A REVIEW OF CYCLOPHOSPHAMIDE by Donald L. Hill, Southern Research Institute, Birmingham, Alabama. This extensive reference work on the chemistry, metabolism, pharmacology and sites of action of cyclophosphamide is for chemists who are interested in the preparation and mechanism of action of alkylating agents, for pharmacologists interested in the complex pharmacodynamics of a drug which is both activated and inactivated inside the body, for immunologists who use cyclophosphamide as a classical immunosuppressive agent, and for clinicians involved in the transplantation of human organs. 75, 352 pp., 70 il., 16 tables, $18.50

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kamp. Wiley, New York, ed. 2, 1975, xii, 650 pp., illus. $14.95. The Wiley Series in Manage-

ment and Administration. Design and Analysis of Time-Series Experi-


mas. Theory and Application. Paul Chung, Lawrence Talbot, and Kenell J. Tou-

ryan. Springer-Verlag, New York, 1975, xvi, 150 pp., illus. $19.80. Applied Physics and Engi-


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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, 396 pp., illus. $25.50; cloth, $58.75; paper, $37.75. Belle W. Baruch Library in Marine Science No. 3.


Toxicology of Insecticides. Fumio Matsunuma. Plenum, New York, 1975, xvii, 504 pp., illus. $72.50.


POSITIONS WANTED


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

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.


AQUATIC ECOLOGIST

Appointment available at Rosentale School of Marine and Atmospheric Science, University of Miami, for an aquatic systems ecologist with an appointment in quantitative population or community ecology with particular interest in food chain dynamics and community structure. Responsibilities include teaching and the designing and coordination of field research. Level of appointment would be commensurate with qualifications. Inquirers should send curriculum vitae and letter of recommendation to C. F. Fox, Department of Bacteriology.

Chairman—Ecology Search Committee
Division of Biology and Living Resources
Rosentate 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, desire to work in an independent research laboratory, and three and three letters of recommendation are invited to submit curriculum vitae and two letters of recommendation to C. F. Fox, Department of Bacteriology, University of Miami, 4600 Rickenbacker Causeway, Miami, Florida 33149, 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 in an independent research laboratory program. Submit curriculum vitae and three letters of recommendation to Dr. M. Oppen, Chairman, Department of Microbiology, and University of North Carolina, Chapel Hill, NC 27514.

Opportunity for physician scientist to become ASSOCIATE CHIEF OF STAFF FOR RESEARCH, Oklahoma City VA Hospital. Position is that of Chief Executive for Department of Research and surgical hospital located on Oklahoma Health Sciences Center campus and affiliated with the University of Oklahoma, School of Medicine (Oklahoma, Health, Teaching). Research Service administrators programs for 43 investigators who publish 193 papers annually. Duties include: planning, implementing and evaluating 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 Paran, Associate Director, 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 commence January 1976. Molecular endocrinology or animal cell differentiation are the preferred areas of research. Minimum of 2 years of postdoctoral research experience required. Salary negotiable and commensurate with rank. Interested persons should send curriculum vitae. Also arrange to have three letters of recommendation sent.

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BOTANY AND ZOOLOGY

Botanist, Ph.D., with both field botany and molecular research interests. Must be capable of managing a vascular and nonvascular botanical and biological research program. Position available August 1975 for qualified positions.

Zoologist, Ph.D., with strong research background in mammalian systematics, comparative morphology, and vertebrate biology and invertebrate and vertebrate physiology. Entomological or ornithological interests desirable.

Both positions involve undergraduate and master's teaching and research. Rank and salary dependent upon qualifications and experience. Send curriculum vitae and letters of reference to Banting and Best Department of Medical Research.

Chairman—Ecology Search Committee, California State College, California, Pennsylvania 15419, for September employment. An Equal Opportunity/Affirmative Action Employer.

BIOLoGICAL RESEARCH COORDINATOR

Applications are invited for the professional position of Biological Research Coordinator. Basic qualifications: Ph.D. in the life sciences and six years of research, teaching, and administrative experience in the area of biological research. Salary negotiable and commensurate with qualifications and experience. For further information, contact: Office of the Dean of Science, California State University, Chico, Chico, California 95929.

BIOLoGICAL FACULTY position starting 1 September 1975 to teach human anatomy and physiology, genet- ICs, and histology. Doctoral degree preferred. Contact with additional competence and desire may have an opportunity at various times to teach in the areas of biochemistry, microbiology, and allied sciences. Position available. Salary dependent upon qualifications. Inquirers should send curriculum vitae, letters of reference, and three and three letters of recommendation to: Sewall, Department of Biology, University of New Mexico, Albuquerque, New Mexico 87106.

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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 LMFBR 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 un:i:s. 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.

