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**Psychosocial Pharmacy.** The Synthetic Society. Fred B. Gable. Lea and Febiger, Philadelphia, 1974. x, 248 pp. Paper, \$6.

Quantitative Thin Layer Chromatography. Joseph C. Touchstone, Ed. Wiley-Interscience, New York, 1973. xvi, 330 pp., illus. \$14.95.

Réflexes, Emotions, Instincts. Jean Paulus. Dessart, Brussels, Belgium, 1973. iv, 184 pp. 36 F. Manuels et Traités de Psychologie et de Sciences Humaines.

School-Age Mothers. Problems, Programs, and Policy. Lorraine V. Klerman and James F. Jekel. Linnet Books (Shoe String Press), Hamden, Conn., 1973. xvi, 152 pp. \$6.

Semiconductor Physics. Karlheinz Seeger. Springer-Verlag, New York, 1973. xvi, 514 pp., illus. Paper, DM60. Springer Study Edition Physics.

Seminar: Die Entstehung von Klassengesellschaften. H. von Klaus Eder, Ed. Suhrkamp, Frankfort, Germany, 1973. 376 pp., illus. Paper, DM12.

Sensory Processes. The New Psychophysics. Lawrence E. Marks. Academic Press, New York, 1974. xii, 334 pp., illus. \$17.50.

7th European Conference on Microcirculation. Part 1, Methodology in Microcirculation. Part 2, Clinical Aspects of Microcirculation. Proceedings of a conference, Aberdeen, Scotland, 1972. J. Ditzel and D. H. Lewis, Eds. Karger, Basel, 1973 (U.S. distributor, Phiebig, White Plains, N.Y.). Part 1, xvi, 548 pp., illus. \$104. Part 2, xvi, 548 pp., illus. \$104. Bibliotheca Anatomica, Nos. 11 and 12.

Simple Astronomy. Iain Nicholson. Illustrated by Don Pottinger. Scribner, New York, 1974. 64 pp., illus. \$6.95.

Superconducting Magnet Systems. H. Brechna. Springer-Verlag, New York, 1973. xii, 590 pp., illus. \$65.60. Technische Physik in Einzeldarstellungen, vol. 18.

Symmetry in Chemical Theory. Application of Group Theoretical Techniques to the Solution of Chemical Problems. John P. Fackler, Jr., Ed. Dowden, Hutchinson and Ross, Stroudsburg, Pa., 1973. xvi, 508 pp., illus. \$25. Benchmark Papers in Inorganic Chemistry.

Taming the Last Frontier. A Prescription for the Urban Crisis. C. W. Griffin, Jr. Pitman, New York, 1974. xii, 260 pp. \$8.95.

Technological Shortcuts to Social Change. Amitai Etzioni and Richard Remp. Russell Sage Foundation, New York, 1973. viii, 236 pp., illus. \$8.95.

Thinking Metric. Thomas F. Gilbert

Thinking Metric. Thomas F. Gilbert and Marilyn B. Gilbert. Wiley, New York, 1973. xiv, 144 pp., illus. Paper, \$2.95. Self-Teaching Guides.

Traité des Hallucinations. Henri Ey. Masson et Cie, Paris, 1973. Two volumes, illus. Vol. 1, xx + pp. 1-710. Vol. 2, x + pp. 711-1544. The set, 440 F. Vector Analysis in Chemistry. Donald

Vector Analysis in Chemistry. Donald D. Fitts. McGraw-Hill, New York, 1973. xiv, 150 pp., illus. \$9.95. McGraw-Hill Series in Advanced Chemistry.

Vibration Analysis for Electronic Equipment. Dave S. Steinberg. Wiley-Interscience, New York, 1973. xxii, 468 pp., illus. \$24.95.



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## Personnel Placement

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

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Anatomist, Ph.D. Seeking position teaching neuroanatomy, gross anatomy in medical school or neurobiology in a college. Experienced with publications, monographs, and grants. Box 385, SCIENCE.

8/23, 30; 9/6

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Biochemist. Ph.D. 1968, Experience in medical/science teaching and research, Wide background specializing protein synthesis and membrane biochemistry. Well versed with research techniques including protein fractionation, radioactive work, characterization of membrane proteins, and so forth. Seeks employment, Box 387, SCIENCE, X

Biologist. M.S. 1974. Developmental and animal physiology background. Thesis topic: Axoplasmic transport. Two years of laboratory technician experience. Seeks academic or industrial position. Frank Ronco, 6309 Darlington Road, Pittsburgh, Pa. 15217.

Broadly trained Geneticist, Ph.D. (1965), 38. Returning from 2-year British postdoctoral. Outstanding teacher, 15 years of professional experience. Special interest in innovative undergraduate programs. Seeks temporary or permanant position. 2266 Lake Circle, Jackson, Mississippi 39211.

Senior Scientific Glassblower with 20 years' experience seeks independent position at university or research establishment. For curriculum vitae and details write to Box 388, SCIENCE. X

Technical Position desired by individual with B.S. in zoology, minor in chemistry. Write 5216 Fair Elms, Western Springs, Illinois 60558, or call (312) 246-5870.

