

1976. xxiv, 428 pp., illus. \$17.50. *To order this book Circle No. 375 on Readers' Service Card*

Photonuclear and Photomesic Processes. D. V. Skobel'tsyn, Ed. Translated from the Russian edition (Moscow, 1974) by Joachim R. Büchner. Consultants Bureau (Plenum), New York, 1976. x, 214 pp., illus. Paper, \$45. The Lebedev Physics Institute Series, vol. 71. *To order this book Circle No. 376 on Readers' Service Card*

Prehistoric Pottery Analysis and the Ceramics of Barton Ramie in the Belize Valley. James C. Gifford. Peabody Museum of Archaeology and Ethnology, Harvard University, Cambridge, Mass., 1976. xviii, 360 pp., illus. Paper, \$25. Memoirs of the Peabody Museum of Archaeology and Ethnology, vol. 18. *To order this book Circle No. 386 on Readers' Service Card*

Prehistory of the Nile Valley. Fred Wendorf and Romuald Schild with sections by Bahay Issawi. Academic Press, New York, 1976. xxiv, 404 pp., illus. \$25. Studies in Archeology. *To order this book Circle No. 387 on Readers' Service Card*

Programs and Machines. An Introduction to the Theory of Computation. Richard Bird. Wiley-Interscience, New York, 1976. x, 214 pp., illus. \$16.95. Wiley Series in Computing. *To order this book Circle No. 377 on Readers' Service Card*

The Reproduction of Colour. R. W. G. Hunt. Halsted (Wiley), New York, ed. 3, 1976. xxii, 614 pp. illus. + plates. \$25. *To order this book Circle No. 378 on Readers' Service Card*

Scientific Aids in Hospital Diagnosis. Proceedings of a conference, Oxford, England, Apr. 1975. J. P. Nicholson, Ed. Plenum, New York, 1976. x, 286 pp., illus. \$25. *To order this book Circle No. 388 on Readers' Service Card*

Solar Cells. Charles E. Backus, Ed. IEEE Press, New York, 1976 (distributor, Wiley, New York). viii, 504 pp., illus. Cloth, \$17.95; paper, \$8.95. IEEE Press Selected Reprint Series. *To order this book Circle No. 389 on Readers' Service Card*

Sound Recording. John Eargle. Van Nostrand Reinhold, New York, 1976. xiv, 328 pp., illus. \$16.95. *To order this book Circle No. 379 on Readers' Service Card*

Spectral Synthesis. John J. Benedetto. Academic Press, New York, 1976. 278 pp. \$27.50. Pure and Applied Mathematics. *To order this book Circle No. 390 on Readers' Service Card*

Structural Design Guide to AISC Specifications for Buildings. Paul F. Rice and Edward S. Hoffman. Van Nostrand Reinhold, New York, 1976. viii, 360 pp., illus. \$24.95. *To order this book Circle No. 391 on Readers' Service Card*

Structure of the Autonomic Nervous System. Giorgio Gabella. Chapman and Hall, London, and Halsted (Wiley), New York, 1976. viii, 214 pp. + plates. \$28.50. *To order this book Circle No. 380 on Readers' Service Card*

Studies in Neurolinguistics. Vol. 2. Haiganoosh Whitaker and Harry A. Whitaker, Eds. Academic Press, New York, 1976. xvi, 334 pp., illus. \$23.50. Perspectives in Neurolinguistics and Psycholinguistics. *To order this book Circle No. 381 on Readers' Service Card*

Vegetation and the Atmosphere. J. L. Monteith, Ed. Academic Press, New York, 1976. Two volumes, illus. Vol. 1, Principles. xx, 278 pp. \$26. Vol. 2, Case Studies. xx, 440 pp. \$38.75. *To order this book Circle No. 392 on Readers' Service Card*

Personnel Placement

Effective 1 January 1977, the display rate for SCIENCE will be \$145 per column inch, minimum.

POSITIONS WANTED

Experimental Psychologist. Ph.D. (1963), management M.B.A. (expected June 1977). Interdisciplinary research on neuro/cardiovascular physiology and behavior, radiation, memory, aging, drugs; 43 publications. Presently heads primate project, 8 years. Experienced in all phases of administration, grants, management, teaching. Seeks responsible advancement starting summer/fall 1977. Box 499, SCIENCE. X

Gross Anatomy/Embryology/Teratology. Doctorate. Interdisciplinary life sciences background. Teaching/research experience. Publications. Broad research interests in reproduction and population. Seeks teaching/research position. Relocation. Box 491, SCIENCE. X

Mechanical Engineer from piping industry wants to participate in energy R & D: solar, wind, coal conversion. Will work for opportunity to earn advanced degree. Box 492, SCIENCE. 11/12, 19

Paleontologist-Stratigrapher. Ph.D. 1973, 11 years of experience, interdisciplinary research, and publications. Paleozoic-Tertiary; fossil calcareous algae, micropaleontology, invertebrate paleontology, stratigraphy, paleoecology, reefs, carbonate sedimentology. Good background in living algae and invertebrates. Seeks challenging position in research center, oil company, museum, teaching. Box 500, SCIENCE. X

Pharmacologist (Ph.D. expected January 1977). Broad background includes anti-inflammatory screening (dissertation), cardiovascular pharmacology (M.S. thesis), bioassay and biometrics, screening of natural products, some-biochemical pharmacology, and some neuropharmacology. Seeks post-doctorate traineeship (no teaching) or research position in industry. Box 501, SCIENCE. 11/12, 26

POSITIONS OPEN

ANATOMIST

M.D. or Ph.D. with at least 2 years of postdoctoral experience in teaching and in independent research. Should be able to assist in the teaching of any of the branches of anatomy to medical and dental students. Special competence in neuroanatomy is desirable but not mandatory. Appointment will be made at the rank of assistant or associate professor. Apply with curriculum vitae and references before 15 April 1977 to **Dr. S. M. Friedman, Department of Anatomy, The University of British Columbia, Vancouver, B.C. V6T 1W5.**

AQUATIC ECOLOGIST or LIMNOLOGIST to direct federally funded project analyzing current state of knowledge on input of nutrients and sediments into nation's waterways. Ph.D. required. Two-year research appointment in the Institute of Ecology. Position available immediately. Send résumé and three letters of reference to: **Dr. F. B. Golley, Executive Director, Institute of Ecology, University of Georgia, Athens, Georgia 30602.** Deadline: 15 December 1976. *The University of Georgia is an Equal Opportunity/Affirmative Action Employer.*

The Research Institute of Pharmaceutical Sciences (RIPS), School of Pharmacy, University, Mississippi, is seeking candidates for **ASSISTANT DIRECTOR OF PHYSICAL SCIENCES.** Candidates with a B.S. in pharmacy and a Ph.D. in related life science field are of particular interest. Salary will be commensurate with experience and equivalent academic positions. Interested persons should send biographical data, publications, and so forth, to **Dr. Carlton Turner, Associate Director, RIPS, School of Pharmacy, University, Miss. 38677.** *An Equal Opportunity/Affirmative Action Employer.*

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A completely new line of "state-of-the-art" packed columns for high pressure liquid chromatography is now available in the U.S. and Canada from Rheodyne.

