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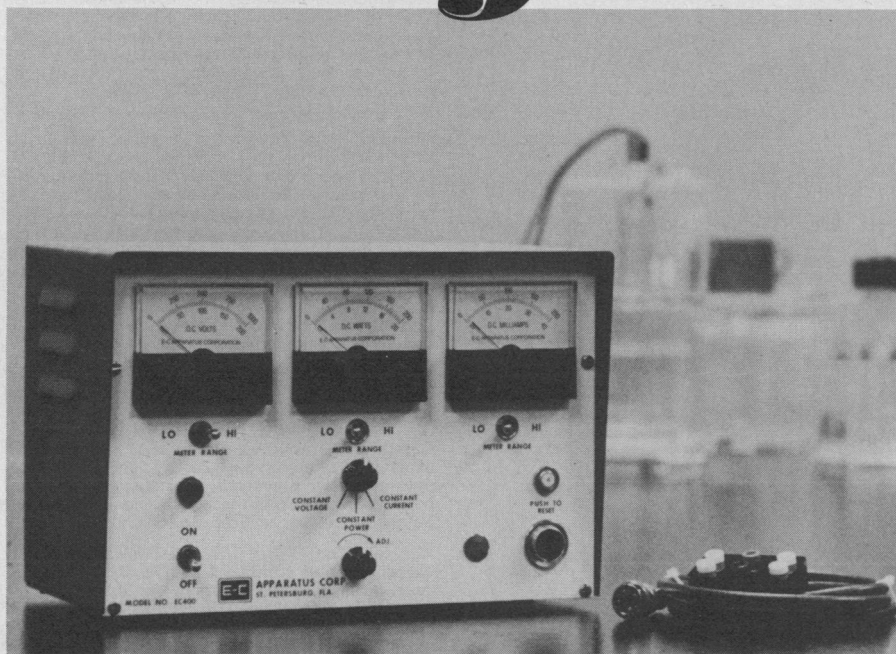
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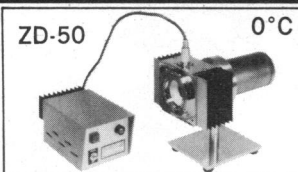
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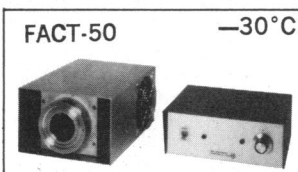


ADVANCED DESIGN COOLED HOUSINGS FOR PHOTOMULTIPLIERS

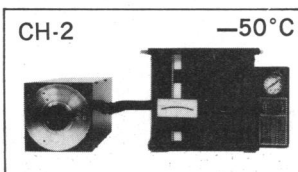


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Maintains temperatures to -50°C with $\pm 1^\circ\text{C}$ accuracy. Model CH-25 to $\pm 0.5^\circ\text{C}$. These housings are especially desirable for use with S-20 and S-1 tubes.

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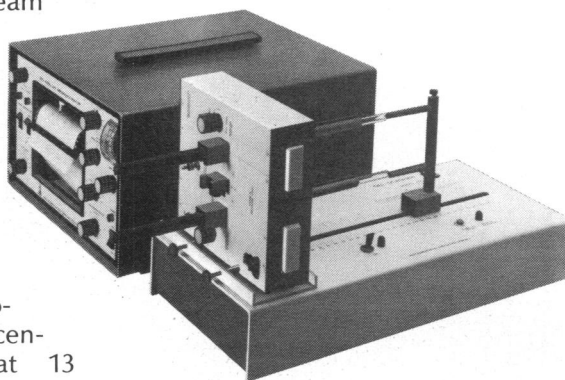
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Personnel Placement

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

POSITIONS WANTED: 40¢ per word; use of Box Number counts as 10 additional words. Minimum charge \$10. Prepayment required. This rate applies to individuals only; personnel agencies, companies, colleges, and universities take display rate for all advertising.

DISPLAY (POSITIONS OPEN, MARKET PLACE, AND SO FORTH): \$145 per inch, minimum, per insertion (1 inch is equivalent to 11 lines of 52 spaces each). Ads over 1 inch billed to nearest quarter-inch. No charge for Box Number. Rates net. No agency commission allowed for ads under 4 inches. No cash discount. Prepayment required for foreign advertising. Purchase orders and billing information must accompany all other advertising.

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1515 Massachusetts Ave., NW
Washington, D.C. 20005

POSITIONS WANTED

Anaerobic Microbiologist, Ph.D., University of Illinois. April 1977. Background: microbial ecology, metabolism, physiology, methane production from waste. Desires industrial-government research position. V. Varel, 455 Animal Sciences Laboratory, Urbana, Illinois 61801. Telephone: 217-333-2090. X

Anatomist/Biologist, Ph.D. General biology, human anatomy and physiology, histology, embryology. Four years of teaching experience including undergraduate and professional school. Seeks teaching position. Box 65, SCIENCE. X

Biochemist/Biologist, Ph.D. 1968, German. Wide background in limnology and histochemistry. Eight years of research and teaching in biochemistry, 3 years in freshwater fish biology. Publications. Seeks research or research and teaching position to continue work in the field of water reuses systems for intensive fish culture. Box 66, SCIENCE. X

Chemist, Ph.D. Thirty-eight years at NIH in research and administration. Research experience includes synthesis of arsenicals for treatment of syphilis, biochemical studies on new penicillins for treatment of penicillin-resistant staphylococcal diseases, mechanism of penicillin allergy, interferon production in lymphocyte culture. Administrative experience includes direct management of several contracts for specialized services. Presently engaged in obtaining information and developing policy on the safe handling of chemical carcinogens. Would like to use this diversified experience in a stimulating activity on either a full-time or part-time basis, preferably in the Baltimore-Washington area. Box 67, SCIENCE. X

Geneticist/Biometrician, Ph.D. Diversified research experience in eukaryote genetics, population biology, quantitative genetics, biostatistics. Teaching, publications. Seeking teaching/research position in South, Southwest, or West. Box 68, SCIENCE. X

Immunochemist, Ph.D., biochemistry, M.S. Six years of postdoctoral experience in tumor-associated antigens and clinical enzymology. Extensive training in isolation and immunochemical characterization techniques, including RIA. Also supervisory and teaching experience. Seeks research/teaching position. Box 69, SCIENCE. X

POSITIONS WANTED

Immunologist, Ph.D. 1972. Immunochemistry, protein chemistry, oncology. Experience with tumor-associated antigens, development of RIA's, solid-phase techniques, immunofluorescent methodologies, enzymology, writing proposals. Industrial, teaching, and clinical experience. Publications. Seeking position in eastern U.S. Box 70, SCIENCE. 2/18, 25; 3/4

Microbiologist, Ph.D. 1968. Twenty-five publications. Nitrogen cycle, organic matter decomposition, plant-microbial associations, soil enzymes. Academic background in soil microbiology and soil science. Desires research or research/teaching position. Box 71, SCIENCE. X

Microbiologist, Ph.D. Broad research interests and experience: medical school teaching of clinical microbiology and immunology. Desires position in academia, hospital, or industry. Publications. Box 72, SCIENCE. X

Nutritionist, Ph.D. 1977. Research in dietary fats, GLC, TLC; interest in dietary-endocrine interrelationships, growth, and reproduction. Teaching in nutrition physiology and endocrinology. Publications. Desires opportunity for professional growth in research and/or teaching. Box 73, SCIENCE. X

Research Architect. B. of architecture, MS., architecture, postgraduate research. Broad experience related to energy research and applied research with heavy emphasis on solar energy and its technologies. Author of papers and publications; seeks research-applied research, or teaching position. Excellent references available. Relocation not a constraint. Box 74, SCIENCE. 2/18, 25

POSITIONS OPEN

DEPARTMENT OF ANATOMY—Applications are invited from persons with M.D. or Ph.D. degree for two positions in the Department of Anatomy. Applicants should have a distinguished record of research accomplishment in neuroanatomy and should have the potential of obtaining extra-mural research support. Formal teaching duties include participation in the teaching of neuroanatomy in an interdisciplinary neurosciences course. Applicants should be well qualified to teach gross anatomy and to participate in research activities of the department. For both positions, rank and salary depend on experience and qualifications. Send curriculum vitae, list of publications, major reprints, and names of at least three references to: **Dr. T. Barka, Chairman, Anatomy Department, MOUNT SINAI SCHOOL OF MEDICINE, 100 Street and Fifth Avenue, N.Y., N.Y. 10029.** An Equal Opportunity Employer.

ASSISTANT PROFESSOR. The Marine Science Program at Stockton State College anticipates an opening for a field-oriented invertebrate zoologist to teach introductory marine science courses and invertebrate zoology and to develop marine science courses in his or her area of specialty. Should enjoy and excel in directing independent study and student research projects. Write for detailed description. **Dr. Philip Nanzetta, Dean, Faculty of Natural Sciences and Mathematics, Stockton State College, Pomona, N.J. 08240.** Affirmative Action Employer.

