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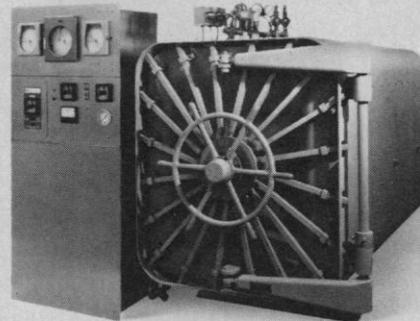
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A Photomicrograph of a Newt Triturus Viridescens taken with the new Olympus Series BH System Microscope and automatic camera, Model PM-10-A.

Olympus, the company that set the standards in microscopy, salutes the men and women who set the standards in laboratory research. It is our responsibility to back up their research with the finest instruments, in hopes of making their work easier and extending their vision into areas never before reached.

With the new Olympus Series BH System Microscope, we've done just that. It incorporates all of the most modern design concepts into one microscope. Others have included some of these advances, none have ever included them all. Until the Olympus Series BH System Microscope. Focusing is simpler. The Olympus Series BH System Microscope features planetary gear focusing with a 40mm coarse and fine focusing range and a pre-focusing lever to prevent contact between objective and specimen. We've conquered bulb centration and contact problems. The il-

luminator bulb is precentered, bulb and socket are made as one unit.

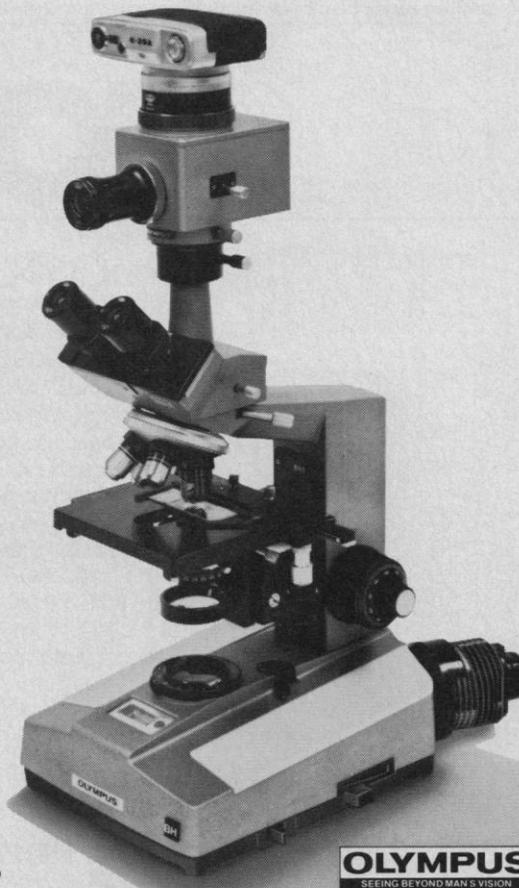
Electrical maintenance is no longer a problem. The transformer and all electrical components are mounted on the easily removable base plate. Specially coated prisms double light transmission and the light collecting system in the base allows Koehler type illumination from 4x to 100x objectives without changing condensers or adding condenser lenses. Depending upon your requirements, accessories for Brightfield, Darkfield, Photomicrography, Fluorescent Light, Polarized Light, Phase Contrast, and Differential Interference Contrast (Nomarski System) for transmitted and reflected light are available.

The unique modular design of the Olympus Series BH System Microscope enables the user to easily adapt the instrument to a virtually limitless variety of functions.

The Olympus Series BH System Microscope is not just a better microscope than you have seen before, it will stay better longer. It is made with space age components that make it virtually maintenance free, which makes the Olympus Series BH System Microscope more economical to buy. And to Keep.

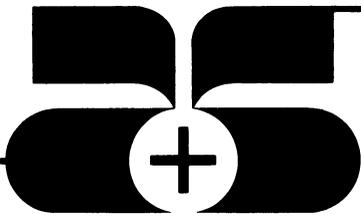
The Olympus Series BH System Microscope is a remarkable instrument. We'd like to give you a demonstration right in your own lab.

Write: Olympus Corporation of America, 2 Nevada Drive, New Hyde Park, N. Y. 11040
In Canada: W. Carson Co., Ltd., 321 Don Park Rd., Markham, Ontario, L3R, 1C2, Canada.



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SPECIFICATIONS

Specific activity: > 1700Ci/mmol of the
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Radioactive Concentration: 1—2mCi/ml at
reference date (higher concentrations on
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Molecular Weight: 387 (mono-iodo ester)

The product is supplied in a solution of dry
benzene containing .2% dimethyl formamide
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centration is 1—2mCi/ml, and the standard
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1mCi	\$135
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Catalog/Price List Upon Request

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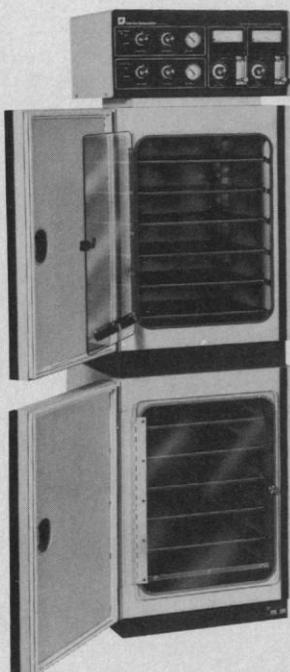
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Occupies only 4 sq. ft. of
floor space. Temperature
to +60° C, ± 0.2° C. CO₂
from 0—20%, ± 0.2%. 98%
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The freezer you've been waiting for. 6.7 cu. ft.
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for any lab budget. The alarm system is
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Circle No. 25 on Readers' Service Card

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): \$130 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.

COPY for ads must reach SCIENCE by Wednesday, 3-½ weeks before issue date (Friday of each week) requested. Send copy for all positions wanted ads and display ads under 5 inches to:

SCIENCE, Room 207
1515 Massachusetts Ave., NW
Washington, D.C. 20005

Send copy for display ads, 1/6 page and larger, to:

Scherago Associates, Inc.
11 West 42nd Street
New York, N.Y. 10036

BLIND AD replies should be addressed as follows:

Box (give number)
SCIENCE
1515 Massachusetts Ave., NW
Washington, D.C. 20005

POSITIONS WANTED

Anatomist, Ph.D. Gross and developmental anatomy and histology. Seven years of teaching experience. Research in ultrastructure of reproduction and development. Seeks academic position. Box 439, SCIENCE. X

Biochemist-Dentist, Ph.D., D.M.D., postdoctoral research experience. Competent in dentistry, biochemistry, microbiology, immunology. Seeks research and/or teaching position. Box 450, SCIENCE. X

Clinical Linguist. French doctorate. Specialist: new theory in aphasiology. Desires position teaching or research in collaboration with speech pathologists, neurologists. Box 451, SCIENCE. X

