

POSITIONS OPEN

ACADEMIC POSITION

One immediate opening for a Ph.D. chemist, preferably in the area of analytical chemistry with research interest in biomedical applications. Duties include graduate and undergraduate teaching and establishing a vigorous research program. Rank open. This position has been created through a grant from the Minority Schools Biomedical Support Program of the National Institutes of Health. Successful applicants will be required to interact strongly with minority students in this program. Send résumé to: **Dr. Ralph G. Wilkins, Head, Department of Chemistry, Box 3C, New Mexico State University, Las Cruces, New Mexico 88003.** *New Mexico State University is an equal opportunity and affirmative action employer.*

ASSISTANT PROFESSOR

Applications are invited from qualified persons holding Ph.D. and/or M.D. degrees to fill a new position, preferably at the Assistant Professor level, in **GROSS AND MICROSCOPIC ANATOMY**, in the School of Basic Medical Sciences, Urbana-Champaign. Appropriate departmental predoctoral or postdoctoral training is essential.

The position will carry a joint appointment in one of the scientific departments on this campus. Teaching duties relate to curriculum development and supervision of medical student learning in an independent study program. Candidates must have demonstrated their capacity for original research as evidenced by publications of high quality.

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

Send applications, including curriculum vitae, publication list, important reprints, and at least three letters of recommendation to **Dr. Ray L. Watterson, Chairman, Search Committee, 515 Morrill Hall, University of Illinois, Urbana, Illinois 61801.**

ANIMAL PHYSIOLOGIST

Position at assistant or associate professor level available 13 January or 19 May 1975. Primary responsibility is in coordination of basic sciences instruction in **PHYSICIAN ASSISTANT** program. Secondary responsibility is undergraduate and/or graduate instruction in physiology. Ph.D. required, and teaching experience is desirable. Send applications to: **Dr. William Davies, Chairman, Section of Biological Sciences, Purdue University at Fort Wayne, Fort Wayne, Indiana 46805.** *Purdue University is an affirmative action/equal opportunity employer.*

ASSISTANT PROFESSOR OF ORGANIC CHEMISTRY

Position effective August 1975. Applicants should hold Ph.D. and have research interest and experience in kinetics, especially as applied to systems of pharmacological/toxicological import. Postdoctoral experience preferred. Responsibilities are in research and teaching at undergraduate and graduate levels. Send applications by 1 December 1974 to **Dr. A. James Diefenderfer, Chairman, Department of Chemistry, Old Dominion University, Norfolk, Va. 23508.** *Old Dominion University is an Equal Opportunity/Affirmative Action Employer.*

ASSISTANT PROFESSOR OF ANATOMY

A position will be open in this department for 1 July 1975 for an anatomist qualified at the assistant professor level to (i) assist in the teaching of gross anatomy or histology to medical or dental students and (ii) develop his or her independent research program in an area of current interest. Interested applicants should send a curriculum vitae, names of three references (letters not required), and a letter describing teaching and research interests along with any other pertinent information to **Dr. Duane Belt, Department of Anatomy, Tufts University Schools of Medicine and Dental Medicine, 136 Harrison Avenue, Boston, Mass. 02111.** *This University is an Equal Opportunity/Affirmative Action Employer.*

DEPARTMENT OF BIOLOGICAL SCIENCES UNIVERSITY OF CINCINNATI CINCINNATI, OHIO 45221

Applications are invited for a position at the Assistant Professor level starting September 1975. Areas of research are not specified but active research and participation in the Graduate Program (M.S. and Ph.D.) are expected. Applicants should be competent to teach an introductory course in immunology and an advanced course in an area of research specialty. Send curriculum vitae and three letters of reference to **Dr. Antony J. Mukkada, Chairman, Search Committee.**

The University of Cincinnati is an Equal Opportunity Employer with an Affirmative Action Program. Applications are invited from women and minority groups.

POSITIONS OPEN

ASSISTANT PROFESSOR

Ph.D. January or September 1975. \$14,000 to \$16,000 for 12 months. Clinical background with strong research commitment. Research 50 percent, teaching 50 percent, graduate training program or research on child and family psychopathology. Send curriculum vitae and materials to: **Lee C. Lee, Search, Department of Human Development and Family Studies, Cornell University, Ithaca, N.Y. 14853.** *An equal opportunity employer.*

ASSISTANT PROFESSOR OF BIOCHEMISTRY

Two faculty positions available for academic year 1975-76 each requiring expertise in one of the following areas: (i) Regulation of gene expression in bacteria or somatic cells, (ii) Physical approaches to macromolecular and supramolecular structure, Ph.D. or M.D. degree and at least 2 years of postdoctoral experience in a laboratory well known in one of these areas is required. There must be strong recommendations relative to research ability and teaching competence at the medical and graduate student as well as postdoctoral level. *Applications from women and minority groups welcomed.* Candidates should submit the following to: **Phillip Strittmatter, Department of Biochemistry, University of Connecticut Health Center, Farmington, Conn. 06032.** (i) Complete curriculum vitae and bibliography; (ii) two or more letters of recommendation; (iii) a brief description of future research interests, objectives, and experimental plan; (iv) if available, reprints of most significant work.

An Equal Opportunity Employer

BIOCHEMIST—Ph.D. or equivalent. Must have laboratory experience in vitamin D chemistry or action. To establish a vitamin D-focused laboratory program in conjunction with university calcium researchers. Position at Research Institute, The Hospital for Sick Children, Toronto, with faculty appointment in Department of Biochemistry, University of Toronto. Salary commensurate with experience and qualifications. Apply before 1 December, enclosing curriculum vitae and names of two referees, to **The Secretary, Research Institute, The Hospital for Sick Children, 555 University Avenue, Toronto, Ontario, M5G 1X8, Canada.**

BIOLOGISTS

Applications are invited for three research/teaching positions at the anticipated level of assistant professor: (i) **Animal Behaviorist**, (ii) **Community Ecologist** with expertise in quantitative methods, and (iii) **Invertebrate Zoologist, Neurophysiologist, or Biochemist.** Excellent research facilities are available; competitive salaries. Send curriculum vitae and names of three references to: **Dr. Gary T. Heberlein, Chairman, Biology Department, University of Missouri-St. Louis, 8001 Natural Bridge Road, St. Louis, Missouri 63121.**

An equal opportunity/affirmative action employer

Indiana University of Pennsylvania announces the following opening: **BIOLOGY DEPARTMENT**; Course: Team-taught General Biology. One semester (January to May 1975), temporary position. Experience in lecturing large groups of students and in team-teaching approach preferred. Field orientation desirable. Temporary academic rank: instructor or assistant professor. Salary commensurate with training and experience. Send applications, curriculum vitae, and three letters of reference to **Dr. Richard Waechter, Biology Department, Indiana University of Pennsylvania, Indiana, Pa. 15701,** by 1 December 1974.