#### POSITIONS OPEN

The Faculty of Medicine, Division of Basic Sciences, Memorial University of Newfoundland, invites applications for two positions at Assistant or Associate Professor level in Biophysics/General Physiology. Preference will be given to those individuals whose research interests are in the area of biological membranes. Teaching responsibilities are biophysics or cell structure and function. Send curriculum vitae and names of three referees to Biophysics Selection Committee, c/o Associate Dean (Basic Sciences), Faculty of Medicine, Memorial University of Newfoundland, St. Johns, Newfoundland.

#### POSITIONS OPEN

#### ANALYTICAL CHEMIST

The Clorox Technical Center, Pleasanton, California, has immediate opening for an Analytical Chemist with food anaysis experience. Prefer college graduate with higher degree, and minimum of 3 to 4 years of industrial experience.

Send detailed résumé with salary requirements to:

> Recruiting Coordinator, The Clorox Company P.O. Box 24305 Oakland, Calif., 94623

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#### AQUATIC BIOLOGISTS/ECOLOGISTS

Ph.D. or equivalent experience in marine fisheries, marine ecology or physiological ecology with 3 to 5 years of experience in field and/or laboratory work in marine or estuairne studies. This person should have a proven writing ability and an innovative approach toward the study of man's effect on the environment. Send résumé to Personnel Manager, Quirk Lawler & Matusky Engineers, 415 Route 303, Tappan, New York 10983. We are an equal opportunity employer.

#### STATE ARCHEOLOGIST TOWA

Applicants should be well-qualified archeologists, have administrative ability, hold an advanced degree, and be eligible for an adjunct appointment in the Department of Anthropology at the University of Iowa. Please send résumé and supporting material before 1 October 1974 to:

Dr. John D. McCrone
Associate Vice President for
Educational Development and Research
The Graduate College
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ASSISTANT PROFESSOR and ASSISTANT BIOMATHEMATICIAN, Departments of Animal Science (75 percent) and Agronomy and Range Science (25 percent) at the University of California at Davis; teaching 60 percent; research 40 percent. Ph.D. in biomathematics or applied mathematics with training or experience in more than one of dynamic programming, operations research, systems analysis, biometrics, and/or stochastic processes and strong interest or training and experience in animal science, range management, nutrition or a related biological discipline. Send complete curriculum vitae with three references to R. L. Baldwin, Department of Animal Science, or W. A. Williams, Department of Agronomy and Range Science, University of California, Davis, Calif. 95616. Closing date: 1 October 1974.

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#### ASSISTANT PROFESSOR OF BIOCHEMISTRY IN DERMATOLOGY

Ph.D. or M.D., minimum of 5 years postdoctoral training/experience. Joint appointment in clinical departments. Research in field of hormone receptor sites along with background in the mechanism of action of antibodies. Duties also include curriculum development and student teaching. Send curriculum vitae and bibliography and request recommendations to Aaron B. Lerner, M.D., Professor and Chairman, Department of Dermatology, Yale University School of Medicine, 333 Cedar Street, New Haven, Conn. 06510.

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Immediate opening for postgraduate research biochemist with training in immunoassay and/or protein chemistry. Send curriculum vitae and references to

Dr. Richard Stone Department of Medicine University of California, San Diego La Jolla, California 92037

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#### **Biostatistician**

Participate in design of system for collection, computer storage and analysis of nationwide data base for agricultural disease and accident reagricultural disease and accident research. Participate in design and execution of epidemiological studies. PhD or Master's plus equivalent experience. Salary to \$20,000. An affirmative action employer. Send resume to UNIVERSITY OF UTAH, 401 Park Building, Salt Lake City, 11th 84112 Utah 84112.

CHAIRMAN, DEPARTMENT OF CHEMIS-TRY, University of Washington, to begin as early as 30 June 1975. Applications, nominations, early as 30 June 1975. Applications, nominations, no letters of inquiry should be sent to Professor Edward A. Stern, Chairman, Chemistry Chairman Search Committee, Physics Department, BJ-10, University of Washington, Seattle, Washington 98195. Applications should include a curriculum vitae, other qualifications, and the names of four or more references. An Equal Opportunity/ Affirmative Action Employer.

#### COMMONWEALTH OF AUSTRALIA

As part of a general review of the fishing industry in the Northern Territory, the Department of the Northern Territory requires the services of a

#### CONSULTANT RESOURCE ECONOMIST

to examine data on existing and potential fish resources around the Northern Territory and to advise on future development strategies for the industry in the following situations:

- 1) Maximum development within a framework of specified controls, such controls to include current Northern Territory legislation and policy, together with other controls imposed on the industry by Commonwealth policies in respect to Taxation, Immigration, Transport, Education, and so forth.
- 2) Unrestricted maximum development. The study is to be restricted to resources for which background information has been collated and does not extend to aquaculture. In particular, the consultant should be prepared to comment on desirable rates of development to a given level of availability of particular resources.
- Management strategies to achieve these rates.
- Incentives, if any, which may help achieve these rates or ultimate levels.
- The economic advantages or disadvantages of diversification within the fishery.
- Existing wage structures and modifications which may rise under guidelines proposed from the study.

the study.