Dermatologist, M.D. Sweden and Denmark. Experience in photobiology and contact allergy; several publications; 1½ years as instructor in United States; seeks university or industrial position. Box 452, SCIENCE. X

Environmental Scientist, Ph.D., with experience in industrial research, teaching: air, water quality, energy technology, EIS, AP control, physical, materials, and analytical chemistry. Seeking research, supervisory, and/or teaching position in environmental quality or pollution control, public or occupational health. Box 432, SCIENCE. X

Microbiologist, master's degree plus. Proven problem-solver experienced in research (40 publications) in virology, tissue culture, clinical microbiology, immunology. Seeking position in industry, diagnostic laboratory, or research. Strong interest in product development, cancer therapy, environmental problems. Box 453, SCIENCE. X

Neuroscience-Psychology, M.D. (1964), D.Sc. (1970). European-born scientist. Interdisciplinary experience (teaching/research) in behavioral science; specialized in comparative ethology and experimental psychopathology; epistemology in chronobiology and psychology. Numerous publications; elected member in international "Learned Societies." Desires permanent faculty position. Box 454, SCIENCE. X

Protein Isolationist, M.S. Sixteen years of industrial experience. Broad background includes protein isolation, antibody production, RID, RIA, affinity chromatography, and electrophoresis. Box 455, SCIENCE. X

POSITIONS WANTED

Organic Biochemist, Ph.D. 1966. Enzyme kinetics and reaction mechanisms. Isolation, purification, and amino acid sequence determination of peptides and proteins. Organic syntheses and structural determination of various anticarcinogenic compounds and radioactive enzyme inhibitors. Isolation and purification of cellular components. Familiar with UV, IR, NMR, ORD, CD, MS, various chromatography (paper, TL, liquid, gas, ion exchange), electrophoreses, and immunochemical techniques. Box 446, SCIENCE. X

Reproductive Physiologist, Ph.D. 1972, academic and industrial experience. Desires teaching position (nonpostdoctoral) in physiology (reproductive or general) or endocrinology. Publications. Box 448, SCIENCE. X

Vision Researcher, Ph.D., interdisciplinary background, electrophysiology, psychophysics, eye movements, optics, diagnostic instrumentation. Extensive experience in research, teaching, and administration. Publications, grant proposals ready for submission. Seeks challenging research, teaching and/or administrative position in industry or academia. Box 456, SCIENCE. X

POSITIONS OPEN

ANALYTICAL CHEMIST

Ph.D. with 1 or 2 years of postdoctoral experience needed to study metabolism, fate and distribution of new antineoplastic drugs. Experience should include analytical chemical methods; gas chromatography-mass spectroscopy. Additional training or experience in biochemistry and pharmacology (for example, enzymology, drug metabolism) highly desirable.

Qualified candidates should send résumés to:

M. L. Knill—Recruitment
Department 720
FREDERICK CANCER RESEARCH CENTER
Litton Bionetics, Inc.
P.O. Box B
Frederick, Maryland 21701
An Equal Opportunity Employer, M/F

ASSISTANT PROFESSOR FRESHWATER ECOLOGY/LIMNOLOGY

The Department of Zoology of the Division of Biological Sciences at the University of Georgia is seeking applications for a freshwater ecologist or limnologist at the rank of assistant professor. The candidate will be expected to develop an active research program, direct graduate student research and teach in both the undergraduate and graduate programs in areas of the candidate's competence. Postgraduate experience although desirable is not a requirement.

Applications for this position should be sent by 15 December 1976, complete with curriculum vitae and at least three letters of reference to **Dr. Jerome J. Paulin, Room 400, Division of Biological Sciences, University of Georgia, Athens, Georgia 30602.** *An Equal Opportunity/Affirmative Action Employer.*

ASSISTANT PROFESSOR OF NEUROLOGY. Position available July 1977. Background in neurology and neurochemistry required, especially candidates with M.D./Ph.D. Involves research in cerebral protein metabolism in relation to seizure states and drug actions. Duties also include teaching and some clinical responsibilities. Qualified women and minority group persons are encouraged to apply. Send curriculum vitae and bibliography, and request that recommendations be sent to **Gilbert H. Glaser, M.D., Professor and Chairman, Department of Neurology, Yale University School of Medicine, 333 Cedar Street, New Haven, Connecticut 06510.** *An Equal Opportunity (M/F) Affirmative Action Employer.*

ASSISTANT PROFESSOR OF PSYCHOLOGY. Storrs, Connecticut. Salary: \$12,000 to \$13,440. Position available September 1977 to teach undergraduate and graduate courses in physiological and/or comparative and related areas of psychology, and to perform research and guide students therein. Ph.D. with training in research methodology appropriate to the area of specialization required. Postdoctoral training, experience, and appropriate publications are desirable. Send curriculum vitae, including names of references, to **W. A. Wilson, Jr., Department of Psychology, U-20, University of Connecticut, Storrs, Connecticut 06268.** *An Equal Opportunity Employer.*

POSITIONS OPEN

ASSISTANT RESEARCH NEUROLOGIST—The Department of Neurology at the UCLA School of Medicine has an opening for a junior scientist with completed doctorate, postgraduate training in neuroanatomy, neurophysiology, and knowledge of histochemistry for a project in the basic mechanisms of epilepsy. Applicants should submit curriculum vitae to: **Richard D. Walter, M.D., Chairman, Department of Neurology, Reed Neurological Research Center, University of California, Los Angeles, Los Angeles, Calif. 90024.** *UCLA is an Equal Opportunity/Affirmative Action Employer and encourages applications from women and minority groups.*

ASSOCIATE DIRECTOR—PEPTIDE DIVISION

Leading endocrine reference laboratory is seeking an associate director for its peptide division. Individual must have Ph.D. with experience in basic development of peptide hormone RIA's and iodinating and purifying peptide antigens for RIA. Position offers opportunity for R & D and participation in direction of rapidly growing company. Salary negotiable. Benefit package includes profit-sharing. Send résumé or contact **Endocrine Sciences, 18418 Oxnard Street, Tarzana, Calif. 91356.** Telephone: 213-345-6505.

BIOCHEMISTRY FACULTY POSITION

Indiana University School of Medicine, Department of Biochemistry, invites applications for a position at the assistant professor level. Applicants are expected to have postdoctoral training and publications demonstrating productivity and originality in research. Preference will be given to applicants with special interest in teaching and research in the biochemistry of eukaryotic gene expression (DNA, RNA, protein synthesis, chromosomal proteins). We expect to fill this position effective July 1977.