Indiana University of Pennsylvania is committed to Affirmative Action to assure equal opportunity for all persons regardless of race, color, religion, national origin, ancestry, or sex.

Biologists

CELL BIOLOGY/BIOCHEMISTRY/ ELECTRON MICROSCOPY TECHNICIANS

Research firm in Washington, D.C., area has positions available for persons with experience in mammalian cell culture, virology, lipoprotein isolation, and analysis and electron microscopy. Salary commensurate with degree of experience and educational background. Interested individuals should send curriculum vitae, references, and salary requirements in complete confidence to:

**MELOY LABORATORIES, INC.
6715 Electronic Drive
Springfield, Virginia 22151
Attention: Code R30**

Equal Opportunity Employer, Male/Female

POSITIONS OPEN

BIOCHEMISTRY

Applications are invited for full-time biochemistry faculty positions at the level of assistant professor. A doctorate degree and postdoctoral experience are necessary. Applicants must have strong interests in both teaching and research. Positions available after January 1975. Send curriculum vitae, research interests, and three letters of recommendation to **Dr. Joseph G. Cory, Chairman, Department of Biochemistry, University of South Florida College of Medicine, Tampa, Florida 33620.**

An Equal Opportunity/Affirmative Action Employer

The Department of Botany wishes to hire a **MOLECULAR GENETICIST** to begin August 1975, with Ph.D. at the rank of Assistant Professor. Duties include teaching in a lower division biology course and an upper division course in the specialty, maintaining an active program of research, and the training of graduate students in genetics. Good laboratory facilities are available. There is opportunity for stimulating participation in an interdepartmental genetics program. Apply with curriculum vitae, transcripts, and have at least three references sent to **Chairman, Department of Botany, University of Iowa, Iowa City, Iowa 52242,** by 1 January 1975.

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

UNIVERSITY OF GUELPH (CANADA)

DEPARTMENT OF CHEMISTRY CHAIRMAN OF THE DEPARTMENT

Nominations and applications are invited for the position of Chairman of the Department of Chemistry.

The Department currently has 32 full-time faculty members and offers Honors B.Sc., and, in conjunction with the University of Waterloo, M.Sc., and Ph.D. programs in Chemistry.

The Chairman is expected to have an established record of research in chemistry or biochemistry and to encourage the development of the teaching and research programs of the Department. Duties to commence September 1975.

Inquiries and applications, with curriculum vitae and the names of three referees, should be sent by 15 December 1974 to

**Dean E. B. MacNaughton
College of Physical Science
University of Guelph
Guelph, Ontario, Canada N1G 2W1**

CYTOGENETICIST

A position as a Research Fellow or Research Associate is open for a cytogeneticist. Candidates should have demonstrated competence as an independent investigator in human cytogenetics. Applicants should send their curriculum vitae, reprints, and the names of two people qualified to assess their capabilities to: **Janet D. Rowley, M.D., Box 420, Department of Medicine, University of Chicago, 950 East 59 Street, Chicago, Illinois 60637.** *The University of Chicago is an Equal Opportunity Employer.*

CYTOTECHNOLOGIST

A position is open for a technologist with experience in human cytogenetics. Applicants should be familiar with the preparation of chromosomes in metaphase and with the identification of human chromosomes with the new banding techniques. Candidates should send a résumé of their experience and the names of two people qualified to assess their capabilities to: **Janet D. Rowley, M.D., Box 420, Department of Medicine, University of Chicago, 950 East 59 Street, Chicago, Illinois 60637.** *The University of Chicago is an Equal Opportunity Employer.*

DEAN OF ACADEMIC AFFAIRS

The Pennsylvania College of Optometry invites nominations and applications for the position of Dean of Academic Affairs. The Dean will be directly responsible to the President (others reporting to the President are the Dean of Student Affairs and a Vice President for Finance and Administration). Qualifications include an optometric background, additional graduate education, academic excellence in professional education, experience in administration of either educational programs or some form of health delivery system, concern with excellence in teaching and research, and flexibility of approach to the future of the profession of optometry. Curriculum vitae and nominations should be sent, by 1 January 1975, to **John B. Siegfried, Ph.D., Chairman, Dean Search Committee, Pennsylvania College of Optometry, 1200 West Godfrey Avenue, Philadelphia, Pennsylvania 19141.**

An Equal Opportunity Employer



ASSISTANT DEAN

School of Engineering and Applied Science
THE GEORGE WASHINGTON UNIVERSITY
Washington, D.C. 20006

The School of Engineering and Applied Science of The George Washington University seeks to fill the position of Assistant Dean. The School has approximately 1,500 graduate students, 350 undergraduates, and a full- and part-time faculty of 125; 92% of these full-time faculty hold Doctorates.

The administrative structure of the School consists of the Dean, Assistant Dean, and Department Chairmen of the following four academic departments: Civil, Mechanical and Environmental Engineering; Electrical Engineering and Computer Science; Engineering Administration; and Operations Research.

The School offers 49 undergraduate and graduate programs which lead to Bachelors, Masters, and Doctor of Science degrees. In addition, there is an extensive continuing engineering education program which annually offers more than 145 short courses (3 to 5 days' duration) for updating the technical information of practicing scientists, engineers, and other members of the technical community. The School also has a growing undergraduate cooperative program with 50 students currently participating.

