

extensively elsewhere—for example, zoogeography (see W. Auffenberg, *Bull. Fla. State Mus. Biol. Sci.* 25, 39 [1980]); some that are peripheral to behavioral ecology, no matter how interesting they may be (such as insular giantism and the relationship of varanids to other lizards and to snakes); and some that have only recently moved toward center stage in the organismal biology arena (such as sexual selection, the significance of skewed sex ratios and metabolic scope of varanids vs. other amniotes).

Similarly, because the author has been so thorough in his fieldwork and cautious in his wording, discrepancies in figures, captions, and textual references to figures and appendixes stand out. Though such problems are irksome, most are surmountable.

The last chapter brings good news that there are "about 5000" extant Komodo monitors, and estimates of more than 7000 are given earlier in the book. These figures are higher than previously reported. Auffenberg concludes with practical, well-tempered recommendations for the preservation and management of these marvelous beasts.

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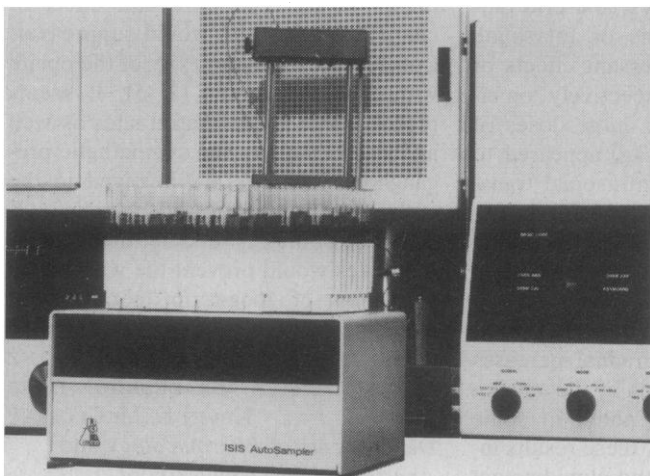
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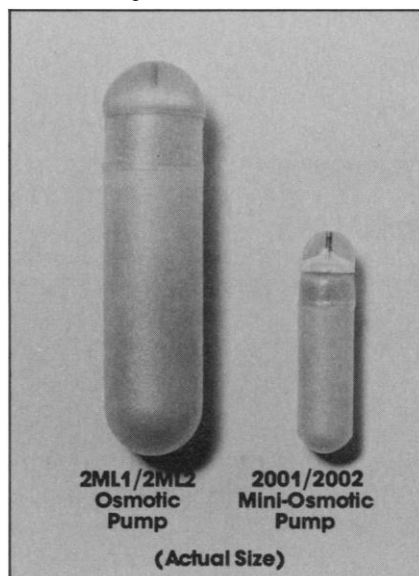
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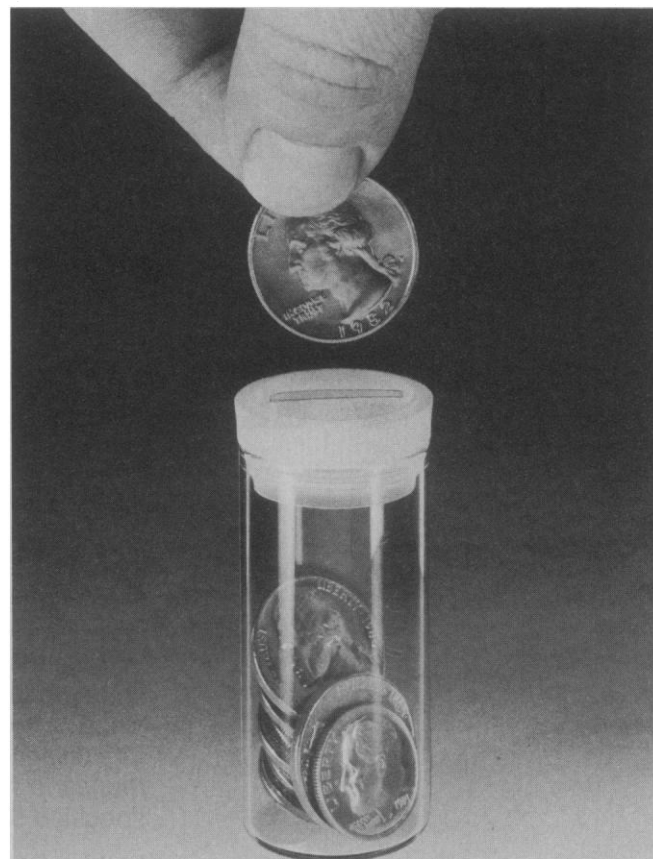
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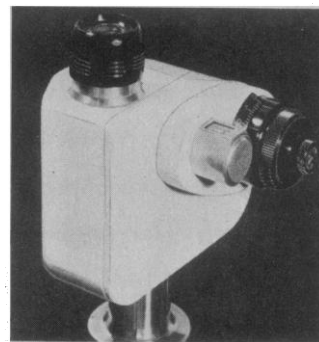
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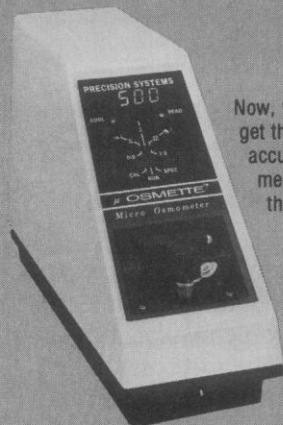
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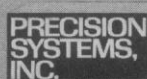
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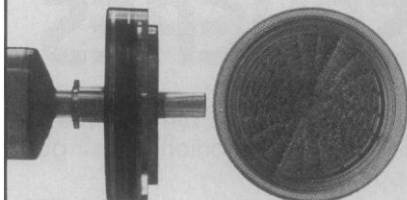
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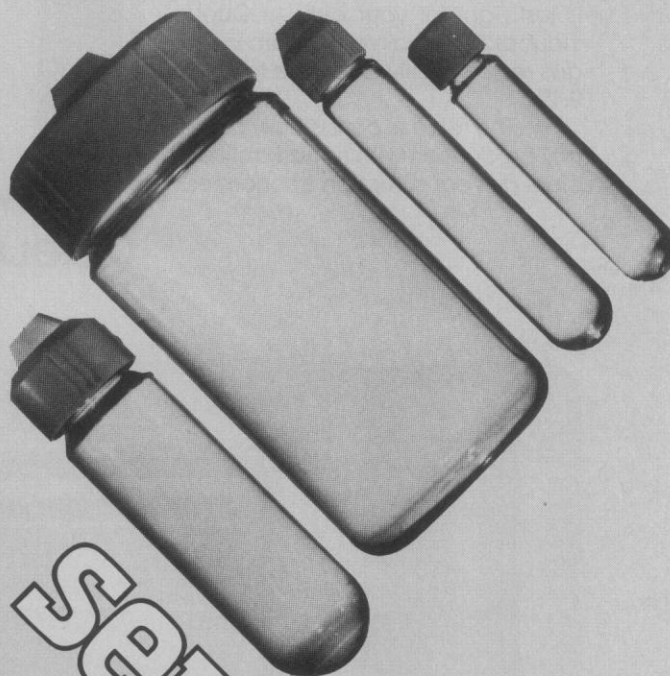
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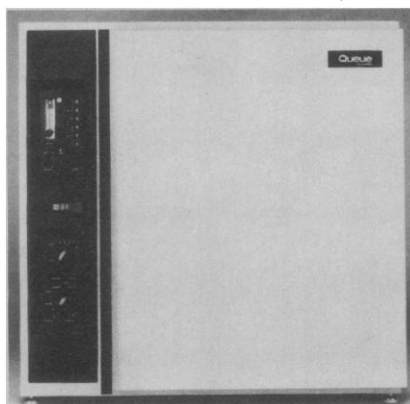
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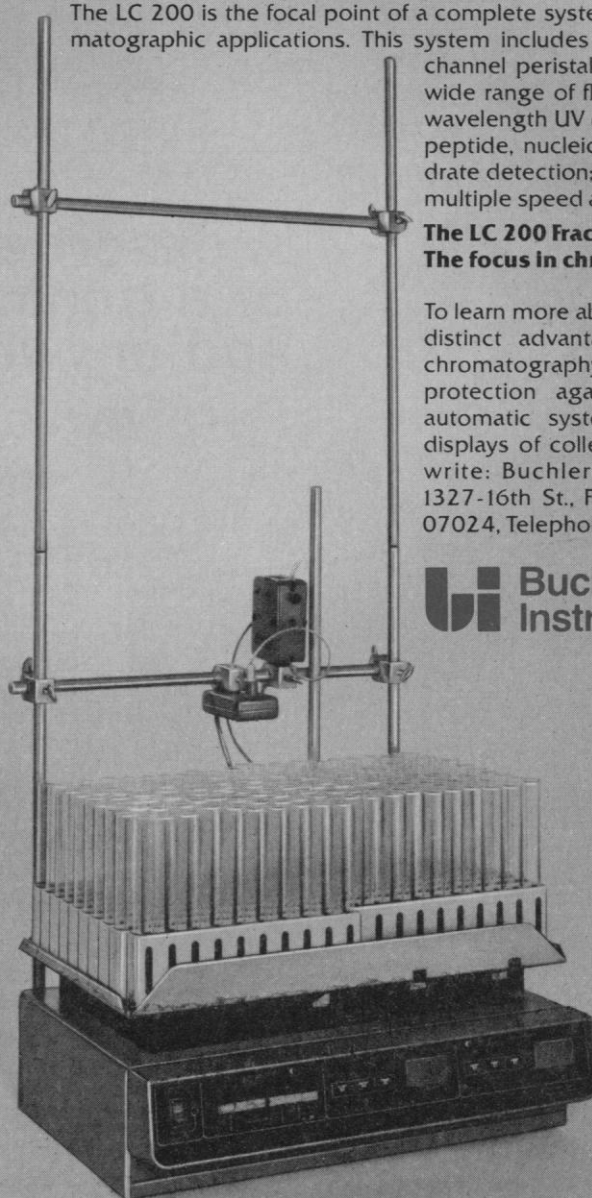
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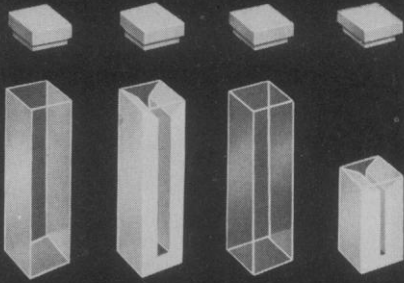
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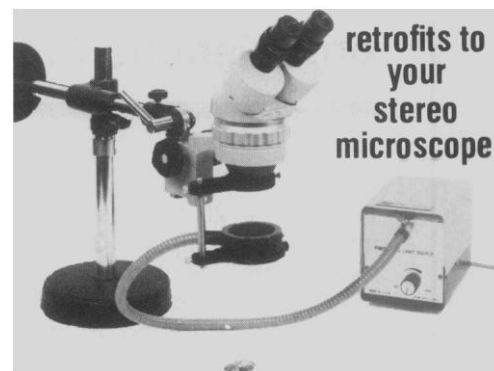
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ACADEMIC MEDICAL ONCOLOGIST. The Section of Medical Oncology, Department of Medicine at the University of Minnesota, has **one associate and two assistant professorships** available. Medical oncologists with laboratory and/or clinical research skills in the areas of pharmacology, cellular biology, molecular biology, or immunobiology are desired. Interested applicants should send a letter and their curriculum vitae to: **Bruce Peterson, M.D., Box 348 Mayo Memorial Building, University of Minnesota Hospitals, Minneapolis, Minnesota 55455.**

AIR SCIENTIST with at least 5 years of experience in atmospheric pollutant assessment and M.S. or Ph.D. in air sciences, chemistry, industrial hygiene, or meteorology. Desirable experience includes: *personal and ambient air monitoring and modeling, analytical chemistry and chemical fate, industrial hygiene, toxic substances assessment, incineration studies, technical writing, and project management.* Senior-level position in mid-Atlantic region with a growing national firm specializing in innovative, multidisciplinary studies in environmental sciences and engineering. For consideration, write in confidence to: **Box 88, SCIENCE.**

ANATOMIST—University of Nebraska Medical Center, College of Dentistry, invites applications for a full-time position of anatomist in the Department of Oral Biology beginning 1 August 1982. The candidate is expected to establish an active research program and teach undergraduate and graduate courses (primarily gross anatomy). Ph.D. or equivalent with postdoctoral experience is preferred. Salary and rank commensurate with training and experience. Submit curriculum vitae by 1 June 1982 to:

Search Committee, Position Number 237
College of Dentistry, Room 100

UNIVERSITY OF NEBRASKA MEDICAL CENTER
40th and Holdrege Streets
Lincoln, Neb. 68583-0740
Telephone: 402-472-1340

The University of Nebraska Medical Center is an Equal Opportunity/Affirmative Action Employer.