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Solvent	hexane	hexane	hexane	40% acetonitrile
Flow, ml/min	2.0	2.0	2.0	2.0
Pressure, psi	1640	280	280	3000
Test substance	nitro-benzene	nitro-benzene	nitro-benzene	diethyl phthalate

*available in 10 µm particle size also.

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POSITIONS OPEN

Applications are invited for a newly created **POSITION** in the **Department of Anatomy** at the University of Arizona. The responsibility of teaching would be in either gross human anatomy or histology and developmental anatomy. Applicants should show evidence of postdoctoral research experience, a vigorous research program, and the potential for grant support. Desired areas of research include endocrinology-neuroendocrinology or cell biology. The combination of an interest in one of these areas and cancer-related research will be given high priority. The position will be at the assistant or associate professorship level. Please forward your application, curriculum vitae, and references to: **Dr. Bryant Benson, Professor and Head in Anatomy, University of Arizona, Health Sciences Center, Tucson, Arizona 85724. The University of Arizona is an Equal Opportunity/Affirmative Action Employer under state and federal laws and regulations including Title IX, 1972 Education Amendments.**

ANIMAL SCIENCE: Department chairperson and professor, University of Delaware. Administration and coordination of teaching, research, and extension activities. Advisement and teaching of undergraduate and graduate students. Ph.D. in animal or poultry research required. D.V.M. and background in pathology desirable. Applicants must have demonstrated research and teaching capability through laboratory and classroom experience and should be familiar with land-grant philosophy. Administrative experience desirable. Contact **John A. Murray, Search Committee Chairperson, 214 John M. Clayton Hall, University of Delaware, Newark, Delaware 19711. Telephone: 302-738-2795. An Equal Opportunity/Affirmative Action Employer.**

ASSISTANT PROFESSOR: Position available starting August 1977 for Ph.D. or Ed.D. with strong background in physical and/or biological sciences. Requires experience in science education research (cognitive development) and experience in instruction of science for nonscience majors; experience in elementary school teaching or supervision. Responsibilities will be to teach undergraduate courses in science for prospective elementary teachers and conduct research in science teaching. Send letter of application describing qualifications, a current curriculum vitae, and three letters of reference to **Dr. Bill W. Tillery, Department of Physics, Arizona State University, Tempe, Arizona 85281. Arizona State University is an Equal Opportunity/Affirmative Action Employer.**

DEPARTMENT OF PSYCHOBIOLOGY UNIVERSITY OF CALIFORNIA, IRVINE

A position is available for an outstanding candidate at the **ASSISTANT PROFESSOR** level. Candidates should either be pursuing research in neurobiology or behavioral biology. Postdoctoral research experience is preferred. Applicants should write to **Norman M. Weinberger, Chairman, Department of Psychobiology, University of California, Irvine, California 92717**, providing curriculum vitae, references, publications, and a detailed statement of research plans for the next 3 to 5 years. *Applications from all qualified candidates are welcome; minorities and women are encouraged to apply.*

ASSISTANT PROFESSORS—ANATOMY

Two positions for Ph.D. or M.D. to develop research and graduate programs and to teach medical neuroanatomy and/or gross anatomy. Preference given for postdoctoral experience. One position requires strong expertise in neurocytology. Submit résumé and letters of recommendation to **Dr. D. E. Kelly, Department of Anatomy, School of Medicine, University of Southern California, 2025 Zonal Avenue, Los Angeles, California 90033. Applications from women and minority groups especially welcome. An Equal Opportunity/Affirmative Action Employer.**

ASSISTANT PROFESSOR, BIOLOGICAL SCIENCES

Areas of high priority are behavioral biology, cell biology, and plant tissue culture. Appointee is expected to develop creative research program. Divisional teaching needs include basic biology course, ultrastructure, mycology, and specialty courses for advanced undergraduate and graduate students. Send résumé to: **A. Eisenstark, Director, Division of Biological Sciences, Tucker Hall, University of Missouri—Columbia, Columbia, Missouri 65201. An Equal Opportunity Institution.**

POSITIONS OPEN

DEPARTMENT OF MOLECULAR BIOPHYSICS AND BIOCHEMISTRY YALE UNIVERSITY

During the coming months a position at the rank of **assistant professor** will be filled in this department. Candidates should have exceptional qualifications in research and teaching. *Yale is an Equal Opportunity Employer and applications from women and minority groups are encouraged.* Applicants should apply before 30 December 1976. The application should contain a brief description of the research interests the applicant expects to develop as an independent investigator, together with a curriculum vitae, a list of publication titles and abstracts, and the names and addresses of three references. These materials should be sent to: **Professor Joseph E. Coleman, Chairman, Department of Molecular Biophysics and Biochemistry, Yale University, Box 1937 Yale Station, New Haven, Conn. 06520.**

ASSISTANT OR ASSOCIATE PROFESSOR

Laboratory of Neuroendocrine Regulation, Department of Nutrition and Food Science, Massachusetts Institute of Technology. Responsibilities include teaching a graduate-level course on brain mechanisms involved in the control of various behaviors (including the regulation of eating and drinking); guidance of graduate students in thesis research on brain and behavior; and development of an independent research program related to Psychopharmacology, broadly defined, and collaborative research efforts dealing with the effects of drugs, hormones, and nutrients on behavior. Position is available in July 1977. Qualified women and minority group persons are encouraged to apply. Send curriculum vitae and bibliography, and request that recommendations be sent to **Richard J. Wurtman, M.D., Professor of Endocrinology and Metabolism, M.I.T., 56-245, Cambridge, Mass. 02139. An Equal Opportunity Employer.**

ASSISTANT PROFESSORSHIPS IN CELLULAR IMMUNOLOGY, ANIMAL VIROLOGY, PLANT BIOLOGY, AQUATIC BIOLOGY, AND DEVELOPMENTAL BIOLOGY

A rapidly growing, well-equipped modern department of biological sciences located in the hills outside Baltimore is seeking scientists with postdoctoral research experience who have demonstrated their ability to initiate vigorous research programs and have a commitment to quality graduate and undergraduate teaching. Appointments are contingent upon availability of state funds. Submit curriculum vitae, bibliography, names of suggested referees, and a description of research interests to: **Dr. Thomas F. Roth, Chairman, Search Committee, Department of Biological Sciences, University of Maryland Baltimore County, Catonsville, Maryland 21228. An Equal Opportunity/Affirmative Action Employer.**