Several large sponsored research programs are administered by the School, and conducted through its own research institutes, including the Institute for the Study of Fatigue, Fracture, and Structural Reliability; the Institute for Management Science and Engineering; and the Joint Institute for Acoustics and Flight Sciences, operated jointly with the NASA-Langley Research Center, Hampton, Virginia.

Duties include, but are not limited to: (1) recommend budget, faculty, and staff requirements; (2) act for the Dean of the School of Engineering and Applied Science; (3) coordinate activities of departments; (4) curricula management to reflect changing technology and to satisfy ECPD requirements; (5) administer off-campus and other special academic programs. The Assistant Dean will have the authority to initiate and implement decisions. Time for teaching and research will be provided. An earned doctorate in an appropriate field is preferred.

The University has an attractive urban campus in Washington, D.C., located six blocks west of the White House, and is an equal opportunity and affirmative action employer. Send resumes prior to December 31, 1974 to Professor D. Gross, Chairman, Assistant Dean Selection Committee, Department of Operations Research, School of Engineering and Applied Science, The George Washington University, Washington, D.C. 20006.

Other senior faculty positions available in: Engineering Administration; Civil Engineering (Environmental); Mechanical Engineering (Energy); Electrical Engineering (Computer Sciences). Send resume to Office of the Dean, School of Engineering and Applied Science, The George Washington University, Washington, D.C. 20006.

UCLA

University of California, Los Angeles, Department of Geology invites applications for two-year faculty appointments as assistant professor. A Ph.D. is required. Two faculty two-year positions will be available beginning September 1975. Applicants must have truly superior capabilities in one or more of the relevant basic physical or biological sciences. Two earth scientists will be selected from the three following general areas:

1) Those engaged in research in one or more of the fields (a) igneous or metamorphic petrology; (b) ore genesis; (c) experimental or theoretical geochemistry; (d) mineral physics. Examples of emphasis include thermodynamics of irreversible processes and chemical or thermal diffusion.

2) Those engaged in research in the areas of tectonophysics, geological physics, or structural geology. Of particular interest are: (a) solid-state aspects of microscopic phenomena-fracture and flow of rocks, diffusion, thermodynamics, and lattice dynamics; (b) global tectonics; (c) quantitative modeling of large or small scale processes.

3) Marine science, those engaged in research in organic geochemistry, ecology, or marine geology. Examples of emphasis include diagenesis of sediments, interstitial water, evolution, phycology (calcareous algae), invertebrate biology, and global tectonics.

Send vitae and two letters of reference to:

Clarence A. Hall, Chairman
Department of Geology
University of California, Los Angeles
Los Angeles, California 90024

Minority and ethnic earth scientists are encouraged to apply. UCLA is an affirmative-action/equal opportunity employer.

BIOSCIENTISTS

At the **LAWRENCE LIVERMORE LABORATORY**, in a rural community near San Francisco, the Biophysical Cytology Program is searching for scientists who have the ability to provide scientific direction and leadership to a research team. The Biophysical Cytology Program possesses a uniquely powerful assemblage of cytophotometric instruments, including a flow microfluorometer, electronic cell sorter, the CYDAC scanning cytophotometer and image analysis system, and a microspectrofluorometer and an integrating cytophotometer. The Program is concerned with the application of these instruments to fundamental studies in cytology, cytodiagnosis and cell biology as follows:

1. the development and exploitation, of quantitative cytochemical preparative and staining procedures appropriate for these instruments.
2. the use of the instruments for an in-depth investigation of the possibility of early cancer detection using the cytochemical properties of cells exfoliated from the human cervical-vaginal tract.
3. the study of tumor growth kinetics and cell cycle analysis with these new approaches.

The rewards for these projects will be in the successful application of the considerable resources of the Livermore Biophysical Program (personnel as well as instruments) to pressing practical problems of tumor biology and of cancer detection and therapy.

Candidates for these projects should be bioscientists of proven research ability with Ph.D./M.D. degree, appropriate postdoctoral training, and publications of quality. Experience in experimental pathology, cytology, or quantitative cytochemistry is desirable; but past experience is less important than future potential.

Applicants should send a resume, statement of career goals, bibliography and selected reprints to:

Sherry Mattson
Personnel Department
Lawrence
Livermore Laboratory
P.O. Box 808 (SC-114)
Livermore, CA 94550



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LAWRENCE LIVERMORE LABORATORY

POSTDOCTORAL RESEARCH

The National Research Council announces the Research Associateship Programs for 1975. The programs provide scientists and engineers opportunities for postdoctoral research on problems in the fields of CHEMISTRY—SPACE SCIENCES—PHYSICS—ATMOSPHERIC & EARTH SCIENCES—ENGINEERING—LIFE SCIENCES—MATHEMATICS and ENVIRONMENTAL SCIENCES.

Appointments are made on a competitive basis, and are tenable in selected federal research laboratories at more than 80 locations.

Appointments are open to recent recipients of the doctorate and in some cases to senior investigators. Some are open to non-U.S. citizens also.

Approximately 250 awards will be made in 1975. Stipends (subject to income tax) will range from \$15,000 upwards. Grants will be provided for family relocation and for professional travel during tenure.

Applications must be postmarked by 15 January 1975. Awards will be announced in April.

Information on specific research opportunities and application materials are available from

Associateship Office JH606—SC
NATIONAL RESEARCH COUNCIL
2101 Constitution Avenue, N.W.
Washington, D.C. 20418

DEAN OF FACULTY AND PROVOST

The John Jay College of Criminal Justice, City University of New York, invites applications for the position of Dean of Faculty and Provost. The college places particular emphasis on preparation for careers in criminal justice and public service. Earned doctorate, college teaching experience, publications, and academic administrative experience is essential. Some experience in criminal justice education desirable. Salary negotiable. Applications (including a résumé and a list of references) should be sent by 15 December 1974, to Ruth A. Lonsdale, Secretary to the Faculty Search Committee, John Jay College of Criminal Justice, 444 West 56 Street, New York, New York 10019.