ASSISTANT PROFESSOR—BIOLOGY

We seek applicants with a Ph.D. for an entry-level tenure-track position beginning September 1982, who are able to teach introductory biology, vertebrate physiology, and genetics. The ability to teach cell and molecular biology and microbiology would be advantageous. Cornell is a liberal arts college with 900 students, and is an *Equal Opportunity/Affirmative Action Employer*. Applications should be submitted by 3 May to: **Dr. T. E. Rogers, Cornell College, Mt. Vernon, Iowa 52314.**

ASSISTANT PROFESSOR position open in the **Biology Department,** Gannon University, beginning August 1982. Must be qualified to teach anatomy (human and comparative); experience in transmission electron microscopy preferable. Ability and willingness to assist in introductory biology required; must be dedicated to undergraduate teaching. Ph.D. required; tenure-track. Application deadline: 15 May 1982. Send curriculum vitae and names and addresses of three references or three letters of recommendation to: **Dr. Kenneth Andersen, Chairman, Biology Department, Gannon University, Erie, Pa. 16541.** *Equal Opportunity/Affirmative Action Employer.*

POSTDOCTORAL ASSOCIATE (medical oncology/chronobiology). Position is designed to explore biological time structure as applied to the treatment and prevention of malignancy employing concurrent clinical and preclinical research programs. ABIM or equivalent required. Contact: **William Hrushesky, M.D., Box 414 Mayo Memorial Building, University of Minnesota Hospitals, Minneapolis, Minnesota 55455.**

DIRECTOR OF ENVIRONMENTAL SCIENCES

The University of Massachusetts at Boston invites applications and nominations for the position of director of the Environmental Science Center for September 1982. We seek candidates who have made significant contributions to establishing environmental science as an integrative discipline. They should have a substantial background in obtaining and managing research and institutional grants and experience in program development and administration. We anticipate filling the position at the rank of full professor, including the possibility of an appointment to a university professorship.

Applications (including curriculum vitae) should be sent by 15 April 1982 to: Dr. Michael Rex, Chairman of the Search Committee, Office of the Dean, College of Arts and Sciences,



University of Massachusetts at Boston
Harbor Campus, Boston, MA 02125

An equal opportunity/affirmative action/Title IX employer

PRESIDENT/CHIEF EXECUTIVE OFFICER

A company involved in the development, manufacture and marketing of products for agriculture, using cell culture and recombinant DNA technology, is currently seeking a CEO to lead its management team.

Prior experience in a CEO position or a leadership role in a division of a large company is essential. The successful candidate will be profit motivated and have a distinct entrepreneurial flair. He/she will have also demonstrated outstanding leadership skills and besides extensive financial and general management experience will have participated in the development of successful marketing strategies.

Compensation package will include an attractive salary and equity participation.

Reply in confidence to Box 80, SCIENCE.

Pharmaceutical Research

BS/MS Level Ann Arbor, Michigan

Significant expansion at the Warner-Lambert/Parke-Davis Pharmaceutical Research Division has generated a number of openings at the Assistant Scientist level.

Candidates for the positions below should possess a Bachelor's or Master's Degree equivalency and the requisite specified experience. Also required are excellent written and oral communication skills as well as a knowledge of statistical analysis and computerized data reduction.

ATHEROSCLEROSIS

The successful applicant will be able to design and execute experimental protocols to evaluate the efficacy of new compounds as plasma lipid modifying agents. Expertise in lipoprotein methodology and metabolism at the cellular and whole animal levels is desirable.

BIOCHEMICAL PHARMACOLOGY

These positions require training in biochemical techniques in areas such as receptor binding, biogenic amines and peptide biochemistry; these being used in the determination of biochemical mechanism of drug action in small laboratory animals.

CARDIOVASCULAR PHARMACOLOGY

The successful candidate will participate in the testing of compounds to determine mechanism of action and effects upon the autonomic nervous system. Experience is desired in monitoring blood pressure, heart rate and related parameters in laboratory animals.

IMMUNOPHARMACOLOGY

This position involves performing a variety of biochemical and immunologic laboratory procedures. Experience in techniques such as leukocyte purification and culturing, other tissue culture techniques, spectroscopy, liquid scintillation counting, protein purification and antibody production and characterization is desired.

Interested, qualified applicants should forward resume, transcripts, references and salary requirements to: Ms. D. Love, Human Resources Supervisor, WARNER-LAMBERT/PARKE-DAVIS, PHARMACEUTICAL RESEARCH DIVISION, 2800 Plymouth Road, Ann Arbor, Michigan 48105

An Equal Opportunity Employer M/F/H

**WARNER
LAMBERT**

POSITIONS OPEN

The DEPARTMENT OF ANATOMY anticipates an opening for 1 July 1982. This position emphasizes primary teaching responsibilities in College of Allied Health Professions courses offered by the department. Candidates should possess the Ph.D. and have experience in teaching College of Allied Health Professions undergraduate courses. A person with an M.S. may be considered if credentials are strong. Applicants should indicate their teaching experience and professional interests. Please forward curriculum vitae and names of three or more references to:

Peter S. Amenta, Ph.D.
Professor and Chairman
Department of Anatomy 408
The Hahnemann Medical College and Hospital
230 North Broad Street
Philadelphia, Pennsylvania 19102

An Equal Opportunity/Affirmative Action Employer

ANATOMIST—The Department of Anatomy, University of Louisville Health Sciences Center, invites applications for an appointment as assistant professor effective 1 July 1982. Neuroanatomy is required as the preferred teaching area. Research interests are open, but strong indications of promise or achievement, as experience warrants, are desired. Candidates with appropriate qualifications may be considered for higher rank. Send curriculum vitae and personal statement to: Dr. J. B. Longley, Department of Anatomy, University of Louisville Health Sciences Center, Louisville, Kentucky 40292. Candidates attending the AAA Meetings in Indianapolis are invited to make personal contact. *The University of Louisville is an Equal Opportunity/Affirmative Action Employer.*

ANIMAL PHYSIOLOGIST. Assistant professor, tenure-track, beginning August 1982; teach two courses per semester with laboratory; animal physiology, comparative anatomy, human anatomy, other; supervise undergraduate research; advise. Ph.D. required. Seton Hill College is a liberal arts college with 800 women students, 30 miles east of Pittsburgh. By 15 April, send three letters of recommendation, statement of teaching and research goals and equipment needs, curriculum vitae, and transcripts to: Sister Ann Infanger, Ph.D., Department of Biology, Seton Hill College, Greensburg, Pa. 15601.

ASSISTANT. A postdoctoral position is available immediately to study the control of gene expression. Applicants must have a Ph.D. in biochemistry and several years of experience in enzymology, microbiology, and in the handling of nucleic acids. Salary: \$14,000. Send curriculum vitae and two letters of reference to: Dr. Issar Smith, 455 First Avenue, New York, N.Y. 10016. *An Equal Opportunity Employer.*

ASSISTANT PROFESSOR IN BIOLOGY

The University of Calgary invites applications for a position at the assistant professor level in the Department of Biology. The successful candidate will be expected to develop an active research programme, preferably in aquatic or terrestrial ecology, and to teach courses at the undergraduate and graduate levels in population and quantitative ecology. Applicants must hold the Ph.D. degree or equivalent. The appointment will be open as of 1 July 1982, with an expected starting salary in the range of \$25,500 to \$32,500, based on the 1981-1982 scale. In accordance with Canadian immigration requirements, priority will be given to Canadian citizens and permanent residents of Canada. Applicants are requested to submit complete curriculum vitae and three academic references prior to 1 June 1982 to:

Dr. D. Parkinson, Head
Department of Biology
The University of Calgary
2500 University Drive, North West
Calgary, Alberta, Canada T2N 1N4

The Department of Population Sciences and the Center for Population Studies at the Harvard School of Public Health are seeking an **ASSISTANT or ASSOCIATE PROFESSOR OF DEMOGRAPHY**. Candidates preferably should have competence in technical demography plus research background and interests in social, behavioral, and health aspects of population dynamics and human ecology. A doctoral degree in a relevant discipline is required. *Women and minority candidates are particularly invited to apply.* Interested persons should send résumés and the names of three references to: Professor Joseph J. Harrington, Chairman, Search Committee, Harvard University, Department of Population Sciences, 665 Huntington Avenue, Boston, Mass. 02115. Applications should preferably be received by 1 May 1982.

POSITIONS OPEN

The Department of Veterinary Anatomy, Texas A & M University (TAMU), **ASSISTANT PROFESSOR OF CELL BIOLOGY**, effective 1 May 1982. Prefer D.V.M.-Ph.D. or Ph.D. competent to teach at least one area of anatomy. Research experience in cell biology, specifically, tissue culture, genetic engineering, and electron microscopy. Send résumé and three references to: Dr. R. F. Sis, Head, Department of Veterinary Anatomy, TAMU, College Station, Texas 77843. *An Equal Opportunity Employer.*

ASSISTANT PROFESSOR—PHYSIOLOGY

Applications are invited for a tenure-stream position as assistant professor of physiology, University of Toronto. The applicant should hold a Ph.D. or M.D. degree, or equivalent, with training in the area of endocrinology and, particularly, expertise in neuroendocrinology. The applicant will be required to develop and establish a program of research; to undertake training and supervision of graduate students; and to participate in teaching of medical students and undergraduate students in physiology. Salary is at the junior assistant professor level. Starting date: 1 July 1982 or thereafter.

In accordance with Canadian Immigration requirements, priority will be given to Canadian citizens and permanent residents.

Send curriculum vitae and names of three references to:

Professor H. L. Atwood
Chairman, Department of Physiology
University of Toronto
Medical Sciences Building
Toronto, Ontario, Canada M5S 1A8

The DEPARTMENT OF ZOOLOGY, University of Toronto, invites applications for a contractually limited teaching appointment at the **ASSISTANT PROFESSOR** level (subject to budgetary approval). The position, tenable at Erindale College, is for 2 years initially, renewable for up to a total of 5 years. Candidates must hold a Ph.D. degree and will be expected to offer undergraduate lectures on introductory animal ecology, advanced animal ecology, and the biology of algae and protozoa. Postdoctoral experience will be an asset. It is expected that the successful candidate will develop an active research programme in an area commensurate with the teaching specialties described. Salary range for this level is expected to be about \$23,000 to \$32,000. Please send curriculum vitae, including the names of three referees, to: Dr. W. G. Sprules, Department of Zoology, Erindale College, University of Toronto, Mississauga, Ontario, Canada L5L 1C6, by 30 April 1982. In accordance with Canadian immigration requirements, this advertisement is directed to Canadian citizens and permanent residents.

Wanted: Ph.D., BIOCHEMISTRY, research position available, tenure-track, in Division of Nephrology. Must have experience in membrane transport including preparation of plasma vesicles, and/or reconstitution of transport system. Send curriculum vitae to: University of Arkansas for Medical Sciences, J. A. Arruda, M.D., Chief of Nephrology, Slot 501, 4301 West Markham, Little Rock, Ark. 72205.