Applicants should be prepared to commence study in 1974 for completion over a period of approximately 3 months, and it is expected that the successful applicant will spend an appropriate amount of time in the Northern Territory in consultation with local industry. Further details including a synopsis of the fishing industry on the Northern Territory and a detailed list of all available source material are available from:

The Executive Member Northern Territory Fishing Industry Review Committee P.O. Box 2783, Darwin Northern Territory, 5794, Australia

Applications should include appropriate personal details, summary of experience and any relevant publications, period available, together with full estimate of fees and costs including cost of traveling to Darwin in the Northern Territory of Australia, living expenses, office accommodation, and transportation. Closing date 2:00 p.m., Friday, 20 September 1974.

Address proposals to:

Assistant Director (Supply)
Department of the Northern Territory
P.O. Box 4075, Darwin
Northern Territory, 5794, Australia
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Telex Code NTASTOR 85062

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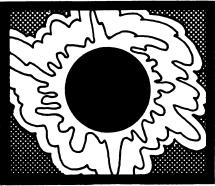
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The position of Associate Dean is now open within the School of Oceanography at Oregon State University. Administrative duties will include monitoring research programs and assisting the Dean with other administrative assignments. Approximately 40 percent of the individual's time will be free for research. Applicants should be capable of maintaining an oceanographic research program and should have at least 5 years' experience in oceanographic research, demonstrated experience or potential for administration, and demonstrated knowledge of federal funding agencies.

Address applications to Dr. John V. Byrne, School of Oceanography, Oregon State University, Corvallis, Oregon 97331. Deadline: 15 October 1974.

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#### CHIEF OF CLINICAL BIOCHEMISTRY UNIVERSITY HOSPITAL LONDON, ONTARIO

Applications are invited for the position of Chief of Clinical Biochmistry, University Hospital. Joint appointment in Department of Biochemistry, Division of Clinical Biochemistry, The University of Western Ontario. Direction of clinical biochemistry laboratory service, 450-bed teaching hospital, teaching (undergraduate, postgraduate, and graduate), research.



#### Mr. P. B. Blewett,

Executive Director, University Hospital, 339 Windermere Road, London, Ontario

#### DEAN COLLEGE OF VETERINARY MEDICINE

Michigan State University invites applications and nominations for the position of chief academic and administrative officer of the College of Veterinary Medicine. Requisites include strong educational and research interests, outstanding achievement in the field of veterinary medicine, and demonstrated administrative and leadership abilities. and de abilities

abilities.

Applications, with current résumés and three references, should be submitted by 30 September 1974, to: Dr. Robert Michel, Chairman, Dean's Selection Committee, College of Veterinary Medicine, A126 Veterinary Clinic, Michigan State University, East Lansing, Michigan 48824.

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#### DIRECTOR LABORATORY ANIMAL MEDICINE

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#### FACULTY POSITION

A full-time faculty position is available immediately in the Biology Department. Individual will lecture and conduct lab in General Biology and Fisheries Biology and Management and participate in Estuarine Problem Analysis and Applied Estuarine Ecology. Requirements: Master's or in process of completing Master's. Send letter of interest, résumé, and transcripts by 26 August to Personnel Office, Charles County Community College, Box 910, LaPlata, Maryland 20646.

EOE M/F

#### FACULTY POSITIONS AVAILABLE PHARMACOLOGY GROUP

Two Assistant or Associate Professor positions in the area of Endocrine, Cardiovascular (Inorpopia and Antiarrhythmic Agents) and/or Renal Pharamcology are currently available at Southern Illinois University, Springfield Campus. Positions involve: Teaching pharmacology in an innovative organ-system-oriented, self-instructional curriculum; independent and collaborative research in well-equipped facilities. Applicants should send curriculum vitae and have three letters of reference sent to Dr. William Cline, Acting Director, Pharmacology Division, Southern Illinois University School of Medicine, 707 North Rutledge Street, Springfield, Illinois 62708.

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#### POSITIONS OPEN

#### EXPERIMENTAL PSYCHOLOGISTS

The Department of Psychology of the University of Michigan expects to make several faculty appointments in Experimental Psychology for terms starting September 1975. Candidates at all levels will be considered. Letters of inquiry, applications with curriculum vitae, and nominations should be addressed to Prof. J. Reitman, Department of Psychology, University of Michigan, 330 Packard, Ann Arbor, Mich. 48104. A Non-discriminatory, Affirmative Action Employer.

#### **FACULTY POSITION**

The University of Tennessee-Oak Ridge Graduate School of Biomedical Sciences seeks applicants with a doctoral degree in physiology, pathology or related area. Research affiliation with the Biology Division, Oak Ridge National Laboratory. Rank and salary dependent on qualifications. Successful candidate will maintain viable research program and teach mammalian physiology at graduate level. Duties also include assisting in recruitment and advisement of students in minority research training program. Minority applications encouraged.