An Equal Opportunity Employer

THE HORMEL INSTITUTE OF THE UNIVERSITY OF MINNESOTA invites applications from qualified individuals for the position of

EXECUTIVE DIRECTOR

of the Hormel Institute which is located in Austin, Minnesota. The Executive Director is responsible for overall administration of an institute with 80 to 90 employees, including 20 of whom have academic rank. Candidates for this position should be recognized authorities in the lipid field, and should have at least 12 years of research experience in the field. The director is expected to maintain an active research program. Closing date for receipt of all materials is 1 February 1975. Send curriculum vitae, a list of publications, and names of three referees to Dr. J. E. Gander, Chairman, Search Committee, Department of Biochemistry, University of Minnesota, St. Paul, Minn. 55108.

CELL BIOLOGIST

NORTHWESTERN UNIVERSITY

Full-time faculty position available for 1 September 1975 in the Department of Biological Sciences. Salary and academic rank (Instructor or Assistant Professor) to depend on qualifications. Applicants will be evaluated in terms of how research and teaching interests integrate with existing strengths in the department (development, physiology, endocrinology, or membrane biology). Send curriculum vitae and names of three referees to: James L. Oschman, Department of Biological Sciences, Northwestern University, Evanston, Illinois 60201.

Northwestern University is an Equal Opportunity Employer

HEAD

DEPARTMENT OF BIOLOGICAL SCIENCES UNIVERSITY OF CINCINNATI

Applications and nominations are invited for the position of Head of the Department of Biological Sciences. The department is one of the largest in this university having 23 faculty with major interests in Cell Biology, Ecology, Evolution and Systematics, Genetics, and Physiology. Another program in Developmental Biology is offered jointly with faculty from the College of Medicine. Approximately 100 undergraduate majors are graduated per year and 50 to 60 graduate students are enrolled in the department. The facilities housing the department were dedicated in 1970.

Qualifications: A distinguished record of achievement in research and teaching, and evidence of administrative leadership.

Please respond to: Professor Richard A. Day, Search Chairman, Department of Chemistry, University of Cincinnati, Cincinnati, Ohio 45221. An equal opportunity, affirmative action employer.

BIOLOGICAL SAFETY

Applied Biological Safety Specialist

MS or Ph.D. with 5 years experience within the field of biological safety. Will be responsible for operating and conducting an applied research project concerned with the physical protection in a biological safety program involving proper procedures in biohazard detection.

Environmental Engineer

MS in Industrial Hygiene, Public Health or Environmental Engineering, with emphasis on biological studies. Will give serious considerations to BS with experience in applied safety or environmental engineering fields. Requires knowledge of aerosol properties, airflows and mechanisms of containment. Must have ability to conduct research on potential biohazards and test biomedical equipment for safe procedures.

Well equipped laboratory facilities, extensive scientific library, and professional computer support available.

Successful candidates will be offered competitive salary, attractive company benefits, and relocation expenses.

Applications and complete resumes with salary history may be addressed to:

Mr. D. S. Loker, Personnel Manager

Litton Bionetics, Inc.

FREDERICK CANCER RESEARCH CENTER

P.O. Box B, Frederick, Maryland 21701

..... An Equal Opportunity Employer, M/F

CLINICAL APPOINTMENTS



UNIVERSITY OF HEALTH SCIENCES THE CHICAGO MEDICAL SCHOOL

Major expansion of this 62-year-old institution and the forthcoming move to a new campus have created openings for Clinical Faculty Chairmen and instructors in the Medical School.

QUALIFICATIONS—Candidates must possess the M.D. degree, be Board Certified in their specialty with experience in an academic medical center.

ORGANIZATION—UHS/CMS is a private, nonprofit, nonsectarian, coeducational university and an equal opportunity/affirmative action employer.

APPLICATION—Candidates should direct inquiries to:

Office of the Dean
University of Health Sciences/The Chicago Medical School
2020 West Ogden Avenue
Chicago, Illinois 60612

PHYSIOLOGIST TOXICOLOGIST

Excellent opportunity to join research staff of leading manufacturer in health care industry. You will be responsible for carrying out animal studies necessary to establish function and safety of new hospital products and for innovative contributions to their design. To qualify, you must have a Ph.D. in physiology, toxicology or pharmacology, some experience conducting pathological studies in animals and be capable of assuming full project responsibility. This position offers an attractive starting salary, excellent benefit package and professional working atmosphere at our health products research center in Barrington, Illinois. Please send résumé in confidence including salary history to:

Charles Wilson
Personnel Supervisor



Kendall Company

309 W. Jackson Blvd.
Chicago, Ill. 60606

An Equal Opportunity Employer M/F

Chemical Carcinogenesis Program Manager

Responsible for the coordination of a broad research program related to the NCI's research program on carcinogenesis by chemical and physical factors and on the prevention of cancer by these agents. The total program includes identification of carcinogenic activity of selected agents by in vitro and in vivo bioassays, the development and selection of biological models for bioassay, the characterization of carcinogenic processes, the identification of conditions leading to sensitivity or resistance to carcinogenesis and the identification of processes required for carcinogenic action of selected agents as target points for corrective measures in man. In addition to his responsibility for coordinating this program, the candidate will have an opportunity to be personally engaged in carcinogenesis research.

The Individual should have 8-10 years experience with a solid background in program administration and development and should be recognized by the scientific community for his accomplishments in the area of chemical carcinogenesis. A strong biochemical background is essential, with particular emphasis on the metabolic or biochemical aspects of carcinogenesis.

Applications and complete resumes may be addressed to:

Mr. Donzel Loker, Personnel Manager
Litton Bionetics, Inc.
FREDERICK CANCER RESEARCH CENTER
Post Office Box B
Frederick, Maryland 21701

An Equal Opportunity Employer, M/F

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For the graduate physicist and other scientists . . .

The AAAS is pleased to announce the availability of a new audiotape series on modern developments in physics. Selected from presentations at the 14th General Assembly of the International Union of Pure and Applied Physics (IUPAP), the six lectures on audiocassettes are packaged together in an attractive album, accompanied by a booklet containing reproductions of many of the slides used by the speakers. **The Physical World** was produced by AAAS with the cooperation of IUPAP.