Please send curriculum vitae, bibliography, a short statement of future research goals, and the names of three references by 15 November 1976 to: **Dr. E. Jack Davis, Chairman, Search Committee, Department of Biochemistry, Indiana University School of Medicine, Indianapolis, Indiana 46202.** *An Equal Opportunity/Affirmative Action Employer.*

The Department of Chemistry at Purdue University seeks candidates for appointment to a **SENIOR POSITION IN BIOCHEMISTRY** to become effective 1 July 1977. Candidates should presently hold tenure rank (or equivalent) in Ph.D.-granting institutions. They should have broad experience in teaching at the undergraduate and graduate level and in directing research of graduate students and postdoctorals. They should enjoy major international reputation for their research accomplishments. Their research interests should lie in the broad field of application of chemical techniques to the study of structure function and evolution of biomolecular assemblies. Salary open. A complete résumé and the names of three references should be sent to **Professor Robert A. Benkeser, Head, Department of Chemistry, Purdue University, West Lafayette, Indiana 47907.** *Purdue University is an Equal Opportunity/Equal Access Institution.*

CELLULAR IMMUNOLOGIST

A position at the level of assistant professor is available in the Department of Microbiology for a cellular immunologist with experience in studies of immunoregulation by idiotypic-anti-idiotypic interactions. Research space will be provided but the successful applicant must generate his/her own salary and research funds from non-university sources.

Qualified applicants should send curriculum vitae, reprints of publications, and names of three references before 15 November 1976 to: **Professor Joel W. Goodman, Department of Microbiology, University of California, San Francisco, San Francisco, California 94143.** *An Affirmative Action/Equal Opportunity Employer.*

CHAIRPERSON for the Department of Health Measurement Sciences (epidemiology, biostatistics, population studies), in the School of Public Health and Tropical Medicine, Tulane University. Position requires physician-epidemiologist with an interest in but not restricted to chronic diseases, some administrative experience and appropriate background for development of ongoing interdisciplinary educational and research programs. Interested individuals should send résumés or contact **Dr. Thomas C. Orihel, Tulane Medical Center, 1430 Tulane Avenue, New Orleans, Louisiana, 70112.** Telephone: 504-588-5102. *Tulane University is an Equal Opportunity/Affirmative Action Employer.*

POSITIONS OPEN

IMMUNOLOGIST

Research position for Ph.D. and/or M.D. in a newly developing diabetes research program. Position involves full-time research in transplantation immunology and other basic immunologic problems regarding diabetes mellitus. The position available is for junior and senior scientists who will be accorded appropriate responsibilities for program development. Send application with curriculum vitae to **Daniel H. Mintz, M.D., Chief, Division of Endocrinology and Metabolism, University of Miami School of Medicine, P.O. Box 520875, Biscayne Annex, Miami, Florida 33152. An Equal Opportunity Employer.**

BIOCHEMISTRY TOXICOLOGY

Midwest Research Institute, a not-for-profit organization, offers excellent career opportunities in the rapidly expanding areas of biochemistry and toxicology.

BIOCHEMIST

Ph.D. with strong chemistry background and knowledge of intermediary metabolism. Work involves enzymology, application of biochemical principles to environmental monitoring and/or analytical methods development.

BIOCHEMIST

Ph.D. with experience in enzyme and protein chemistry. To work with antibodies and enzymes in both assay systems development and cell biology—medical applications.

SENIOR TOXICOLOGIST

Ph.D. with strong background and experience in toxicology to direct ongoing programs in drugs and chemicals. Requires demonstrated skills in laboratory operations, technical writing and project administration.

Salaries are competitive and will be based on experience and training. Please send in confidence, résumé with education, work experience, and salary requirements to:

Martin N. Schuler
Manager, Staff Development



MIDWEST RESEARCH INSTITUTE
425 Volker Boulevard
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POSITIONS OPEN

CHAIRPERSON Department of Biology

Due to the impending retirement of the present chairman, the Department of Biology, Baylor University, Waco, Texas, is seeking a chairperson for fall 1977.

Qualifications for this position include an earned doctorate and a strong record of research. Applicants should have a record of strong and innovative leadership.

Inquiries and applications with curriculum vitae should be sent to:

Dr. Floyd F. Davidson, Chairman
Department of Biology
Baylor University
Waco, Texas 76703

CHAIRMAN DEPARTMENT OF ANESTHESIOLOGY

Applications are invited for the position of chairman of the Department of Anesthesiology, The Pennsylvania State University College of Medicine in Hershey, Pennsylvania. The candidate must have expertise and demonstrated leadership in the field of anesthesiology and certification for assuming the clinical responsibilities of chief anesthesiologist in the University Hospital. It is also required that the candidate have demonstrated administrative competence and the ability to further develop a well-established department.

Correspondence with curriculum vitae should be submitted by 1 December 1976 to:

Dr. Fred Rapp
Associate Provost and Dean for Health Affairs
Chairman, Anesthesiology Search Committee
The Pennsylvania State University
Hershey, Pennsylvania 17033

The Pennsylvania State University is an Equal Opportunity/Affirmative Action Employer.

LAKE ONTARIO ENVIRONMENTAL LABORATORY (LOTEL) State University of New York College at Oswego

Seeks new **DIRECTOR** to develop a multidisciplinary environmental laboratory, to supervise research, manage budgets, and procure research grants and contracts. Candidates must have Ph.D. with strong background in natural sciences, with special interest in water resource problems and research methodology; minimum of 2 years of experience in administration; college teaching experience desirable; demonstrated scholarship and grantsmanship. Competitive salary, extensive fringe benefits. *Affirmative Action Employer.* Closing date: 5 November 1976. Send curriculum vitae and names of three references, or write for additional information, to:

LOTEL Director Search Committee
501 Calkin Hall
State University of New York College at Oswego
Oswego, New York 13126
Telephone: 315-341-4077

EPIDEMIOLOGIST Director, Epidemiology Division Diagnostic Laboratory New York State College of Veterinary Medicine Cornell University Ithaca, New York 14853

Duties and responsibilities: (i) to develop programs for animal disease surveillance and for epidemic investigations, (ii) to evaluate the validity and reliability of tests performed by the diagnostic center, (iii) to coordinate data analyses, and (iv) to work with the clinical staff at the College in the development of comparative disease models for epidemiology study.

Qualifications: D.V.M./M.P.H. or D.V.M./Dr.P.H. with training in epidemiology and biostatistics, experience in clinical practice and diagnostic methods.

Title and salary will be commensurate with ability and experience. The position will carry a joint appointment in one of the academic departments in the College of Veterinary Medicine to facilitate collaborative teaching and research. Immediate starting date.