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. Gehre, Dept. 100-H, Argonne National Laboratory, 9700 South Cass Ave., Argonne, Illinois 60439

Dr. Patricia M. Failla was appointed Assistant to the Laboratory Director with special responsibilities for program planning in 1974. She graduated from Bernard 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 1977 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.
POSITIONS OPEN

CHAIRPERSON, DEPARTMENT OF ANIMAL ECOLOGY

Established graduate and undergraduate programs in animal ecology are being offered by a new Department. Need Ph.D. vertebrate ecologist with administrative, research, and teaching experience. Can be in place by early 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.

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CSIRO—AUSTRALIA

DIVISION OF TEXTILE INDUSTRY

GEELONG, VICTORIA

APPOINTMENT OF CHIEF 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 textiles and rayon is also carried out. The Division has well-equipped physical and chemical laboratories, together with a small vertical textile mill for large-scale trials.

Within the framework of the Wool Research Laboratory, 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 that the Wool Coordination of the work and cooperation with the International Wool Secretariat is the responsibility of the Chief 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 the Division which are 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 not be less than $13,240 per annum, and a higher level would be considered in the case of an exceptional candidate.

APPLICATIONS: Tenure: Appointment to the Organization will be for a fixed term (of 7 years) with the possibility of renewal. Superannuation benefits are available, subject to normal conditions. However, the tenure of appointment as Chief of the Division is to be of fixed term (of the order of 7 years) would be envisaged initially. Such an arrangement 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 Appointment 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), Department of Overseas Trade
1601 Massachusetts Avenue, NW
Washington D.C. 20036

The Chief Scientist, Division of Agriculture
64-78 Kingway
London WC2B 6BD, England

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

Further information on the Division’s activities can be obtained from the Division of Agriculture, 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 Director of Administration
Head Office, CSIRO
P.O. Box 225
Dickson, A.C.T. 2602, Australia

by 19 September 1975.

CARDIOLOGIST—The Division of Cardiology in the Department of Medicine at the University of Alabama in Birmingham has two positions open for assistant professor or associate professor level. The positions are open to qualified individuals at a senior level, fulfilling the requirements of either an individual with considerable experience in the care and management of patients with cardiovascular disease and in cardiac catheterization. Second, the candidate is expected to be able to contribute to teaching programs oriented to medical students, graduate students, house officers, and fellows. Finally, the individual should be a research background and be able to carry out independent research. Apply to: Dr. K. D. Carlander, Department of Cardiology, University Hospital, University of Alabama, 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 school teaching. The recipient is expected to participate actively in advising, in departmental and collegiate governance, in special college curricula, in U.W. college, in instructional-support roles. Qualifications: Ph.D., teaching experience preferred. Only completed written application is acceptable. Salary $13,000 per annum, and three letters of reference or placement credentials will be considered. Deadline: 1 July. Send to: Chemistry Faculty Search Committee, A.C.T. University of Hawaii, Honolulu, Hawaii 96222. We encourage women and member 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 Department is an integral part of the University and receives the bulk of its support from the institution. Principal fields of endeavor have been in the natural sciences, specifically in anthropology/arthrology, 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 our various Museum programs. It is expected that the director will have a broad background with emphasis in those areas and seek advice from colleagues in those areas. 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 1 August 1975. Send curriculum vitae and references to: Dr. E. E. Barga, Presidency, 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 faculty lecturer in biochemistry, starting no later than 1 October 1975. This is a 9-month teaching position with research responsibilities or facilities or both. Reappointment is on an annual basis and for no longer than 3 years. The lecturer will be expected to fulfill responsibilities on a 10-month (non-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 students. A Ph.D. degree (or equivalent) is required. The University of California is an Affirmative Action Employer.

Applications from women and minority candidates are encouraged. Send curriculum vitae, at least two letters of recommendation (with emphasis on teaching experience or potential), and other supporting documents to: Professor J. H. Segel, Chairman, Lecturer Search Committee, Department of Biochemistry and Biophysics, University of California, Davis, California 95616. Telephone: 914-752-3193 or 752-8411. The deadline for applications is 30 July 1975.

SCIENCE, VOL. 188

FACULTY POSITIONS IN BIOCHEMISTRY

ASSISTANT PROFESSOR: Ph.D. or M.D. with special interests in research and teaching in neurobiochemistry, 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 in- complete application, letter of reference and curriculum vitae to: Dr. E. E. Barga, Chairman, Department of Biochemistry, 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 biochemistry. 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 ($25,000 to $30,000), M.D. with at least 10 years of experience in teaching and research in medical microbiology and immunology. Must have in- terests in immunology and cell biology. (ii) Associate Professor of Microbiology ($24,000 to $26,000), M.D. (possible Ph.D.) with at least 6 years of experience in teaching and research in microbiology and cellular immunology. Both positions require strong background in immunology and a commitment to medical, dental, and graduate students, supervision of graduate student research and independent research activities supported by grants from outside agencies. Send curriculum vitae and list of publications to Dr. Felix Milgrom, Professor and Chairman, Department of Microbiology, University of Miami, School of Medicine, 1200 North State Street, Box 664, Los Angeles, California 90033. The University of Miami is an Equal Opportunity and Affirmative Action Employer.