OPTICS

G. Toraldo di Francia, The University of Florence

ASTROPHYSICS

Fred Hoyle, The University of Manchester

SPECTROSCOPY AND MOLECULAR STRUCTURE

Gerhard Herzberg, National Research Council of Canada

SOLID STATE PHYSICS: ACCOMPLISHMENTS AND FUTURE PROSPECTS

John Bardeen, The University of Illinois

THE MANY FACETS OF THE NUCLEAR STRUCTURE

Aage Bohr, Niels Bohr Institute

PHYSICS AND SOCIETY

Hendrik Casimir, Philips Industries

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Send to:

**American Association for the
Advancement of Science**

Dept. P.W.

1515 Massachusetts Avenue, N.W.
Washington, D.C. 20005

POSITIONS OPEN

The Department of Biology, College of Science, Texas A&M University, College Station, Texas 77843 is accepting applications for two Assistant Professors for September 1975. One in the area of neurobiology, who is qualified to teach vertebrate physiology and/or anatomy. The second in the area of molecular biology, who is qualified to teach cellular biology. Candidates should have Ph.D. with 1 year of experience or postdoctoral work. High quality research and teaching will be expected of those appointed. Send complete curriculum vitae to **Chairman, Search Committee, Texas A&M University is an Equal Opportunity Employer.**

BIostatistician for Medical School to deliver curriculum for medical students and serve as consultant for biological scientists. Assistant Professor level, with at least 2 years of postdoctoral experience. Preferred that research interests are in biomedical or data base management areas.

Applicants should send curriculum vitae to **Dean, University of Illinois School of Basic Medical Sciences, 1205 West California Street, Urbana, Illinois 61801. An Equal Opportunity Employer.**

CHAIRPERSON, BIOLOGY, SEPTEMBER 1975

Appointee is expected to hold earned doctorate, have at least 3 to 5 years of concurrent teaching and administrative experience, should be active in research, and have teaching interests in anatomy and genetics. Department currently consists of eight full-time faculty, serving more than 80 junior and senior majors and a small graduate program. Salary commensurate with experience and background. *An Equal Opportunity/Affirmative Action Employer.* Send letters of recommendation and curriculum vitae to **Dean Donald P. Gavin, Dean of Graduate School, John Carroll University, Cleveland, Ohio 44118.**

DIRECTOR OF THE PROPOSED CRUMP INSTITUTE OF MEDICAL ENGINEERING AT UCLA

Applications are invited for consideration by the Search Committee for the Director of the proposed "Crump Institute of Medical Engineering" at UCLA.

Although the proposal for the formal establishment of this unit is still under study by the Academic Senate and will require Presidential and Regental approval, the search for a highly qualified applicant has been initiated. This position represents a unique opportunity to contribute to the development of the evolving field of "medical engineering," and to establish a major Medical Engineering Program at UCLA.

Qualifications: A person of exceptional ability, accomplishments, and international stature is sought whose work and interests bear on the interface between engineering and medical sciences. Demonstrated scientific productivity, leadership and administrative abilities are desirable.

Responsibilities: To administer and direct the proposed Institute.

Salary: Commensurate with qualifications and experience.

Equal Opportunity: The University of California is an equal opportunity employer.

Send résumé to **Dr. George Eisenman, Chairman, Search Committee, Department of Physiology, UCLA Medical School, Los Angeles, California 90024.**

DIRECTOR, POPULATION CENTER

The University of North Carolina at Chapel Hill invites applications and nominations for the position of Director of the Carolina Population Center. This interdisciplinary institute of the University has in its 8-year history fostered extensive research, service, and teaching activity in the field of population.

Candidates should have an earned doctoral degree, a high level of academic competence in a field relevant to population, creditable research accomplishment, and a demonstrated capacity for leadership and administration in a university. The search committee intends to consider candidates from a variety of disciplines. The position would involve a senior faculty appointment in an appropriate department of the university.

Please submit application and complete curriculum vitae no later than 16 December to: **Dr. Paul Munson, Chairman, Search Committee, Swing Building, The University of North Carolina at Chapel Hill, Chapel Hill, N.C. 27514. An Equal Opportunity Employer.**

FACULTY POSITIONS are available in a newly developing program of health related professions. Graduate degree minimum, and applicants should have experience in teaching and curriculum planning. Rank and salary dependent upon qualifications and experience. Curriculum vitae and names of three references to: **Director, Division of Allied Health and Life Sciences, University of Texas at San Antonio, 4242 Piedras Drive East, San Antonio, Texas 78285. An Equal Opportunity/Affirmative Action Employer.**

POSITIONS OPEN

FACULTY POSITION

A developing physiology department is seeking individuals with active research programs and publications in physiology and biophysics. We are particularly interested in applicants with programs in renal or endocrine physiology, but all outstanding applicants will be carefully considered. Teaching responsibilities include instruction at the graduate and undergraduate level. Reply to: **Will J. Van der Kloot, Chairman, Physiology and Bio-Physics Department, Health Sciences Center, State University of New York at Stony Brook, Stony Brook, New York 11794. The Health Sciences Center is an Equal Opportunity Employer and applications from members of minority groups and women are welcome.**

UNIVERSITY OF TEXAS MARINE SCIENCE INSTITUTE

The University of Texas Marine Science Institute at Port Aransas is seeking applicants for an appointment, preferably at the Assistant Professor level, from marine biologists capable of teaching courses in invertebrate zoology of marine organisms and of doing research in the area of physiological ecology. Applicants must have a strong research interest and a commitment to graduate training. Send curriculum vitae and a brief statement of research interests to the **Director, The University of Texas Marine Science Institute, Port Aransas, Texas 78373. Affirmative Action/Equal Opportunity Employer.**

THE SCHOOL OF OPTOMETRY, UNIVERSITY OF CALIFORNIA, Berkeley, has a permanent position immediately available at the assistant professor level. The Department hopes to attract a person with a background in optometry and graduate training in one of the following areas: optics, vision for the partially sighted, or community health optometry. The person would be expected to carry out active research in the person's own field of interest and teach in the School of Optometry.