Direct inquiries (curriculum vitae, personal bibliography, and at least three references) to:

Dr. R. H. Cypess
Scientific Director, Diagnostic Laboratory
New York State College of Veterinary Medicine
Cornell University
Ithaca, New York 14853

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POSITIONS OPEN

CHAIRMAN—BOTANY

The Department of Botany of the University of Washington is seeking a chairman for a 5-year term. This department, with 16 faculty members, carries on an extensive program of undergraduate and graduate instruction. Applicants should have active research programs in some area of plant science and demonstrated teaching ability. Inquiries and recommendations are welcome. Curriculum vitae must be received before 31 December 1976 by the chairman of the search committee:

David Stadler
Department of Genetics
University of Washington
Seattle, Wash. 98195

An Equal Opportunity/Affirmative Action Employer

DEVELOPMENTAL GENETICIST required at the Hubrecht Laboratory, International Embryological Institute, to undertake basic research on the involvement of the genome in development. The research should fit in as well as possible with the multidisciplinary research program of the Laboratory (on which printed information may be obtained from the address below). Research areas of particular interest are: insect embryogenesis with emphasis on pattern formation; early mammalian embryogenesis; teratoma as a model for determinative events in the embryo. Other research areas can be discussed, however. Applicants should preferably have a Ph.D. degree but graduates with considerable research experience will also be considered. The appointment will initially be for a period of 4 years, after which continuation may be considered. Appointment will be in one of the Netherlands Civil Service Scientific Officer scales, in the range of D.fl.30,600 to D.fl.54,600 per annum plus social security and other benefits. Preliminary applications must reach the **Director of the Hubrecht Laboratory, Uppsalalaan 8, Utrecht, The Netherlands**, within 3 weeks of the date of this advertisement.

DIRECTOR OF THE GRADUATE PROGRAM IN RADIATION BIOLOGY

The University of Iowa is seeking a director to provide leadership in research and education for the Graduate Program in Radiation Biology. The program meets the needs of students and faculty in all segments of the University by providing specialized radiation facilities and consultation relative to the proper use of radioactive materials and the sources of radiation.

Qualifications: The applicant must have a Ph.D. or equivalent and demonstrated experience to warrant consideration for assumption of the directorship.

Salary: The salary will be commensurate with experience and qualifications of the applicant. The University of Iowa has excellent fringe benefits.

Direct inquiries to:

Dr. J. P. Long
Chairperson, Search Committee
Department of Pharmacology
College of Medicine
The University of Iowa
Iowa City, Iowa 52242

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

KITT PEAK NATIONAL OBSERVATORY OBSERVATORY DIRECTOR

Responsible as principal scientific officer for operation of the Observatory. The director of Cerro Tololo Inter-American Observatory, Chile, also reports to this officer. These Observatories are operated and managed by the Association of Universities for Research in Astronomy, Inc. (AURA) under contract with the National Science Foundation. The Observatory director reports to the Board of Directors of the Association through the president.

Candidate should be a scientist of stature, with an earned Ph.D. degree in astronomy or a related scientific field and should have demonstrated ability in leadership and management.

Send application or recommendation of candidates to the **Chairman of the Search Committee, Association of Universities for Research in Astronomy, Inc., P.O. Box 49290, Tucson, Arizona 85717**. All applications should be accompanied by a résumé and be received by AURA no later than 15 January 1977.

AURA is an Equal Opportunity/Affirmative Action Employer.

POSITIONS OPEN

NUTRITION DIRECTOR

Position available for director of a new program in Nutrition and Dietetics. Ph.D. and/or M.D. with strong research interests in problems related to human nutrition required to develop and administer a new undergraduate program in nutrition and dietetics and to participate in teaching of nutrition to medical students. Candidate should be actively involved in research and committed to developing a graduate program in nutrition and food sciences. Appointment as associate or full professor in the Department of Biochemistry, a joint Department of the Faculty of Medicine and the Faculty of Science and Engineering. Apply to:

Dr. J. Himms-Hagen
Chairman, Search Committee
Department of Biochemistry
University of Ottawa
275 Nicholas Street
Ottawa, Ontario, Canada K1N 9A9

DIRECTOR AND PROFESSOR DIVISION OF BIOLOGY KANSAS STATE UNIVERSITY

The Division of Biology, in the College of Arts and Sciences, has 45 faculty members encompassing all areas of biology. Undergraduate and graduate degrees are offered in biology, microbiology, and fisheries and wildlife biology. The director will be responsible for administrative leadership and future development in research, instruction, and service. Essential qualifications include an outstanding record of accomplishment in research and excellence in teaching, in addition to evidence of administrative ability. Candidates should submit a current curriculum vitae including the names of three persons qualified to discuss in depth the applicant's qualifications, by 15 November 1976. Applications or nominations should be addressed to **Dr. Brian Spooner, Chairperson, Biology Directorship Search Committee, c/o Dean of Arts and Sciences, Eisenhower Hall, Kansas State University, Manhattan, Kansas 66506.**

Kansas State University is an Affirmative Action Employer and earnestly solicits applications and nominations on behalf of qualified female and minority candidates.

FACULTY POSITION DIVISION OF PHYSICAL OCEANOGRAPHY

The University of Miami's School of Marine and Atmospheric Science invites applications for a position at the assistant research professor level with responsibilities in large- and mesoscale ocean dynamics. We are seeking a person who has a strong interest in design and interpretation of field experiments. Experience in independent field work and a working knowledge of advanced methods of oceanographic data processing are essential. Applicants must be willing to spend prolonged periods overseas; for example, up to 8 months during the next year in Kenya/Somalia, East Africa. Please direct inquiries to **Dr. Walter Düing, Chairman, Search Committee, Division of Physical Oceanography, Rosenstiel School of Marine and Atmospheric Science, Miami, Florida 33149.**

An Equal Opportunity/Affirmative Action Employer

A FACULTY POSITION is available at the assistant or associate professor level in the Department of Medical Microbiology. Appointee is expected to participate in the teaching of graduate and medical students and to develop an active research program. Please send curriculum vitae and names of three references to: **Chairman, Department of Medical Microbiology, University of South Florida, College of Medicine, 12901 Number 30th Street, Tampa, Florida 33612. The University is an Affirmative Action/Equal Opportunity Institution.**

NEUROBIOLOGIST: Assistant professor level, starting September 1977. Teaching duties include undergraduate course in neurobiology to biology majors and allied health students and graduate course in candidate's specialty. Expected to develop independent research program and supervise graduate students. Send curriculum vitae, transcripts, reprints, brief statement of research plans, and names of three referees to **Dr. Peter Abramoff, Biology Department, Marquette University, Milwaukee, Wis. 53233.**

An Equal Opportunity/Affirmative Action Employer.

POSITIONS OPEN

UNIVERSITY OF OKLAHOMA COLLEGE OF MEDICINE

Applications are solicited for faculty positions in the following areas:

Professor and Head, Physiology and Biophysics. Responsible for the conduct of teaching programs of the department for medical, dental, health, and graduate students. Supervise development and conduct of research programs. Participate in administrative and academic programs.

Assistant Professor, Physiology and Biophysics. Training in neurophysiology of central nervous system. Share teaching of neurophysiology and related areas to medical, dental, graduate, and allied health students. Postdoctoral experience preferably relating to respiratory or cardiovascular system.