PEDiatric OPHTHALMOLOGIST

Applications are sought for a Board-certified ophthalmologist with specialty training in pediatric ophtalmology. Fellowship training experience in one of the areas of specialization is desirable: 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, UNIVERSITY OF ILLINOIS, CHICAGO Campus

Cell Membrane Biologist. Applications for an appointment at the assistant professor level are invited from individuals with postdoctoral experience in the study of cell-surface receptors at the molecular level. Duties include teaching receptor mechanisms to honors 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-Mi-
obiochemist. Ph.D. required. Should be able to teach in at least three courses in immunology and to do research depend on training and experience. Applications by 15 July. Resume, including course grades, should be submitted to: Dr. Paul Thompson, 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 en-zyme complex. Experience with isolation and struc-tural studies of polypeptides. Available now for 1 year, $11,000, with excellent possibility for renewal. Send résumé to: Dr. H. Richard Logan, Department of Biological Science, Syracuse University, 310 College Place, Syracuse, New York 13210. Syracuse University is an Equal Opportunity/Affirmative Employer, applications from minority candidates and women are encouraged.

1332
**CURRICULUM DEVELOPMENT**

Technical Education Program

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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

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**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 the applications to the Association of Commonwealth Universities (Apats), 36 Gordon Square, London WC1H ODP, from whom further particulars may also be obtained.

27 JUNE 1975

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**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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**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 scientists, managers 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.
POSTDOCTORAL POSITION

Applications are invited for a postdoctoral fellowship to investigate cromatin structure and function with emphasis on x-ray, neutron diffraction, electron microscopy, and in vitro transcription. Applicant should have a Ph.D. or M.D. in biochemistry or molecular biology. Salary will be equivalent to $70,000 per year. Applications including the names of three references should be submitted to: Dr. Stephen Tall, Department of Molecular Biology, 5201 Taffe Street, Chapel Hill, North Carolina, 27514. Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL ASSISTANTSHIPS AND TRAINEE SHIPS

In Oncology, Immunology, Microbiology, Virology, and Molecular and Cellular Biology.

Applications are invited from Ph.D. or M.D. candidates with research experience in any of the above fields. These fellowships are designed to attract talented and motivated individuals to pursue careers in basic cancer research. Applications should be submitted to: Dr. Sheldon Dray, Head, Department of Microbiology, University of Illinois Medical Center, P.O. Box 6968, Chicago, Illinois 60680.

UNIVERSITY OF BRITISH COLUMBIA

DEPARTMENT OF ANIMAL SCIENCE

RANGE-PASTURE MANAGEMENT

Applications are invited for a faculty position at the rank of assistant professor with an emphasis on animal nutrition. The successful candidate should have a Ph.D. in animal science and have teaching and research experience in the area of animal nutrition. This position is available immediately. Application packages should be submitted to: Department of Animal Science, University of British Columbia, Vancouver, B.C. V6T 1W5.

POSTDOCTORAL/RESEARCH ASSOCIATES—CHEMICAL PATHOLOGY

Two positions available for postdoctoral research on the properties and regulation of cholesterol metabolism. Experience in basic or clinical research in this area is desirable. Excellent working conditions and a stimulating research environment are available. The salary will be in the range of $20,000 to $25,000 per year. Applications, including a brief statement of research interests and experience, should be submitted to: Dr. William E. Benedict, Children's Hospital of Los Angeles, 4650 Sunset Blvd., Los Angeles, California 90027. The Children's Hospital of Los Angeles is an Equal Opportunity Employer.

POSTDOCTORAL/RESEARCH ASSOCIATES—CHEMICAL CARCINOGENESIS

Two unique positions are available for study of the effects of chemical carcinogens on cell cycle controls in culture, biochemistry, or coagulation parameters. Stipends will be up to $15,000 per year. Applications, including a brief statement of research interests and experience, should be submitted to: Dr. E. C. Lee, Associate Professor, Department of Biochemistry, University of California, P.O. Box 2050, Miami, Florida 33135. An Equal Opportunity Employer.

TECHNICIAN IN BIOLOGICAL ELECTRON MICROSCOPY

Minimum of 5 years' training and experience in electron microscopy; use of ultramicrotome; autoradiography; technical experience; and darkroom experience with EM materials; histology and electron microscopy; histology; 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.
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:

SCIENCE 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.

Litton Bionetics, Inc.
FREDERICK CANCER RESEARCH CENTER
Post Office Box B
Frederick, Maryland 21701

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LAWRENCE LIVERMORE LABORATORY

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 biochemical 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-06S)
Livermore, California 94550

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