ALBERT EINSTEIN COLLEGE OF MEDICINE NEW YORK

Applications are invited for positions at the **assistant and associate professor** level for the Department of Molecular Pharmacology in the Division of Biological Sciences. Areas of particular interest include: mechanisms of hormone action, chemical carcinogenesis and drug metabolism, membrane biology, and neurobiology. Candidates with proven ability to do exceptional independent research and an interest in graduate and medical student teaching should submit curriculum vitae, bibliography, a short description of future research plans, and the names of three references to: **Dr. Ora Mendelsohn Rosen, Department of Molecular Pharmacology, Albert Einstein College of Medicine, Room 219, Forchheimer Building, 1300 Morris Park Avenue, Bronx, New York 10461. Albert Einstein College of Medicine is an Equal Opportunity/Affirmative Action Employer.**

ASSISTANT PROFESSOR IN ANIMAL PHYSIOLOGY at Cornell University, Division of Biological Sciences. Teach, coordinate senior/graduate course in mammalian physiology, including extensive laboratory section. Candidate should have good background in modern and classical techniques in vertebrate organ physiology. Ph.D., M.D., or D.V.M. required, with postdoctoral experience desirable. Preference given to applicants with research interest in endocrine, skeletal, cardiovascular, respiratory, or renal physiology. Address inquiries to: **Dr. Andre Bensadoun, Room N220, Martha Van Rensselaer Hall, Cornell University, Ithaca, N.Y. 14853. An Affirmative Action/Equal Opportunity Employer. Applications from women and minorities are encouraged.**

POSITIONS OPEN

ASSISTANT PROFESSOR OF BIOCHEMISTRY

The Department of Chemistry of the University has an opening on its faculty for a person interested in establishing a vigorous research program as well as participating in the varied teaching activities. Research specialization is less important than individual qualifications, but the candidate's interests should be compatible with those of the existing biochemical faculty and facilities.

Postdoctoral research experience is required. Deadline for applications is 30 November. Submit curriculum vitae, research plans, and three letters of reference to **J. P. Freeman, Chairman, Department of Chemistry, University of Notre Dame, Notre Dame, Indiana 46556.**

STANFORD UNIVERSITY THE HOPKINS MARINE STATION Assistant Professor and Associate Professor of Biology

The Hopkins Marine Station is located in Pacific Grove on the coast of Monterey Bay, California. It is a division of the Department of Biological Sciences of Stanford University, with its own faculty in residence in Pacific Grove, which is 90 miles south of the main Stanford campus in Palo Alto.

Applications are invited for two junior positions on the Marine Station faculty from persons working in algal or animal physiology, in cellular or developmental biology, in the neurosciences and behavior, and population biology and ecology. Selection will be made entirely on the basis of individual excellence, irrespective of field of specialization.

Members of the Marine Station faculty are required to teach in the area of their special interest and expected to develop a research program involving students at all levels (undergraduate, graduate, and postdoctoral).

The Station's facilities are being enlarged and completely renovated; new appointees will be involved in modernization of their own laboratories.

Applications should include the names of three referees and be addressed to **C. S. Pittendrigh, The Hopkins Marine Station, Pacific Grove, Calif. 93950. They must arrive not later than 15 December 1976. Earliest starting date is September 1977. Stanford University is an Equal Opportunity/Affirmative Action Employer.**

ASSISTANT PROFESSORS OF INTRODUCTORY BIOLOGY

The Division of Biological Sciences at Cornell University seeks two assistant professors to teach introductory biology courses. One course is for nonmajors (not a course in human biology) and the other is an auto-tutorial course for majors and nonmajors. In addition to teaching, the individuals will be expected to develop a program of research, and subsequent promotion will depend upon both scholarly and teaching performance. The research area for one of these positions will be in the Section of Physiology; the other may lie in any of the five sections which make up the division. Postdoctoral research experience is highly desirable.

Applicants should send a curriculum vitae, which should include a description of teaching experience, and reprints of research publications. They should also ask for three letters of reference to be sent to: **Dr. R. D. O'Brien, Director, Division of Biological Sciences, Cornell University, Ithaca, New York 14853. The deadline for receipt of applications is 15 December 1976.**

Cornell University is an Equal Opportunity/Affirmative Action Employer.

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

ASSISTANT PROFESSOR, DEPARTMENT OF PATHOLOGY. Ph.D. with biochemistry background and cell fractionation. Collaboration on immunological studies of collagen disease and tumors. Please send curriculum vitae to: **Dr. David Kofler, Department of Pathology, Mount Sinai Medical Center, 100th Street and Fifth Avenue, New York, N.Y. 10029. An Equal Opportunity Employer.**

POSITIONS OPEN

ASSISTANT PROFESSOR OF BIO-MATERIALS

The Department of Mechanics and Materials Science of The Johns Hopkins University invites applications for a faculty position in the area of bio-materials. The initial appointment is for 1 year and could begin as soon as 1 January 1977, but the possibility exists that the appointment can be renewed and may lead to a tenured position at a higher rank. A genuine commitment to excellence in teaching as well as research is required. Applicant selected will be expected to assist in expanding the undergraduate Bioengineering Program and will be encouraged to conduct bioengineering research, including cooperative efforts with the Johns Hopkins Medical Institutions and the Applied Physics Laboratory. Candidates should preferably have a doctoral degree in a materials discipline, with a doctoral dissertation in the bio-materials field. Special preference will be given to those applicants who also have a good knowledge of biological science and mechanics. *The Johns Hopkins University is an Equal Opportunity/Affirmative Action Employer.*

Candidates should send professional résumé containing teaching and research accomplishments and names of three referees to:

Professor Robert E. Green, Jr.
Department of Mechanics and Materials Science
The Johns Hopkins University
Baltimore, Maryland 21218

DEPARTMENT OF BOTANY UNIVERSITY OF CALIFORNIA, BERKELEY

Applications are invited for an anticipated opening at the level of **assistant professor** in botany pending final budgetary approval. The teaching and research interests of the candidate should be in the area of **plant physiology**. The successful candidate will teach courses in plant physiology, contribute to the teaching of general biology or botany, and develop a graduate teaching and research program. Applicants should send a curriculum vitae (including relevant course work), bibliography with copies of publications, and a summary of teaching and research objectives to **Russell L. Jones, Chairman, Search Committee, Department of Botany, University of California, Berkeley, California 94720**. Applicants should also have sent to the Chairman of the Search Committee three letters of reference. The review of applicants will begin 15 January 1977. *Women and minorities are urged to apply. The University of California is an Equal Opportunity/Affirmative Action Employer.*