Send curriculum vitae and three references to: Fred C. Hartman, Search Committee, University of Tennessee-Oak Ridge Graduate School of Biomedical Sciences, Biology Division, Oak Ridge, National Laboratory, P.O. Box Y, Oak Ridge, Tenn. 37830.

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#### FACULTY POSITION

Soil Invertebrate Zoologist, A faculty teaching and research position is available in the area of invertebrate zoology and microcommunity bioenergetics with emphasis on soil community ecology. Duties include involvement in undergraduate and graduate programs. A Ph.D. degree is required, Send personal curriculum vitae, professional résumé, and three letters of reference to: Dr. M. M. Alexander, Department of Forest Zoology, State University of New York College of Environmental Science and Forestry, Syracuse, N.Y. 13210. An Equal Opportunity and Affirmative Action Employer.

#### ASSISTANT PROFESSOR

Position available in Department of Neurology, University of Arizona, Tucson. Must be Board certified or eligible with excellent clinical abilities, some research training and/or experience essential, Send résumé to: W. A. Sibley, M.D., Arizona Medical Center, Tucson, Arizona 85724.

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2) Mineralogy-Petrology, Position available for September 1975.

Please send résumés and the names of three references to: Dr. Richard O. Stone, Chairman, Department of Geological Sciences, University of Southern California, Los Angeles, California 90007. Southern California is an Affirmative Action/Equal Opportunity Employer.

#### HEAD, RADIATION THERAPY University of Maryland Medical School

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Immediate opening for a GS-13 (\$20,677 to \$26,878), Mathematical Statistician (Survey in Medicine). A Ph.D. (or its equivalent) in Biostatistics, Statistics or Mathematical Statistics and at least 2 years of statistical experience in medical-epidemiological research is required. Work is in a multidisciplinary environment. Responsibilities involve developing designs and methodology of disease statistics surveys, evaluating and monitoring contracts, and so forth. Position is located in Bethesda, Maryland, Send résumé or federal government application form (SF-171) to: Mr. Michael Lockard, Building 31, Room 8A-25, NINDS, Bethesda, Maryland 20014. Applications must be received by 31 August 1974.

#### MICROBIOLOGIST

Microbiologist to work on research project on differential susceptibility to disease in man. Large West Coast university, Salary: \$15,000 to \$20,000.

**Box 390, SCIENCE** 

#### MICROBIOLOGIST

Assistant Professor, Ph.D. Appointment to be made by 1 January 1975. To develop an introductory microbiology course for nurses in a baccalaureate program and offer an advanced level course in specialty. Prefer candidate with expertise in immunology or pathogenic bacteriology. Postdoctoral experience preferred. Strong commitment to research expected. Send complete curriculum vitae and three letters of reference to:

Dr. William C. Forbes

Department of Biological Sciences
Oakland University
Rochester, Michigan 48063

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#### NEUROPATHOLOGIST

Joint appointment, University of Manitoba and Health Sciences Center. Exciting opportunity to play a major role in the creation of an interdisciplinary neuroscience program. Excellent research facilities. Applications to: Dr. Drummond Bowden, Department of Pathology, University of Manitoba, 770 Bannatyne Avenue, Winnipeg, Manitoba, Canada.

#### Ph.D. NEUROPHARMACOLOGIST

Ph.D. NEUROPHARMACOLOGIST

Applications are invited for a position at the Assistant Professor level for a Ph.D. neuropharmacologist preferably with 2 years of post-doctoral experience to be responsible for carrying out specific phases of CNS research. The applicant should be competent in biochemical and single unit recording techniques as applied to chemically defined neuronal systems in the CNS. Responsibilities also include teaching psychopharmacology to medical students and resident fellows.

Send applications with curriculum vitae and names of three references to: Professor Robert H. Roth, Departments of Psychiatry and Pharmacology, Yale University School of Medicine, 333 Cedar Street, New Haven, Connecticut 06510.

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#### PAPER SCIENCE AND ENGINEERING

Faculty position. Unusual opportunity for teaching, research and pilot plant studies in well-established program. Chemical engineer or chemist with Ph.D. and experience preferred. Résumé and names of three references to Dean R. V. Jelinek, State University of New York College of Environmental Science and Forestry, Syracuse, N.Y. 13210. An Equal Opportunity/Affirmative Action Employer.

PATHOLOGIST—Board certified, with interest in academic pathology and research and experience in clinical and/or anatomic pathology. Affiliation with Mt. Sinai School of Medicine. 1018-bed general hospital. Contact Dr. Fiorenzo Paronetto, Chief, Laboratory Service, Bronx Veterans Administration Hospital, Bronx, New York 10468. Tel: (212) 584-9000, Ext. 400. An equal opportunity employer m/f.