The University of Illinois at Urbana-Champaign, the Department of Psychology, seeks an **ASSISTANT PROFESSOR** in the Division of Clinical Psychology, beginning August 1977. Position includes teaching at undergraduate and graduate levels, and supervision of psychotherapy practice. Applications should contain curriculum vitae, copies of research publication, preprints or work in progress, and three letters of recommendation. Applications will be accepted immediately, preferably by 1 April in order to ensure consideration. Salary is dependent upon qualifications and experience. Submit to **John Gottman, Clinical Search Committee, Department of Psychology, University of Illinois, 51 East Gerty Drive, Champaign, Illinois 61820.** The University of Illinois is an Equal Opportunity/Affirmative Action Employer.

POSITIONS OPEN

UNIVERSITY OF GUELPH

The Department of Nutrition, University of Guelph, has an opening for an **assistant professor**. Applicants should be prepared to undertake teaching and research on metabolic aspects of ruminant nutrition. Strong training in experimental nutrition, biochemistry, and/or microbiology is required.

Address inquiries to **Dr. H. H. Draper, Chairman, Department of Nutrition, University of Guelph, Guelph, Ontario, Canada N1G 2W1.**

ASSISTANT PROFESSOR

Ph.D. or equivalent. Full-time academic position available fall 1977. Research/extension in economic entomology with emphasis on pesticide technology and pest management. Some opportunity for teaching a course in economic entomology. Applicant should have field research experience in the formulation and application of pesticides within the framework of integrated pest-management systems. Opportunity for both crop and livestock research; experience with specific commodity not necessary. Must communicate well and work effectively with other individuals and groups involved in agricultural production, research, and extension. Address applications or inquiries to **Dr. John D. Edman, Chairman of Search Committee, Department of Entomology, Fernald Hall, University of Massachusetts, Amherst, Mass. 01003.** Telephone: 413-545-2284. An Affirmative Action/Equal Opportunity Employer.

ASSISTANT PROFESSOR POSITION

**Department of Geological Sciences
The University of Texas at Austin**

An assistant professor position is available in the field of structural geology, preferably with specialization in either analytical structural geology or rock mechanics.

The successful applicant for this position will be expected to participate in undergraduate teaching programs that include structural geology and field geology, in addition to graduate courses in the individual's specialty.

Applicants for this position must hold the Ph.D. degree. Qualified persons should send a complete résumé including names of references and a statement of research interests and planned research projects to:

**Dr. Robert E. Boyer
Department of Geological Sciences
The University of Texas at Austin
Austin, Texas 78712**

ASSISTANT PROFESSOR OF BIOLOGY. Lehigh University anticipates a position beginning in September 1977 for a broadly trained physiologist to teach undergraduates, to supervise M.S. and Ph.D. candidates, and to conduct original research. Submit by 9 March 1977 a résumé, reprints, and a summary of research plans, and have three letters of reference sent to **Dr. Steven Krawiec, Department of Biology, Building 31, Lehigh University, Bethlehem, Pa. 18015.**

An Equal Opportunity/Affirmative Action Employer

Two ACADEMIC APPOINTMENTS in HEALTH STUDIES

Two full-time faculty positions are open in an interdisciplinary Health Studies Program focusing on the study of behaviors relevant to physical health. The program includes work at both the undergraduate (B.Sc.) and graduate (M.Sc.) levels.

Position A: Community health evaluation. The successful candidate will have a background in the medical or biological sciences with specific expertise in the evaluation of community health programs. Teaching responsibilities will be in the areas of community health and evaluation of health programs at the upper year undergraduate and graduate levels.

Position B: Biological/health sciences. The successful candidate will have a background in the medical or biological sciences and provide evidence of good teaching ability. Teaching responsibilities will include two introductory health science courses and an upper year undergraduate or graduate course in an area of interest related to disease prevention.

Both positions require a strong interest in interdisciplinary research. The Ph.D. degree is required. Salary and rank commensurate with teaching and research experience. Starting 1 July 1977 with applications closing 30 April 1977. Apply to **Dr. R. G. Marteniuk, Chairman, Department of Kinesiology, University of Waterloo, Waterloo, Ontario, Canada N2L 3G1.**

POSITIONS OPEN

Applications are invited for the position of **ASSISTANT PROFESSOR OF EPIDEMIOLOGY** (medical entomology), School of Medicine, Yale University, (available 1 July 1977). Teaching of medical entomology and research in epidemiology of arthropod-borne diseases will be required. Applicants should have an M.D. degree, and a Ph.D. or equivalent degree in entomology, with special training in medical entomology. In addition they should have at least 2 years of postdoctoral experience in research, and have taxonomic specialization in the biting flies. The applicant must be willing to do field work in West Africa. Applications should be submitted by 15 April 1977. Qualified applicants may write inquiries and send applications to **Dr. R. C. Wallis, Chairman Search Committee, E.P.H., 60 College Street, New Haven, Conn. 06510.** Yale University is an Equal Opportunity/Affirmative Action Employer and welcomes applications from women and members of minority groups.

Seeking special-funded **ASSISTANT PROFESSOR OF MEDICINE** for research in the Cardiology Division. Demonstrated productivity in pharmacokinetic research and collaborative activities with a clinical department are essential. Previous academic experience in the application of pharmacokinetic principles and in the direction of a drug assay laboratory are desirable. Interest in fundamental and clinical pharmacologic research with antiarrhythmic drugs and knowledge of the development of new analytical methodology for drug assay would be appropriate. *Stanford University is an Equal Opportunity Employer and welcomes nominations of women and minority group members and applications from them.* Apply to **Donald C. Harrison, M.D., Chief, Cardiology Division, Stanford University School of Medicine, Stanford, Calif. 94305.**

ASSISTANT/ASSOCIATE PROFESSOR PHYSICAL OCEANOGRAPHY

Applications are invited for research positions (physical oceanography) at the Nova University Physical Oceanographic Laboratory. A demonstrated capacity for outstanding research in any area of physical oceanography, either theoretical or experimental, is necessary. The laboratory is especially well located for scientists interested in studying the Florida current. Send a résumé, bibliography, and references to: **Dennis W. Moore, Director, Nova University Physical Oceanographic Laboratory, 8000 North Ocean Drive, Dania, Florida 33004.** Equal Opportunity/Affirmative Action Employer

DEPARTMENT OF RADIOLOGICAL SCIENCES UNIVERSITY OF CALIFORNIA, IRVINE COLLEGE OF MEDICINE

Applications are invited for a post at the associate professor level in the Section of Therapeutic Radiology at the University of California, Irvine, College of Medicine. This will be a full-time position with responsibilities for teaching at undergraduate and graduate levels and for clinical research and service in the University of California, Irvine Medical Center. The applicant should be a Board-certified radiologist with postcertification experience in therapeutic radiology in a university medical school, and must be prepared to engage in ongoing research and to develop new research protocols. *Applications from all qualified candidates are welcome; minorities and women are encouraged to apply.* Applications, including a short biography and copies of any publications, should be sent to:

**Eric N. C. Milne, M.B., Ch.B., F.F.R.
Professor and Chairman
Department of Radiological Sciences
University of California, Irvine
College of Medicine
Irvine, California 92717**

Closing date: 1 April 1977.

Note: This supersedes a previous position available at the assistant professor level.

BIOCHEMIST AND BIOCHEMICAL ENGINEERS

Faculty positions in the Department of Chemistry and Chemical Engineering for persons interested in establishing a vigorous research program focused on the utilization of biomass by enzymatic or chemical means in conjunction with teaching at both undergraduate and graduate levels.

Curriculum vitae, research plans, and a listing of three references should be addressed to **H. Harry Szmant, Associate Dean for Science, College of Engineering and Science, University of Detroit, 4001 West McNichols Road, Detroit, Mich. 48221.**

POSITIONS OPEN

UNIVERSITY OF PITTSBURGH Basic Research in Ophthalmology

Applications are invited for a postdoctoral research fellowship for work on the glycoproteins of the cornea in health and disease. This position is funded by an NIH Training Grant and is available immediately.

Applicants should possess a medical degree and/or Ph.D. and should have experience in biochemistry of connective tissues and/or glycoproteins. Minimum salary will be \$10,000.

Curriculum vitae, together with the names of two persons to whom reference may be made, should be sent as soon as possible to **Dr. Ian L. Freeman, Ophthalmology Research Laboratory, 3515 Fifth Avenue, Medical Center Building, Third Floor, Pittsburgh, Pa. 15213.**

The Department of Biology of Rhode Island College has three **POSITIONS** available for the 1977-78 academic year. A continuing position as an assistant professor of biology is open. This individual should have a Ph.D. degree in a biological science and experience in audiotutorial instruction and/or other media-related biology instruction. His/her responsibility will be to administer the Biological Sciences Learning Center, to develop instructional materials for introductory biology, and to teach introductory biology. Two temporary 1-year positions will also be filled in the areas of anatomy-physiology and introductory biology-molecular biology. The M.A. or Ph.D. degree with appropriate teaching experience is required. Appointment will be at the rank of instructor or assistant professor. The Rhode Island College Biology Department offers the M.A., M.A.T., and B.A. degrees in biology and occupies the recently constructed Fogarty Life Science Building. For further information contact **Dr. Robert M. Young, Chairman, Department of Biology, Rhode Island College, Providence, R.I. 02908**, including a copy of your curriculum vitae.