Director of Clinical Laboratories, Department of Pathology. Direct administrative, professional and technical activities in hematology/urinalysis, blood bank, chemistry, microbiology, and serology.

Director, Clinical Chemistry, Clinical Laboratories, Department of Pathology. Formulate and set up procedures for all tests done in the laboratory. Participate in educational and research programs.

Three Assistant Professors of Anatomical Sciences. Teach students in colleges of medicine, dentistry, allied health, and graduate studies. Ph.D. or M.D. with training in anatomy is required. Research interests in ultrastructure, cellular biology or comparative gross anatomy is desired.

Applicants should send curriculum vitae to: **Dr. Thomas N. Lynn, Dean, College of Medicine, P.O. Box 26901, Oklahoma City, Oklahoma 73190.**

MEDICAL ENTOMOLOGIST

A permanent faculty position will be open in August 1977 for a medical entomologist in the Department of Entomology. Preference will be given to senior persons with extensive field and laboratory experiences in the area of mosquito-borne viral diseases. Salary will be commensurate with experience; rank open. Primary teaching responsibilities will be in courses for graduate students, medical students, and veterinary students. Send résumé prior to 15 December to: **Dr. Peter Price, Department of Entomology, 320 Morrill Hall, University of Illinois, Urbana, Illinois 61801. The University of Illinois is an Affirmative Action/Equal Opportunity Employer and encourages applications from members of minority groups and women.**

MEDICAL TECHNOLOGIST—Our new 400-bed University teaching hospital has an immediate opening for a medical technologist who has had experience in tissue culture and various other laboratory techniques. The opportunity exists for joint and independent research. Send résumé to **University of Massachusetts Medical Center, Employment Office, 55 Lake Avenue North, Worcester, Mass. 01605. An Equal Opportunity/Affirmative Action Employer.**

MEDICINAL CHEMIST Associate/Full Professor

The College of Pharmacy at The University of Michigan is seeking a medicinal chemist with a Ph.D. in medicinal chemistry or related discipline. Demonstrated research and teaching abilities are essential. Rank and salary commensurate with qualifications.

Please send curriculum vitae and the names of three references to:

**Ara G. Paul, Dean
College of Pharmacy
The University of Michigan
Ann Arbor, Michigan 48109**

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OCEANOGRAPHY

Applications are invited for a 1 year faculty position, including teaching (possibly renewable for another year), in the Department of Oceanography, University of Washington. Applications from individuals in any field of geological oceanography are welcome, but applications from candidates in petrology are of particular interest. The position is available immediately. Send complete résumé and four letters of reference to **Dr. Ronald T. Merrill, Chairman, Faculty Recruitment Committee, Department of Oceanography, University of Washington, Seattle, Washington 98195.** Deadline for receipt of applications is 31 October 1976. *The University is an Equal Opportunity/Affirmative Action Employer.*

POSITIONS OPEN

MARINE BIOCHEMIST—To participate in ongoing research program in marine trophic dynamics at the **University of Texas, Marine Science Institute, Port Aransas Marine Laboratory, Port Aransas, Texas 78373.** Contact **Oswald A. Roels, Director. An Equal Opportunity/Affirmative Action Employer.**

NUCLEIC ACID ENZYMOLOGIST

Ph.D. required; postdoctoral experience preferred; to join active research and development department engaged in restriction endonuclease field. Contact:

**Tom Okerson
605 South Stonestreet Avenue
Rockville, Maryland 20850
Telephone: 301-340-0448**

PHYSIOLOGIST

The University of California, Irvine, College of Medicine, Department of Physiology, is recruiting for an assistant or associate professor.

Candidates should have demonstrated excellence in research in biophysical aspects of physiology. Preferred areas of research will be complementary to the activities of the existing faculty, such as: excitation-contraction coupling, synaptic transmission, or membrane excitability. The successful candidate will have shown excellence and originality such that he/she can be expected to be a leader in the field of research. Duties include teaching cardiovascular physiology to medical students and conducting courses in biophysics and physiology for graduate students. Candidates should hold the doctorate and have postdoctoral research training.

Applications from qualified candidates are welcome; minorities and women are encouraged to apply. Send names of four references and curriculum vitae to: **Dr. Peter F. Hall, Professor and Chairman, Department of Physiology, University of California, Irvine, California 92717, by 8 November 1976.**

DRAFT ADMINISTRATIVE ACADEMIC POSITION

The University of Florida, College of Medicine, invites applications from individuals for the position of **Chairperson, Department of Anatomy.**

Candidates should be dedicated to excellence in teaching of professional (e.g., medical, dental, veterinary, etc.) students; have had successful experiences in a Medical School or Health Center; possess the ability to develop and implement an outstanding graduate education program; and, have a superior record of scholarship as demonstrated by research publications and professional recognition. Candidates should possess either the MD or PhD degree and training in any area of Anatomical Sciences. Rank and salary commensurate with training and experience.

Letters of application or nomination should include a curriculum vitae, research and teaching goals, and the names of persons who will provide letters of reference and should be received by November 15, 1976. Correspondence should be addressed to:

**Dr. Peter A. Cerutti, Chairman
Department of Biochemistry and
Molecular Biology
Box J245, J. Hillis Miller
Health Center
University of Florida
Gainesville, Florida 32610**

(The University of Florida is an Affirmative Action/Equal Opportunity Employer.)

POSITIONS OPEN

PLANT PHYSIOLOGIST-BIOCHEMIST—Position open at the assistant professor level in the Agricultural Experiment Station, University of California, Berkeley, for research on regulatory mechanisms of photosynthetic carbon assimilation. Qualifications include Ph.D., strong background in analytical and biochemical techniques, and research experience in photosynthesis. Send résumé and arrange for three letters of reference to reach **Chairman, Department of Cell Physiology, University of California, Berkeley, California 94720. The University of California is an Equal Opportunity/Affirmative Action Employer; minority and women candidates are urged to apply.**

POSTDOCTORAL FELLOW

Biomedical research center has position available for recent Ph.D. in microbiology to conduct research on methods to discover antitumor substances produced by microorganisms.

Qualified candidates should send résumés to:

**M. L. Knill—Recruitment
Department 710
FREDERICK CANCER RESEARCH CENTER
Litton Bionetics, Inc.
P.O. Box B
Frederick, Maryland 21701
An Equal Opportunity Employer, M/F**

POSITIONS OPEN

POSTDOCTORAL POSITION. Immediate opening for recent Ph.D. biochemist with experience in protein chemistry to participate in research program on the structure of human complement proteins. Investigations will focus on the correlation of structure to function of selected complement components. Salary \$10,000 plus fringe benefits. Reply, with curriculum vitae and names of three references, to **Dr. J. W. Prahl, Department of Pathology, University of Utah, Salt Lake City, Utah 84132. An Equal Opportunity/Affirmative Action Employer.**

POSTDOCTORAL RESEARCH POSITION

Postdoctoral research position (1 year minimum) to investigate biochemical and biophysical aspects of photosynthesis by microalgae. Experience with biochemical and microbiological techniques applicable to photosynthesis research desired.