## DERMATOLOGICAL RESEARCH INVESTIGATOR

Leading manufacturer of cosmetics, toiletries, and pharmaceuticals, situated in the Princeton/Rutgers area, has an excellent opportunity available for Ph.D. Biochemist, Physiologist or Pharmacologist. Position requires 5 or more years of experience in research on skin structure, function and disease. Some experience in the clinical safety and efficacy testing of toiletries and proprietary drugs is also required. The successful candidate will be responsible for conducting long-term, as well as product-oriented research now in progress, and initiating new research and new methods development.

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An excellent opportunity is now available in Chemotherapy Research for a Ph.D. level Mycologist to study anti-fungal agents in-vitro and in-vivo. One to three years of experience in working with experimental infections in laboratory animals preferred.

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#### FOOD AND AGRICULTURE ORGANIZATION OF THE UNITED NATIONS

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Applications are invited for the post of a Fish Culturist for the Khmer Republic under the FAO/UNDP Programme from candidates with a University degree of equivalent in fisheries sciences and several years of experience in the field of fish culture in tropical countries. Very good knowledge of English or French is essential. Duty Station—Phnom Penh.

The duties and responsibilities of the post include (1) to assist in the establishment of a fish hatchery/demonstration fish farm station; (2) to set up and demonstrate modern methods of aquaculture in fish cages; (3) to train counterpart personnel and fish farmers in the techniques of pond and cage fish culture.

Salary: U.S. \$16,542 to U.S. \$21,294 net (tax free, plus Cost of Living Adjustment and other allowances.

Further details can be obtained from the Personnel Officer, Department of Fisheries, FAO, Rome. Closing date for receipt of applications: 15 September 1974.

#### MURDOCH UNIVERSITY Western Australia SCHOOL OF VETERINARY STUDIES

Applications are invited for several positions in each of the following fields within the Division of Veterinary Biology. Candidates should be capable of relating structural and functional features of domestic animals. They would normally be expected to have a higher degree.

#### ANATOMY/HISTOLOGY PHYSIOLOGY **BIOCHEMISTRY/NUTRITION**

Duties include: TEACHING: participation in the first part of the veterinary biology programme leading to an understanding of the animal body. It starts with concurrent themes on the BODY AS A WHOLE and CELL BIOLOGY followed by an integrated study of BODY SYSTEMS. RESEARCH: candidates will be expected to have an active research interest either in general cell biology or in one or more of the body systems.

Level of appointment: One of the Anatomy/Histology vacancies is at a senior level. The other appointments will be in the scales of Lecturer or Senior Lecturer. Present salary scales are: Lecturer \$A9,002-\$12,352; Senior Lecturer \$A12,643-\$14,724; Associate Professor \$A16,389.

General Information: 48 veterinary students will enter this phase of the course in March 1976. The Head of the Veterinary School is Professor R. H. Dunlop. The Chairman of the Division of Veterinary Biology will be Dr. J. McC. Howell, presently at the University of Liverpool. The Chair in Physiology will be filled by Dr. R. G. Wales, presently at Sydney University, who will coordinate the study of the animal body. Appointments are available to commence at various times during 1975.

Further information is available from the Secretary, Murdoch University, Murdoch, Western Australia 6153 or from the Secretary General, Association of Commwealth Universities (Appts), 36 Gordon Square, London WC1H OPF.

Applications close on 30 September 1974.

#### UNIVERSITY OF MELBOURNE **LECTURESHIP** (LIMITED TENURE—3 YEARS) **DEPARTMENT OF PHYSIOLOGY**

#### APPLICATIONS ARE INVITED FOR THIS POSITION:

**QUALIFICATIONS:** The applicant should have teaching and research experience in Physiology, and a Ph.D. in Physiology, a medical degree, or an equivalent quali-

**DUTIES**: The appointee will participate in the departmental teaching activities, including the organising and supervision of laboratory exercises for undergraduate students.

It is anticipated, but not essential, that the appointee's research interests relate to one of the fields being studied at present in the Department. These include: Lipid Metabolism Renal, Respiratory and Cardiovascular function, Haematology and Physiology of the nervous system with emphasis on sensory processes.

SALARY: Lecturer \$9,002-\$12,352

COMMENCING DATE. 1 January 1975, or as soon as possible thereafter.

Further details may be obtained from Professor I. Darian-Smith, Department of Physiology. Details of application from the Registrar, University of Melbourne, Parkville, 3052 Australia. Applications referring to position Number 536014 should be addressed to the Registrar and close on 6 September 1974.

#### POSITIONS OPEN

#### NEW ZEALAND UNIVERSITY OF CANTERBURY CHRISTCHURCH

The Council of the University invites applica-

### SENIOR LECTURER OR LECTURER IN ELECTRICAL ENGINEERING

Applicants should possess a higher degree and experience in the design of electronic systems related to the broad field of Bio-engineering, and the interfacing of such systems to computers. The salary for Lecturers is on a scale from NZ\$7361 to \$9339 per annum; for Senior Lecturers NZ\$9503 to \$11,153 (bar) \$11,484 to \$12,142 per annum.

Particulars, including information on travel and removal allowances, study leave, housing and superannuation may be obtained from the Association of Commonwealth Universities (Appts.), 36 Gordon Square, London WCIH OPF.

