional history of Quaternary deposits.

Send curriculum vitae, three letters of recommendation, and a statement of research interests to: **Dr. Dirk Frankenberg, University of North Carolina, 12-5 Venable Hall, Chapel Hill, North Carolina 27514. An Equal Opportunity/Affirmative Action Employer.**

PREDOCTORAL ASSISTANTSHIPS IN BIOCHEMISTRY; \$3600 per year plus tuition. Apply to

**Dr. Ward Pigman, Chairman
Department of Biochemistry
New York Medical College
Valhalla, New York 10595
Telephone: 914-347-5602**

PROFESSOR OF AEROSPACE HEALTH AND SAFETY

The Harvard School of Public Health is seeking qualified candidates for the Guggenheim Professorship of Aerospace Health and Safety. The terms of this endowed chair do not restrict the discipline of the professor to be named. However, his/her primary interest must be demonstrably relevant to the health and safety of operators or passengers of aerospace vehicles or to the effects of such vehicles on the health of groups.

Candidates will be considered from a range of disciplines relevant to aerospace health and safety, including, for example, medicine and physiology, human factors engineering, environmental sciences, behavioral science, economics, and other social sciences. The application should state the candidate's view of relevance of his/her background to the field of aerospace health and safety. Candidates should possess an earned doctorate and demonstrated competence in teaching and research in areas relevant to aerospace health and safety.

Harvard University is an Equal Opportunity Employer with an Affirmative Action Program. Qualified women and minority group members are encouraged to apply.

A statement of interest and a résumé should be sent to **Professor Joseph J. Harrington, Chairman, Ad Hoc Search Committee on the Guggenheim Chair, Harvard University, 665 Huntington Avenue, Boston, Massachusetts 02115.**

RESEARCH ASSOCIATE

Two positions available for postdoctoral research on the properties and regulation of the phosphoprotein phosphatases involved in mammalian glycogen metabolism. Recent Ph.D. with interests in enzyme regulation and experience in enzyme purification or liver cell preparation preferred. Salary \$10,000. Applications should be sent to **Dr. E. Y. C. Lee, Associate Professor, Department of Biochemistry, University of Miami, Box 520875, Miami, Florida 33152. An Equal Opportunity Employer.**

TWO RESEARCH ASSOCIATE POSITIONS CHEMICAL CARCINOGENESIS

Two unique positions are available immediately for outstanding individuals interested in studying the mechanism(s) of chemical carcinogenesis. Experience in cell culture, biochemistry, or coagulation preferred. Salary \$14,000 to \$18,000. Send résumé and references to **Dr. William F. Benedict, Childrens Hospital of Los Angeles, 4650 Sunset Blvd., Los Angeles, California 90027. The Childrens Hospital of Los Angeles is an Equal Opportunity Employer.**

TECHNICIAN IN BIOLOGICAL ELECTRON MICROSCOPY (BRAIN)

Minimum of 5 years' training and experience in perfusion, embedding, fixing tissue for electron microscopy; use of ultramicrotome; autoradiographic technique; darkroom experience with EM materials; histochemistry and fluorescent histochemistry. Knowledge of scientific English and German important. Forty-hour week, sometimes with night work. Major West Coast university. **Box 287, SCIENCE.**

Affirmative Action/Equal Opportunity Employer

POSITIONS OPEN

RESEARCH INSTRUCTOR IN MICROBIOLOGY. Ph.D. or equivalent with research experience in biochemistry and/or microbial physiology. Position also involves teaching. One-year appointment renewal. Send curriculum vitae and references to **Administrator, Department of Microbiology & Immunology, School of Medicine, Temple University, Philadelphia, Pa. 19140. An Equal Opportunity, Affirmative Action Employer.**