Oregon State University subscribes to a policy of active recruitment of women and ethnic minority persons and invites all interested and qualified persons to apply with résumé and references to:

**Professor Norman I. Bishop
Department of Botany and Plant Pathology
Oregon State University
Corvallis, Oregon 97331**

POSITIONS OPEN

POSTDOCTORAL POSITION. To study neurochemistry of cyclic nucleotides. Ph.D. in biochemistry/pharmacology required. Available on or about 1 December 1976. Beginning salary range \$10,000 to \$12,000. Send résumé and references to: **Dr. L. Volcer, Boston University School of Medicine, Department of Pharmacology, 80 East Concord Street, Boston, Massachusetts 02118.**

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POSTDOCTORAL POSITION immediately available for recent Ph.D. with strong background in immunobiology to work on various aspects of tolerance and the genetic control of the immune response. Starting salary \$12,000 plus fringe benefits. Send résumé and the names, addresses, and telephone numbers of three references to: **Dr. J. M. Phillips-Quagliata, Department of Pathology, New York University Medical Center, 550 First Avenue, New York, N.Y. 10016.**

An Affirmative Action/Equal Opportunity Employer.

POSTDOCTORAL POSITION IN NEUROCHEMISTRY

Immediate opening for doing biochemical research related to lipid metabolism and brain membranes. Send résumé and letters of reference to **Dr. G. Y. Sun, Sinclair Comparative Medicine Research Farm, University of Missouri, Columbia, Missouri 65201. An Equal Opportunity/Affirmative Action Employer.**

POSTDOCTORAL RESEARCH POSITION available immediately. X-ray and neutron diffraction studies of erythrocyte membrane structure. Diffraction experience with biological systems desirable, preferably lipid of membrane. Send résumé and three letters of recommendation to **Dr. S. Krimm, Biophysics Research Division, University of Michigan, Ann Arbor, Mich. 48109. The University of Michigan is a Nondiscriminatory, Affirmative Action Employer.**

POSTDOCTORAL RESEARCH ASSOCIATE—BIOCHEMISTRY. Full-time research position available immediately for study of mitochondrial function in tumor cells. Background in bioenergetics and enzymology, including protein purification and characterization required. Please send curriculum vitae and names and addresses of two references to **Dr. Leonard A. Sauer, Medical Research, The Mary Imogene Bassett Hospital, Cooperstown, New York 13326.**

RESEARCH ASSISTANT PROFESSOR—Applications are being accepted from qualified candidates. The position requires a Ph.D. in pharmacology or related field with several years of research experience in the field of platelet research, with emphasis on energy metabolism. Interested candidates should submit their curriculum vitae and three supporting letters to **John J. O'Neill, Ph.D., Professor and Chairman, Department of Pharmacology, Temple University School of Medicine, 3420 North Broad Street, Philadelphia, Pa. 19140. An Equal Opportunity/Affirmative Action Employer.**

SUPERVISORY CONSERVATION-SCIENTIST who can provide supervision and leadership for conservation-scientists specializing in analysis by x-ray diffraction, x-ray fluorescence, ultraviolet emission spectroscopy, radiography, infrared spectrophotometry, and microscopy.

To carry out research into the behavior and suitability of modern materials (resins, textiles, paints, paper, reagents, and so forth) for either short-term treatment of or for long-term contact with museum objects or for the control of their environment.

This position requires an advanced chemistry degree, and a background experience in analysis of all types of materials found in museum artifacts. A general knowledge of the theories, principles, and methods of conservation will be advantageous. Salary within the scale for GS-12: \$19,386 to \$25,200. Application forms and details may be obtained from **Robert M. Organ, Chief, Conservation Analytical Laboratory, Smithsonian Institution, Washington, D.C. 20560. Equal Opportunity Employer.** Closing date for applications: 15 November 1976.

VICTORIA UNIVERSITY OF WELLINGTON NEW ZEALAND LECTURESHIP IN PHYSIOLOGY

The Council of Victoria University of Wellington invites applications from men and women for a lectureship in physiology. The appointment within the Department of Zoology is in one of the areas of respiratory, cardiovascular, or renal physiology or a combination of them. The appointee will be responsible to the professor of physiology and will be required to assist in teaching, lectures, and laboratory courses in mammalian physiology. The person appointed will also be expected to assist with advanced courses and the supervision of graduate students in his special field of interest. The successful applicant will be expected to devote some time to research.

The appointment will be made either with normal tenure or with limited tenure (minimum 3 years). Applicants should state whether they would be prepared to accept a limited term appointment. The appointee will be expected to take up the position as soon as can be arranged.

Inquiries on the nature of the position should be directed to **Professor R. L. W. Averill, Chairman of the Department of Zoology.**

The salary range for lecturers is NZ\$8,309 to NZ\$10,360 per year. A cost of living allowance of NZ\$365 per year is paid in addition to salary.

The appointment will commence no earlier than 1 February 1977. Air fares to and from New Zealand will be paid for limited tenure appointments and to New Zealand for normal tenure appointments.

Conditions of appointment may be obtained direct from the **Appointments Officer, Personnel Office, Victoria University of Wellington, Private Bag, Wellington, New Zealand,** with whom applications close on 29 October 1976.

PHARMACOLOGISTS

We are seeking innovative, technically competent professionals possessing versatility and interest in drug discovery and development for the following career opportunities:

BIOCHEMICAL PHARMACOLOGIST

Ph.D. with a strong background in organic chemistry and structural activity relationships and 1 to 3 years postdoctoral experience. This individual will contribute "conceptually" to synthetic efforts of chemists, act as liaison between pharmacologists and chemists, and join existing research efforts in the renin-angiotensin area.

PHARMACOLOGIST/PHYSIOLOGIST

Ph.D. possessing broad training and 1 to 3 years postdoctoral experience with emphasis in the renal area. This individual will join our established programs in antihypertensive drug research.

Our laboratories are located in a small, yet complete community in central New York State. We offer competitive salaries plus liberal benefits.

Send résumé, in confidence, to Jane Belansky, Personnel Representative



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RENAL PHARMACOLOGIST Initial Assignment in England

Incumbent should hold Ph.D., with post-doctoral/industrial renal experience essential. First two years will be spent at our parent pharmaceutical research center at Alderly Park, near Manchester, on U.S. payroll with family relocation covered and appropriate aid and allowances for overseas service.

Permanent position on return will be at our Wilmington research center, currently under \$25 million expansion to double capacity.