ASSISTANT PROFESSORS OF GENETICS. Iowa State University seeks highly qualified Ph.D.'s for two positions open 1 July 1977. Postdoctoral research and publications required. Must have strong research program in molecular genetics of eukaryotes. Duties equally divided between teaching and research. Applications by 28 February 1977. Send curriculum vitae and three letters of reference to: **Dr. W. J. Welshons, Department of Genetics, 8 Curtiss Hall, Iowa State University, Ames, Iowa 50010**. *Equal Opportunity/Affirmative Action Employer*

BIOLOGY POSITIONS. Chairmanship at associate professor level at 4-year college emphasizing integrative humane learning. Botany background preferred. Teach in two of the following: genetics, cell physiology, ecology, botany, or radiation biology. Direction of undergraduate research encouraged. Modern, instrumented lab: electron microscope, radiation lab, NMR, and so forth. Should be interested in interdisciplinary science education. Assume duties in fall 1977. **Assistant professor:** to teach in the environment described above. Assume duties in spring 1977. Send curriculum vitae, transcripts, and three letters of reference to **Dr. Donald G. Barnes, Science Division, St. Andrews Presbyterian College, Laurinburg, N.C. 28352**. *The College is an Equal Opportunity/Affirmative Action Employer.*

The Department of Biology of Virginia Commonwealth University invites applications for two anticipated **POSITIONS AVAILABLE** in August 1977. Positions involve teaching with an opportunity for research. Applicants should have a doctorate and be qualified to teach either cell/molecular biology or cell physiology and general biology. Applicants should state teaching and research interests and send curriculum vitae and list of references to **Dr. Lewis C. Goldstein, Department of Biology, Virginia Commonwealth University, Richmond, Virginia 23284**. *An Equal Opportunity/Affirmative Action Employer.*

POSITIONS OPEN

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

is seeking an **ASSISTANT RESEARCH RADIATION PHYSICIST** for research programs involving quantitative analysis of fluoroscopic images. Qualifications include a Ph.D. in physics or electrical engineering, experience in use of computer and writing of software for pattern recognition, metrology, gray scale analysis, and CT reconstruction theory. In addition, the candidate should be familiar with geometric and nonlinear optics, physiology, and anatomy. Annual salary: \$16,600.

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

Send curriculum vitae and bibliography along with first inquiry to:

Norman A. Baily, Ph.D.
Professor of Radiology, M-010
Chief, Division of Radiological Physics
and Engineering
Department of Radiology, School of Medicine
University of California, San Diego
La Jolla, California 92093

The Department of Avian Medicine, University of Georgia, is seeking applications for the faculty position of **Avian Immunologist or Bacteriologist**, to be filled as soon as possible. Qualifications include the D.V.M. and/or Ph.D. degrees. Demonstrated research competence, postdoctoral experience, or Board certification desirable. Interest, experience, and achievement in avian disease research desired. Approximately 75 percent effort will be devoted to avian disease research in the areas of bacteriology or immunology. The remainder of the time will be spent in teaching and service functions. Salary and rank are open and commensurate with training and experience.

Interested individuals should submit curriculum vitae to **Dr. S. H. Kleven, Poultry Disease Research Center, 953 College Station Road, Athens, Ga. 30601**. The deadline for application is 1 December 1976. *The University of Georgia is an Equal Opportunity/Affirmative Action Employer.*

BIOCHEMISTS

Biochemistry, assistant or associate professor. Two positions. State-appropriated salaries, are available. Candidates with experience and intent to do research on the control of proliferation in animal cells and/or biochemical carcinogenesis will be considered. Candidates for either level will be considered depending on: education (Ph.D. required), research experience, and publication record. Applicants must be prepared to establish their own research program within the above designated categories. The research commitment will be for at least 80 percent of the applicant's time with up to 20 percent time allowed for teaching in a degree-granting program of The University of Texas.

Qualified and interested applicants contact: **Dr. Darrell N. Ward, Head, Department of Biochemistry, The University of Texas System Cancer Center, M.D. Anderson Hospital and Tumor Institute, 6723 Bertner Avenue, Houston, Texas 77030**.

An Equal Opportunity/Affirmative Action Employer.

CELL BIOLOGIST/BIOCHEMIST—Specialized Center of Research in Arteriosclerosis (SCOR) at Bowman Gray School of Medicine is seeking an established investigator in the area of cell biology or biochemistry with research emphasis, either directly or indirectly, on arteriosclerosis. This will be a faculty-level appointment in the Department of Pathology with rank and salary commensurate with experience. This individual should have demonstrated research competence by productivity in publications and grants. Some funds will be available from the SCOR for support of this individual's research, but this individual will also be expected to seek additional research support. Although research potential is of primary importance, evidence of teaching excellence will also be considered due to active pre- and postdoctoral training programs associated with the SCOR. Qualified candidates should submit a curriculum vitae, a brief description of current research activities, and have three letters of reference sent to: **Professor Richard W. St. Clair, Department of Pathology, Bowman Gray School of Medicine of Wake Forest University, Winston-Salem, North Carolina 27103**. Deadline for receipt of applications is 1 January 1977. *An Equal Opportunity/Affirmative Action Employer.*

POSITIONS OPEN

ASSISTANT VICE PRESIDENT FOR ACADEMIC AFFAIRS

**State University of New York College of
Environmental Science and Forestry,
Syracuse, N.Y.**

The assistant vice president coordinates the conduct, development, and administration of the undergraduate and graduate programs of the College and reports to the vice president for program affairs. The appointee is expected to work closely with the assistant vice president for research, will participate in appropriate liaison with the State University of New York central administration and with Syracuse University in academic matters, and is expected to maintain a level of professional competence and interest. The State University of New York College of Environmental Science and Forestry currently enrolls 1800 undergraduate and 300 graduate students and has a faculty of 135. The academic programs are administered through five schools: Environmental and Resource Management, Environmental and Resource Engineering, Landscape Architecture, Biology, Chemistry and Ecology, and the Ranger School. Nominees and applicants should have an earned doctorate, professional recognition, and be eligible for an academic appointment up to the level of associate professor. They should have demonstrable academic and administrative leadership, and be either interested in or experienced with programs in an area appropriate to the mission of this College. Possession of a background pertinent to budget management, resource allocation, and graduate or undergraduate program development and advisement would be highly desirable. This position will be filled as soon as possible. Address all correspondence to: **Dean S. W. Tanenbaum, Chairman, Assistant Vice President Search Committee, College of Environmental Science and Forestry, Syracuse, N.Y. 13210**. *An Equal Opportunity/Affirmative Action Employer.*