Aggressive **VIROLOGIST** with promising record toward becoming an established investigator. Capable of developing an attractive grant program. Will remodel adequate space to specifications to meet needs. Joint university appointment, fringe benefits, health and pension plan. Fast-growing, young cancer institute, excellent environment. *Equal Opportunity/Affirmative Action Program. Box 288, SCIENCE.*

FELLOWSHIPS

QUEEN'S FELLOWSHIPS IN MARINE SCIENCE

To commemorate the Royal visit to Australia in 1970 the Australian Government established the Queen's Fellowships Scheme. Under this scheme up to five fellowships may be awarded each year for full-time research by young scientists of exceptional promise and proved capacity for original work. These awards are tenable at an Australian university or approved research institution normally for 2 years. Tenure of a Fellowship is expected to commence within 9 months of the announcement of the award.

Qualifications. Queen's Fellows should have a Ph.D., or equivalent qualifications, or equivalent research or professional experience, in a discipline applicable in marine science. Awards will, in general, be restricted to applicants who are not more than 30 years of age on the date when applications close.

Stipend. \$12,714 (Australian) per annum; increased to \$13,710 per annum at age 28 years.

Allowances. Allowances are payable in respect of a Fellow's dependent spouse (\$500 per annum), each dependent child (\$200), superannuation payments (up to 10 percent of stipend), appropriate insurance coverage and necessary travel expenses. Host institutions are paid an allowance toward the cost of setting up a Fellow and his/her research work.

Applications. Persons interested in applying for the above fellowships should obtain application forms and a statement of the conditions of award from the **Secretary, Queen's Fellowships Committee, Department of Science, P.O. Box 449, Woden, A.C.T., 2606, Australia; Education Liaison Officer, Canberra House, Strand, London, W.C.2., England; or Consul General, Australian Consulate General, 636 Fifth Avenue, New York, N.Y. 10020.** Applications for the next round of awards, which will be announced in December 1975, close at the Canberra address on 1 August 1975.

NEW ZEALAND SENIOR AND POSTDOCTORAL RESEARCH FELLOWSHIPS

The New Zealand National Research Advisory Council invites applications for ten senior and postdoctoral Fellowships to be taken up in New Zealand in 1976. The awards will be for scientific research in government departments. A good working knowledge of English is required.

The emoluments will be: senior, within the range NZ\$11,517 to NZ\$17,088; postdoctoral, NZ\$9,668. All emoluments are taxable.

Senior Fellowships will normally be for a period of from 9 months to 1 year and postdoctoral Fellowships for a period of from 2 to 3 years.

Application forms and further particulars may be obtained from: **Senior Administration Officer, National Research Advisory Council, Box 8004, Wellington, New Zealand; Senior Scientific Adviser, New Zealand High Commission, New Zealand House, Haymarket, London SW1 Y4TQ, England; New Zealand Embassy, 19 Observatory Circle, NW, Washington D.C. 20008; New Zealand High Commission, Suite 804, Commonwealth Building, 77 Metcalfe Street, Ottawa, Canada, K1P 5L6; New Zealand High Commission, Commonwealth Ave., Canberra 2600, A.C.T., Australia; New Zealand Embassy, 20-40 Kamiyama-cho Shibuya-ku, Tokyo 150, Japan; New Zealand Embassy in Bangkok, Bonn, Brussels, The Hague, Jakarta, Lima, Paris, Rome, Saigon, Santiago, and Seoul; New Zealand Consulate-General in Athens, Geneva, and Sydney; New Zealand Commission in Hong Kong; and New Zealand High Commission in Kuala Lumpur and Singapore.**

Applications must reach the Council's office by 30 September 1975.