Applications close on 31 August 1974.

#### DEPARTMENT OF ENTOMOLOGY OREGON STATE UNIVERSITY

The Department of Entomology at Oregon State University invites applications for a position at the Assistant Professor level in the fields of pest management and crop protection entomology. The position is open immediately. Completed applications are desired as soon as possible, but will be accepted for consideration until 15 September or until the position is filled, whichever is later. Oregon State University is an Affirmative Action Equal Opportunity Employer and encourages applications from women and minority group members. For further information about the Department and the position requirements, write:

Paul Oman, Acting Head Department of Entomology Oregon State University Corvallis, Ore. 97331

#### POSTDOCTORAL POSITIONS

Available immediately, in Laboratory of Neurochemistry to investigate proteins and lipids of myelin and relationships to demyelinating diseases. Send curriculum vitae to Chairman, Department of Neurology, Medical University of South Carolina, Charleston, S.C. 29401. An Equal Opportunity/Affirmative Action Employer.

#### UNIVERSITY OF QUEENSLAND READER IN ANATOMY

Applicants should be medical, dental or science graduates. Preference will be given to applicants with research interests in cytology, histochemistry or neuroanatomy. (Quote Reference No. B48074)

#### LECTURER IN ANATOMY

Applicants should be medical, dental or science graduates. Preference will be given to applicants with research interests in embryology, or physical anthropology. (Quote Reference No. B48174)

#### GENERAL CONDITIONS:

Salary: Reader \$A16,389 per annum; Lecturer \$A9,002-\$12,352 per annum.

Other Benefits: Superannuation similar to FSSU, housing assistance, study, leave, and traveling and removal expenses.

Additional information and application forms are obtainable from the Staff Officer, University of Oueensland, St. Lucia, Old., Australia, 4067, with whom applications close on 13th September 1974.

#### POSITIONS OPEN

LAKEHEAD UNIVERSITY THUNDER BAY, ONTARIO, CANADA

#### **Lakehead** ■ University

#### Nutrition and Food Science

Applications invited for position, rank open, in Nutrition and Food Science; Ph.D. or equivalent, with concentration in community nutrition preferred. To teach undergraduate courses, conduct research and assist in curriculum development.

cevelopment.

Salary commensurate with experience and rank. 1974 floors: Professor \$21,630; Assistant Professor \$13,865.

Send curriculum vitae and names of three referees to:

Mr. Donald E. Ayre Secretary of the University Lakehead University Thunder Bay, Ontario P7B 5E1

#### POSTDOCTORAL POSITION

September 1974. Biochemical investigation of interaction of ethanol with phospholipid metabolism. Research ranges from basic biochemistry to the study of liver and brain metabolism in vivo. Background in enzymology desirable. \$10,500 per year. Send curriculum vitae and references to: Dr. Robert Guynn, Department of Psychiatry, University of Texas Medical School, Houston, Texas 77023.

#### POSTDOCTORAL POSITION

A position is open in a Bioengineering unit whose major emphasis is on the elucidation of biosignals. Opportunities available in: (i) medical pattern recognition; (ii) modular computer-based clinical instrumentation; (iii) molecular biology-information theory; and (iv) neural coding. Relevant experience and interest, rather than an engineering degree, is the most important prerequisite. U.S. citizen or permanent residents ony. Write Dr. T. A. Reichert, Chairman, Biotechnology Program, Carnegie-Mellon University, Pittsburgh, Pennsylvania 15213.

#### POSTDOCTORAL POSITION

September 1974 to work on Human Cell DNA Polymerases. \$12,000 per year. Send curriculum vitae and reference letters to: Dr. Sriviastava, Roswell Park Memorial Institute, Buffalo, New York 14203.

#### POSTDOCTORAL RESEARCH

Position immediately available for individual with training in Molecular Biology, background in Microbial and Phage Genetics and an interest in the role of cyclic nucleotides in regulation in bacteria. Send curriculum vitae and two references to Seymour Werthamer, M.D., Director, Department of Pathology and Clinical Laboratories, The Methodist Hospital, 506 Sixth St., Brooklyn, N.Y. 11215.

#### RESEARCH ASSOCIATE IN APPLIED PHYSICS DEPARTMENT OF PHYSICS UNIVERSITY OF GUELPH

Immediate opening for a one year research position associated with two closely related government contracts.

Preferred experience in computing (FORTRAN and assembler) and light scattering (photon counting). Some familiarity with physical chemistry of polymer solutions would be useful, but not necessary.

Apply to the Chairman, Department of Physics, University of Guelph, Guelph, Ontario, Canada N1G 2W1.

#### **BIOLOGICAL MARKERS** PROJECT DIRECTOR Ph.D. or M.D.

Our client is a major research and development laboratory — fully funded in collaboration with the National Cancer Institute.

The project executive will direct a research center for the analysis of established biological markers in body fluids and for finding and developing new markers for specific cancerous diseases. Anti-tumor drugs and their metabolites in body tissues will be determined. The research center will also develop new analytical techniques for these purposes. Director will manage programs of diverse scope, involving substantial numbers of personnel.