The University of California is an equal opportunity employer with an Affirmative Action Program and welcomes applications from women and minority candidates.

Submit complete curriculum vitae and reprints to **Dr. Kenneth A. Polse, School of Optometry, University of California, Berkeley, California 94720.**

PHARMACOLOGIST. Assistant Professor or Instructor position open in rapidly expanding medical/dental school. Preference for doctorate with postgraduate training in Endocrinology or Cardiovascular Pharmacology. Rank depends on credentials and postdoctorate experience. Must be able to conduct independent research and to participate in medical, dental, and graduate teaching programs. Send curriculum vitae, references, reprints, and teaching and research goals to **Dr. George A. Condouris, Chairman, Department of Pharmacology, College of Medicine & Dentistry of New Jersey, 100 Bergen St., Newark, N.J. 07103. An affirmative action/equal opportunity employer.**

POSTDOCTORAL VASCULAR PHYSIOLOGIST

Available immediately. Research associate level or junior faculty rank, depending on credentials. Applications are requested from individuals trained in vascular smooth muscle physiology. The candidate should be thoroughly familiar with isolated organ techniques, electronic instrumentation, and pharmacology of blood vessels. A strong biochemical background with isotope training is essential. Responsibilities include teaching undergraduate and graduate courses in physiology. Salary \$9,000 to \$14,000. Send curriculum vitae and three letters of reference to: **Dr. B. M. Altura, Department of Physiology, Box 31, State University of New York, Downstate Medical Center, 450 Clarkson Avenue, Brooklyn, New York 11203.**

TWO POSTDOCTORALS

One position available 1 January 1975. Interdisciplinary research in area of electron spin resonance and ENDOR spectroscopy of biological molecules. Second position available summer 1975 in area of ionizing radiation effects on DNA in vivo. Apply with résumé and names of references to **Dr. John D. Zimbrick, Department of Radiation Biophysics, University of Kansas, Lawrence, Kansas 66045. An Affirmative Action/Equal Opportunity Employer.**

REPRODUCTIVE BIOLOGIST NORTHWESTERN UNIVERSITY

Full-time faculty position available for 1 September 1975 in the Department of Biological Sciences. Salary and academic rank (Instructor or Assistant Professor) to depend on qualifications. Send curriculum vitae and names of three references to: **Neena Schwartz, Department of Biological Sciences, Northwestern University, Evanston, Illinois 60201. Northwestern University is an Equal Opportunity Employer.**

POSITIONS OPEN

PLANT ECOLOGIST

Assistant professorship beginning September 1975, Ph.D. degree and research competence in population and/or physiological ecology required. Apply to **Dr. Charles Beck, Chairman, Department of Botany, University of Michigan, Ann Arbor, Mich. 48104. The University of Michigan is a Nondiscriminatory, Affirmative Action Employer.**

PLANT PATHOLOGIST. Needed is a group leader to conduct testing of a large number of compounds as potential fungicides and bactericides at the laboratory and greenhouse level. Person should have Ph.D. or equivalent experience and an interest in crop protection. Should be able to plan and execute an innovative research program for improved methodology on both foliage and soil diseases. Develops data and recommendations for program of separate field research group. Persons interested should send résumé to **R. K. Thompson, Chevron Chemical Co., 940 Hensley Street, Richmond, California 94804.**

POSTDOCTORAL FELLOW

Position available for postdoctoral fellow (M.D. or Ph.D.) in laboratory for studies of endocrine aspects of bone disease (experience with radioimmunoassay desirable). Apply to **Dr. David Baylink, Veterans Administration Hospital, 4435 Beacon Avenue South, Seattle, Washington 98108.**

POSTDOCTORAL FELLOW

Postdoctoral position available immediately to work on immunological animal models of renal disease. Applicants must have working knowledge of electron microscopy and immunology. Applications with curriculum vitae, naming three references, should be sent to **Dr. S. Ainsworth, Department of Pathology, Medical University of South Carolina, Charleston, South Carolina 29401.**

POSTDOCTORAL FELLOW OR RESEARCH ASSOCIATE

Available immediately for research into laboratory culture and studies of larval blackflies in conjunction with the program on biocontrol. Salary commensurate with experience and qualifications. Send application, and so forth, to **Dr. M. Laird, Director, Research Unit on Vector Pathology, Memorial University of Newfoundland, St. John's, Newfoundland.**

POSTDOCTORAL POSITION

Postdoctoral Position available 1 January 1975 for research on structure and function of hemoglobin. Background in protein biochemistry or protein crystallography desirable. Salary \$9400 for 12 months. Send inquiries and two letters of recommendation to **Dr. Phillip D. Pulsinelli, Department of Medicinal Chemistry, School of Pharmacy, University of Pittsburgh, Pittsburgh, Pa. 15261. An equal opportunity/affirmative action employer.**

POSTDOCTORAL POSITION: Research in somatic cell genetics, particularly somatic cell hybridization, human gene mapping, viral gene transfer in mammalian cells, and regulation of gene expression. Candidates must have Ph.D. in biology, microbiology, or biochemistry. Salary \$8000. Application from women and minority groups welcomed. Send complete curriculum vitae to: **Carol Fabricant, Personnel Department, University of Connecticut Health Center, Farmington Ave., Farmington, Conn. 06032.**

An Equal Opportunity Employer

RESEARCH ASSOCIATE

Postdoctoral Research Associate position will become available in January 1975, for the study of chlorophyll biosynthesis in cell-free systems.