Cornell College—BIOCHEMISTRY, assistant professor, fall 1982. We need someone with a Ph.D. to teach biochemistry, cell and molecular biology, and microbiology. The ability to teach at least one of the following would be advantageous: organic chemistry, genetics, physiology. Cornell is a selective liberal arts college with 900 students. This joint appointment in biology and chemistry is not a tenure-track position. Applications should be submitted by 26 April to: Dr. Truman H. Jordan, Cornell College, Mt. Vernon, Iowa 52314. *Affirmative Action Employer.*

CARDIOLOGISTS—The Division of Cardiovascular Disease of the Department of Medicine at the University of Alabama has available two **assistant professor** and three **instructor** positions open to qualified individuals. The individuals must have experience in the management of patients with cardiovascular disease, in cardiac catheterization, and have a firm commitment to teaching. Finally, the individuals should have a research background and be able to carry out independent research. One of the assistant professors will also need to be knowledgeable in echocardiography and exercise physiology. Apply to: Division of Cardiovascular Disease, Department of Medicine, University of Alabama Medical Center, Birmingham, Alabama 35294, attention: Norma McSweeney; telephone 205-934-5615. *An Equal Opportunity/Affirmative Action Employer.* Expiration date for receipt of applications: 31 May 1982.

POSITIONS OPEN

ASSISTANT WILDLIFE ECOLOGIST. June 1982, University of Nevada, Reno. Nontenure-track position in Elko, Nevada. Ph.D. in wildlife management or wildlife ecology. Duties include development and conduct of research project to evaluate sage grouse response to changes in vegetation and cattle grazing. Deadline for inquiries: 15 April. Contact: **Chairman, Renewable Resources, 1000 Valley Road, Reno, Nevada 89512.** An Equal Opportunity/Affirmative Action Employer.

BOTANY AND GENETICS UNIVERSITY OF GUELPH

Tenure-track position. Applications are invited from qualified individuals who will maintain a vigorous research program in plant population biology/genetics or ecology or field botany and make an active contribution to the undergraduate and graduate teaching programs of the department. The department consists of 19 faculty members with research interests covering a broad range of subjects, from molecular biology to community ecology, and offers undergraduate degree specializations in botany, ecology, and genetics.

Deadline for applications is 1 May 1982, and the position is to commence 1 August 1982. Subject to final budgetary approval.

In accordance with Canadian immigration requirements, priority will be given to Canadian citizens and permanent residents of Canada. Submit curriculum vitae, résumé of research interests, and the names and addresses of three academic referees to: **Dr. W. G. Barker, Chairman, Department of Botany and Genetics, University of Guelph, Guelph, Ontario, Canada N1G 2W1.**

Position available June 1982. **DIRECTOR OF NEUROSURGICAL RESEARCH LABORATORIES,** University of Miami School of Medicine. Neuroscientist experienced in spinal cord injury-regeneration research. Faculty rank and salary by negotiation. Send résumé to: **Department of Neurological Surgery, University of Miami School of Medicine, D4-6, P.O. Box 016960, Miami, Fla. 33101.** Equal Opportunity Employer.

ECOSYSTEM MODELER. Tenure-track position at the assistant professor rank, available August 1982. Ph.D. required with experience in predictive modeling of aquatic or marine ecosystems. A research-oriented position with teaching responsibilities. Salary commensurate with experience. Applicants should submit curriculum vitae, three letters of reference, and a statement of research interests by 15 April 1982 to: **Dr. H. G. Marshall, Chairman, Department of Biological Sciences, Old Dominion University, Norfolk, Va. 23508.** An Affirmative Action/Equal Opportunity Employer.

ENDOCRINE CELL BIOLOGY

Position for a **POSTDOCTORAL FELLOW OR RESEARCH ASSOCIATE** to work on mechanism of steroid hormone/hypothalamic peptide interaction with pituitary cells. Experience with at least one of the following techniques is required: EM immunocytochemistry, radioreceptor methods, and cell separation and culture. Salary up to \$20,000, depending on qualifications and training. Send curriculum vitae, reprints, and statement of experience and goals to: **Dr. J. D. Neill, Department of Physiology and Biophysics, University of Alabama in Birmingham, Birmingham, Ala. 35294.** An Equal Opportunity/Affirmative Action Employer.

ENVIRONMENTAL PHYSIOLOGIST—Tenure-track position, rank and salary negotiable; will consider senior level; Ph.D. required, postdoctoral and/or academic experience preferred. Research should involve physiological processes and control in terrestrial animals (vertebrate and/or invertebrate). Prefer candidate broadly trained and integrative in approach; experience with endocrine control of processes and/or behavior desirable; must interface with environmental, ecological, and evolutionary biologists. Appointee must maintain vigorous research program, solicit funding, and direct graduate students. Responsibilities include undergraduate and graduate teaching. Applicants should enclose statement of research goals, curriculum vitae, and reprints of publications with letter of application; these materials plus names, addresses, and telephone numbers of three references should be sent to: **Search Committee, Department of Biology, University of Southwestern Louisiana, Lafayette, La. 70504.** Closing date is 19 April 1982, or until position is filled. An Equal Opportunity/Affirmative Action Employer.

POSITIONS OPEN

THE UNIVERSITY OF TEXAS HEALTH SCIENCE CENTER AT DALLAS DEPARTMENT OF CELL BIOLOGY INVITES

Applications from individuals with a strong commitment to research for a tenure-track position at the assistant professor level. Ph.D., M.D., or equivalent, experience in gross anatomy (preferably human anatomy), and at least 2 years of postdoctoral research training in one of the areas described below are required. Responsibilities include teaching in the human gross anatomy course for first-year medical students and participation in the department's Graduate Program. Departmental research interests include biological structure, functional morphology, developmental biology, reproductive biology, neuroscience, cell biology, and immunobiology. Curriculum vitae, description of research program, and the names of three references should be sent by 1 June 1982 to: **Anatomy Search Committee, Department of Cell Biology, The University of Texas Health Science Center at Dallas, 5323 Harry Hines Boulevard, Dallas, Texas 75235.** The University of Texas is an Equal Opportunity/Affirmative Action Employer.

CHAIR OF MICROBIOLOGY

Applications are being accepted for the position of chair of microbiology at the University of Kansas College of Health Sciences and Hospital. The department has adequate research space and full-time faculty positions are available. Potential candidates should have a strong research record, demonstrated administrative skills, a commitment to teaching medical students, graduate students, and continuing education to physicians, and a commitment to providing aggressive leadership for continued scientific growth of the department.

Submit curriculum vitae and three references to:

**Edward J. Walaszek
Chairman, Search Committee
Department of Pharmacology
University of Kansas College
of Health Sciences and Hospital
Kansas City, Kansas 66103**

Closing date: 1 May 1982. *Kansas University is an Affirmative Action/Equal Opportunity Employer.*

CHAIRMAN, DIVISION OF RADIATION ONCOLOGY. The City of Hope National Medical Center invites applications for the chairman of the Division of Radiation Oncology. The City of Hope provides tertiary medical care services on a 90-acre campus in the greater Los Angeles area. Clinical material is predominantly oncology and there is a major commitment to biomedical and clinical research. The Radiation Oncology Division has a floor space of about 12,000 square feet and is well staffed with radiation oncologists, physicists, radiobiologists, and support personnel. Reply to: **Lawrence D. Petz, M.D., Chairman, Search Committee for Radiation Oncology, City of Hope National Medical Center, 1500 East Duarte Road, Duarte, California 91010.** Telephone: 213-359-8111.

CLINICAL PATHOLOGIST/ASSOCIATE DIRECTOR OF CLINICAL LABORATORIES: University of California, Los Angeles (UCLA), Department of Pathology, is seeking an experienced, Board-certified clinical pathologist for responsibilities as associate director of the Comprehensive University Hospital Laboratories and clinical pathology training programs. Experience is required in teaching and clinical laboratory management. Expertise in data automation is desired. Appointment will be at the assistant-associate professor levels, depending on qualifications. Send curriculum vitae to: **George S. Smith, M.D., Director, Clinical Laboratories, UCLA Center for Health Sciences, Los Angeles, Calif. 90024.** UCLA is an Equal Opportunity/Affirmative Action Employer. Minority and women candidates are encouraged to apply.

COMPARATIVE ANATOMY. Tenure-track position at the assistant professor rank available August 1982. Ph.D. required. Responsibilities include teaching of comparative anatomy with additional course assignments in related specialty areas. The development of a research program is expected. Salary commensurate with experience. Applicants should submit curriculum vitae, three letters of reference, and statement of research interests by 15 April 1982 to: **Dr. H. G. Marshall, Chairman, Department of Biological Sciences, Old Dominion University, Norfolk, Va. 23508.**

An Affirmative Action/Equal Opportunity Employer

Pharmaceutical Research

Ph.D. Level Ann Arbor, Michigan

A major expansion program at the Warner-Lambert/Parke-Davis Pharmaceutical Research Division has resulted in the establishment of a number of employment opportunities. All positions below are located in Ann Arbor, Michigan at our modern facilities, adjacent to the University of Michigan campus, which are exclusively devoted to the discovery and development of new drugs.

Qualified applicants will have the equivalent of a Ph.D. and up to three years post-doctoral experience in one of the following research areas:

ATHEROSCLEROSIS

The successful applicant must have demonstrated accomplishment in the area of lipoprotein biochemistry, particularly in analyses of apolipoproteins by state of the art techniques (including isoelectric focusing, immunochemical methods, gel filtrations and chromatography). The candidate must be able to design experiments and interpret results in relations to pharmacological effects on lipoprotein metabolism at both the cellular and whole animal levels.

BIOCHEMICAL PHARMACOLOGY

This position requires an understanding of the physiology, biochemistry, and pharmacology of the molecular events involved in neuronal transmission. Training in biochemical techniques in areas such as receptor binding, biogenic amines, peptide biochemistry, and the determination of biochemical mechanism of drug action in small laboratory animals is desired.

CARDIAC PHARMACOLOGY

The successful applicant will participate in the implementation of research programs aimed at the discovery and development of therapeutic agents for cardiac diseases, requiring application of conceptual knowledge of cardiovascular physiology and pharmacology, with specialized knowledge in the area of ischemic heart disease.

NEUROPHARMACOLOGY

This position requires the application of electrophysiological methods in the discovery of novel psychotherapeutic agents. The ideal candidate will have expertise ranging from intracellular microelectrodes to quantitative EEG in intact animals (primarily primates), with emphasis on neuropharmacological manipulations.

IMMUNOPHARMACOLOGY

The successful candidate will participate in a drug discovery program directed toward chronic immunological disorders with emphasis on rheumatoid arthritis. Experience is required in a variety of *in vitro* and *in vivo* immunological techniques including leukocyte purification and culturing immunoenzymatic procedures and antibody production.

All of these positions require excellent communication skills as well as scientific recognition and proven writing ability as evidenced by publications. In addition, all require the ability to initiate independent research while interacting within interdisciplinary project teams.

Interested qualified applicants should forward curriculum vitae together with references and salary requirements to: **Ms. D. Love, Human Resources Supervisor, WARNER-LAMBERT/ PARKE-DAVIS, PHARMACEUTICAL RESEARCH DIVISION, 2800 Plymouth Rd., Ann Arbor, Michigan 48105.** Alternatively these may be delivered in person at the April 1982 FASEB meeting. An Equal Opportunity Employer M/F/H

**WARNER
LAMBERT**

Center in Motion

Faculty position in Anatomy University of Massachusetts Medical School

Tenure track appointment in human gross anatomy at the assistant, associate, or full professor level available July 1, 1982. Applicants should have the Ph.D. or M.D. degree and postdoctoral training in research. Experience in teaching human gross anatomy and an active research program are required. Preference given to candidates with demonstrated ability to direct a course for first-year medical students. Research effort may center in molecular, cellular, or developmental biology, biological anthropology, or biomechanics.

Applicants should send a curriculum vitae, description of research program, and names of three references to: Dr. Helen A. Padykula, Chairman, Department of Anatomy.



**University of
Massachusetts
Medical Center**
55 Lake Avenue North
Worcester, MA 01605
An affirmative action/
equal opportunity employer

ORAL ROBERTS UNIVERSITY SCHOOL OF MEDICINE seeks to fill the following positions with highly qualified faculty.

DEAN'S OFFICE: Associate Dean for Clinical Sciences, Associate Dean for Community Affairs, Director Continuing Medical Education

DEPARTMENT OF MEDICINE: Division Heads; Senior and Junior Faculty in General Medicine and all subspecialties.