The Department of Biological Sciences at Stanford University plans to appoint two faculty at the non-tenured level in the general areas of **CELLULAR AND DEVELOPMENTAL BIOLOGY**. These positions will be on the Palo Alto campus and will be available in September 1977. Successful candidates should have demonstrated independent research capabilities and are expected to participate in both undergraduate and graduate teaching programs in the department, as well as to carry out an active research program. Preference for one of the positions may be given to a person whose research activities are in botanical systems. Nominations or curriculum vitae should include the names of three references and can be sent to: **Robert T. Schimke, Search Committee Chairperson, Department of Biological Sciences, Stanford University, Stanford, California 94305.**

Stanford University is an Equal Opportunity/Affirmative Action Employer.

CHAIRPERSON, DEPARTMENT OF HEALTH SCIENCES. Person with doctorate in health related discipline, established reputation as a scholar, and proven ability for administrative and professional leadership. Department's mission includes provision of human anatomy and physiology courses for allied health professional programs. Baccalaureate degree programs are offered by the department in applied physiology and cardiopulmonary technology. Graduate programs are offered in nutrition, applied anatomy, and applied physiology. Preferable starting date is 1 August 1977. Letter of interest, curriculum vitae, and three letters of reference should be submitted by 1 April 1977 to: **Robert B. Armstrong, Ph.D., Sargent College of Allied Health Professions, Boston University, One University Road, Boston, Massachusetts 02215.** *Affirmative Action/Equal Opportunity Employer.*

Applicants are invited for the position of **CHAIRMAN**, Department of Medicine, Michigan State University. The University Medical Center encompasses a statewide community-based consortium of clinical care with basic research activities at the new clinical center at the university campus in East Lansing. Candidates will be evaluated on the basis of their clinical experience, scholarly stature, proven teaching ability, and administrative competence. Salary competitive. Submit curriculum vitae before 1 March 1977 to **Dr. James Potchen, Chairman, Search and Selection Committee, Department of Radiology, B-220 Clinical Center, Michigan State University, East Lansing, Mich. 48824.**

An Equal Opportunity Employer

POSITIONS OPEN

BIOCHEMIST/MASS SPECTROSCOPIST: immediate opening in New Jersey application lab due to company expansion. Candidates should hold an advanced degree in the biochemical field with experience in instrument operation and data interpretation of high/low resolution GC/MS. Experience with NMR and/or ESR would also be helpful. Duties will include operation/demonstration of computerized, medium resolution GC/MS system and direct contact with owners and market. Limited travel is required. Please forward complete résumé with salary requirements to: **Dr. R. H. Obenaus, JEOL Analytical Instruments, Inc., 235 Birchwood Avenue, Cranford, N.J. 07016.**

The UCLA School of Medicine is seeking the most highly qualified person to become **CHAIRMAN** of its Department of Pediatrics on 1 July 1977. Candidates must have substantial background in academic pediatrics, with interest and experience in patient care, teaching, research, and administration. *UCLA is an Equal Opportunity/Affirmative Action Employer, and encourages minority and women candidates to apply.* Interested persons should submit letters summarizing their qualifications to: **Chairman, Pediatrics Search Committee, c/o Dean, UCLA School of Medicine, Los Angeles, California 90024.**

DEPARTMENT OF RADIOLOGY SCHOOL OF MEDICINE UNIVERSITY OF CALIFORNIA, SAN DIEGO

Is seeking a **CHIEF RADIATION BIOLOGIST** to develop and implement a coordinated program in radiation biology. Qualifications include a Ph.D. in radiation biology or its equivalent, together with documented prior experience in basic radiobiological research, a history of teaching radiation biology at the postgraduate level, and an established research program in a field of radiation biology of clinical relevance. It is envisioned that the basic radiobiological research program will be closely coordinated and contribute to clinical research programs aimed at improving cancer treatment. Substantial prior experience in radiobiological effects of x-rays is therefore required. Salary: open.

The University of California, San Diego is an Equal Opportunity/Affirmative Action Employer. Women and minorities are encouraged to apply.

Send curriculum vitae and bibliography along with first inquiry to:

**Elliott Lasser, M.D.
Chairman, Department of Radiology
School of Medicine
University of California, San Diego
225 West Dickinson Street
San Diego, California 92103**

CHIEF OF ANGIOGRAPHY

Applications are invited for the position of chief of angiography at the University of California, Irvine, Medical Center. The successful candidate will be appointed associate or full professor in the Department of Radiological Sciences. The department is presently undergoing expansion and the new chief will have responsibility for designing and selecting equipment for the angiographic laboratories and of instituting a fellowship program. A separate suite of developmental labs for medical imaging is presently under construction on campus in association with the new medical sciences building and unique opportunities exist for both basic and applied interdisciplinary research.

The duties of the position include responsibility for the angiographic service, film reporting, and teaching at graduate and undergraduate levels.

Candidates must have had specialized training in angiography and must be well versed in the latest catheterization techniques, in the use of sophisticated imaging modalities (including magnification) and in the use of "therapeutic" angiography, and should have an extensive bibliography which documents original contributions to the field of angiography and superior abilities as a researcher.

Applications from all qualified candidates are welcome; minorities and women are encouraged to apply. If you are interested in this position please write to the address below including a curriculum vitae, an autobiographical letter, and copies of publications.

Closing date: 1 April 1977.

**Eric N. C. Milne, M.B., Ch.B., F.F.R.
Professor and Chairman
Department of Radiological Sciences
University of California, Irvine
College of Medicine
Irvine, California 92717**

POSITIONS OPEN

THE UNIVERSITY OF MELBOURNE CHAIR OF INORGANIC CHEMISTRY

The chair of inorganic chemistry, which is one of the three chairs in the School of Chemistry, will be vacant on the resignation of Professor D. Stranks from 28 February 1977 to accept appointment as vice-chancellor of The University of Adelaide.

Salary: A\$29,687 per annum.

Further information, including details of application procedure, superannuation, travel and removal expenses, housing assistance, and conditions of appointment is available on request. A detailed document on facilities and research interests in the School of Chemistry is also available. All correspondence (marked "Confidential") should be addressed to the **Registrar, The University of Melbourne, Parkville, Victoria 3052, Australia.**

Applications close on 31 March 1977.

CHEMIST

Experienced doctorate level chemist required to develop and test methods for the chemical degradation of hazardous materials. Previous experience highly desirable. Qualified candidates should send résumé with names of three references and salary requirements to:

**M. L. Knill, Recruitment
Position #213
FREDERICK CANCER RESEARCH CENTER
Litton Bionetics, Inc.
P.O. Box B
Frederick, Md. 21701
*An Equal Opportunity Employer, M/F***

CLINICAL DATA MANAGEMENT

We are seeking a qualified individual to supervise building of large clinical data bases. Will have responsibility for development and implementation of data collection systems that include forms design, data editing/checking procedures, and data input procedures. M.S. in biological sciences, statistics, public health, or equivalent, and working knowledge of programming and statistics essential. Competitive compensation program. Full company benefits. Send résumé to: **Brad Herbeck, Corporate Placement, ABBOTT LABORATORIES, North Chicago, Ill. 60064.** *Abbott is an Affirmative Action Employer.*

DIRECTOR, SEA GRANT PROGRAM

Sea Grant Program Director: half-time appointment. Qualifications are a Ph.D. in a marine science discipline, demonstrated ability for administration of academic interdisciplinary programs, distinguished scientific reputation in some area of marine sciences. The director will be responsible for management and coordination of a multidisciplinary university-system Sea Grant Program. Apply by 1 March 1977. Send résumé, references, and supporting material to:

**Michael J. Pelczar, Jr.
Vice President for Graduate Studies and Research
University of Maryland
College Park, Maryland 20742**

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

ELECTRON MICROSCOPIST: immediate opening to perform various microscopy procedures in light microscopy, transmission electron microscopy, freeze-etching and scanning electron microscopy. Responsibilities will include the day-to-day maintenance of the instruments (Philips EM 200, Balzers freeze-etcher, Leitz research microscope, LKB ultramicrotome, and so forth) and their full utilization in order to insure a microscopy service to the staff research scientists. Appointee will be supervised by the director of the Microscopy Laboratory. Previous microscopy work with plants and microbes preferred. We offer excellent benefits, salary commensurate with experience and degree. Send curriculum vitae and three letters of reference to:

**Dr. Maurice Lalonde
Charles F. Kettering Research Laboratory
150 East South College
Yellow Springs, Ohio 45387**

An Equal Opportunity/Affirmative Action Employer

POSITIONS OPEN

ENDOCRINOLOGIST

One opening for experienced endocrinologist with interest in reproduction. Candidates with a minimum of 2 years past the Ph.D. to senior research workers will be considered. Experience in both in vivo and receptor studies is desirable. Candidates should be able to interact with chemical group in ongoing work as well as to develop own research program.

Salary and rank dependent upon experience. Send curriculum vitae together with names, addresses, and telephone numbers of three references to Dr. C. E. Cook, Chemistry and Life Sciences Division, Research Triangle Institute, P.O. Box 12194, Research Triangle Park, N.C. 27709.