BIOLOGIST

The Department of Biology, University of Nevada, Reno, is seeking an individual at the assistant professor level. Responsibilities of the individual will be to teach an introductory two-semester cell biology course and develop more advanced courses in his or her area of specialization. The successful candidate will also participate in the general biology program. The individual must have Ph.D. degree earned by time of arrival, and is expected to initiate and carry on a productive research program. Preference will be given to candidates whose interests include developmental biology and/or physiology. Final deadline for application is 31 January 1977. Contract begins on or about 22 August 1977. Application forms and details from: **Dr. Robert W. Mead, Chairman, Department of Biology, University of Nevada, Reno, Nevada 89557**. *The University of Nevada, Reno, is an Equal Opportunity/Affirmative Action Employer.*

The Department of Biology invites applications for positions in **MOLECULAR, CELLULAR, or DEVELOPMENTAL BIOLOGY** at the **assistant professor** rank or possibly higher. Postdoctoral experience and demonstrated research productivity absolutely essential. Applications with curriculum vitae, list of publications, names of references, and summary of research experience and interest should be sent to **Dr. W. Loomis, Department of Biology B-022, University of California, San Diego, La Jolla, Calif. 92093**. *Equal Opportunity/Affirmative Action Employer, M/F.*

BIOPHYSICIST

A tenured full professorship is available in biophysics at the University of Illinois. Salary is negotiable. Expected to carry out research and teaching in biophysics. Send curriculum vitae immediately to **Govindjee, 289 Morrill Hall, University of Illinois, Urbana, Illinois 61801**. Telephone: 217-333-1794. Closing date for curriculum vitae is 1 February 1977. *The University of Illinois is an Affirmative Action/Equal Opportunity Employer and encourages applications from minorities and women.*

BOTANIST Ph.D. Candidates (rank open, assistant professor preferred) to teach in areas of physiology, morphology, microbiology, to participate in general biology, and who are committed to excellence in undergraduate education are sought. Research opportunities. Send applications to **Biology Department, Sweet Briar College, Sweet Briar, Virginia 24595**. *Sweet Briar College is an Equal Opportunity Employer and encourages applications from women and members of minority groups.*

POSITIONS OPEN

BIOLOGICAL OCEANOGRAPHER. Applications are invited for an assistant professorship with teaching responsibilities at both the undergraduate and graduate level. Position to commence as early as 1 March 1977. Candidates must possess a Ph.D. degree in oceanography. Interests in benthos and environmental aspects of the coastal zone preferred. Send résumé, and names of references only, to **Dr. N. W. O'Hara, Head, Department of Oceanography and Ocean Engineering, Florida Institute of Technology, Melbourne, Florida 32901.** An Equal Opportunity Employer.

CELL BIOLOGIST: assistant professor to teach advanced undergraduate- and graduate-level courses in areas of animal physiology, ultrastructure, and endocrinology. Successful applicant expected to establish active research program in some aspect of metabolic regulation (preferably hormonal) or ultrastructure. Postdoctoral experience preferred. Available: September 1977. Salary approximately \$13,000 for 9 months. Send curriculum vitae and three letters of recommendation to **Dr. R. M. Nardone, Department of Biology, Catholic University, Washington, D.C. 20064.** An Equal Opportunity/Affirmative Action Employer.

CHAIRPERSON/HEAD DEPARTMENT OF OPHTHALMOLOGY

The Louisiana State University School of Medicine in New Orleans invites nominations and applications for the position of head, Department of Ophthalmology. Applicant should be qualified ophthalmologist and have related administrative and research experience. Respond to: **Dr. Harold M. Albert, Chairman, Search Committee, 1542 Tulane Avenue, New Orleans, Louisiana 70112.** An Equal Opportunity Employer.

CHAIRMAN DEPARTMENT OF BOTANY

The Department of Botany at Miami University is seeking a chairman for a 5-year renewable term. The department, with 15 faculty members, 30 graduate students (M.S./Ph.D.), and approximately 170 undergraduate majors, carries out an extensive program of undergraduate and graduate instruction and research. Applicants must have a reputation for excellence in research and teaching. Inquiries and recommendations are welcome. Prospective candidates should send curriculum vitae and solicit three letters of reference to arrive by 15 January 1977 to:

**Dr. Charles M. Vaughn
Chairman Search Committee
Department of Zoology
282 Upham Hall
Miami University
Oxford, Ohio 45056**

An Equal Opportunity/Affirmative Action Employer

CHAIRPERSON DEPARTMENT OF BIOLOGICAL CHEMISTRY UNIVERSITY OF CALIFORNIA, DAVIS, SCHOOL OF MEDICINE

The University is seeking candidates with a strong academic background and a broad understanding of teaching and research in biological chemistry. Candidates should also have administrative experience and a demonstrated interest in developing interdisciplinary teaching and research programs. Faculty rank would be commensurate with background. Applicants should submit a curriculum vitae, list of publications, and references to **Dr. Keith F. Killam, Jr., Ph.D., Chairman, Department of Pharmacology, School of Medicine, University of California at Davis, Davis, Calif. 95616,** by December 1976.

The University of California is an Affirmative Action/Equal Opportunity Employer. Women and minority candidates are encouraged to apply.

DEAN, SCHOOL OF PHARMACY

The University of Washington invites applications and nominations for the position of dean of its School of Pharmacy. A complete curriculum vitae and the names and addresses of references should accompany applications. Send before 1 December 1976 to:

**Dr. Maureen M. Henderson
Assistant Vice President for Health Affairs
Health Sciences Center, SC-61
University of Washington
Seattle, Washington 98195**

The University of Washington is an Equal Opportunity Employer.

POSITIONS OPEN

CHAIRPERSON, MICROBIOLOGY COLLEGE OF AGRICULTURE AND LIFE SCIENCES CORNELL UNIVERSITY

Applications are invited from candidates with established research programs and demonstrated leadership ability in microbiology to undertake the organization of a developing unit of microbiology and to assume administrative responsibility for the research, undergraduate teaching, and graduate training programs within the unit. Expansion will be centered about a present group of five faculty members with extant research and teaching programs. Opportunity exists for interaction with strong supporting departments of related biological sciences. Salary is commensurate with the responsibilities of the position. Starting date: 1 July 1977.

Interested persons are invited to direct inquiries and submit curriculum vitae and supporting documents to:

**Edwin B. Oyer, Chairman
Search Committee
261 Roberts Hall
Cornell University
Ithaca, N.Y. 14853**

Deadline for receipt of applications is 1 January 1977.

Cornell University is an Equal Opportunity Employer.

DEAN OF SCIENCES AND MATHEMATICS, Hunter College of the City University of New York. Position requires a distinguished record of scholarship in science or in mathematics and previous experience in higher education administration; applicant must be eligible for a professorial appointment; earned doctorate required. Send résumé to **Professor Peter D. Salins, Hunter College, 790 Madison Avenue, Room 304, New York, N.Y. 10021.** An Equal Opportunity/Affirmative Action Employer.