DEPARTMENT OF FAMILY MEDICINE: Clinic Director of Family Practice Center; Senior and Junior Faculty.

DEPARTMENT OF SURGERY: Division Heads; Senior and Junior Faculty in all Surgical Specialties.

DEPARTMENT OF PSYCHIATRY: Faculty, Psychiatrists and Clinical Psychologists.

DEPARTMENT OF OB/GYN: Professor and Chairperson, Senior and Junior Faculty.

DEPARTMENT OF ANESTHESIOLOGY: Chairperson and Faculty for department.

BIOMEDICAL SCIENCE DEPARTMENTS: Faculty Members—Clinical Pharmacologist, Microbiologist-Immunologist

RESIDENTS AND FELLOWS in Medicine, Pediatrics and Family Medicine

Applicants should have a confirmed interest in quality medical education, patient care and research, and a belief in the school's philosophy—emphasizing both spiritual and professional components in the practice of medicine. Salary range and academic rank will be commensurate with qualifications and experience. Applications for positions will be received and considered on continuing basis until positions are filled by qualified applicants.

Send Vitae and references to **Sydney A. Garrett, M.D., Dean, School of Medicine, Oral Roberts University, 7777 S. Lewis, Tulsa, OK 74171.** Oral Roberts University is an Affirmative Action/Equal Opportunity employer.

POSITIONS OPEN

CANCER RESEARCHERS

We are seeking to fill a research associate position in the Bristol-Baylor Laboratory of the Department of Pharmacology. This position may evolve into a tenure-track faculty position at the junior level. Individuals interested in working on human solid tumors and with expertise in the following areas are encouraged to apply:

Cell membrane receptors,
Transforming growth factors,
Molecular pharmacology (macromolecular interactions with anti-cancer agents),
Monoclonal antibody production, and
Cytogenetics.

Send curriculum vitae and names and addresses of three references before 9 April 1982 to:

Dr. Michael G. Brattain, Director
Bristol-Baylor Laboratory
Department of Pharmacology
Baylor College of Medicine
Houston, Texas 77030

Equal Opportunity Employer, M/F/H

CELL BIOLOGIST

Two postdoctoral positions available for Ph.D.'s to join a multidisciplinary group of Ph.D.'s and M.D.'s studying human malignant brain tumors. Investigations include stem cell growth and chemosensitivity, as well as the biochemistry and molecular biology of tumor cell resistance to drugs and irradiation. Basic biological and therapy-directed studies have potential for rapid clinical impact. Cell biology and culture experience mandatory. Experience in growth and characterization of normal human cells would be advantageous. Please send curriculum vitae, a statement of research interests, and the names of three references to: **Mark L. Rosenblum, M.D., Brain Tumor Research Center, Department of Neurosurgery, University of California at San Francisco, San Francisco, California 94143.**

DIRECTOR OF RESEARCH. Full-time assistant adjunct professor to participate in teaching basic science courses and possess the following qualifications: Ph.D. in basic science discipline; minimum of 5 years of postdoctoral experience in basic laboratory research; demonstration of previous research efforts of relevance to clinical pediatric department; expertise in granulocyte research; facility in high-speed cinemicrographic techniques with application to study of human granulocytes; supervisory experience in multidisciplinary research programs; and grant writing experience. Send curriculum vitae to: **Charles F. Abildgaard, Department of Pediatrics, University of California, Davis, Sacramento, Calif. 95817.** Closing date: 15 April 1982. *The University of California is an Affirmative Action/Equal Opportunity Employer.*

ENVIRONMENTAL ENGINEERING

Tenure-track associate professor position for development of a joint program in environmental engineering with NJIT. Ph.D. or equivalent, background in civil/environmental engineering and environmental planning, plus experience in undergraduate education desired. Responsibilities include completion of program approval process, liaison between faculty and schools, recruiting students, and so forth. *Applications from women and members of minority groups are strongly encouraged.* Screening begins 15 April. For more information, send a résumé and the names of three references to: **Dean Edward Paul, Box 7440, Stockton State College, Pomona, N.J. 08240.**

FACULTY POSITIONS NEUROPHARMACOLOGY AND TOXICOLOGY

Tenure-track faculty positions are available in newly expanded Department of Pharmacology with modern research facilities. Candidates should be committed to developing a strong, independent, funded research program in some aspect of biochemical or molecular neuropharmacology or toxicology, and should be able to teach in these disciplines. Rank is open, but assistant professor is the likely level of appointment. The Department of Pharmacology is part of a young and growing university with one of the most comprehensive health and research centers in the Southeast. Complete curriculum vitae, including a brief statement of research interests and plans, and three letters of recommendation should be sent to: **Dr. Elias Meezan, Chairman, Department of Pharmacology, University of Alabama-Birmingham, Schools of Medicine and Dentistry, University Station, Birmingham, Alabama 35294.** *An Equal Opportunity/Affirmative Action Employer.*

POSITIONS OPEN

EDITOR/WRITER

Staff editor needed at *Technology Review*. Duties include evaluating, writing, and editing material for publication. Background and/or experience in science, engineering, and/or related policy issues, and in writing/journalism are required. Send résumé and writing samples to: **Editor, Technology Review, Room 10-140, Massachusetts Institute of Technology, Cambridge, Mass. 02139.** *An Affirmative Action/Equal Opportunity Employer.*

EVOLUTIONARY/POPULATION BIOLOGIST

The Department of Biology of The University of Chicago seeks an evolutionary or population biologist for appointment to its faculty at the tenured or pretenured level. Send curriculum vitae, statement of research interests, and names of three references by 15 April 1982 to: **Evolution/Population Search Committee, The Department of Biology, The University of Chicago, 1103 East 57 Street, Chicago, Illinois 60637.** *The University of Chicago is an Affirmative Action/Equal Opportunity Employer.*

FACULTY POSITION AND DIRECTOR, LABORATORY FOR AIR POLLUTION IMPACT TO AGRICULTURE AND FORESTRY. This is a tenure-track appointment. The director must provide leadership in the development of existing and new research programs, direct graduate students, and teach. Applicants should have a demonstrated ability to conduct, manage, and financially support research programs. Send résumé, transcripts, and three references to: **Dr. Gary R. Hooper, Head, Department of Plant Pathology and Physiology, Virginia Polytechnic Institute and State University, Blacksburg, Va. 24061.** Deadline: 15 April 1982. *An Affirmative Action/Equal Opportunity Employer.*

FACULTY POSITION in pharmacology and therapeutics. The University of Kentucky, College of Pharmacy, invites applications for a tenure-track position at the assistant professor level. A Ph.D. in pharmaceutical or related sciences is required, and postdoctoral experience is desirable. The primary qualifications of the applicant should be: (i) ability to be an effective lecturer in the teaching activities of the division, and (ii) the potential to establish a strong, independent research program.

Submit applications by 1 May 1982 and include curriculum vitae, reprints of recent publications, three references, and a brief description of future research plans to:

Dr. Louis Diamond, Division Director
College of Pharmacy
University of Kentucky
Lexington, Kentucky 40536-0053
An Equal Opportunity Employer

University of Toronto FACULTY OF FORESTRY AND DEPARTMENT OF BOTANY FOREST ECOLOGIST

Applications are invited for a tenure-stream position, available from 1 July 1982, at the University of Toronto in **FOREST ECOLOGY**.

The appointment will be a joint one between the Faculty of Forestry and the Department of Botany. Applicants are expected to develop a significant research program in forest (plant) ecology and to develop graduate training programs, as well as to teach undergraduate classes.

A doctoral degree and appropriate postdoctoral experience are required. An interest in the application of ecological methods to forest management and the facility to teach courses in silvics and quantitative vegetation ecology are desirable.

The appointment will be made at the assistant professor level at a salary commensurate with experience.

In accordance with Canadian immigration requirements, this advertisement is directed to Canadian citizens and permanent residents.

Interested and qualified individuals should submit curriculum vitae and other relevant information. Three referees who are acquainted with the work of the applicant should be asked to forward letters of reference. These should be submitted to:

The Chairman
Search Committee
Faculty of Forestry
University of Toronto
Toronto, Ontario, Canada M5S 1A1

Deadline for applications is 1 May 1982.

Director of Pre-Clinical Research

Allergan Pharmaceuticals, located in Southern California, world leader in the manufacture of ophthalmic and dermatologic products seeks Director to head up the Pre-Clinical Research Group.

The successful candidate will have a PhD in medicinal chemistry with established track record of 7-10 years pharmaceutical/research experience. Responsibilities will include achievement of innovative research in medicinal chemistry, also coordination of innovative research activities in the pharmacological, biochemical and micro-biological areas.

Allergan offers a substantial salary and benefits package and an atmosphere that encourages both personal and professional growth plus the sunshine and lifestyle available in Southern California. For professional consideration, contact LaDonna Johnsrud at:



ALLERGAN
PHARMACEUTICALS
A Smith-Kline
Company
2525 DuPont Drive
Irvine, CA 92713

Equal Opportunity Employer M/F/H

BACTERIOLOGIST

An immediate opportunity exists for a Bacteriologist to implement antimicrobial research in an exploratory R&D effort with a mission of achieving unique and marketable product innovations in a Fortune 200 corporation. This is a ground floor opportunity. Responsibility will include designing and staffing a sophisticated bacteriology laboratory.

Candidates should have a Ph.D. in Bacteriology, 3 to 5 years experience, and preferably be a Diplomate of the American Board of Microbiology or be Board-eligible. Some experience in the formulation and marketing aspects of drugs would be highly desirable. Industrial and applied bacteriologists are particularly encouraged to apply.

This position offers a very competitive salary, an excellent benefits package and pleasant working conditions in a new R&D facility.

Please submit your resume in confidence to:

BOX 81, SCIENCE
or call
(314) 872-7044

An Equal Opportunity Employer

OUTSTANDING OPPORTUNITIES FOR CHEMISTS

FEDERAL CAREER SERVICE WITH THE U. S. DEPARTMENT OF AGRICULTURE

The Eastern Regional Research Center of USDA's Agricultural Research Service is seeking qualified professionals for the positions listed below. The Center is located in Wyndmoor, PA, a beautiful suburb of Philadelphia. USDA is an Affirmative Action/Equal Employment Opportunity Employer. Women and minorities are urged to apply.

RESEARCH POSITIONS (Ph.D. is desirable)

RESEARCH CHEMIST (MASS SPECTROSCOPIST) GS-12/13, Physical Chemistry and Instrumentation Laboratory, Spectroscopy Research. Conduct research on fundamental aspects of mass spectrometry.

RESEARCH CHEMIST (PHYSICAL PROPERTIES OF POLYMER PROTEIN COMPOSITES) GS-12/13, Hides and Leather Laboratory, Chemical Modification Research. Study structure-property and composition-property relationships of fibrous protein-polymer composites.

Salary is based on qualifications and experience. Usual Federal Government benefits apply.

Salary ranges: (GS-11) \$23,566-30,640, (GS-12) \$28,245-36,723, (GS-13) \$33,586-43,666

At the Eastern Regional Research Center, Scientists are engaged in basic and applied research in the public's interest on a variety of agricultural commodities to develop new fundamental information and new processing technologies, improve the nutritional value of foods, eliminate health hazards, reduce environmental pollutants, and conserve natural resources.

We are now accepting applications from qualified professionals for the above positions. Applications may only be accepted from U.S. citizens. Applications MUST BE received by April 30, 1982. For further information and application requirements contact:

Personnel Office, USDA, Eastern Regional Research Center,
600 East Mermaid Lane, Philadelphia, PA 19118
(215) 233-6573

POSITIONS OPEN

HEAD DEPARTMENT OF PLANT PATHOLOGY KANSAS STATE UNIVERSITY, MANHATTAN

Nominations and applications are invited for this position, available 1 July 1982. Requirements include a Ph.D. in plant pathology or closely related field, with demonstrated scholarly accomplishments and administrative and leadership abilities to direct research, teaching, and extension programs. Plant Pathology has 14 tenure-track faculty in research, teaching, and extension, and three USDA, one emeritus, and nine adjunct and temporary faculty members, with a 43-member supporting staff. The department occupies office, laboratory, classroom, and greenhouse facilities in a recently completed plant science complex. Salary will be commensurate with qualifications and experience. By 15 May 1982, submit a letter of application and current curriculum vitae, and request that three letters of reference be sent to: A. K. Chatterjee, Chairman, Search Committee, Department of Plant Pathology, Kansas State University, Manhattan, Kans. 66506. Telephone: 913-532-6176. *Kansas State University is an Equal Opportunity/Affirmative Action Employer.*

TRUDEAU INSTITUTE, INC.