An Equal Opportunity/Affirmative Action Employer

EXPERIMENTAL EMBRYOLOGIST

Applications are invited for the position of assistant professor in the Department of Biology for September 1977. Applicants with Ph.D. degrees should be qualified to teach undergraduate courses in animal embryology, comparative anatomy, and be involved in graduate teaching. Strong commitment to research and postdoctoral experience are required. Please submit résumé to:

Chairman, Department of Biology
Villanova University
Villanova, Pa. 19085

Villanova University is an Equal Opportunity/Affirmative Action Employer.

EXPERIMENTAL MYCOLOGY

Applications are invited for a faculty position at the assistant professor level in experimental mycology, beginning September 1977. Preference will be given to candidates with postdoctoral experience and those who have demonstrated ability to conduct independent research. The successful applicant will be expected to teach a course in mycology, to develop an advanced course in an area of specialization, and to supervise M.S. and Ph.D. students. Applications, including curriculum vitae and letters from three references, should be sent to: Dr. S. K. Shapiro, Department of Biological Sciences, University of Illinois, Box 4348, Chicago, Illinois 60680. Closing date is 7 March 1977. *The University of Illinois is an Affirmative Action/Equal Opportunity Employer.*

FOUR ANTICIPATED FACULTY POSITIONS IN NATURAL SCIENCES BIOPHYSICAL OR BIOORGANIC CHEMIST APPLIED PHYSICS GEOLOGY/EARTH SCIENCES ALGOLIST/ECOLOGICAL BOTANIST

Applications from persons who will have completed the doctorate by August 1977 are being sought for these positions. Detailed position descriptions can be obtained upon submission of curriculum vitae and copies of transcripts to: Stephan A. Norrell, Head, Division of Science and Mathematics, University of Alaska, Anchorage, 3221 Providence Drive, Anchorage, Alaska 99504. *An Equal Opportunity Employer.*

DEPARTMENT OF BIOLOGY UNIVERSITY OF ROCHESTER

Faculty position at the assistant or associate professor level starting September 1977 or January 1978 for a biologist specializing in molecular and/or biochemical aspects of development. Applicants should have a strong commitment to research and to undergraduate and graduate education. Interested persons may send a curriculum vitae and a statement of research and teaching interests, and have three letters of recommendation sent to: Dr. J. B. Olmsted, Chairman, Developmental Biology Search Committee, Department of Biology, University of Rochester, Rochester, New York 14627. *An Equal Opportunity/Affirmative Action Employer.*

FACULTY POSITIONS for M.D.'s with special qualifications in fields of transplant, immunology, oncology, trauma, shock and resuscitation, burns, surgical nutrition, gastrointestinal physiology, plastic surgery, vascular surgery, pediatric surgery, thoracic and cardiovascular surgery, and neurosurgery. Ph.D. positions for persons qualified in above listed areas of research. Immunologists qualified in research immunology, oncology, and immunogenetics. Inquiries (written only) and applications directed to S. E. Ziffren, M.D., Professor and Head, Department of Surgery, University of Iowa, College of Medicine, Iowa City, Iowa 52242. *We are an Equal Opportunity Institution.*

POSITIONS OPEN

DEAN OF RESEARCH. Oregon State University seeks applications and nominations for the position of dean of research. Oregon State University is a Land Grant and Sea Grant university; the dean of research is responsible for supervision of all grant and contract research activities and for general coordination of all research activities. The position requires a person with experience both in the conduct and administration of research. Ability to assist faculty to plan for and develop their research potential is essential. The capacity to facilitate interdepartmental and interdisciplinary research activities is important. Also important is contact with and understanding of the grant and contract process, particularly with federal agencies. Applications for the position should be sent to Dr. Helmuth Resch, Chairman, Dean of Research Search Committee, Department of Forest Products, Oregon State University, Corvallis, Oregon 97331, and received by 18 March 1977. *An Equal Opportunity/Affirmative Action Employer.*

DEAN, SCHOOL OF MEDICINE

The University of Texas Medical Branch is seeking candidates who are experienced educator-academics to continue leading the school's vigorous academic growth. Candidates should submit curriculum vitae and references to: William P. Deiss, Jr., M.D., Chairman, Department of Medicine, University of Texas Medical Branch, Galveston, Texas 77550. *The University of Texas is an Equal Opportunity, M/F, Employer.*

DIRECTOR, FLORIDA SOLAR ENERGY CENTER

Florida Board of Regents announces reopening of position of Director, Florida Solar Energy Center. Located at Cape Canaveral. The center is engaged in applied R & D and technical assistance in solar energy topics related to state needs. Staff of 40, excellent physical facilities, and substantial budget. Applicants must have significant professional, technical, and administrative experience. Expertise in solar energy or related fields is desirable. Apply: Florida Board of Regents, 107 West Gaines, Tallahassee, Florida 32304, Attn: Vice-Chancellor McTarnaghan, prior to 1 March 1977.

POSITIONS OPEN

DEPUTY DIRECTOR FOR ADMINISTRATION UNIVERSITY OF ARIZONA CANCER CENTER

The University of Arizona Cancer Center is seeking a deputy director for administration. Candidates should be experienced in health research administration, relevant aspects of basic and clinical science, as well as unique features of cancer programs. Applicants should have prior experience with proposal writing, possess writing and other communication skills, and be willing to travel to meet sponsors. Responsibilities will include close and responsive interaction with the Center's scientific director and executive committee, program planning, supervisory management of budget aspects, and coordination and evaluation of operational aspects of ongoing programs. Position open immediately. A Ph.D. or M.P.H. is preferred. Send résumé, curriculum vitae, and names of at least three references by 1 March 1977 to: Sydney E. Salmon, M.D., Director, Cancer Center, University of Arizona College of Medicine, Tucson, Arizona 85724. *An Affirmative Action/Equal Opportunity Employer.*

THE UNIVERSITY OF TORONTO DEPARTMENT OF BOTANY

Applications are invited for a **FACULTY POSITION** in the Department of Botany. Applicants should have an interest in experimental taxonomy. The appointment will be made in the tenure stream. The successful candidate will normally have a Ph.D. and a significant research record, together with teaching experience in taxonomy. The appointment will be at the assistant or associate professor level, at a starting salary of not less than \$15,000, dependent upon experience. An appointment may be made at a higher level in the case of exceptionally well-qualified applicants.

Further particulars can be obtained from Professor T. C. Hutchinson, Chairman, Department of Botany, University of Toronto, Toronto, Ontario, M5S 1A1, Canada, to whom applications and the names and addresses of three references should be sent before 15 April 1977.

Supervisory Research Chemist

GS-15 (Salary Range \$33,789-\$43,923 p.a.
Actual maximum rate currently limited to \$39,600)

CHEMISTRY DIVISION NAVAL RESEARCH LABORATORY, WASHINGTON, D.C.

The appointee will serve as Head, Chemical Diagnostics Branch and will have overall scientific and administrative responsibility for research programs in areas of chemical physics, physical chemistry and analytical chemistry such as ultraviolet, infrared and Raman spectroscopy; mass spectrometry; analytical instrumentation; laser technology and energy transfer; reaction mechanisms and kinetics; nuclear magnetic resonance spectroscopy; and materials identification and analysis. A Ph.D. in physical chemistry or chemical physics, or equivalent experience in conducting and directing chemical research, is required, and the appointee must show competence in the above research areas. Experience in managing scientific programs and personnel is essential. Experience must demonstrate expertise and a high degree of originality and productivity in an area related to Branch programs.

Interested candidates should submit personal qualifications statement, SF-171, or detailed resume including publications and references by 18 March 1977 to:

Commanding Officer
Naval Research Laboratory
Washington, D.C. 20375

Attn: Code 1811 (61-091-11)

This position is in the Federal Career Service with all Civil Service benefits.
Equal Opportunity Employer

POSITIONS OPEN

DIRECTOR, OFFICE OF LABORATORY ANIMAL RESOURCES University of Illinois at Urbana-Champaign

The Office of Laboratory Animal Resources (OLAR) is responsible for campus-wide Programs of Laboratory Animal Medicine and Laboratory Animal Care-taking and will supervise development of the new program of Laboratory Animal Resources.

Qualifications: credentials and experience necessary for effective leadership in an academic institution; managerial experience; knowledge and experience in laboratory animal science; familiarity with federal regulations; organization and communication skills.

Salary: negotiable; commensurate with experience and achievements.

Starting date: preferably about 1 July 1977.

Deadline for applications: 31 March 1977.

Applicants should submit résumé and names of three references to: **Dr. J. E. Corbin, Office of Vice-Chancellor for Research, University of Illinois, 338 Administration Building, Urbana, Ill. 61801. Telephone 217-333-3132.**

The University of Illinois is an Affirmative Action/Equal Opportunity Employer and encourages applications from minorities and women.