We are a major subsidiary of ICI Ltd. (London), a world leader in pharmaceutical research. Compensation and benefits compare favorably in American drug industry.

Serious candidates should submit complete C.V., including salary history and expectation, in complete confidence to:

Charles T. Brodigan
Employee Relations



ICI United States Inc.
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NUCLEAR SCIENTIST/ENGINEER

Environmental Impact Analysis

The Environmental Impact Studies Division of Argonne National Laboratory has a position of high professional challenge and interest for an individual with an MS or BS in Nuclear Science or Engineering and five years experience in the engineering and health aspects of nuclear power plants and fuel cycle facilities.

Primary responsibility will be to assist in the preparation of environmental impact statements. Working directly with a senior staff member, selected candidate will estimate doses to biota and to man from radiological releases and transportation of radioactive materials. Will also estimate and document hazards, and correlate dose distributions around nuclear facilities with local land use, and with meteorological, hydrological, demographic and agricultural patterns.

Commensurate salary plus outstanding benefits program. Send resume, including salary history, in confidence to: Mr. W. McFall, Argonne National Laboratory, 9700 So. Cass Ave., Argonne, IL 60439.



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POSTDOCTORAL RESEARCH

The National Research Council is now accepting applications for the Research Associateship Programs for 1977. The programs provide scientists and engineers opportunities for postdoctoral research on problems in the fields of CHEMISTRY — SPACE SCIENCES — PHYSICS — ATMOSPHERIC & EARTH SCIENCES — ENGINEERING — LIFE SCIENCES — MATHEMATICS and ENVIRONMENTAL SCIENCES.

Complete details including information on specific research opportunities and application materials may be obtained by writing:

Associateship Office JH606S
NATIONAL RESEARCH COUNCIL
2101 Constitution Avenue, N.W.
Washington, D.C. 20418

SENIOR RESEARCH PHARMACOLOGIST

Mallinckrodt, Inc., a rapidly expanding, growth-oriented pharmaceutical and chemical manufacturing firm, has an opening for a senior research pharmacologist reporting directly to the Assistant Director of Research, Pharmacology, Pharmaceutical Research and Development Division.

The preferred individual will have a Ph.D. in pharmacology, toxicology, or related biological field. In addition this individual will have 3 to 5 years postdoctoral experience with diversified pharmacological interests. Radiopharmaceutical, X-ray contrast media and/or general therapeutic background in an industrial environment would be desirable.

Responsibilities will include designing, conducting, and reporting on all research and development programs as assigned. Also you will be involved with the daily operation of the laboratory and with experimental procedures.

This position offers excellent starting salary, comprehensive benefits, and an opportunity to achieve personal and professional growth based on performance. This position will be located in new laboratory facilities in suburban North St. Louis County.

Qualified candidates should submit their résumés inclusive of salary history and requirements, in confidence to:

J. N. Hogenmiller, Corporate Employment Department.

Mallinckrodt

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POSITIONS OPEN

POSTDOCTORAL RESEARCH ASSOCIATE IN PLANT PHYSIOLOGY-BIOCHEMISTRY

The Department of Botany and Plant Pathology announces a position for a postdoctoral research associate, available on or before 15 October 1976, on a project concerning the biochemistry and physiology of gibberellins. More specifically, the appointee will conduct investigations on the biosynthesis of gibberellins and gibberellin precursors, and the regulation thereof, in organelles, particularly chloroplasts. The appointment will be on a 12-month basis at an annual salary rate of \$12,000, and will be for a minimum duration of 1 year. Reappointment for a second year will be contingent upon performance and continued availability of funds. A Ph.D. degree in plant physiology or biochemistry is required and preference will be given to applicants who have experience in techniques or organelle isolation and enzyme assays directly relevant to the project.

Oregon State University subscribes to a policy of active recruitment of women and ethnic minority persons and invites all interested and qualified persons to apply. Applications and inquiries should be addressed to:

Dr. Thomas C. Moore
Department of Botany and Plant Pathology
Oregon State University
Corvallis, Oregon 97331

Applications should include a curriculum vitae, reprints of research papers, two letters of recommendation, and any other information considered pertinent by the applicant.

THE OHIO STATE UNIVERSITY DEPARTMENT OF RADIOLOGY DIVISION OF RADIATION BIOLOGY POSTDOCTORATE RESEARCH POSITIONS (Biochemist, Molecular or Cell Biology)

Applications are invited for an immediate postdoctorate assignment involving work on the molecular and cellular aspects of environmental mutagenesis and carcinogenesis. Further applications are invited for three other postdoctorate assignments in the same area to begin 1 November and 1 January. Applicants should preferably have a strong background in nucleic acid research, cell culture, and enzymology. All appointments are for a minimum of a 2-year period, but may be prolonged for up to 3 years. Salary range is negotiable. *Equal Opportunity/Affirmative Action Employer.* Applications should be sent as soon as possible to:

Ronald W. Hart, Ph.D., Director
Radiologic and Molecular Research
The Ohio State University
410 West 10 Avenue
Columbus, Ohio 43210

PROFESSOR AND CHAIRPERSON DEPARTMENT OF MEDICAL MICROBIOLOGY

The College of Medicine, Ohio State University, is seeking a chairperson for the Department of Medical Microbiology. The person to be appointed may hold a Ph.D., M.D., or D.V.M. degree or a combination. Other qualifications include (i) a strong research background in any field of medical microbiology, (ii) a knowledge of and commitment to medical and graduate education, and (iii) some experience in administration. Nominations or applications should be accompanied by a curriculum vitae and should be sent to:

Dr. Harold V. Ellingson, Chairperson
Medical Microbiology Search Committee
The Ohio State University
410 West 10 Avenue
Columbus, Ohio 43210

The Ohio State University is an Equal Opportunity/Affirmative Action Employer. Nominations of and applications from women and members of minority groups are encouraged.

RESEARCH ASSISTANT II—NUTRITIONAL SCIENCES. Salary: \$11,380. Take charge of Lipid Research Lab, carry out separations and analyses of lipoproteins and adipocytes, and analyze tissues for lipase activity. Ph.D. in lipid chemistry or biochemistry or related experience required. Experience in a lipid research lab desired. Apply by 15 October 1976 to Robert Jensen, U-17, University of Connecticut, Storrs, Connecticut 06268. *An Equal Opportunity Employer.*

POSITIONS OPEN

RESEARCH ASSOCIATES IN ATMOSPHERIC SCIENCE (AERONOMY)

The University of Michigan is seeking candidates for anticipated postdoctoral positions within the Space Physics Research Laboratory of the Department of Atmospheric and Oceanic Science. These positions involve theoretical and experimental studies of the aurora and of the terrestrial and planetary atmospheres and ionospheres. Initial appointment with possible renewals.