A position exists for an IMMUNOBIOLOGIST at the ASSOCIATE PROFESSOR level to develop an independent research program related to immunity to cancer and infectious diseases. Applicants should have at least 8 years of postdoctoral experience and provide evidence that they possess the capacity for a productive scientific career. The Trudeau Institute is a not-for-profit, pure research institute situated on the shore of Saranac Lake, 10 miles from Lake Placid, N.Y. Send résumé and names of three references to:

Dr. R. J. North, Director
Trudeau Institute, Inc.
P.O. Box 59
Saranac Lake, N.Y. 12983

POSITIONS OPEN

DURHAM UNIVERSITY DEPARTMENT OF GEOLOGICAL SCIENCES

Applications are invited for the post of LECTURER in GEOLOGY from 1 October 1982 with main teaching commitments in sedimentology, stratigraphy, and petroleum geology. A research interest in the fields of clastic sedimentology, the physics and chemistry of sedimentary rocks from deposition to deformation, and organic geochemistry would be an advantage.

Salary on the scale £6,070 to £12,860 per annum, plus superannuation.

Applications (three copies) naming three referees should be sent by 1 May 1982 to: The Registrar, Science Laboratories, South Road, Durham, England DH1 3LE, from whom further particulars may be obtained.

MICROBIOLOGY—BIOCHEMISTRY. One-year, nonrenewable appointment starting 1 September 1982 to replace faculty member on leave. Ph.D. expected. Primary responsibilities are to teach microbiology in the fall term and biochemistry in the spring term. Send résumé, transcripts, and names of three references to: Lawrence R. McManus, Chairman, Department of Biology, Hamilton College, Clinton, N.Y. 13323. *Women and members of minorities are encouraged to apply; Hamilton College is an Equal Opportunity Employer.*

MICROBIOLOGY AND IMMUNOLOGY POSITIONS. A tenure-track position is available in the Division of Medical Microbiology and Immunology at the University of South Florida College of Medicine. Applicants should have teaching experience and research productivity in the area of cellular immunology, especially as related to microbial infections. The rank of assistant or associate professor depends on qualifications. Please send a letter of interest and names of three references to: Dr. Herman Friedman, Professor and Chairman, Department of Medical Microbiology and Immunology, MDC Box 10, University of South Florida, College of Medicine, Tampa, Fla. 33612. *The University of South Florida is an Equal Opportunity Employer.*

POSITIONS OPEN

IMMUNOLOGY/PARASITOLOGY

The West Virginia School of Osteopathic Medicine (WVSOM), Department of Microbiology, has an opening for a tenure-track, 12-month position as assistant professor in immunology/parasitology starting 1 July 1982. The applicant should be an effective teacher, be able to teach immunology and parasitology to medical students, and be able to continue with or develop an independent research program.

Send curriculum vitae, three letters of recommendation, and a statement of research interests no later than 15 April 1982 to: Dr. Elizabeth Blatt, Associate Dean/Basic Sciences, West Virginia School of Osteopathic Medicine, 400 North Lee Street, Lewisburg, West Virginia 24901.

WVSOM is an Equal Opportunity/Affirmative Action Employer.

University of Michigan Medical School, Department of Otorhinolaryngology, has a position available at the rank of INSTRUCTOR THROUGH PROFESSOR. Applicant must have M.D. degree and be eligible for or certified by the American Board of Otolaryngology. Must have extensive experience and knowledge of vestibular testing. Will be expected to assume responsibility for directing a large vestibular testing laboratory. Contact: Charles J. Krause, M.D., C6107 Outpatient Building, Box 61, University of Michigan Hospital, 1405 East Ann Street, Ann Arbor, Mich. 48109. *A nondiscriminatory, Affirmative Action Employer. Code 39.*

NEUROSCIENCE POSTDOCTORAL POSITION available for research on brainstem-spinal cord interaction. Techniques being utilized include extra- and intracellular recording, microiontophoresis, microstimulation, spike triggered averaging, tissue slice, and fluorescence microscopy. Applicants should have experience in at least one of the methods. Salary commensurate with experience. Send curriculum vitae and names of three references to: Dr. Charles D. Barnes, Department of Physiology, Texas Tech University Health Sciences Center, Lubbock, Texas 79430. *An Equal Opportunity/Affirmative Action Employer.*

SENIOR RESEARCH SCIENTIST

Mead Johnson is seeking a Senior Research Scientist for our Department of Nutritional Science. This individual will plan, supervise and conduct internal and external preclinical laboratory research to support current nutritional products and to identify and evaluate new product concepts. Additional duties will include supervision and development of a professional and technical staff and preparation of scientific papers for use by management and for publication or presentation at professional meetings.

Qualifications needed include a Ph.D. in Nutrition, Nutritional Bio-chemistry or a closely related field. Five or more years experience past the Ph.D. in research with demonstrated ability to conduct and publish results of independent research relating to human nutrition is required. Experience in planning and supervising laboratory research and in communicating technical information to both scientists and non-technical audiences is highly desirable.

We offer a pleasing work environment, competitive salary and benefits, and the opportunity for professional growth. For confidential consideration, send resume and salary history to:

Steve Sons, Manager Executive Search & Placement, Dept. 102, Evansville, IN 47721.

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subsidiary of Bristol-Myers

Mead Johnson
& COMPANY



CNS Section Head

G. D. Searle & Co. currently has an outstanding opportunity available for a qualified professional to oversee and direct the activities of our CNS research section.

This key position will be responsible for all management functions of the CNS section. This includes planning, designing and conducting research programs that are consistent with the objectives of the Biological Research Department and the CNS operations group. In addition, you will also serve as co-chairman for the CNS research committee. The qualified professional will possess a Ph.D. or equivalent in the pharmacological or biochemical aspects of CNS research. 5-10 years related experience with evidence of managerial ability is required. Knowledge of the pharmaceutical industry is helpful.

In return for your achievements, we offer a salary commensurate with experience, a competitive benefits package and exceptional relocation assistance. For confidential consideration please send resume including salary history to:

Barbara Gardner
#8243-1212

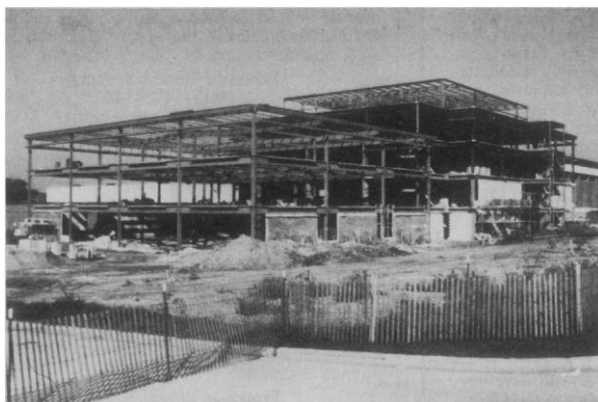
Research & Development Division

G. D. Searle & Co.
Box 5110 / Chicago, IL 60680

Equal Opportunity M/F/H...A Practice,
Not Just A Policy

SEARLE

PHARMACEUTICAL RESEARCH OPPORTUNITIES



June, 1981 Construction begins on new Research Facility at Abbott Park



Artist's rendering of finished facility, scheduled completion August, 1982

ABBOTT MAKES A VISIBLE COMMITMENT TO GROWTH.

The management of Abbott Laboratories has made a significant, long term commitment to expanded and improved pharmaceutical research and development activities that we know are vital to our future growth. Our new research facility is visible evidence of this commitment.

Investigators interested in novel approaches to drug discovery that will emphasize an orientation toward specific molecular targets are invited to consider the exceptional career opportunities in our pharmaceutical division.

We are currently looking for innovative scientists to make substantial contributions in the following areas of basic pharmaceutical research.

PHARMACOLOGY

Entry level and senior research positions in the areas of neuropharmacology, cardiovascular pharmacology, and immunopharmacology. Entry level candidate preferably should have a Ph.D. with some postdoctoral experience. Senior level positions require a Ph.D. with at least 7 years independent academic or industrial experience.

ORGANIC CHEMISTRY

Openings in organic synthesis. Qualified candidate should have a Ph.D. with postdoctoral experience and preferably strength in natural products synthesis.

BIOCHEMISTRY

Openings for individuals with experience in membrane systems and radioligand binding. Qualified candidates should have a Ph.D. with 2-3 years postdoctoral experience and a strong background in enzymology.

MICROBIOLOGY

A senior level position which will entail directing a major interdisciplinary scientific effort to discover novel antibiotics. Qualified candidate should have at least 7 years of independent research experience. Preferred individual should have a strong background in microbial genetics and, or microbial biochemistry.

MEETING BOUND?

Abbott Representatives will be at the FASEB Meeting in New Orleans, 4/16-23 and the ACS Convention in Las Vegas 3/28-4/2. Send a resume today and we will contact you to arrange an appointment at either of these conventions.

Abbott is headquartered in a pleasant community 45 miles north of Chicago and we offer an attractive salary and benefits package that includes cash profit sharing, relocation assistance, and stock retirement plan. For an outstanding opportunity, send a resume with earnings history, in complete confidence to:

Chris Gude, Corporate Placement

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Abbott is an Affirmative Action Employer

Announcing a joint symposium sponsored
by the American Chemical Society and the
American Institute of Chemical Engineers

Government/Industry Sponsorship of University Research

Tuesday — March 30, 1982

Convention Center
Las Vegas, Nevada

Chairmen: S. Allen Heininger
V.P. Corp. Plans & Bus. Dev.
Monsanto Company

C. Judson King
Dean, College of Chemistry
Univ. of Ca. at Berkeley

I. THE CHANGING ROLE OF GOVERNMENT IN R&D FUNDING

9:00 AM

- NSF Support of University Research
D. N. Langenberg, Deputy Director, NSF
- Support of University Research by DOE
J. S. Kane, Deputy Director, Office of Research, DOE

II. NEW APPROACHES TO INCREASED INDUSTRY FUNDING

- Initiatives from the Professional Societies: The ACS View
R. G. Smerko, Dept. of Public Affairs
R. W. Parry, President-elect, ACS
- Initiatives from the Professional Societies: The AIChE View
W. H. Corcoran, Institute Professor, Div. of Chem. & Chem. Engr. California Inst. of Tech., former AIChE president
- Some University/Industry Initiatives at Exxon
P. J. Lucchesi, V.P. for Corp. Research, Exxon Research & Eng. Co.
- Joint Industry/University Initiatives: The Council for Chemical Research
A. L. Kwiram, Chairman, Dept. of Chemistry, University of Washington

III. IMPLICATIONS OF GREATER INDUSTRIAL INVOLVEMENT IN UNIVERSITY RESEARCH

- Pragmatic Implications of Greater Industrial Involvement in University Research
R. B. Park, The Vice Chancellor, University of Ca. at Berkeley
- University Issues: Benefits, Expectations, Concerns
N. Hackerman, President, Rice University
- An Industrial Outlook
H. D. Doan, Doan Resources Corporation
Director & Former President, The Dow Chemical Company

DISCUSSION PERIOD AND SPEAKERS RECEPTION (5:00 PM)

This important symposium is open to all who are interested in the vital and changing area. Contact the ACS, 1-202-872-4600 for details about one-day admission for non-ACS members.