FACULTY POSITION IMMUNOBIOLOGY UNIT-TUMOR INSTITUTE UNIVERSITY OF ALABAMA IN BIRMINGHAM

An academic appointment is open immediately for an independent investigator (M.D. or Ph.D.), preferably working in immunogenetics or molecular biology. This is primarily a research position with a group working on cell differentiation as related to immunology and oncology. Salary, academic rank, departmental affiliation, and teaching responsibilities will depend upon appointee's expertise. Send curriculum vitae, selected reprints, and names of three references to **Dr. Max D. Cooper, University of Alabama in Birmingham, University Station, Birmingham, Alabama 35294. An Equal Opportunity/Affirmative Action Employer.**

FACULTY POSITION IN BIOMEDICAL ENGINEERING. The University of Southern California invites applications for a faculty position in biomedical engineering available 1 September 1977. Applicants must have a Ph.D. in engineering or physiology-biophysics with "hybrid training" including both mathematics-engineering and systems physiology. Duties include both teaching and research. Interest and experience in cardiovascular-microcirculation areas preferred. Rank and salary dependent on qualifications and experience. Send résumé and three letters of recommendation to **Fred S. Grodins, Chairman, Biomedical Engineering, University of Southern California, University Park, Los Angeles, California 90007. An Equal Opportunity/Affirmative Action Employer.**

FISH ECOLOGIST ACADEMY OF NATURAL SCIENCES

Ph.D. with competence in statistical design, population dynamics, census methods, and writing. Primary responsibilities include applied environmental studies and basic research. Must be able to work in multidisciplinary team. Rank is at the level of assistant curator. Job location is Benedict Estuarine Laboratory, near Chesapeake Bay. Available immediately. Send curriculum vitae, reprints, and three letters of recommendation to: **Dr. George D. Constantz, Division of Limnology and Ecology, Academy of Natural Sciences, 19th and the Parkway, Philadelphia, Pa. 19103. An Equal Opportunity/Affirmative Action Employer.**

GRADUATE STUDENT AND POSTDOCTORAL POSITIONS AVAILABLE

Applicants requested for positions available at Washington State University starting 1 July 1977. Positions are supported by an NIH training grant in immunology. Applicants must have a D.V.M., M.D., or Ph.D. degree. Two options are available: post-doctoral experience or pursuit of a Ph.D. degree. Positions are available for individuals to work on immunologic problems with individuals with backgrounds in veterinary pathology, immunology, virology, bacteriology, and biochemistry. Applicants send curriculum vitae to **T. B. Crawford, Department of Veterinary Microbiology and Pathology, Washington State University, Pullman, Washington 99164. Washington State University is an Affirmative Action/Equal Opportunity Employer.**

POSITIONS OPEN

CORNELL UNIVERSITY DEPARTMENT OF GEOLOGICAL SCIENCES

Applications are invited for two junior level **FACULTY POSITIONS**, one to begin in fall 1977, the other in fall 1977 or 1978. Specialties of interest are **exploration geophysics**, particularly **reflection seismology**, **petrology**, and **economic geology**. Teaching and research in growing department. Some experience beyond Ph.D. desirable. Send curriculum vitae and names of three references to **Jack Oliver, Chairman, Department of Geological Sciences, Cornell University, Ithaca, New York 14853. Cornell University is an Equal Opportunity Employer.**

Sacramento—The University of California, Davis, Department of Psychiatry, has openings for **GENERAL PSYCHIATRY FACULTY**. The department operates three community mental health clinics as setting for education and scientific programs for all mental health disciplines. *Equal Opportunity Employer. Women and minorities are encouraged to apply.* Write: **J. P. Tupin, Division of Mental Health, Sacramento Medical Center, 2315 Stockton Boulevard, Sacramento, Calif. 95817.** Positions available 1 July 1977. Applications accepted until 1 July 1977. Salary: \$26,300 to \$33,700.

GROSS ANATOMIST. The Section of Gross Anatomy, Department of Surgery, invites applications for an instructorship in gross anatomy. The appointment is for 2 years beginning no later than 1 September 1977. A Ph.D. and/or M.D. degree and experience in teaching gross anatomy to medical students and in original research are required. *Applications from women and minority group members are encouraged.* Send application, curriculum vitae, publications list, and three letters of recommendation to **Dr. Thomas R. Forbes, Section of Gross Anatomy, Department of Surgery, School of Medicine, Yale University, New Haven, Conn. 06510, by 15 March. Yale is an Equal Opportunity/Affirmative Action Employer.**

DEPARTMENT HEAD DEPARTMENT OF ZOOLOGY AND PHYSIOLOGY, UNIVERSITY OF WYOMING

Established scientist with demonstrated leadership and proven research record sought to be department head while maintaining an active research program. Applicants must have an earned Ph.D. and provide evidence of teaching credentials at both undergraduate and graduate levels. The department has 18 faculty members with broadly based research interests in cell and developmental biology, organismal physiology and ecology, and wildlife conservation. Rank and salary dependent upon qualifications and experience. Nominations and applications are invited for the position through 15 March 1977. To apply, send a curriculum vitae, list of publications, and at least three letters of recommendation to **Dr. Sara Jane Rhoads, Chairperson, Search Committee, Department of Zoology and Physiology, University Station Box 3166, Laramie, Wyoming 82071. Position available 1 September 1977.**

The University of Wyoming is an Affirmative Action/Equal Opportunity Employer, M/F.

Opening for September 1977: **INSTRUCTOR OR ASSISTANT PROFESSOR** level for teaching general zoology and embryology to undergraduates with supervision of senior-year research. Ph.D. necessary; teaching experience desirable and an interest in arts and science institution. Closing date for applications is 15 March 1977. Send curriculum vitae, transcripts, and references to: **Chairman's Office, Biology Department, Xavier University, Cincinnati, Ohio 45208. An Equal Opportunity Employer.**

MEDICAL DIRECTOR for national health foundation. M.D. preferred, but others with advanced degree may be considered. Applicant should have experience in clinical or laboratory research activities and must have demonstrated ability in science management. Knowledge of federal health and grants programs desirable. Opportunities available for intra- and extramural program development. Salary open and competitive with medical or graduate school stipends. Position available 1 July 1977. For further information send résumé, a list of at least four personal references, and a summary of your professional interests and plans to: **Medical Director's Search Committee, Cystic Fibrosis Foundation, 3379 Peachtree Road, NE, Atlanta, Georgia 30326. An Equal Opportunity Employer.**

POSITIONS OPEN

INSTRUCTOR, ASSISTANT PROFESSOR ASSOCIATE PROFESSOR or PROFESSOR UNIVERSITY OF MICHIGAN MEDICAL SCHOOL

Board-eligible or board-certified. Entering level commensurate with qualifications and experience. The physician will take part in the programs of patient care, teaching, and research carried on in the Department of Radiology. He or she will supervise activities of the resident staff and aid in teaching of residents and medical students. Send résumé to **Box 75, SCIENCE. Code #1500FC. A nondiscriminatory, Equal Opportunity Employer.**

MICROBIOLOGIST. Applications are invited for a faculty position in the Department of Microbiology. Applicants should have a conferred doctorate, and research experience, and should be capable of teaching in the areas of general microbiology and microbial genetics or molecular genetics. The successful candidate will be expected to direct a high-quality research program in areas such as microbial and/or molecular genetics, viral or phage genetics, plasmid or extrachromosomal genetics. Rank and salary open. Send a biographical sketch and a list of at least five references to **Professor S. Kaplan, Department of Microbiology, University of Illinois, Urbana, Ill. 61801, no later than 15 April 1977. The University of Illinois is an Affirmative Action/Equal Opportunity Employer and encourages applications from women and members of minority groups.**

MUSEUM DIRECTOR

Bishop Museum of Honolulu, Hawaii, is seeking candidates for the position of director. The museum has major collections and research programs in anthropology, entomology, zoology, botany, and history, and extensive programs in education and public service. Candidates should have a doctoral degree and a record of significant postdoctoral achievement in one of the above research areas, preferably with experience in the Pacific. Administrative aptitude is essential, as well as the capacity to provide leadership for the varied concerns of a leading museum, including its public service programs. Salary and other benefits will be commensurate with the considerable responsibilities of the position and will be further negotiated on the basis of experience. Interested and qualified applicants should send a curriculum vitae, bibliography, names of at least three references, and any supplemental information by 30 April 1977, to: **Search Committee, Bishop Museum Board of Trustees, P.O. Box 6422, Honolulu, Hawaii 96818. An Equal Opportunity Employer**

PEPTIDE CHEMIST

Our Bioproducts Department in Palo Alto, California has a career opportunity for a senior chemist who will be responsible for basic peptide synthesis methodology development as part of our research effort. Will also perform the synthesis of specific peptides.

The successful candidate will have a Ph.D. in chemistry, a strong background in solid phase and classical synthesis, and demonstrated ability in the field.

Telephone: 415-326-1970 or write

BECKMAN

Instruments, Inc.
1117 California Avenue
Palo Alto, California 94304

An Equal Opportunity Employer

PLANT DISEASE EPIDEMIOLOGIST/POPULATION BIOLOGIST/SYSTEM SCIENTIST. The Department of Botany and Plant Pathology, Michigan State University is seeking a Ph.D. with an interest in plant disease epidemiology and with training in population biology and systems science. The position is for research and teaching in plant disease epidemiology and is at the assistant professor level, with a joint appointment in systems science if appropriate. Salary is negotiable depending on experience and rank. Please send curriculum vitae, transcripts, and three letters of recommendation to: **Dr. Alan L. Jones, Chairman, Search Committee, Department of Botany and Plant Pathology, Michigan State University, East Lansing, Mich. 48824. An Equal Opportunity/Affirmative Action Employer**

Research Immunologist

We're a world-wide leader in the health care, pharmaceutical industry seeking a highly qualified individual to initiate a research program designed to identify drugs capable of modulating the immune response. Responsibilities will include the investigation of pharmacological means of regulating cellular hypersensitivity reactions with the ultimate goal of uncovering agents useful in the treatment of rheumatoid arthritis.