DEVELOPMENTAL BIOLOGIST: The Department of Biology has an opening for an assistant professor with research interests in the cellular and molecular aspects of development. Teaching will include upper division/graduate courses in specialty plus participation in a physiology course for health paraprofessionals. Applications are to be completed by 15 December. Send curriculum vitae, three letters of reference, transcripts, and a statement of 5-year objectives to: **Dr. Robert J. Stark, Department of Biology, Indiana University-Purdue University at Indianapolis, Indianapolis, Indiana 46205.** An Affirmative Action/Equal Opportunity Employer

DIRECTOR Sponsored Program Administration Temple University School of Medicine

The position is located in the Office of the Dean. Duties and responsibilities include: (i) organization, management, and direction of grants and contracts for research and training; and (ii) oversight of programs involving protection of human subjects, radiation safety, biohazards control, and laboratory animal welfare.

Applicants should have a doctorate in a biomedical science discipline, broad experience in the administration of grants and contracts, and familiarity with academic organization and procedures.

Applications should be accompanied by a résumé of qualifications and addressed to **Dr. Samuel Herman, Associate Dean for Research and Graduate Studies, Temple University School of Medicine, Philadelphia, Pennsylvania 19140.**

Equal Opportunity/Affirmative Action Employer

FACULTY POSITIONS IN BOTANY

Applications are invited from persons qualified for a faculty position in botany. Rank and salary are open. Postdoctoral experience preferred. One or two positions will be filled. Applicants should have a scholarly record showing a dedication to teaching and research. The area of interest in botany is flexible but emphasis will be placed on complementing specific areas of research and teaching in the Department such as plant physiology, systematics, and structural or cellular biology. Preference will be given to persons working with vascular plants. Applicants should send a curriculum vitae, a research prospectus, and three letters of recommendation to **Professor C. C. Black, Botany Department, University of Georgia, Athens, Georgia 30602.** Application deadline: 15 December 1976. The University of Georgia is an Equal Opportunity/Affirmative Action Employer.

POSITIONS WANTED

ECOLOGIST

A position for an aquatic ecologist at the assistant or associate professor level is open January or August 1977. Primary responsibility will be undergraduate/graduate instruction in ecology. Research activity is encouraged. Contact: **William Davies, Chairman, Department of Biology, Purdue University at Fort Wayne, Fort Wayne, Indiana 46805.** An Affirmative Action/Equal Opportunity Employer.

ENDOCRINOLOGY/PHYSIOLOGY

A temporary 1-year position as visiting assistant professor is available beginning 15 August 1977. Teaching duties include courses in vertebrate endocrinology and human anatomy and physiology. The Ph.D. is required. Send letters of application, curriculum vitae, transcripts, letters of recommendation, and reprints to **Dr. Carl W. Helms, Head, Department of Zoology, Clemson University, Clemson, S.C. 29631.** Telephone: 803-656-3247. An Equal Opportunity/Affirmative Action Employer.

The Department of Biology, College of Science, Texas A & M University, College Station, Texas 77843, is accepting applications for four faculty positions for September 1977. One is for an assistant professor in the area of aquatic biology with specialization in the systems ecology of fresh water. This individual must be qualified to teach in the area of general biology and ecology. A second position is for an experimental seed plant systematist (rank open) who is qualified to teach in the area of plant taxonomy and related areas. Candidates for these positions should have a Ph.D. with a minimum of 1 year of postdoctoral experience. High-quality research and teaching will be expected of those appointed. The third and fourth positions are for lecturers qualified to teach in the area of general biology. Candidates for these positions must have a Ph.D.; salary \$10,125. Time for postdoctoral research will be available in collaboration with one or more faculty members. For all positions, send complete curriculum vitae plus three letters of recommendation to **Chairman, Search Committee, Texas A & M University** is an Affirmative Action/Equal Opportunity Employer.

FACULTY POSITION IN MOLECULAR BIOLOGY: Applications are invited for an anticipated opening, pending budgetary approval, at the assistant professor or low-tenure level in the faculty of the Department of Molecular Biology, University of California at Berkeley. The Department is interested in persons with vigorous and stimulating research programs in one of the following fields: macromolecular assembly processes and subcellular structures; analysis of eukaryotic chromosomes and genes; replication and transcription of DNA. Facility with the electron microscope is especially desirable. Individuals should have the background and talent to instruct in a general program of molecular biology as well as in areas of their specialty. Applicants should send a curriculum vitae, bibliography, copies of two representative recent publications, statement of teaching and research objectives, and names and addresses of three references to **Chairman of the New Staff Committee, Department of Molecular Biology, University of California, Berkeley, Calif. 94720.** Applications should be received prior to 15 February 1977. The University of California is an Equal Opportunity/Affirmative Action Employer. Women and minority candidates are encouraged to apply.

INDIANA UNIVERSITY SCHOOL OF MEDICINE

Northwest Center for Medical Education seeks applications for a full-time faculty position at the rank of assistant or associate professor to develop and coordinate graduate and postgraduate clinical programs. Send résumé to: **Fred Adler, M.D., Chairman, Search and Screen Committee, Northwest Center for Medical Education, Indiana University School of Medicine, 3400 Broadway, Gary, Indiana 46408.** Indiana University School of Medicine is an Equal Opportunity Employer.

FACULTY POSITION is available for an accomplished scientist working in the area of the biochemistry, physiology, cell biology, or immunology of parasites. Three or more years of research experience beyond the doctorate are required. Rank and salary dependent on qualifications. Send curriculum vitae and three letters of reference to: **Dr. Ruth Nussenzweig, Division of Parasitology, Department of Preventive Medicine, New York University School of Medicine, 550 First Avenue, New York, N.Y. 10016.** An Equal Opportunity/Affirmative Action Employer. M/F.

POSITIONS OPEN

The Department of Earth and Planetary Environments of Kean College of New Jersey announces that a **FACULTY POSITION** has opened in the area of **Synoptic Meteorology**. The appointment will begin on 1 February 1977 and is renewable. The person selected for the position will be required to teach courses in synoptic meteorology, thermodynamic meteorology, and climatology, as well as to conduct research in his/her area of specialization. Rank and salary will be based on qualifications.

Meteorological facilities at Kean College include a synoptic lab and a weather station complete with facsimile and teletype services "A" and "C."

Interested persons are encouraged to contact:

Dr. A. Lee Meyerson
Department of Earth and Planetary Environments
Kean College of New Jersey
Union, New Jersey 07083
Telephone: 201-527-2064

Kean College is an Equal Opportunity/Affirmative Action Employer.