POSITIONS OPEN

FACULTY POSITION BIOCHEMISTRY

The Medical College of Wisconsin, Department of Biochemistry, is seeking candidates (Ph.D. or M.D.) for a tenure-track assistant professor position. Although applicants with outstanding potential in all areas of biochemical research will be considered, candidates with research interests and experience in areas of neuro- or immunochemistry are preferred. The individual should be prepared to establish an active research program and to participate in the teaching activities of the departments. Submit curriculum vitae, including a brief summary of research interests, and names of three references by 1 June 1982 to:

Dr. Bettie Sue Masters, Chairman
Department of Biochemistry
MEDICAL COLLEGE OF WISCONSIN
8701 Watertown Plank Road
Milwaukee, Wis. 53226

The Medical College of Wisconsin is an Affirmative Action Employer and welcomes applications from all qualified individuals.

PLANT COMMUNITY ECOLOGIST. The Pennsylvania State University, Department of Biology, is seeking applicants for a tenure-track, assistant professor-level position, starting 1 September 1982. The candidate chosen will be expected to develop a strong research program, train graduate students, and participate in graduate and undergraduate teaching. Ph.D. required. Postdoctoral experience desirable. Applications accepted until 1 May 1982 or until a suitable candidate is found. Send curriculum vitae, statement of research interests, and three letters of reference to: Search Committee, Box 8, Department of Biology, 208 Mueller Building, The Pennsylvania State University, University Park, Pa. 16802.

An Equal Opportunity/Affirmative Action Employer

POSTDOCTORAL POSITION IN NEUROEMBRYOLOGY. Project involves the study of synapse formation in the chick auditory system. Focus is on experimental morphogenesis and tissue interactions involving microsurgical transplantation and organotypic culturing experiments. The approach is interdisciplinary and possibilities for electrophysiological and biochemical studies exist. Strong background in neurobiology required. Contact: D. K. Morest, Department of Anatomy, University of Connecticut Health Center, Farmington, Conn. 06032. *Equal Opportunity/Affirmative Action Employer.*

POSTDOCTORAL POSITION available immediately for pharmacology or biochemistry Ph.D. to study cyclic nucleotide and prostaglandin metabolism in the CNS and cultured neuronal cells. Send letter describing research interests, curriculum vitae, and two letters of reference to: Dr. A. C. Howlett, Department of Pharmacology, St. Louis University Medical Center, 1402 South Grand, St. Louis, Mo. 63104. *An Equal Opportunity/Affirmative Action Employer, M/F/H.*

POSTDOCTORAL POSITION

Position available for individual interested in areas of gene structure and regulation or molecular mechanisms of site-specific recombination: previous experience with, or desire to learn, DNA cloning, nucleic acid biochemistry, genetics, or in vitro systems. Please send résumé with desired starting date and list of three references to: Arthur Landy, Division of Biology and Medicine, Brown University, Providence, R.I. 02912. *An Equal Opportunity/Affirmative Action Employer.*

RESEARCH ASSOCIATE to study structure-function relationships underlying auditory signal processing using intra- and extracellular recording and light and electron microscope techniques. Collaborative opportunities exist in the areas of neuroanatomy, neurochemistry, and developmental neurobiology. Candidates should have a strong background in the neurosciences. Experience in synaptic physiology and/or computer programming is preferred but not necessary. Send curriculum vitae and names of three references to: Dr. S. Kuwada, Department of Anatomy, University of Connecticut Health Center, Farmington, Conn. 06032. *An Affirmative Action/Equal Opportunity Employer, M/W/H.*

POSITIONS OPEN

POSTDOCTORAL POSITION at Massachusetts Institute of Technology (MIT)

Individual will work on the development of novel, immobilized enzyme systems to remove potentially toxic chemicals, such as heparin, in extracorporeal therapy. Chemical and animal studies will be conducted. Candidates should have a Ph.D. or M.D. degree. A background in biochemical engineering, chemical engineering, biology, or chemistry is desirable. Submit résumé to:

Professor Robert S. Langer
MIT—E25-342
77 Massachusetts Avenue
Cambridge, Mass. 02139
(Reference Job Number C053)

MIT is an Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL POSITION at Massachusetts Institute of Technology (MIT)

Individual will work on synthesizing a new class of bioerodible polymers for drug delivery. A Ph.D. is required, while a background in polymer chemistry, organic chemistry, or materials science is desirable. Submit résumé to:

Professor Robert S. Langer
MIT—E25-342
77 Massachusetts Avenue
Cambridge, Mass. 02139
(Reference Job Number C054)

MIT is an Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL POSITIONS available immediately to study regeneration of maize, wheat, and soybeans from cell and tissue cultures. Background in cell culture, biochemistry, and plant science required. Interested applicants send curriculum vitae, transcripts, and names of three references to: Dr. Thomas K. Hodges, Department of Botany and Plant Pathology, Purdue University, West Lafayette, Indiana 47907. *Affirmative Action/Equal Opportunity Employer.*

POSTDOCTORAL POSITIONS available for candidates with background and training in molecular biology to study control of gene expression in mammalian epidermis and hair root cells with specific emphasis upon keratin and keratinization in health and disease. Salary dependent upon experience. Send curriculum vitae and names of three references to: Dr. Irwin M. Freedberg, Chairman, Department of Dermatology, New York University Medical Center, 550 First Avenue, New York, N.Y. 10016.

TWO POSTDOCTORAL POSITIONS available for participation in active research program in molecular biology of mammalian gametogenesis and fertilization. Creative ideas as well as experience in biochemical, immunochemical, and tissue culture methods are welcome. Send curriculum vitae and names of references to: Dr. Toby C. Rodman, Department of Anatomy, Cornell University Medical College, New York, N.Y. 10021.

An Equal Opportunity/Affirmative Action Employer

POSTDOCTORAL POSITIONS in oncology available immediately in NCI-supported multidisciplinary training program. Research opportunities in molecular and cancer cell biology, chemical carcinogenesis, drug development, viral oncology, tumor immunology, chemotherapy, and adoptive immunotherapy. Outstanding candidates will be selected from recent Ph.D.'s with training in basic medical sciences or recent M.D.'s who wish to develop a career in cancer research. Trainees must be U.S. citizens or permanent residents. Candidates may apply by submitting their curriculum vitae, including academic achievements, publications, references, and career goals. Write to: Dr. Sheldon Dray, Program Director, Department of Microbiology/Immunology, University of Illinois Medical Center, P.O. Box 6998, Chicago, Ill. 60680.

POSTDOCTORAL RESEARCH ASSOCIATE position available for an organic chemist to carry out mechanistic studies on the decomposition of N-nitroso compounds under physiological type conditions. Experience in organic synthesis, spectroscopic instrumentation, and reaction mechanisms is essential. Ph.D. in organic chemistry with at least 2 years of postdoctoral experience is required; \$16,000 per year. Send résumé to: G. Jacobs, Nebraska Job Service, 5404 Cedar, Omaha, Neb. 68106. *Ad paid by an Affirmative Action/Equal Opportunity Employer.*

INVITATION OF NOMINATIONS FOR THE KUWAIT FOUNDATION FOR THE ADVANCEMENT OF SCIENCES ANNUAL PRIZES

The KFAS Prizes were institutionalized to recognize distinguished accomplishments in the arts, humanities and sciences. KFAS Prizes are awarded annually in the following categories:

- A. Basic Sciences
- B. Applied Sciences
- C. Arabic and Islamic Culture
- D. Arts and Letters
- E. Economics and Social Sciences

The prizes for 1982 will be awarded in the following fields:

- A. Mathematics
- B. Environmental Applied Sciences
- C. Arabic Astronomy
- D. Short Story
- E. Human Resources Development in the Arab World

Background

1. Nominations for these prizes are accepted from academic and scientific centers, learned societies, past recipients of the prizes and peers of the nominees. No nominations are accepted from political entities.
2. Two prizes are awarded in each category: a prize to recognize the output of a distinguished Arab and a prize to recognize the output of a distinguished Kuwaiti.
3. Each prize consists of a cash sum of K.D. 10,00 (U.S. dollar 36,000), a Gold Medal and a Certificate of Recognition.
4. Nominators must state clearly what distinguished work qualifies their candidate for consideration.
5. The results of KFAS findings regarding the selection of winners are final.
6. The papers submitted for nominations will not be returned regardless of the outcome.
7. Each winner is expected to deliver a lecture concerning the contribution for which he was awarded the prize. Nominations including complete curriculum vitae and updated list of publications by the candidate and four copies of each paper published should be addressed before October 31, 1982 to:

**Director General
Kuwait Foundation for the
Advancement of Sciences
Box 25263, Safat, Kuwait**

Journal Announcement

**National Cancer Institute
National Institutes of Health
Public Health Service
Department of Health and Human Services**

DIRECTOR, DIVISION OF CANCER TREATMENT National Cancer Institute

The National Cancer Institute (NCI), develops the overall national strategy against cancer, coordinates Federal Government and non-Federal Government cancer programs, and supports international programs of cancer research. The Institute's efforts cover the spectrum of basic, applied, and developmental research. It encompasses the research thrusts of cause and prevention of cancer, detection and diagnosis, treatment and rehabilitation, and cancer biology. It also encompasses control interventions in prevention; detection, diagnosis, and pretreatment evaluation; and treatment, rehabilitation continuing care.

As Director of the Division of Cancer Treatment, the incumbent will be responsible for directing the NCI's major research effort related to the treatment of cancer. The Division encompasses programs for intramural laboratory research. The Division also is responsible for extramural (grants, contracts and cooperative agreements) activities related to its mission. It is anticipated that the Division will have a budget of approximately \$275 million and approximately 473 full-time permanent personnel in fiscal year 1982.

This is a Civil Service position in the Senior Executive Service (SES), with a salary range from \$54,755 to \$61,300 (currently limited to \$58,500 per annum.) Candidates may be eligible for Physician's Comparability Pay up to \$10,000 per year. The individual selected, if not presently in the SES, must serve a one-year probationary period. (Alternately, candidates may be eligible for appointment in the Commissioned Corps of the U.S. Public Health Service.)

The mandatory professional/technical qualifications for the position require that candidates: (1) meet the minimum educational requirements for Medical Officer, GS-602, or Health Scientist, GS-601, or equivalent combination of experience and training, as defined by the U.S. Office of Personnel Management Handbook X-118 (Qualifications Standards for Positions under the General Schedule) which is available in Federal personnel offices; and (2) have research experience and knowledge of research programs in one or more areas related to the treatment of cancer. The managerial/executive qualifications are: experience in the leadership/management of a research program, demonstrating competence to assume leadership responsibilities in: (1) assuring that national and agency goals and priorities are considered in carrying out the functions and responsibilities of the organization; (2) establishing and maintaining relationships with key individuals and groups outside the organization; (3) directing and guiding programs and projects, including long-term and short-term planning and establishing objectives and priorities; (4) establishing procedures for the development and defense of the organization's budget, and allocating fiscal and personnel resources to support program implementation; (5) developing and implementing procedures for monitoring program performance, including periodic analysis and evaluation; and (6) developing processes and overseeing activities to implement EEO objectives and to assure the fair and equitable employment of qualified persons.

Candidates who meet the mandatory requirements will be evaluated by the Search Committee on the following factors: scientific reputation/peer recognition; training and education; and honors and awards, and the degree to which they exceed the minimally qualified level of the mandatory professional/technical and managerial/executive qualifications. Additional information may be obtained from Ms. Dreama Chapman, Supervisory Personnel Management Specialist, NCI, (301) 496-6862.

Applications (Personal Qualifications Statement, SF-171) are to be sent to the above individual at this address: **National Cancer Institute, Building 31, Room 3A34, Bethesda, Maryland 20205.** A current curriculum vitae and bibliography must accompany all applications. Applications of women and/or minority group members are especially solicited.

The National Institutes of Health is an EQUAL OPPORTUNITY EMPLOYER.

Applications must be postmarked no later than March 31, 1982.

POSITIONS OPEN

POSTDOCTORAL RESEARCH ASSOCIATE. Applications are invited from persons with expertise in cell biology, biochemistry, or carbohydrate chemistry. Areas of interest include (i) synthesis, distribution, and properties of surface-associated glycosaminoglycans and proteins as a function of oncogenic transformation; (ii) role of extracellular matrix components in the altered adhesive properties of transformed cells; (iii) analysis of cell surface properties by flow cytometry; and (iv) chemical transformation of cells.