Qualified candidates must have 3 to 5 years' managerial experience in a pharmacological or clinical laboratory, and at least 10 years of postdoctoral and established research investigative experience.

Candidates will be familiar with a broad range of analytical tools in pharmacological and biochemical research — e.g., mass spectrometry, gas chromatography, trace metal analysis, high pressure liquid chromatography, amino acid analysis, and radioimmunoassay.

Outstanding compensation and benefits. Send vitae and salary desired to: James P. Mc-Kenna, Vice President.

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#### ASSOCIATE DIRECTOR FOR DIABETES, ENDOCRINE, AND METABOLIC DISEASES

The Public Health Service, National Institutes of Health, National Institute of Arthritis, Metabolism, and Digestive Diseases, Bethesda, Maryland, invites applications for the position of Associate Director for Diabetes, Endocrine, and Metabolic Diseases, GS-602-16, salary range \$32,806 to \$36,000 per annum. Duties will include planning and direction of programs of support for research and training in the diagnosis, prevention, and treatment of diabetes mellitus and related endocrine and metabolic diseases. M.D. with Board Certification in Internal Medicine, and extensive experience in basic or clinical investigations in this area mandatory. Must have held position involving program development and direction in this area, and have recognized leadership ability. Must also be a citizen of the United States.

Forward resume or Federal Application Form SF-171) no later than 27 September 1974, to: Mrs. June Ardizzone, Personnel Officer, Bldg. 31, Room 9A-34, National Institute of Arthritis, Metabolism, and Digestive Diseases,

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Public Health Service Bethesda, Maryland 20014

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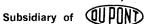
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#### UNIVERSITY OF **WESTERN AUSTRALIA** Perth FORESTS DEPARTMENT POSTGRADUATE RESEARCH FELLOWSHIP IN BOTANY

Applications for the above-mentioned appointment are invited from graduates with a first-class or upper division second-class honours degree in Botany, and Forestry or Agriculture graduates whose courses of study have exwhose courses of study have ex-tended over at least four years and who have had appropriate research experience. The Fellowship, financed by the Forests Department of Western Australia, will be tenable for one year initially with prospects of renewal for up to two further years. The value of the Fellowship is \$A3150 per annum. The Fellow will be required to undertake research in a field covering mycological, physiological or ecological aspects of tree growth in relation to multiple use forestry, or such other fields as may be prescribed. Further information may be obtained from the Head of the Department, Professor J. S. Pate, in the University.

Applications in triplicate stating personal particulars, academic record, re-search experience, work proposed, etc., search experience, work proposed, etc., should reach the Staffing Officer, University of Western Australia, Nedlands, Western Australia 6009, by 31 December 1974. Candidates should request two academic referees to write immediately to the Staffing Officer.

Conditions of Appointment obtainable from the Association of Commonwealth Universities (Appts.), 36 Gordon Square, London WC1H OPF.

#### **NEW ZEALAND** UNIVERSITY OF CANTERBURY Christchurch CHAIR OF **ELECTRICAL ENGINEERING**

The Council of the University invites applications from highly qualified engineers for a Chair in Electrical Engineering, which is the third Chair established in the Department.

Candidates should have a strong research background and broad experience in Electrical Power Systems. The appointee will be expected to develop the subject in relation to the special problems encountered in New Zealand and the opportunities these offer, as well as advancing any other interests he may have.

At present the salary for a Professor is within the range of NZ\$15.111 to NZ\$19,233 per annum. The commencing or subsequent salary of the appointee may be increased as a result of the review of individual professorial salaries which the University makes at the beginning of each year.

Particulars, including information on travel and removal allowances, study leave, housing and superannuation may be obtained from the Secretary General, Association of Commonwealth Universities (Appts.), Gordon 36 Square, London WC1H OPF.

Applications close on 31 October 1974.

#### POSITIONS OPEN

#### POSTDOCTORAL TRAINING IN CARCINOGENESIS RESEARCH

IN CARCINOGENESIS RESEARCH

The University of Tennessee-Oak Ridge Graduate School of Biomedical Sciences and the Carcinogenesis Program of the Biology Division, Oak Ridge National Laboratory invites applications from recent or prospective graduates with Ph.D., M.D., or D.V.M. degrees for postdoctoral training in carcinogenesis research. Successful applicants will join an integrated, interdisciplinary research program involving pathology, immunology, genetics, virology, organic and analytical chemistry, biochemistry, and biophysics. Openings available immediately. For information and application forms write: Training Office, The University of Tennessee-Oak Ridge Graduate School of Biomedical Sciences, Biology Division, Oak Ridge National Laboratory, P.O. Box Y, Oak Ridge, Tennessee 37830.