The qualified candidate will have a Ph.D. degree in Immunology or Pharmacology with several years experience in the field of cellular immunology. A supervisory background will also be helpful.

To the career oriented professional who joins us we offer an excellent salary, full company benefits, and solid potential for growth. Send your detailed resume, with salary history, in confidence, to:

ABBOTT Brad Herbeck
NORTH CHICAGO, ILL. 60064 Corporate
Placement

Abbott is an Affirmative Action Employer

**RU
leiden**

**VIGNET RUL
RIJKSUNIVERSITEIT LEIDEN**

The SCHOOL OF PHARMACY, UNIVERSITY OF LEIDEN, the Netherlands, announces a vacancy for a

FULL PROFESSOR IN PHARMACEUTICAL ANALYSIS AND ANALYTICAL CHEMISTRY

The position includes teaching to pharmacy and chemistry students and leading the research in pharmaceutical analysis and analytical chemistry. The successful candidate will have a broad research experience with special emphasis on drugs. The required specialisation in analytical chemistry will at least comprise two main areas. Good teaching capabilities are prerequisite. Within the department two associate professors (senior lecturers) are appointed, one in pharmaceutical analysis and analytical chemistry and one in toxicological analysis.

Further information may be obtained from the chairman of the search committee Prof. Dr. K. W. Gerritsma, Gorlaeus Laboratories, University of Leiden, Wassenaarseweg 76, Leiden, The Netherlands. Nominations may also be sent to this address. Salary indication: max Hfl 120.000,- per annum.

Applications are invited, within one month after appearance of this notice, to: Head Personnel Department, University of Leiden, Stationsweg 46, Leiden mentioning vacancy number 67.002

FACULTY POSITIONS THE PUBLIC HEALTH UNIT OF THE MEDICAL CENTER UNIVERSITY OF ALABAMA IN B'HAM

Expansion of the Public Health Unit permits filling of nine new faculty positions. Qualifications include commitment to excellence in: teaching medical students and students in graduate program in public health; research and/or community service; appropriate terminal degree. Salaries, fringe benefits highly competitive.

PROFESSOR OR ASSOCIATE PROFESSOR—M.D. or Ph.D., Head of new division of environmental health. Preference given to candidate with interests in occupational health.

ASSOCIATE OR ASSISTANT PROFESSOR—M.D., Board certified or eligible in Preventive Medicine to assist in preventive medicine residency.

ASSOCIATE OR ASSISTANT PROFESSOR—Ph.D. with expertise in survey methodology in health services.

ASSISTANT PROFESSOR/INSTRUCTOR—Ph.D. in economics of health and illness.

ASSISTANT PROFESSOR OR INSTRUCTOR—M.P.H.—To work state-wide health education program.

ASSISTANT PROFESSOR—Epidemiologist, any professional degree plus M.P.H. Interest in infectious and acute disease including accidents preferred.

ASSISTANT PROFESSOR OR INSTRUCTOR—M.D. or Ph.D., Industrial health position in division of environmental health.

ASSISTANT PROFESSOR—Ph.D., Health Services administration.

ASSISTANT PROFESSOR OR INSTRUCTOR—M.D., Interest in measurement of quality of clinical care.

Application Closing Date: May 1, 1977.

Send curriculum vitae to: Dr. William F. Bridgers, Chairman—Public Health Unit, University of Alabama in Birmingham, University Station, Birmingham, Alabama 35294—An Equal Opportunity / Affirmative Action Employer

POSITIONS OPEN

MEDICAL RESEARCHER—Position open in cholesterol metabolism laboratory studying ESS of diabetes on synthesis and excretion in humans and rats. Duties include overseeing three technicians and setting up analytical techniques as well as pursuing original laboratory-based research. Prefer postdoctoral level. Salary depends on qualifications. Send résumé to: **C. D. Saudek, M.D., Department of Medicine, Cornell University Medical College, 1300 York Avenue, New York 10021. An Equal Opportunity Employer, M/F**

MICROBIOLOGIST—MICROBIAL ECOLOGIST, assistant professor, Ph.D. with postdoctoral experience to develop a program in microbial ecology. Responsibilities to include the development of an active research program and participation in teaching at the undergraduate and graduate level. Experience in the molecular interaction of microbes and their environment, that is, chemotaxis, desirable but not required. Send curriculum vitae to **Chairman, Microbiology Search Committee, Department of Biology, Texas A & M University, College Station, Texas 77843. Equal Opportunity/Affirmative Action Employer.**

PHYCOLOGIST/ALGAL BIOLOGIST

The Department of Botany at the University of Rhode Island seeks applicants for a probable position as phycologist or algal biologist at the rank of assistant or associate professor, fall 1977. The area of specialization is flexible, but the appointee should be able to teach undergraduate and graduate level courses in phycology (marine and freshwater) and develop a strong research program that would complement the interests of the departmental faculty. A Ph.D. is required and postdoctoral experience preferred. Send statement of professional interests, curriculum vitae, reprints, and names of three referees before 31 March 1977 to **Marilyn M. Harlin, Chairman, Search Committee, Department of Botany, University of Rhode Island, Kingston, R.I. 02881.**

An Affirmative Action/Equal Opportunity Employer

PHYSICS LIBRARIAN. Supervise physics library. Minimum qualification: M.L.S. from ALA accredited library school. Preference given candidates with strong training in physics or physical science. Salary \$11,660 or higher, depending on experience. Application, résumé, and three letters of recommendation to **Gerhard Naeseth, Associate Director, University of Wisconsin Libraries, 728 State Street, Madison, Wisconsin 53706. Application deadline: 1 March 1977. An Equal Opportunity/Affirmative Action Employer.**

POSTDOCTORAL FELLOW—RESEARCH ASSOCIATE. Immediate opening for individual with experience in **amino acid sequence analysis**. Research involves structural analysis of influenza virus proteins. One year; possible extension. Salary dependent on experience. Send curriculum vitae and names of references to: **Dr. E. D. Kilbourne, Chairman, Department of Microbiology, MOUNT SINAI SCHOOL OF MEDICINE, 100 Street and Fifth Avenue, New York, N.Y. 10029. An Equal Opportunity Employer.**

UNIVERSITY OF MELBOURNE READERSHIP/SENIOR LECTURESHIP in the DEPARTMENT OF STATISTICS

Applications are invited for appointment as reader or senior lecturer in the Department of Statistics at the University of Melbourne.

The appointee will be expected to have a strong background in mathematical statistics and probability theory; experience in applications and consulting will be an advantage.

Duties will include undergraduate teaching, supervision of research students, and active involvement in research and/or consultancy.

The appointment may be made at either reader or senior lecturer grade, depending on the qualifications and experience of the appointee.

It is hoped to make an appointment from 1 October 1977 or as soon as possible thereafter. An earlier commencing date could be negotiated.

Salary ranges: senior lecturer: A\$18,795 to A\$22,010 per annum; reader: A\$24,971 per annum.

Further information, including details of application procedure and conditions of appointment, is available from the **Registrar, University of Melbourne, Parkville, Victoria, 3052, Australia**. Applications referring to position number 619007 should be addressed to the Registrar. The closing date for applications is 8 April 1977.

POSITIONS OPEN

THE AUSTRALIAN NATIONAL UNIVERSITY invites applications for two positions in the Research School of Biological Sciences. (i) **POSTDOCTORAL FELLOW** in the Department of Environmental Biology. Applications are invited from plant physiologists who would be interested in undertaking research into physiological and biochemical aspects of the regulation of photosynthetic metabolism in succulent plants. Appointment to commence not earlier than 1 October 1977. (ii) **RESEARCH FELLOW** in the Molecular Biology Unit whose head, Dr. H. Naora, is exploring the molecular mechanism of post-transcriptional control in animal cells. This includes the problem of the HnRNA-mRNA precursor-product relationship and translational control. Applicants should have experience in the field of RNA and ribosomal research; some postdoctoral experience in the field. Appointment as postdoctoral fellow for not less than 1 year and not more than 2; as research fellow for 3 years in first instance with possible extension to 5. Salary: RF and PDF \$13,850 to \$18,269 per annum; exchange rate A\$1:63NP; U.S.\$1.08. Reasonable travel expenses; assistance with housing. Superannuation benefits available. Further information from **Academic Registrar, Australian National University, P.O. Box 4, Canberra, ACT, 2600, Australia**, with whom applications close 31 March 1977.