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THIS COMPETITION IS OPEN TO
BOTH MEN AND WOMEN

LAKE SYSTEMS ECOLOGIST

Department of the Environment
Inland Waters Division
Burlington, Ontario

Salary up to \$27,280

Investigates the time and space distribution of limnological properties of large lake systems to derive relationships between the transport mechanisms, the energy fluxes and the biochemical and physical properties of lakes; develops and applies methods of population dynamics and systems analysis to derive numerical models of the interrelationships among limnological processes in large lakes; applies statistical techniques to optimize experimental sampling programs and to evaluate and verify the reality of the numerical models. Doctorate degree in Computer Science or related field, or Doctorate in the Physical or Biological Sciences with extensive experience in computer modelling and systems analysis. Experience with systems associated with the hydrological cycle is desirable. Knowledge of English is essential.

HOW TO APPLY:

Interested candidates should apply to the:

**SCIENCES AND TECHNOLOGY PROGRAM
PUBLIC SERVICE COMMISSION OF CANADA
TOWER "A", PLACE DE VILLE
OTTAWA, ONTARIO K1A 0M7**

Please quote competition number: 74-110-97 (SM) on all correspondence. Similar positions may be filled as a result of this competition.

TUMOR IMMUNOLOGIST

Senior investigator required to develop and participate personally in laboratory investigations of cellular immunology in a program emphasizing host-graft responses related to viral oncology. Will work within a multidisciplinary group in close collaboration with senior NCI investigators performing related research. Will have minor administrative responsibilities.

Well-equipped facilities, an extensive scientific library, a large experimental animal farm, and professional computer support are available.

A competitive salary, attractive Company benefits, and relocation expenses will be offered. Applications and complete résumés may be addressed to Mr. Donzel Loker, Personnel Manager.

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Frederick, Maryland 21701

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POSTDOCTORAL POSITIONS

The UNIVERSITY OF CALIFORNIA LAWRENCE LIVERMORE LABORATORY seeks POSTDOCTORAL CANDIDATES in its Biomedical Research Program. As a member of a multidisciplinary research team, you would be involved in research projects in cell biology related to carcinogenesis and tumor biology.

1. Research in cytogenetics using flow systems. Emphasis placed on preparative procedures for chromosome isolation and biophysical techniques of purification combined with electronic flow sorting. Fluorescent staining of DNA and chromosomal proteins applied to quantitative karyotyping, aberration detection and biochemistry.

PhD in cytogenetics, cytochemistry, biochemistry or biophysics. Should have strong interest in working as member of research team in flow cytogenetics.

2. Research program on cytotoxic, teratogenic effects (in mice) of energy-related chemical agents. Involves dosage, biochemical assays, quantitative effect measurements by histological oocyte enumeration.

PhD in biological sciences, plus biochemical and/or toxicological research experience; histology experience desirable.

3. Research to develop rapid and novel biological systems for the cell culture and cytochemical assay of carcinogenic activity of compounds associated with energy production. Establish conventional *in vitro* assay systems and investigate possible cytochemical markers for malignant transformation.

PhD in cell biology, biochemistry, biophysics or related discipline. Should be familiar with field of chemical carcinogenesis. Experience with cytochemistry and biophysical cytology desirable.

As a recent PhD, if you have the creativity and interest to contribute to our expanding program of research on the health and environmental issues of national energy policies, we invite your application. The University of California Lawrence Livermore Laboratory is one of the national laboratories of the U.S. Energy Research and Development Administration. Its location is a suburban community in a rural setting only 50 miles from San Francisco. Salary range is \$12,000-\$15,000 per annum.

Please send complete resume and statement of career goals to:

Ms. Sherry Mattson
Personnel
Department L-352
LAWRENCE
LIVERMORE LABORATORY
University
of California
P.O. Box 808 (SC-065)
Livermore, California 94550



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The AO MICROSTAR Microscope

It has a new high intensity illuminator with a 20 watt tungsten Halogen lamp that gives more light and longer lamp life. High color temperature offers greater operating efficiency and truer color rendition particularly for photomicrography. Further, the lamp is self-cleaning to assure consistent brightness throughout the exceptionally longer life. The lamp control is solid state and continuously variable to give you the exact illumination intensity desired. A transformer is neatly fitted inside the microscope base, out of the way.

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