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#### RESEARCH ASSOCIATES

Two protein biochemists and one bioorganic chemist. Isolation and characterization of growth-promoting substances for cultured vertebrate promoting substances for cultured vertebrate cells. Salary based on experience, new Ph.D.'s or 1 to 3 years postdoctoral. Two-year appointments, available immediately. Dr. R. G. Ham, Molecular, Cellular and Developmental Biology, University of Colorado, Boulder, Colorado 80302.

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#### **RESEARCH POSITIONS**

Immediate openings at Postdoctorate and Research Associate level for:

IMMUNOGENETICIST: interested in cellular immunity or immunology of reproduction.

CELL BIOLOGIST, OR BIOCHEMIST: interested in lipid metabolism in tissue culture cells. Send curriculum vitae together with three references to: Miss Sandy D'Ambrosio, Wistar Institute, 36th & Spruce Streets, Philadelphia, Pa. 19104.

#### STAFF SCIENTIST

Two staff positions for research in radio astronomy are available at the Arecibo Observatory (operated by Cornell University) in Puerto Rico. Demonstrated research ability in experimental radio astronomy is required. Backgrounds in pulsar studies or in radio interferometry would be helpful but are not required. Please send résumé to Dr. H. D. Craft, Jr., Director, Arecibo Observatory, Box 995, Arecibo, Puerto Rico 00612.

#### TOXICOLOGIST

We are seeking candidates with a Ph.D. or D.V.M. degree with training in Toxicology. A minimum of 3 to 6 years in the field of Toxicology is required; preferably some experience with E.P.A. We are a highly diversified midwestern chemical company offerse excellent opportunity for growth. Box 389, SCIENCE. An equal opportunity employer, M/F.

#### FELLOWSHIPS FELLOWSHIPS

#### POSTDOCTORAL FELLOWSHIP IN CRYSTALLOGRAPHY

Applications are invited for a Postdoctoral Fellowship in Crystallography. Candidates must be familiar with single-crystal diffractometer techniques and be proficient in data handling by computer. The successful candidate will be expected to work on the structure analysis of crystals originating from research in this and other Departments.

Applicants must have a Ph.D. awarded for work in crystallography or must have already completed such work prior to submission for the degree. The initial stipend will be in the range of \$7500 to \$8700 per annum.

A curriculum vitae giving the names of two

A curriculum vitae giving the names of two referees should be sent immediately to: Professor S. C. Nyburg, Lash Miller Chemical Laboratories, 80 St. George Street, Toronto, Ontario, M5S 1A1, Canada.

#### A POSTDOCTORAL FELLOWSHIP IN REPRODUCTIVE BIOLOGY

available. Applicants should be interested in is available. Applicants should be interested in the physiology and biochemistry of mammalian embryos during the preimplantation period. Development of the embryo during this period and regulation of embryo genome activity are the general areas of research. Apply with curriculum vitae to: R. L. Brinster, Laboratory of Reproductive Physiology, School of Veterinary Medicine, University of Pennsylvania, Philadelphia, Pennsylvania 19174.

#### FELLOWSHIPS FELLOWSHIPS

Two POSTDOCTORAL FELLOWSHIPS available immediately in biochemical pharmacology for research on action of drugs in isolated perfused organs and organ subfractions (Dr. Brendel) and on glycoprotein and lipid structure and metabolism in kidney subfractions and isolated small blood vessels (Dr. Meezan). Send curriculum vitae to Department of Pharmacology, University of Arizona Medical School, Tucson, Arizona 85724. An Equal Opportunity Employer.

#### POSTDOCTORAL FELLOWSHIP

Recent Ph.D. in biochemistry background to work in immunology laboratory on esterases of human polymorphonuclear leukocytes in relation to defects in chemotaxis and other neutrophil functions. Salary \$10,000 to start September 1974 or thereafter. Send curriculum vitae and two letters of reference to Dr. Elmer L. Becker, Department of Pathology, University of Connecticut Health Center, Farmington, Conn. 06032. The University of Connecticut Health Center is an Equal Opportunity, Affirmative Action Employer.

#### POSTDOCTORAL FELLOWSHIPS IN A MULTIDISCIPLINARY PROGRAM IN CRANIOFACIAL ANOMALIES

Five postdoctoral positions are available after 1 July 1974 for periods of 1 to 3 years. Applicants must have obtained either a D.D.S., M.D., or a Ph.D. in one of the biological or behavioral sciences. Detection, diagnosis, improvement of treatment, genetic counseling, and study of normal and abnormal craniofacial development, including molecular biology, are offered. Applicants must be American citizens. Send curriculum vitae, complete résumé of previous clinical, applied or basic science experiences related to craniofacial anomalies, résumé of projected program, and references to: Dr. Harold C. Slavkin, Department of Biochemistry, School of Dentistry, Gerontology Center, University of Southern California, Los Angeles, California 90067.

#### POSTDOCTORAL FELLOWSHIP

Available September 1974 to work on Mechanism of Protective Action of Carotenoids in Artificial Systems and Natural Biomembranes.

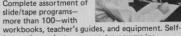
Contact N. I. Krinsky, Department of I chemistry and Pharmacology, Tufts Univer School of Medicine, Boston, Mass. 02

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