POSTDOCTORAL POSITIONS. Two positions are presently open: (i) a **biochemist or molecular endocrinologist** to work on purification and characterization of parathyroid hormone receptors, and (ii) an **immunologist** to work on the development of immunological techniques as probes for the action of calcium homeostatic agents. These positions are for 2 to 3 years and salary starts at \$10,000 per year. Applicants should submit a curriculum vitae and have letters of reference sent to: **Dr. J. Zull, Department of Biology, Case Western Reserve University, Cleveland, Ohio 44106. Case Western Reserve University is an Equal Opportunity Employer.**

PULMONARY PHYSIOLOGY RESEARCH/TRAINING

Research and graduate position available in field of mammalian pulmonary physiology with adjunct professorship of appropriate rank in the University of California, Irvine. Collaborative research conducting physiologic studies in animals exposed to airborne materials of environmental/occupational interest. Requires Ph.D. in physiology or related field and 2 years of postdoctoral research, preferably with pulmonary measurements in laboratory animals. Preference given applicants experienced in inhalation toxicology and published independent work. Research site at Toxic Hazards Research Unit, Wright-Patterson Air Force Base, Dayton, Ohio; opportunity to participate in training of graduate students of University of California, Irvine, and other campuses. Closing date for application is 4 April 1977. *Applications from all qualified candidates are welcome; minorities and women are encouraged to apply.* Submit complete curriculum vitae and names of at least three references to: **Dr. J. D. MacIwen, University of California, Irvine, Toxic Hazards Research Unit, Overlook Branch, P.O. Box 3067, Dayton, Ohio 45431.**

SENIOR POSITION IN SOCIO MEDICAL SCIENCES

A search committee has been established to select a new professor of sociomedical sciences to head the Division of Sociomedical Sciences at the Columbia University School of Public Health. This is a major established position which is currently involved in major educational programs at the M.P.H., Dr.P.H., and Ph.D. levels, and in research and consultative services at local, state, national, and international levels. The successful applicant will be required to pass senior full tenured professorial review, and will need to show complementarity to existing faculty, known creativity and productivity, managerial competence, ability to attract resources and to work across disciplines, special concerns relating to minority group issues, and major and ongoing serious commitments to the health field. Send applications or suggested names to:

**Samuel Wolfe, M.D. Dr.P.H.
Search Committee Chairman
Professor of Public Health and
Head, Division of Health Administration
Columbia University School of Public Health
600 West 168th Street
New York, New York 10032
An Affirmative Action/Equal Opportunity Employer**

POSITIONS OPEN

POSTDOCTORAL POSITION available immediately to study lung intermediary metabolism. Please send curriculum vitae including names of references to **Dr. R. A. Rhoades, Department of Physiology, Indiana University School of Medicine, Indianapolis, Indiana 46202.**

POSTDOCTORAL POSITION: aquatic toxicologist to participate in 5-year study on coal conversion process wastewaters. Experience with algal and fish bioassays required. Research interest in mammalian effects of environmental pollutants desirable. Starting date approximately 1 March 1977. Send curriculum vitae, including names of references, and representative publications to

Box 63, SCIENCE

RESEARCH ASSOCIATE—openings are available for:

- 1) Research into binding of drugs to biological macromolecules.
- 2) Synthesis of prosthetic materials from biological macromolecules.
- 3) Physical characterization of proteins, particularly blood enzymes.
- 4) Characterization of surface-bound proteins.

Salary \$10,000 plus per annum depending upon experience. Send résumé and two references to: **Professor A. Walton, Department of Macromolecular Science, Case Western Reserve University, Cleveland, Ohio 44106.**

SOIL MICROBIOLOGY/MYCOCLOGY

Permanent faculty position beginning fall 1977 at assistant professor level. Ph.D. and postdoctoral research and/or teaching experience required. Responsibilities include teaching soil microbiology and mycology, and development of a strong research program in either of these areas. Send curriculum vitae and three letters of reference to **Dr. Glenn Todd, School of Biological Sciences, 402 Life Sciences West, Oklahoma State University, Stillwater, Oklahoma 74074.**

An Equal Opportunity/Affirmative Action Employer

VERTEBRATE ZOOLOGIST: assistant professor, beginning August 1977. Emphasis will be in mammalogy; however, there should be competence in complete vertebrate zoology area. Would be expected to teach vertebrate zoology, biology, and histology. Candidates must be excellent teachers and have outstanding academic records at the undergraduate and graduate levels. Can contact **Dr. Dean Rosebery at AAAS Meeting in Denver, 21 to 25 February, at Cosmopolitan Hotel.** To apply, send (i) copies of undergraduate and graduate transcripts, (ii) curriculum vitae, and (iii) list of three references. Send to: **Head, Division of Science, Northeast Missouri State University, Kirksville, Missouri 63501. An Equal Opportunity/Affirmative Action Employer.**

The Department of Physiological Optics of the School of Optometry, the University of Alabama in Birmingham is seeking a person with a Ph.D. in an area of **VISION SCIENCE**. Responsibilities will include: teaching courses within the physiological optics curriculum to both optometry students and graduate students, and conducting research.

Evidence of scholarly research activities in the form of published articles in refereed journals and papers presented at professional meetings will be heavily weighted, as will evidence of teaching ability. Postdoctoral research experience is desirable.

Rank and salary commensurate with experience. Résumés will be accepted until 15 March 1977. Send curriculum vitae and the names of three professional references to **Dr. Jerry L. Christensen, Department of Physiological Optics, School of Optometry/The Medical Center, University of Alabama, Birmingham, Birmingham, Alabama 35294. Equal Opportunity/Affirmative Action Employer.**

ZOOLOGIST

Visiting assistant professor appointment August 1977; renewable for second year; Ph.D.; major emphasis on ecology; to teach environmental biology. Closing 18 March 1977. Send curriculum vitae and three letters of reference to: **Dr. Charles M. Vaughn, Department of Zoology, 282 Upham Hall, Miami University, Oxford, Ohio 45056.**

An Equal Opportunity/Affirmative Action Employer

**PATHOLOGY CHAIRMAN
WAYNE STATE UNIVERSITY
SCHOOL OF MEDICINE**

The Wayne State University School of Medicine is soliciting candidates for the position of Chairman of its Department of Pathology. The educational responsibilities of the Department include participation in the basic undergraduate medical curriculum, the instruction of students from the College of Pharmacy and Allied Health, the education of graduate students in the basic medical sciences, and an anatomic pathology-clinical pathology residency program in cooperation with the five hospitals in the Detroit Medical Center and a Veteran's Administration Hospital. Extensive laboratory research facilities, which are adequate for a full-time staff of 24 investigators, are assigned to the Department in the recently constructed Gordon Scott Hall. There are numerous opportunities for interdisciplinary collaborative research with other basic science and clinical departments within the Medical School. It is intended that the research capabilities of the Department will be developed according to the priorities set by the incoming chairman in the major fields of experimental pathology.

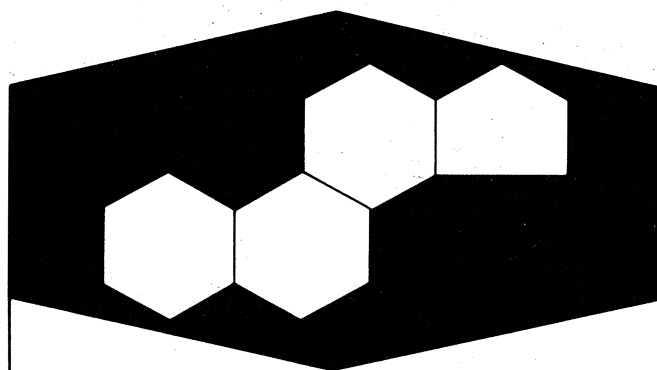
The chairman of the Department will have, as a major responsibility, the further development of the Department's teaching and research programs. Direct responsibility for the resident program may be delegated. It is assumed that the responsibility for the provision of service at the new Detroit General Hospital and the new Health Care Institute of the Medical Center will be delegated within the Department. However, the chairman will have the option of organizing his faculty to provide these services according to his own priorities. The chairman will have a close relationship with pathologists within the Detroit Medical Center and other community hospital institutions that will ensure opportunity for extensive clinical research, the provision of teaching materials, and participation in teaching programs, as appropriate.

Space is available within the Detroit Medical Center Hospitals and the Veterans Administration Hospital to house limited numbers of full-time faculty to coordinate the hospital and Medical School functions according to the priorities established by the chairman. The chairman must have a strong record of accomplishment in academic pathology and evidence of faculty activity in a university setting. It is desirable that the candidate have the M.D. degree.