FORENSIC TOXICOLOGIST: Minimum: B.S., 4 years of experience. Chromatography and GC-MS experience essential. New well-equipped crime laboratory in New Berlin, Wisconsin. Salary to \$17,016, depending on experience. Send résumé to **Personnel Director, Wisconsin Department of Justice, 123 West Washington Avenue, Madison, Wisconsin 53702.**

An Equal Opportunity Employer

HYDROLOGIST, UTAH

The Department of Geology and Geophysics, University of Utah, invites applications for a faculty position of junior rank in the area of groundwater hydrology, opening 1 July 1977. We seek a talented individual who is interested in joining a dynamic, growing department located in an area offering outstanding opportunities for groundwater research. Closing date for applications is 1 February 1977. Send inquiries to **Stanley H. Ward, Chairman, Department of Geology and Geophysics, University of Utah, Salt Lake City, Utah 84112.**

The University of Utah is an Equal Opportunity Employer.

ANNOUNCEMENT SCHOOL OF PUBLIC AND ENVIRONMENTAL AFFAIRS INDIANA UNIVERSITY

The School of Public and Environmental Affairs provides graduate and undergraduate degree programs, as well as research, professional, and technical services on the Bloomington, Indianapolis, Northwest (Gary), South Bend, and Fort Wayne campuses of Indiana University. Recruiting is under way for the 1977-78 academic year for the areas listed below. If any location is unacceptable to you, please indicate.

Interested applicants should send a curriculum vitae to the address listed below no later than 15 January 1977.

Dr. W. G. Meinschein
Associate Dean for Academic Affairs
School of Public and Environmental Affairs
400 East 7 Street
Bloomington, Indiana 47401

ENVIRONMENTAL ENGINEERING—Research and teaching at graduate and undergraduate levels including the master of science in Environmental Science Program. Teaching will include a graduate survey course on environmental residuals control. Relevant practical experience in addition to strong academic credentials is preferred. Applicants with cognate training or experience in planning, environmental impact analysis, or environmental economics or sociology or policy and administration will be given preference.

ENVIRONMENTAL PLANNING OR ENVIRONMENTAL ECONOMICS—Teach graduate and undergraduate courses for students in environmental science and policy. Relevant practical experience together with strong academic credentials. Preference given to applicants with experience and interest in environmental impact analysis and/or with cognate experience or training in other environmental areas (policy and administration, engineering, or environmental science).

An Equal Opportunity/Affirmative Action Employer

POSITIONS OPEN

FACULTY POSITION IN CELL BIOLOGY

The Department of Cell Biology of the University of Texas Health Science Center at Dallas is seeking a senior faculty member to direct a course in cell biology and histology for graduate and medical students. The individual sought should already have developed a strong research program in the general area of cellular or developmental biology which can be continued in this position. Nominations or curriculum vitae should be sent to: **Faculty Search Committee, Department of Cell Biology, The University of Texas Health Science Center at Dallas, Southwestern Medical School, 5323 Harry Hines Boulevard, Dallas, Texas 75235.** *An Equal Opportunity/Affirmative Action Employer.*

FACULTY POSITION IN DIVISION OF PHARMACODYNAMICS AND TOXICOLOGY

A position is available at the University of Kentucky College of Pharmacy for an individual with a Ph.D. degree, preferably with a professional degree in pharmacy, who is committed to being a distinguished faculty person. Level of the position is open. Primary responsibilities of the position include: sharing of undergraduate and postgraduate instruction in the life sciences area with special emphasis on physiology, pathology, pharmacology, therapeutics, and toxicology; development of tutorial materials for on- and off-campus teaching; active participation in continuing education programs; and scientific research. Teaching responsibility is primarily for pharmacy students, but with some input into teaching students of other health-related fields including medical students. Excellent opportunities exist to conduct cooperative interdisciplinary basic and clinical research with faculty of the five colleges within the University Medical Center, and to supervise training of advanced degree students.

Send curriculum vitae and names and addresses of three persons who can be contacted for reference to:

Joseph V. Swintosky, Dean
College of Pharmacy
University of Kentucky
Lexington, Kentucky 40506

The University of Kentucky is an Equal Opportunity Employer.

POSITIONS OPEN

FACULTY POSITIONS IN PHYSIOLOGY AND IMMUNOLOGY

The School of Life Sciences, University of Nebraska, Lincoln, invites nominations and applications for an assistant or associate professor in physiology and one in immunology. Appointees will be expected to conduct vigorous research programs in addition to teaching requirements and undergraduate and graduate student advising. A Ph.D. degree and postdoctoral experience or equivalent are required. Physiologist should be well trained in comparative physiology and is expected to participate in teaching an introductory course in anatomy and physiology for nursing students, physiology for non-majors and general physiology. Immunologist will be involved in teaching introductory microbiology and upper-level immunology. Starting date: 15 August 1977. Appointment is on an academic year basis and the salary is negotiable. Contacts: **Physiology: F. W. Wagner; Immunology: G. L. Smith.** Each applicant should send a résumé, publication list, and names of three references to the indicated contact, **School of Life Sciences, University of Nebraska-Lincoln, Lincoln, Nebraska 68588**, before 1 January 1977.

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

DEPARTMENT OF HUMAN PHYSIOLOGY UNIVERSITY OF CALIFORNIA SCHOOL OF MEDICINE DAVIS, CALIF. 95616

Applications are invited for a **FACULTY POSITION** at the assistant professor level to become available after 1 July 1977. Candidates must have an M.D. or Ph.D. plus 2 years or more of postdoctoral experience in the physiology of body fluids and electrolytes with emphasis on biophysical principles and/or homeostatic control mechanisms. Duties include teaching medical and graduate students and development of an effective and independent research program. Send curriculum vitae, publications list, and names of referees to **E. M. Renkin, Chairperson, The University of California is an Equal Opportunity Employer.** *Applications from women and minorities are encouraged.*

FACULTY POSITIONS OPEN COLLEGE OF MEDICINE KING FAISAL UNIVERSITY DAMMAM, SAUDI ARABIA

Applications are now invited from qualified men and women in these pre-medical and preclinical subjects:

Chemistry	Biochemistry
Biology	Physiology
Physics	Embryology
Anatomy	Pathology
Community Medicine	Biostatistics
Histology	Epidemiology

Doctorate or similar degree required. M.D. degree receives higher salary. Language of instruction is English. Positions are available immediately and for 1977-78.

Salary ranges (approximate):

Professor: \$23,000 to \$25,344.
Associate professor: \$18,423 to \$22,272.
Assistant professor: \$13,824 to \$25,492.

Free, furnished accommodation is provided. Incomes not subject to Saudi Arabian income tax.