Send curriculum vitae and three letters of recommendation to: **Dr. Susan P. Hawkes, Michigan Molecular Institute, 1910 West St. Andrews Road, Midland, Mich. 48640.** An Equal Opportunity Employer.

APPOINTMENT IN RESEARCH ON CLIMATOLOGY AND AIR-SEA INTERACTIONS

A joint appointment is available at the Jet Propulsion Laboratory (JPL) and Scripps Institution of Oceanography (SIO) for research on climatology and air-sea interactions. At SIO, the appointment will be as adjunct professor, the level depending upon ability. At JPL, the appointment will be to the research staff with comparable rank. The appointee will have responsibilities at both institutions, including teaching and supervising graduate students at SIO. Applicants should have a strong background at the Ph.D. level in a relevant field, such as applied mathematics, physics, chemistry, meteorology, or physical oceanography. The successful applicant will have excellent research potential, the ability to interact effectively with JPL and SIO scientists, and the ability to advise JPL and NASA management on programs in their area. Compensation is negotiable. Inquiries should be sent to either of the following: **Dr. M. T. Chahine, Jet Propulsion Laboratory, 183-335, 4800 Oak Grove Drive (Department H17), Pasadena, Calif. 91103; telephone: 213-354-2433; or Professor R. C. J. Somerville, Scripps Institution of Oceanography, A-024, University of California, San Diego, La Jolla, Calif. 92093; telephone: 714-452-4644.**

Equal Opportunity/Affirmative Action Employer

POSITIONS OPEN

POSTDOCTORAL RESEARCH ASSOCIATE position available immediately for studies on the regulation of catecholamine synthesis. Research is currently focused on the control of tyrosine hydroxylase activity in the superior cervical ganglion, in adrenal medullary chromaffin cells, and in pheochromocytoma cells maintained in tissue culture. Candidates should have a Ph.D. or M.D. and a background and interest in endocrinology, neurochemistry, and/or the regulation of metabolism. Send curriculum vitae and names of three references to: **Dr. Robert T. Perlman, Head, Department of Physiology and Biophysics, University of Illinois College of Medicine, P.O. Box 6998, Chicago, Ill. 60680.** Applications should be received by 15 April 1982. *The University of Illinois is an Equal Opportunity/Affirmative Action Employer.*

RESEARCH ASSOCIATE position for recent Ph.D. in **BIOCHEMISTRY** is available for a minimum of 2 years after 1 April 1982 to study molecular aspects of liver fibrosis in schistosomiasis. Background in protein chemistry and an interest in advanced training in collagen chemistry is desired. Salary follows NIH guidelines. Send curriculum vitae and three letters of reference to: **Dr. David J. Wyler, Division of Geographic Medicine, Tufts University School of Medicine, 136 Harrison Avenue, Boston, Mass. 02111.** Equal Opportunity/Affirmative Action Employer.

The Sidney Farber Cancer Institute and the Harvard Medical School are seeking to fill one **RESEARCH POSITION** at the assistant professor level. Candidates should be prepared to develop independent research programs that apply current refinements of molecular biology to define genetic mechanisms that control proteins secreted by specialized eukaryotic cells. We are particularly interested in candidates using cellular material from inbred mouse strains for this research. Applicants should send curriculum vitae and bibliography, including a short description of research interests and the names of three references, to: **Ellen Boley, SIDNEY FARBER CANCER INSTITUTE, Room 1020-B, 44 Binney Street, Boston, Mass. 02115.** An Affirmative Action/Equal Opportunity Employer.

POSITIONS OPEN

POSTDOCTORAL SCHOLAR/FELLOW. Postdoctoral research position available for studies of lung glycoprotein structure, biosynthesis, regulation, and function. Experience in glycoprotein biochemistry desirable. Send qualifications and references to: **Dr. Eugene A. Davidson, Professor and Chairman of Biological Chemistry, The Milton S. Eshelby Medical Center of The Pennsylvania State University, Hershey, Pa. 17033.** Equal Opportunity/Affirmative Action Employer.

A **POULTRY SCIENTIST** position is available in the Department of Animal Sciences located at Western Washington Research and Extension Center, Puyallup, Wash. This is a tenure-track research position and qualifications include a Ph.D. degree with emphasis in avian physiology. Research involving egg-shell formation and egg production is preferred. For job description and application information, write: **Dr. J. R. Carlson, Department of Animal Sciences, Washington State University, Pullman, Wash. 99164-6310.** Review of applications will begin 30 May 1982. *Washington State University is an Equal Opportunity/Affirmative Action Employer.*

RESEARCH INSTRUCTOR—RESEARCH ASSISTANT PROFESSOR to participate in research on structure-function relationships of enzymes. The prospective candidate should have a recent Ph.D. in biochemistry or molecular biology or chemistry. Starting salary: \$14,000 to \$20,000 per year, depending on prior experience. Send curriculum vitae to: **Director, Bioenergetics Laboratory, Acheson Hall, State University of New York at Buffalo, Buffalo, N.Y. 14214.** An Equal Opportunity/Affirmative Action Employer.

RESEARCH PHYSIOLOGIST—Faculty position in Department of Medicine. Experienced in the areas of muscle physiology, pulmonary circulation, and neurochemical control of respiration. Submit curriculum vitae, bibliography, and names of three references to: **Neil S. Cherniack, M.D., Pulmonary Division, University Hospitals, 2074 Abington Road, Cleveland, Ohio 44106.**

ANNOUNCEMENT

NATIONAL EYE INSTITUTE FELLOWSHIP PROGRAM IN BIOMETRY AND EPIDEMIOLOGY

The Office of Biometry and Epidemiology, National Eye Institute, in Bethesda, Maryland, offers a two-year fellowship in biometry and epidemiology for candidates who have completed an accredited 3-year ophthalmology residency program. Salary will range from 30 thousand to 35 thousand and will be commensurate with the level of training and experience. Candidates must be U.S. citizens or resident aliens who would be eligible for citizenship within four years.

The fellowship includes participation in the planning, protocol development, conduct, data analysis, and scientific monitoring of single- and multi-center clinical trials and other epidemiological studies. The program also provides for study through postgraduate courses and seminars, in a) the general principles of research, b) the methodology of clinical trials, c) basic statistics, d) the principles and practice of epidemiology, and e) introduction to the use of computers. About 70-80% of the time is spent obtaining practical experience in clinical trials and epidemiologic research with the other 20-30% allocated to the study program.

Interested persons should contact **Karen Wright, NEI Personnel Office, Bldg. 31, Room 6A23, 9000 Rockville Pike, Bethesda, Maryland 20205** to receive application forms and instructions. **Phone (301) 496-4274 for further information.**



EQUAL EMPLOYMENT OPPORTUNITY

MYRON A. BANTRELL POSTDOCTORAL FELLOWSHIPS FOR SCIENTIFIC AND ENGINEERING RESEARCH

The California Institute of Technology, Massachusetts Institute of Technology, and The Weizmann Institute of Science (Israel) will award a number of Bantrell Fellowships for postdoctoral study for the academic year 1982-1983, beginning 1 September 1982.

The fellowship will be granted for 1 year and will be extended for an additional year upon recommendation of the host institution. In recognition of outstanding academic achievements, the fellowship may be extended, to those fellows who have been abroad, for a third year of study in the fellow's home country (Israeli citizens shall be eligible for such a third-year fellowship only at the Weizmann Institute), thus enabling the fellow to select a position in research or industry.

According to the local practice at the host institution, this fellowship may include a generous stipend for the fellow, a travel allowance (one round-trip for the fellow) to the host institution, travel to scientific conferences, and health and life insurance. The program is restricted to citizens of Israel and the United States. U.S. citizens must be less than 30 years of age, and preference will be given to Israeli citizens.

The Bantrell Fellowship Program has been established to offer scientists the best possible opportunity to develop their talents. Fellowships will be granted in the following fields:

California Institute of Technology: Biology, chemical catalysis, earthquake seismology, microscience of materials (applied physics), theoretical physics, astrophysics, and optical astronomy.

Massachusetts Institute of Technology: Computer logic, energy conversion, mechanics of fluids, molecular biology of higher organisms, neurosciences, and surface science.

The Weizmann Institute of Science: Chemistry, life sciences, physics, and the study and development of national resources of Israel.

Application and materials in support of any nomination should include curriculum vitae, bibliography of publications, preprints of manuscripts not yet published, a letter of nomination from the dean or chair in the candidate's university, and two letters of recommendation from faculty who are familiar with the candidate's research. Notification will be mailed by 30 June 1982.

Applications should be sent to the appropriate institution and should arrive by 1 May 1982. Mail to:

Lea C. Sterrett
Assistant Provost
California Institute of Technology
Pasadena, California 91125

Kenneth A. Smith
Associate Provost and Vice President for Research
Massachusetts Institute of Technology
Cambridge, Massachusetts 02139

Professor Shmuel Shaltiel
Dean, Feinberg Graduate School
The Weizmann Institute of Science
Rehovot, Israel 76100

Center in Motion

Faculty position in
Developmental Biology
Department of Anatomy
University of Massachusetts
Medical School

Tenure track appointment in mammalian developmental biology at the assistant, associate, or full professor level available July 1, 1982. Applicants should have the Ph. D. degree, postdoctoral training in basic research, and substantial experience in teaching. Preference given to candidates with demonstrated strength in research. Teaching responsibilities in the programs for first-year medical and graduate students include coverage of fundamental aspects of cell growth and differentiation, tissue interactions, as well as early mammalian development through organogenesis and portions of the course in cell and tissue structure.

Applicants should send a curriculum vitae, description of research program, names of three references to: Dr. Helen A. Padykula, Chairman, Department of Anatomy.



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An excellent career opportunity is available in our Drug Metabolism Department for an individual with a PhD or equivalent in Analytical Chemistry or a related field. Qualified candidates should have 0 to 3 years experience with expertise in the analysis of biological samples for drugs and metabolites. The professional will develop analytical methods; design and conduct preclinical and clinical metabolism studies; write protocols, technical reports and manuscripts; and supervise laboratory personnel.

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AUSTRALIAN CENTRE FOR INTERNATIONAL
AGRICULTURAL RESEARCH
CANBERRA, AUSTRALIA

The Australian Government is expected to enact legislation early in 1982 to establish the Australian Centre for International Agricultural Research (ACIAR) as a statutory authority and create the position of its director. The Centre will be responsible for identifying priority agricultural and related research needs in developing country regions, developing proposals to meet those needs, and mobilising and expanding Australian and developing country capacity to implement approved programs for research. The Centre will not engage in research activities itself. It will be charged with contracting research work to existing Australian institutions in the field of agriculture and related disciplines.

The Centre will have a Policy Advisory Council representative of developed and developing country expertise and a Board of Management which will be responsible to the Minister for Foreign Affairs for the conduct of the affairs of the Centre.

The director will, subject to the direction of the Board of Management, manage the affairs of the Centre, assisted by a secretariat of high professional quality.

Qualifications and Experience

The director will have research experience of international standing in an appropriate field of agriculture or related disciplines. He/she will have superior management skills and substantial experience in policy formulation and development, program development and evaluation, and the conduct of research programs. Sound knowledge of the Australian research system in agriculture and related disciplines and a working knowledge of agricultural research needs and systems in developing countries (including national, regional, and international systems) are considered essential. Experience in the requirements and problems of conducting research programs in developing countries would be an advantage.

Salary and Conditions

A\$49,100 plus allowances of A\$1,525 per annum for expenses of office. Conditions of service include 4 weeks' annual leave plus leave loading and membership of a superannuation fund. Removal and relocation expenses may be borne by the Centre. The successful applicant will be appointed for up to 7 years.

Persons seeking further information are invited to contact: Dr. Gabrielle Persley in Canberra, telephone: (062) 48 6644.

Applications with curriculum vitae and names and addresses of two referees should be forwarded to: Chairman, Interim Board of Management, ACIAR, P.O. Box 887, Canberra City, ACT 2601, Australia, no later than 23 April 1982.