Forward résumé to:

The University of Michigan
Office of Professional and
Administrative Staff Services
1020 "RS54" L S & A Building
Ann Arbor, Michigan 48109

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The Department of Fisheries and Wildlife, Michigan State University, is seeking a WILDLIFE BIOLOGIST to fill a permanent teaching/research position at the assistant professor level. Responsibilities will include teaching an undergraduate course in biometry and a related graduate course in quantitative wildlife biology. Applicants should have the Ph.D. degree with training and competence in applied ecology including population dynamics, with additional background in mathematics, statistics, and computer science for an active program of research related to regional wildlife management problems. Curriculum vitae, transcripts, reprints of relevant publications, a full description of research interests, and names and addresses of at least three references should be submitted to:

Professor L. W. Gysel
Department of Fisheries and Wildlife
Michigan State University
East Lansing, Michigan 48824

by 10 December 1976. *Michigan State University is an Affirmative Action/Equal Opportunity Employer.*

PROGRAM

JOINT INSTITUTE FOR LABORATORY ASTROPHYSICS (JILA)

Applications are invited for research associateships (recent Ph.D.'s) and visiting fellowships (senior scientists). JILA (jointly run by the U.S. National Bureau of Standards and the University of Colorado) is devoted to research, study, and teaching in low-energy atomic and molecular physics, theoretical astrophysics, and other closely related areas. Further information can be obtained from Dr. David W. Norcross, Secretary, Visiting Scientists Program, JILA, University of Colorado, Boulder, Colorado 80309.

FELLOWSHIPS

Applications are invited for a 1-year FELLOWSHIP (renewable) in medical mycology with special emphasis in regulation of morphogenesis, membrane biology, host-parasite relationships, and extended training in laboratory medical mycology. Background of the applicant should include recent Ph.D. or M.D. degree with training in general mycology, microbiology, and/or biochemistry. Inquiries should be addressed to G. S. Kobayashi, Department of Medicine, Box 8123, Washington University School of Medicine, St. Louis, Missouri 63110.

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POSTDOCTORAL FELLOWSHIPS IN EPIDEMIOLOGY

The Department of Epidemiology of the Johns Hopkins University School of Hygiene and Public Health announces an expanded program of postdoctoral fellowship opportunities in chronic disease epidemiology with major emphasis on cardiovascular diseases and cancer. Programs lead to a master's or doctorate degree. There is also an approved residency program in preventive medicine. Stipend support at established NIH postdoctoral levels is available for qualified candidates. For information write Leon Gordis, M.D., Professor and Chairman, Department of Epidemiology, Johns Hopkins University School of Hygiene and Public Health, 615 North Wolfe Street, Baltimore, Maryland 21205.

ASSISTANTSHIPS

PREDOCTORAL GRADUATE ASSISTANTSHIPS SPRING SEMESTER 1977

Applications are invited from qualified students for graduate studies in the biophysical and biochemical sciences to begin in the spring semester 1977. Students may concentrate their studies in the following areas: biochemical oncology, physical and analytical biochemistry, molecular biology, medical biophysics, evolutionary and environmental biochemistry, neurochemistry, lipid and nucleic acid biochemistry, and enzymology. Prerequisites are a bachelor of science degree in one of the physical or biological sciences with B average or above and a combined score of at least 1100 on the Graduate Record Examination. Teaching and research assistantships are available with stipends ranging from \$350 to \$450 per month plus out-of-state tuition waiver. Inquiries should be addressed to:

Chairman, Graduate Committee
Department of Biophysical Sciences
University of Houston
Houston, Texas 77004

The University is an Equal Opportunity/Affirmative Action Employer.

SYMPOSIUM

Symposium Third Charles River International Symposium on Laboratory Animals: "Newer Laboratory Animal Models in Biomedical Research"

26-27 April 1977,
Palais de Congrès, Strasbourg, France

The sponsoring Charles River Foundation is inviting inquiries from interested participants and for contributions of significant papers on breeding and maintenance, spontaneous vs. developed animal models, current research utilization, research potential, biomedical research needs and ideal models. The papers will be published in English in a laboratory animal journal but simultaneous translation will be available for presentations in other languages. Participation is limited to 350 and the expenses of the 18 selected speakers will be underwritten by the Foundation. For further details of attendance and abstract forms, write to: **The Charles River Foundation, P. O. Box 430, Wilmington, MA 01887 U.S.A. or Charles River France, S.A., B.P. 29, 76410 Saint Aubin Les Elbeuf, France,** before October 30, 1976. Abstracts will be due November 15 and speakers will be notified by December 1.

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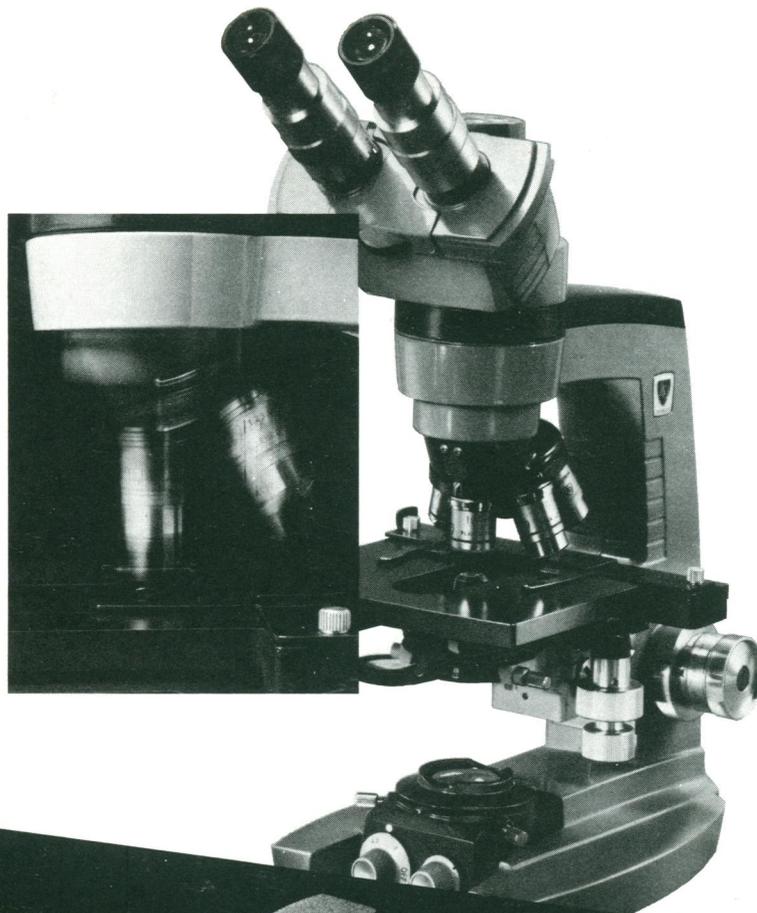
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