Interested persons should forward a current curriculum vitae and the names of three references to:

Robert D. Coye, M.D., Dean
Wayne State University
School of Medicine
540 East Canfield
Detroit, Michigan 48201

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WORKSHOP

WORKSHOP ON INDUSTRIAL TOXICOLOGY

Thomas Jefferson University offers a 3-day Workshop on Industrial Toxicology, 25 to 27 April. Topics include: overview of toxicology for industrial health personnel; recent legislation and industrial toxicology; concepts, definitions, and responsibilities of industrial health programs; exposure to chemicals via inhalation and skin; acute, subacute, and chronic toxicity testing; interpretation and application of toxicity testing data; industrial health team; biological monitoring of personnel; literature resources; environmental impact and control of industrial residues; toxicological problems in chemical, petroleum, and agricultural industries; water pollution; interactions between NIOSH and industry; future perspectives; organ toxicity; metabolic fate of toxic chemicals; mutagenesis, carcinogenesis, teratogenesis. For brochure and information: **Dean R. C. Baldrige, College of Graduate Studies, Thomas Jefferson University, Philadelphia, Pa. 19107. Telephone: 215-829-8982.**

ASSISTANTSHIPS

GRADUATE RESEARCH ASSISTANTSHIPS for the 1977-78 academic year are available for qualified M.S. or Ph.D. students majoring in metallurgy or ceramic engineering in the Department of Materials Science and Engineering, Iowa State University. The excellent facilities of the Ames Laboratory-U.S. ERDA, the ISU Engineering Research Institute, and the Materials Science and Engineering Department are available for assistantship research. Stipends and scholarships worth \$5490 per year will be given to first-year research assistants for 12-month, half-time appointments. To obtain application forms and additional information, please write to: **D. E. Williams, Department of Materials Science and Engineering, Iowa State University, Ames, Iowa 50011.** *Application by female and minority group students is especially encouraged.*

INTERDISCIPLINARY GRADUATE ASSISTANTSHIPS, \$5000 for 12 months, plus free tuition. Interdisciplinary program in Center for Biochemical Research leading to Ph.D. in biology or chemistry. Teaching assistantships in the biological sciences and chemistry departments are also available. Contact either: **Dr. Roy A. Jensen, Department of Biological Sciences** or **Dr. Lawrence Verbit, Department of Chemistry, State University of New York, Binghamton, N.Y. 13901.** *State University of New York is an Affirmative Action/Equal Opportunity Employer.*

FELLOWSHIPS

FELLOWSHIP IN MEDICAL GENETICS

NIH postdoctoral fellowships for training in medical genetics available September 1977 for Ph.D. or M.D. applicants. Main focus of training and research program is biochemical genetics and cytogenetics, with special emphasis on prenatal diagnosis. Apply to **Dr. Aubrey Milunsky, Genetics Division, Eunice Kennedy Shriver Center, 200 Trapelo Road, Waltham, Massachusetts 02154.**

MOLECULAR ANATOMY PROGRAM DIVISION OF BIOLOGICAL AND MEDICAL RESEARCH ARGONNE NATIONAL LABORATORY

Postdoctoral fellowships: a number of postdoctoral fellowships are available in the multidisciplinary molecular anatomy program under Dr. Norman Anderson. The central objective is the development of methods for fractionating human cells and tissues down to the molecular level to detect and measure alterations produced by ionizing and nonionizing radiation, and by energy-related pollutants including chemical carcinogens. Work ranges from basic and theoretical to clinical studies, and encompasses cell separation, subcellular fractionation, automatic and automated bioanalytical systems including centrifugal fast analyzers and two-dimensional electrophoresis, affinity chromatography and immunosubtraction, isolation of embryonic and fetal antigens associated with cancer, and techniques for data reduction. Backgrounds in biochemistry, pathology, immunology, oncology, physics and engineering of high-speed rotational systems, separations technology, molecular biology, electronics, clinical chemistry, and optical and electronic techniques for data reduction are of interest. Send résumé to: **W. McFall, Department 100 E, Argonne National Laboratory, 9700 South Cass Avenue, Argonne, Ill. 60439.**

FELLOWSHIPS

PREDOCTORAL AND POSTDOCTORAL FELLOWSHIPS IN CRANIOFACIAL BIOLOGY. Predoctoral and postdoctoral fellowships are now currently available in the Graduate Program of Craniofacial Biology at the University of Southern California. Fellowships are available for highly qualified applicants in a training program consisting of either postdoctoral research or of graduate study leading to the Ph.D. in craniofacial biology. Although the program includes work in various aspects of cellular, molecular, and developmental biology, we are especially interested at this time in individuals whose interests may be in the etiology, detection, diagnosis, improvement of treatment or genetic counseling of congenital craniofacial malformations, and in studies of normal and abnormal mammalian craniofacial development. Applications must be received by April 1977 for the 1977-1978 academic year. For further information and applications write to: **Dr. Harold C. Slavkin, Program Director, Department of Biochemistry, School of Dentistry, Gerontology Center, University of Southern California, Los Angeles, California 90007.**

POSTDOCTORAL FELLOWSHIP IN IMMUNOBIOLOGY. Postdoctoral fellowships in cancer immunology, immunobiology, and clinical immunology are available at Sloan-Kettering Institute for Cancer Research. Fellows will be trained in: cellular immunology, development and interaction of lymphoid cells, molecular immunology, clinical immunology and cancer, human and mouse immunogenetics, tumor immunology, cell surface immunochemistry, and immunogenetics. Training methods include individualized research with qualified mentor, training in clinical laboratory analysis, lectures, courses, seminars, discussions, rounds, clinics, and conferences. Individual research program will be offered either in New York City or at Walker Laboratory, Rye, N.Y. Fellowships are offered to postdoctoral candidates who have received their Ph.D., M.D., or equivalent degree requirements; previous postdoctoral experience not to exceed 3 years except in unusual cases. Only U.S. citizens or foreign nationals with permanent resident or immigrant visas will be considered. Appointments are made for 1 year, but the training period will usually be 2 years. Send applications to **Dr. Yong Sung Choi, Immunobiology Training Program Director, Member and Professor, Sloan-Kettering Institute for Cancer Research, 145 Boston Post Road, Rye, N.Y. 10580.** *An Equal Opportunity/Affirmative Action Employer.*

FELLOWSHIPS IN HEALTH COMPUTER SCIENCES

Predoctoral and postdoctoral NIH fellowships for training in the application of computers to health services and other biomedical fields are available starting 1 July 1977. Candidates should have completed an undergraduate degree and have knowledge of and interest in health computer sciences. Experience in health sciences preferred but not required. Postdoctoral candidates in addition should have either an M.D. degree (training may be combined with a clinical residency) or a Ph.D. degree in the natural or physical sciences. Send inquiries and applications before 1 April 1977 to **Dr. Lynda Ellis, Box 511 Mayo Building, University of Minnesota Medical School, Minneapolis, Minn. 55455.**

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NRDC-WWF SENIOR FELLOWSHIP IN COASTAL ZONE MANAGEMENT AT THE MARINE BIOLOGICAL LABORATORY (MBL)

The Ecosystems Center of the MBL is pleased to announce the availability of a senior fellowship for a scientist interested in management of the coastal zone. The fellowship may be taken by a senior scientist on sabbatical who might choose to divide his time between basic research and the development of this program. The position is also open to younger scientists who have shown ability and interest in interpreting the details of science for application in human affairs. The successful applicant will be working directly with the scientific community of Woods Hole and with lawyers and scientists on the staff of the Natural Resources Defense Council toward the development of a comprehensive program of management within existing state and federal laws. Funds have been provided for this fellowship through the World Wildlife Fund-U.S. as a part of its program in conservation of marine resources.

Those interested should write to **Dr. G. M. Woodwell, The Ecosystems Center, Marine Biological Laboratory, Woods Hole, Massachusetts 02543.**

CONFERENCE

Mayo Clinic-Mayo Foundation, Rochester, Minnesota, announces a **Conference on the Chemistry and Biology of Thrombin**, 31 March to 1 April 1977. Topics include: thrombin production, isolation, properties; structure of thrombin and related serine proteases; mechanism of thrombin catalysis and specificity of thrombin; inhibition of thrombin with both natural and synthetic inhibitors; interaction of thrombin with natural protein substrates; and thrombin interactions on a cellular level. Registration fee is \$100. For further information, contact **K. G. Mann, M.D., Hematology Research, Mayo Clinic, Rochester, Minnesota 55901. Telephone: 507-282-2511, extension 8275.**

COURSES

MARINE SCIENCE DUKE UNIVERSITY MARINE LABORATORY

Summer Courses—undergraduate: 10 May to 11 June—introduction biological oceanography, invertebrate zoology, introduction marine geology. Graduate/advanced undergraduate: 13 June to 15 July—marine ecology, physiological ecology, chemical oceanography, marine phycology, introduction mathematical models in biology, comparative and evolutionary biochemistry, geological oceanography. 18 July to 19 August—invertebrate embryology, membrane physiology and osmoregulation, biological oceanography, marine invertebrate zoology, environmental oceanography, introduction marine geophysics. Write: **Director, Duke University Marine Laboratory, Beaufort, North Carolina 28516.**

PROGRAMS

GRADUATE TRAINING IN MEDICAL COMPUTING FOR PHYSICIANS

The University of Illinois at Urbana-Champaign College of Medicine and Department of Computer Science are accepting applications for a 2-year program in medical computing, leading to the degree of master of computer science.

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The Department of Computer Science offers a well-established graduate program with 35 full-time faculty. Research interests include advanced instrumentation, information engineering, image processing, and artificial intelligence. The College of Medicine's Medical Computing Laboratory supports research in interactive medical consultation and other aspects of medical informatics, especially those involved with man-machine interaction.

Inquiries should be directed to **Allan H. Levy, M.D., 567 Medical Sciences Building, University of Illinois, Urbana, Illinois 61801. Telephone: 217-333-2284.**

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