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POSITIONS OPEN

RESEARCH ASSISTANT PROFESSOR OF CELL BIOLOGY

Nontenure-track position available 1 September 1982 with teaching responsibilities in cell biology, histology, and immunology. Applicants should have a Ph.D. or M.D. degree and at least 4 years of postdoctoral experience. Areas of research interest and prior experience should be transplantation immunology, with special emphasis on in vitro cellular analysis of neonatal transplantation tolerance, and contact hypersensitivity with special emphasis on the actions of pharmacologic agents. Send curriculum vitae and three letters of recommendation no later than 1 May 1982 to: J. W. Streilein, M.D., Department of Cell Biology, Southwestern Medical School, The University of Texas Health Science Center at Dallas, 5323 Harry Hines Boulevard, Dallas, Texas 75235. An Equal Opportunity/Affirmative Action Employer.

UNIVERSITY OF ALBERTA, Department of Biochemistry. Applications are invited for the position of **PROFESSIONAL RESEARCH ASSOCIATE**. This position, available on or about 1 July 1982, will involve basic research on the roles of lipids in biomembranes, especially physical (calorimetric and NMR) studies of lipid phase behavior and lipid molecular dynamics and orientation, lipid-protein interactions in model and biological membranes, and lipid modulation of the activity of membrane-bound enzymes. Candidates should possess the Ph.D. degree in biochemistry, biophysics, or a related area and at least 2 years of appropriate postdoctoral experience. Salary will start at \$19,400 per annum for someone with 2 years of postdoctoral training, increasing by \$1200 for each additional year of experience. *The University of Alberta is an Equal Opportunity Employer*, but in accordance with Canadian government immigration regulations, this ad is directed to Canadian citizens and permanent residents. Applications, including detailed curriculum vitae and the names of three references, should be sent to: Dr. R. N. McElhaney, Department of Biochemistry, University of Alberta, Edmonton, Alberta, Canada T6G 2H7.

RESEARCH FELLOW OR RESEARCH ASSOCIATE to participate in a team effort and have major responsibility for the isolation and protein sequence analysis of human antihemophilic factor. Position available immediately. Applicant must be a citizen or be a permanent resident. Salary: \$20,000 to \$22,500, depending on experience. Send inquiries to: Dr. Bernard Horowitz, Director of Blood Products, NEW YORK BLOOD CENTER, 310 East 67 Street, New York, N.Y. 10021. *An Equal Opportunity Employer.*

COURSE

COURSE

ELECTRON MICROSCOPY. For those desiring to use TEM in biological research, the course provides practical training in specimen preparation, ultramicrotomy, use/maintenance of Zeiss 9 S-2 and 109 EM's, darkroom procedures, and micrograph interpretation. Certificate/graduate credit awarded. Date: 6 to 23 July. Tuition: \$525. Contact: Dr. Dan Scheirer, Department of Biology, Northeastern University, Boston, Mass. 02115. Telephone: 617-437-2260, 3075.

CONFERENCE

CRYO '82 SOCIETY FOR CRYOBIOLOGY UNIVERSITY OF HOUSTON 28 JUNE to 1 JULY

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- IV. Cryomicroscopy: (Observation and Analysis)

Dr. John G. Baust
Conference Chairman
Department of Biology
University of Houston
Houston, Texas 77004
Telephone: 713-749-1752

CALL FOR PAPERS—Abstracts due 15 April.

GRADUATE STUDY

GRADUATE STUDIES IN BIOMEDICAL SCIENCES EASTERN VIRGINIA MEDICAL SCHOOL (EVMS)/OLD DOMINION UNIVERSITY (ODU)

The Eastern Virginia Medical School participates in the Biomedical Sciences Program of EVMS/ODU by offering interdisciplinary study leading to the Ph.D. in the following areas: cancer biology, immunology, cardiovascular and infectious diseases, cellular endocrinology, neurosciences, and general biomedical sciences. Course work and research opportunities offer breadth in basic biomedical sciences and depth in interdisciplinary dissertation research. Faculty from the medical school and university departments participate in teaching and research direction. Fellowships and waivers of tuition are available and based upon credentials. For further information, please contact: **Biomedical Sciences Program, Eastern Virginia Medical School, Box 1980, Norfolk, Virginia 23501.**

DOCTORAL PROGRAM

DOCTORAL PROGRAM

Graduate programs leading to the Ph.D. degree are available in the morphological, biochemical, and physiological aspects of the neurosciences and molecular, cellular, developmental, or reproductive biology. Modern, well-equipped research laboratories together with 22 full-time faculty members provide excellent opportunities for training in the basic sciences. Stipends and full tuition remission are available for qualified applicants. For further information, please contact: **Dr. Harry G. Goshgarian, Department of Anatomy, Wayne State University, School of Medicine, 540 East Canfield Avenue, Detroit, Michigan 48201.**

FELLOWSHIPS

THE UNIVERSITY OF BRITISH COLUMBIA Department of Zoology

Applications are invited for NSERC University Research Fellowship positions. Preference for applicants with interest in cell and developmental biology or terrestrial ecology, but other fields of interest also open. Positions, available 1 September 1983, will involve some teaching responsibilities appropriate for the specialization of the appointees. Salary equivalent to assistant professor level, 1982-1983 base: \$27,000. Submit complete curriculum vitae with names of three referees and reprints by 30 June 1982 to: **Dr. G. G. E. Scudder, Head, Department of Zoology, University of British Columbia, Vancouver, British Columbia, Canada V6T 2A9.**

The University is an Equal Opportunity Employer but, in accordance with Canadian immigration and NSERC requirements, this advertisement is directed to Canadian citizens and permanent residents.

POSTDOCTORAL FELLOWSHIPS AT THE WAKSMAN INSTITUTE OF MICROBIOLOGY RUTGERS UNIVERSITY

Positions will be available in the laboratories of the following investigators for the 1982-1983 academic year:

- Dr. Sewell P. Champe (genetics of fungal development)
- Dr. Kiu Leung (tumor immunology)
- Dr. Lloyd E. McDaniel (microbial fermentation)
- Dr. Otto J. Plescia (mechanisms of tumor immunity)
- Dr. David Pramer (microbial ecology)
- Dr. Carl A. Price (molecular biology of plastids)
- Dr. Carl P. Schaffner (chemistry of cholesterol epoxidation)
- Dr. Lee D. Simon (protein degradation and phage morphogenesis)
- Dr. Robert W. Simpson (molecular biology of RNA viruses)
- Dr. Navin K. Sinha (mechanisms of DNA replication and mutation)

Stipends: \$16,000 per year, plus fringe benefits and travel support, renewable for a second year at \$17,000. Awards are made on a competitive basis.

For further information, contact the individual in area of interest at: **Waksman Institute of Microbiology, Rutgers University, P.O. Box 759, Piscataway, New Jersey 08854.**

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FELLOWSHIPS

HARVARD SCHOOL OF PUBLIC HEALTH POSTDOCTORAL FELLOWSHIPS



Interdisciplinary Programs in Health (IPH) invites applications from promising graduates of advanced degree programs in the natural or social sciences interested in turning to research in environmental health and public policy. The program focuses on the scientific and analytical foundations for environmental decision-making.

Fellows will be appointed for terms of 1 or 2 years, possibly renewable. Deadline for applications is 15 April 1982. Decisions will be announced in May.

For information, write to:

Professor Donald F. Hornig
Director, IPH
Harvard School of Public Health
665 Huntington Avenue
Boston, Massachusetts 02115

POSTDOCTORAL RESEARCH TRAINING FELLOWSHIPS

Fellowships available to residents of North America with Ph.D. or M.D. and less than 1 year of postdoctoral laboratory experience for beginning training in basic biomedical research. Three-year award includes annual stipend of \$15,000, \$1,000 per annum research allowance, travel to fellowship location, and annual meeting. Application deadline: 15 August; fellowships activate following July. For application forms, write: **The Helen Hay Whitney Foundation, 450 East 63 Street, New York, N.Y. 10021.**

GRADUATE FELLOWSHIP IN CELLULAR OR DEVELOPMENTAL BIOLOGY. Applications and nominations are invited for a graduate fellowship in the Department of Cellular and Developmental Biology. The stipend is \$8000 per year, renewable for 3 years. Areas of research being pursued include somatic cell genetics, microbial genetics, molecular virology, electron crystallography, cellular ultrastructure, toxicology, plant biology, molecular biology of DNA repair, aging, and neurobiology. For information, write to: **Graduate Committee, Department of Cellular and Developmental Biology, University of Arizona, Tucson, Ariz. 85721.** Teaching and research assistantships are also available to qualified applicants. *Equal Opportunity/Affirmative Action Employer.*

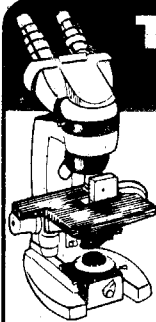
POSTDOCTORAL FELLOWSHIP

Psychophysical and physiological optics. Two-year fellowship beginning July 1982 or later. Postdoctoral training in color vision and assessment of vision in clinical population. Send curriculum vitae and supporting material to:

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Ph.D., Molecular Genetics and Cell Biology B.S./M.S., Molecular and Cell Biology

The Division of Molecular and Cell Biology, Lilly Research Laboratories, is seeking applicants for Senior (Ph.D.) and Associate (B.S./M.S.) level positions in Molecular Genetics and Cell Biology. Candidates for senior positions should have at least one year of postdoctoral training in the molecular genetics research field.

1. *Senior Molecular Geneticist* to carry out fundamental research on the genetics and regulation in the prokaryotic genera, *Streptomyces* and *Bacillus*. Applicants should have extensive knowledge and research experience in various aspects of microbial genetics and recombinant DNA techniques. Candidates for the position in *Streptomyces* molecular genetics should have extensive experience working with bacteriophage systems.
2. *Senior Molecular Geneticist* to carry out fundamental studies on regulation of heterologous gene expression in *Saccharomyces cerevisiae*. Candidates should have extensive knowledge of yeast genetics and experience in recombinant DNA techniques.
3. *Senior Molecular Biologists* to carry out fundamental studies on plant molecular biology. Candidates should have knowledge and experience in plant genetics, tissue culture, and molecular biology.
4. *Associate Molecular and Cell Biologists* to work with senior scientists on pharmaceutical and agricultural applications of molecular genetics. Candidates are sought who have a B.S. or M.S. degree with some research experience in one of the following:

- A. prokaryotic molecular biology
- B. eukaryotic molecular biology
- C. molecular virology

Please submit résumé or direct inquiries to:

Roger D. Miller
Senior Personnel Representative
Lilly Research Laboratories
307 East McCarty Street
Indianapolis, Indiana 46285



An Equal Opportunity
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Ph.D. Senior Immunologist and B.S./M.S. Associate Level Immunologist

The Immunology Research Department of the Lilly Research Laboratories has an immediate need for individuals to study cellular immunology and in vivo regulation of the immune response.

Senior Immunologist — To establish a program in regulation of the immune response in in vivo systems. The successful candidate is expected to have experience in studying regulation of the immune response to classical antigens, infectious agents, and/or tumors. This new laboratory will be expected to establish an independent basic research program in addition to the characterization of agents that augment or suppress the immune response. A significant record of achievement should be reflected in a productive bibliography. Postdoctoral experience is essential, and some academic experience is beneficial.

Associate Level Immunologist — To join an immunology laboratory currently involved in studying the mechanism of action of immunoregulatory agents, cellular immunology, and cytokines. Experience required.

Ph.D. Senior Pharmacologist and B.S./M.S. Associate Level Pharmacologist

The Connective Tissue and Pulmonary Research Department of the Lilly Research Laboratories has an immediate need for individuals to study airway smooth-muscle pharmacology in vitro and respiratory mechanics of laboratory animals in vivo.

Senior Pharmacologist — To establish a new independent program designed to examine the pharmacology and physiology of the respiratory system. The successful candidate should have broad experience in studying airway reactivity, including a thorough knowledge of the literature and the ability to carry out various in vivo and in vitro techniques. This new laboratory will be expected to conduct basic research studies in addition to the primary function of characterizing the action of bronchoactive agents. Postdoctoral experience is essential.

Associate Level Pharmacologist — To join a pharmacology laboratory currently involved in developing drugs useful in the treatment of asthma. Experience required.

Send résumé in confidence with salary requirement to:

Roger D. Miller
Senior Personnel Representative
Eli Lilly and Company
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