Applicant should have had prior laboratory experience with the isolation and characterization of plant tetrapyrroles. *The University of Illinois is an equal opportunity/affirmative action employer.*

Address curriculum vitae and three letters of reference to: **Dr. C. A. Rebeiz, 204 Vegetable Crops, University of Illinois, Urbana-Champaign, Urbana, Illinois 61801.**

RESEARCH SCIENTIST. Ph.D. in chemistry with emphasis in organic and analytical chemistry required with experience in environmental sciences. Must be familiar with determination of chlorinated hydrocarbon pesticides using gas chromatography. Résumés received by 30 November 1974 will be considered. Direct reply to: **Jean W. Estran, Supervisor of Employment, Personnel Department, University of Texas at Dallas, P.O. Box 688, Richardson, Texas 75080.**

The Faculty of the Department of Biochemistry, University of California at Berkeley anticipates an opening at the level of Assistant Professor beginning in July 1975. The position will entail the establishment of a vigorous research program as well as teaching in departmentally administered course. It is expected that the chosen candidate will have demonstrated outstanding competence, originality, and productivity, as evidenced by research accomplishment and reputation in the field. The candidate should also be able to perform effectively both as a lecturer and in more informal teaching situations. Preference will be given to candidates whose research interests complement rather than duplicate those of current members of the department. In particular, we solicit applications from those with experience and interest in biochemical aspects of (1) growth and regulation of eucaryotic cells, (2) organization, function and assembly of supramolecular structures, and (3) neurobiology.

A brochure describing the department facilities and faculty research programs is available on request. Applicants should submit a curriculum vitae and bibliography, a concise (500-1000 words) description of their prospective research program and names of three references, to the Chairperson of the Search Committee, at the above address.

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

Mass Media Intern Program

The American Association for the Advancement of Science announces a program supporting up to ten outstanding advanced graduate students in the social and natural sciences to spend the summer of 1975 as intern reporters, researchers, or production assistants in a variety of mass media organizations.

Interested students may apply by having a faculty member submit a letter of nomination to the AAAS. In addition, the applicant should write a letter describing: (a) reasons for wanting to participate in the program, (b) professional interests in the natural or social sciences, (c) beliefs in how journalism can be improved by an infusion of natural and/or social science expertise, and (d) how a natural or social scientist could benefit from exposure to an experience in the mass media. Applicants should state preferences, if any, for experience in newspaper, magazine, or broadcast journalism. The candidate's letter should be accompanied by a curriculum vita, including three references, and office and home telephone numbers and addresses.

The deadline for completed applications is 1 February. Requests for brochures describing the program and letters of application and recommendation should be sent to:

Wendy Weisman-Dermer, AAAS
1776 Massachusetts Avenue, N.W.
Washington, D.C. 20036

AUSTRALIA

Roche Research Institute of Marine Pharmacology (R.R.I.M.P.)

invites applications for two positions:
SECTION LEADER PHARMACOLOGY
and

SECTION LEADER MICROBIOLOGY/CHEMOTHERAPY

A Research Institute of Marine Pharmacology has been established in Sydney to carry out basic research into the chemistry, chemotherapy and pharmacology of a wide range of natural products obtained from marine organisms. The Institute collaborates with Australasian Universities.

Section Leader Pharmacology:

The Section Leader in Pharmacology will be responsible for the maintenance and development of a screening programme to evaluate activities of materials isolated from marine organisms.

Responsibilities will include development and co-ordination of research projects in the Pharmacology section, appropriate to the function of the Research Institute.

The appointee will advise the Director on development of the Pharmacology section and will be a member of the R.R.I.M.P. Management Committee.

Section Leader Microbiology/ Chemotherapy:

The Section Leader in Microbiology/Chemotherapy will be responsible for the maintenance and development of a screening programme to evaluate activities of materials isolated from marine organisms.

Responsibilities will include development and co-ordination of research projects in the Microbiology/Chemotherapy section appropriate to the function of the Research Institute.

The appointee will advise the Director on development of the Microbiology/Chemotherapy section and will be a member of the R.R.I.M.P. Management Committee.

Applicants should have demonstrated the ability to organize and supervise a scientific team involved in both routine and research application.

Salary will be negotiated on the basis that the level of appointment is regarded as comparable in expected expertise and responsibility to that of a Reader or Associate Professor in a University or Senior Principal Research Scientist in a Commonwealth Research organisation.

Generous superannuation benefits are available.

Applications, in confidence, should be forwarded to:

The Personnel Manager
Roche Research Institute of Marine Pharmacology
P.O. Box 255
Dee Why, N.S.W., Australia 2099

POSITIONS OPEN

LIMNOLOGIST

Two-third teaching, one-third research. Candidates must have Ph.D. in limnology or closely related specialization and demonstrated ability to establish and conduct a graduate research program. Appointment begins 1 September 1975; salary negotiable.

Send curriculum vitae with complete transcripts, list of publications, detailed description of research interests, and three letters of recommendation including evaluations of applicant's ability to fill this particular position. Finalists will be invited for a seminar interview. Applications accepted through 15 January 1975. Apply to: **Dr. William T. Helm, Chairman, Search Committee, Department of Wildlife Science, Utah State University, UMC 52, Logan, Utah 84322. Telephone (801) 752-4100, extension 7934.**

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POSTDOCTORAL

Available immediately. Research interests include bacteriophage morphogenesis, biochemistry, and genetics. Submit curriculum vitae and letters of reference to:

**M. T. Dixon
The Institute for Cancer Research
7701 Burholme Ave.
Philadelphia, Pa. 19111**

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POSTDOCTORAL RESEARCH POSITION

(\$8500 per year for 2 years) for Ph.D. graduate to work on physical studies of structural transitions of allosteric enzymes. Send résumé and two letters of reference to **Dr. R. F. Steiner, Department of Chemistry, University of Maryland, Baltimore County, 5401 Wilkens Avenue, Catonsville, Maryland 21228.**

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PSYCHIATRISTS AND OTHER MENTAL HEALTH SCIENTISTS

Full University academic positions in clinical, applied, and basic mental health research and teaching. Includes Biochemistry, Psychophysiology, Computer Applications, and others. Midwest psychiatric institute. Write

Box 513, SCIENCE

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FULL PROFESSOR (and possibly **ASSISTANT PROFESSOR**) OF **PSYCHOLOGY**, September 1975. Field of personality-psychopathology given preference, though all fields will be considered. Breadth of interest, including work in natural or social sciences or humanities, is highly desirable. *Equal opportunity employer.* Send curriculum vitae to **K. E. Scheibe, Chairman, Psychology Department, Wesleyan University, Middletown, Conn. 06457.**

Seek **PUBLIC HEALTH NURSE** with Dr. P.H., Ph.D., or Ed. D. for Assistant Professor opening. M.P.H. desirable. Prefer teaching and research experience in public health nursing aspects of delivery of health care. Salary negotiable. *The School is committed to a strong affirmative action policy.* Submit curriculum vitae and publications to **Dr. H. M. Wallace, School of Public Health, University of California, Berkeley, California 94720.**

ONTARIO MINISTRY OF NATURAL RESOURCES RESEARCH SCIENTIST—FISHERIES \$14,308 to \$23,145

Duties: To devise, direct, and participate actively in research and experimental management to develop and apply effective methods of assessing stocks and allocating surplus yields in the multi-gear, multi-species, multi-agency fisheries of Lake Superior and related waters. To contribute new understanding of aquatic production systems by participating in multi-disciplinary research in systems ecology.

Location: Maple, Ontario.

Qualifications: Ph.D. With solid training in applied mathematics and statistics, biometrics, and systems ecology with experience in the use of computers as well as in biology, preferably, but not necessarily with specialization in fisheries. At least 4 years of practical experience in field and laboratory, preferably in multi-disciplinary research teams. Published contributions earning international recognition.

Applications and résumés should be submitted to the **Director, Personnel Branch, Ministry of Natural Resources, Room 1504, Whitney Block, Queen's Park, Toronto, Ontario**, by 31 December 1974.

FELLOWSHIPS

POSTDOCTORAL FELLOWSHIP IN BIOENGINEERING AND ORTHODONTICS UNIVERSITY OF CONNECTICUT SCHOOL OF DENTAL MEDICINE

A 2-year NIDR Fellowship which offers a broad range of research experiences in four major areas: (i) the application of mathematical modeling and computer simulation graphics technology to facial growth, bone dynamics, and diagnosis; (ii) the determination of force systems from orthodontic appliances including studies in metallurgy, appliance design, finite element, and transducer techniques; (iii) the biological response of bone and connective tissues to stress; and (iv) the study of measurement of muscle activity and forces during oropharyngeal function. Three categories of candidates for a fellowship will be considered: (i) physical scientists with Ph.D. (engineers, bioengineers, physicists, physical chemists, and mathematicians); (ii) candidates with D.D.S. degree with a certificate of core clinical training in orthodontics or a related specialty; (iii) candidates with D.D.S. degree, with B.S. degrees in mathematics, engineering, or physical chemistry. Stipends are dependent on experience past the doctoral degree and start at \$10,000. *Applications from women and minority groups are welcomed.* Send curriculum vitae to **Dr. Sam Weinstein, Professor, Department of Orthodontics, University of Connecticut Health Center, Farmington, Connecticut 06032.**

DOCTOR OF ARTS IN BIOLOGY

Applications for predoctoral fellowships are being accepted now from qualified students dedicated to college-level teaching and interested in studying for the D.A. degree in Biology. Applicants must hold an M.S. degree in Biology or its equivalent prior to the fall 1975 term. Fellowships carry a stipend of \$2800 per academic year plus tuition waiver. For details of this new program and application materials write to: **Biology Chairman, Box 8007, Idaho State University, Pocatello, Idaho 83209.**

POSTDOCTORAL FELLOWSHIP IN HUMAN BIOCHEMICAL GENETICS

Fellowships are available for postdoctoral training in a Human Biochemical Genetics group with special interest in the study and diagnosis of human genetic disorders. Training will include studies in cytogenetics, cell culture systems for biochemical studies of diseases of amino acid, purine, and lipid metabolism, cystic fibrosis, genetic screening, and prenatal diagnosis and participation in clinical genetics programs.

Interested persons should send inquiries and curriculum vitae to:

**Dr. J. E. Seegmiller
Department of Medicine
School of Medicine
University of California, San Diego
La Jolla, California 92037**

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THE HEBREW UNIVERSITY OF JERUSALEM THE FACULTY OF SCIENCE

**Applications are invited for
Postdoctoral Fellowships for the academic year
1975-1976**

**In the Fields of Mathematics, Physics, Chemistry,
Life & Earth Sciences**

The applicant is required to submit his application (in letter form) before 1 December 1974, together with his list of publications and curriculum vitae, containing details of his marital status, to the Chairman of the Institute, in which he is interested to carry out his research. Applications for postdoctoral research in Earth Sciences should be submitted to the appropriate Head of Department, that is, Geology, Geography, or Atmospheric Sciences. All applicants are requested to address copies of their correspondence to the Dean, Faculty of Science.

The applicant is further required to arrange for at least two letters of recommendation, from persons well acquainted with his personal and academic record, to be directed to the relevant Chairman, or Head of Department, these recommendations to reach their destination by 1 December 1974.

The fellowship provides for a tax-free salary ranging from approximately IL14,000 to IL16,000 (dependent on the candidate's marital status), which is payable in 11 monthly installments. The faculty usually allows for a single air-ticket to Israel, and a similar allowance is made if the candidate leaves Israel on completion of his tenure as postdoctoral fellow.

The fellowship is intended primarily for persons who attained their degree in very recent years, and for those who will complete all requirements for the Ph.D. degree before the autumn of 1975.

FELLOWSHIPS

TWO POSTDOCTORAL FELLOWSHIPS IN THE EARTH AND PLANETARY SCIENCES

The Lamont-Doherty Geological Observatory of Columbia University invites scientists interested in any field of the earth and planetary sciences to apply for the following fellowships.

Two postdoctoral fellowships, each awarded for a period of 1 year (extendable to 2 years in special instances) beginning in September 1975, with a stipend of \$12,000 per annum. Completed applications are to be returned by 15 February. Application forms may be obtained by writing to the **Director, Lamont-Doherty Geological Observatory, Palisades, New York 10964.**

Award announcements will be made 31 March 1975.

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⁽¹⁾ Miller & Udenfriend (Archives of Biochemistry & Biophysics, 139, 104-113, 1970)

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