Send requests for application forms and information to:

Dr. Mohammed T. Altorki, M.D., MRCP
Dean of the Medical Faculty
King Faisal University
c/o Mr. Ghazi Abdul Jawad
Saudi Arabian Educational Mission
2223 West Loop South, Suite 400
Houston, Texas 77027

DIRECTOR, ENVIRONMENTAL MONITORING AND SUPPORT LABORATORY-LAS VEGAS

The U.S. Environmental Protection Agency is seeking a director, Environmental Monitoring and Support Laboratory-Las Vegas, GS-16/17, with the Office of Research and Development. The Laboratory is responsible for programs in development, test, evaluation and standardization of equipment, techniques, and systems for remote sensing and in situ sensing of environmental parameters; development of monitoring data and information systems; investigations of pathways of exposure and biological effects of selected pollutants (including radioactive); development and operation of a national pollution monitoring quality assurance program for radiation and remote sensing measurement systems; provision of technical support to Agency monitoring programs for system design, establishment, maintenance, field operations, and analytical services; and provision of aircraft services to the Agency for airborne monitoring of research and field operations. Candidates must have a bachelor's or higher degree in physical science, engineering, or mathematics that included 24 semester hours in physical sciences and/or closely related engineering science such as mechanics, dynamics, properties of materials, and electronics; or equivalent combination of 4 years of experience and education that included 24 semester hours of physical science and/or closely related engineering science. In addition, at least three or more years of professional experience, including managing a scientific or technical group, are required. One year of the required experience must have been at a level of difficulty comparable to the next lower level in the Federal Service.

Location: Las Vegas, Nevada.

Salary: \$39,600 plus civil service benefits.

Contact: Please send a detailed resume including salary history or a completed Standard Form 171 (Personal Qualifications Statement), which can be obtained from any federal government personnel office, postmarked no later than 18 November 1976, to **Brenda Cunningham (PM-212), Personnel Management Division, Environmental Protection Agency, 401 M Street, SW, Washington, D.C. 20460.**

POSITIONS OPEN

FACULTY POSITIONS

The University of Florida, Department of Biochemistry and Molecular Biology, is recruiting for two faculty positions: at the junior (assistant professor) and senior level (associate professor or professor).

We are seeking persons with training in mammalian cell and molecular biology with a strong background in physical biochemistry or enzymology. A superior record of scholarship as demonstrated by research publications and professional recognition is essential for the senior-level position and an individual with the potential for outstanding research is sought for the junior level. Salary will be commensurate with experience.

Send curriculum vitae including a statement of research and teaching goals and the names of four references by 15 January 1977 to:

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

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

The Department of Psychology at Cornell University announces an opening for a new **FACULTY MEMBER IN COGNITIVE DEVELOPMENT**, beginning August 1977. The appointment will probably be at the level of assistant professor. A background in general developmental psychology as well as in a more specialized area would be desirable. Active research interests as well as teaching skill are essential. Substantive research interests might be in areas such as perception, memory, language acquisition, conceptual development, or ethnic and cross-cultural differences. Candidates should submit a complete curriculum vitae, reprints or preprints of completed research, and letters sent directly from three referees. Write to **Developmental Search Committee, Department of Psychology, Uris Hall, Cornell University, Ithaca, New York 14853**.

Cornell University is an Equal Opportunity Employer. Minority candidates and women are strongly encouraged to apply.

GROUP LEADER of expanding research team. Academic preparation will include a Ph.D. in solid state physics, nuclear physics, nuclear engineering, or materials science/engineering.

Background and interest in fusion technology must be evident. Project management and/or marketing must be included in experience background. A strong technical ability is required. Should have good knowledge of use of surface analytical tools (Auger, SIMS, and so forth) for material related studies.

Reply in confidence with detailed résumé to **E. P. Galbraith, Battelle-Northwest, P.O. Box 999, Richland, Washington 99352**.

An Equal Opportunity/Affirmative Action Employer

IMMUNOCHEMIST

New lab in research center located 45 miles northwest of Washington, D.C., has immediate opening for doctorate-level scientist in immunochemistry of herpesviruses. Qualified candidates should send curriculum vitae and three references to:

M. L. Knill—Recruitment
Department 312
FREDERICK CANCER RESEARCH CENTER
Litton Bionetics, Inc.
P.O. Box B
Frederick, Maryland 21701
An Equal Opportunity Employer, M/F

POSTDOCTORAL FELLOW

Position available at biomedical research center after 1 December 1976 for Ph.D., under the leadership of Dr. M. G. Hanna, Jr., and Dr. C. Bucana. Will participate in host-tumor interaction research. Knowledge of immunology, enzymology, and electron microscopy techniques required. Qualified candidates should submit curriculum vitae and three references to:

M. L. Knill—Recruitment
Department 610
FREDERICK CANCER RESEARCH CENTER
Litton Bionetics, Inc.
P.O. Box B
Frederick, Maryland 21701
An Equal Opportunity Employer, M/F

POSITIONS OPEN

THE UNIVERSITY OF VICTORIA DEPARTMENT OF BIOLOGY FACULTY POSITION

The Department of Biology intends to make an appointment (rank open) in marine biology, effective 1 July 1977. The preferred area of research and teaching is marine zoology. The natural marine environment of Vancouver Island, Bamfield Marine Station (operated jointly by the University of Calgary, Simon Fraser University, the University of Alberta, the University of Victoria, and the University of British Columbia), and a new and well-equipped 54-foot oceanographic vessel offer exceptional research facilities in addition to those associated with a new biological sciences building on the campus. A large federal government laboratory, the Institute of Ocean Sciences, Patricia Bay, in final stages of construction, is located about 20 miles from the University of Victoria.

Applications, including a complete up-to-date curriculum vitae, should be addressed to **Dr. D. V. Ellis, Chairman of the Search Committee, Department of Biology, University of Victoria, Victoria, B.C., Canada V8W 2Y2**. The competition will close on 31 December 1976.

The Department of Microbiology, College of Medicine, is seeking an **IMMUNOLOGIST** to fill a faculty position at a professional level commensurate with experience and accomplishments. Duties include teaching of the medical and graduate students and pursuit of an active and productive research program. Preference is given to applicants with evidence of independent and significant research productivity. Send curriculum vitae and list of three references to: **Dr. David Rifkind, Department of Microbiology, College of Medicine, University of Arizona, Tucson, Arizona 85724**. *An Equal Opportunity/Affirmative Action Employer under state and federal laws and regulations including Title IX, 1972 Education Amendments.*

MICROBIOLOGIST

The Department of Microbiology at Southern Illinois University, Carbondale, is seeking applications from qualified microbiologists for a position in the department. Applicants must have the Ph.D. degree, postdoctoral experience, and publications. The department is best able to respond to applicants with interests in microbial physiology, molecular biology, microbial genetics, or medical microbiology, but applicants with other backgrounds are encouraged to apply. The successful candidate will be expected to participate in both graduate and undergraduate teaching and to develop an independent research program. Rank and salary are dependent upon experience. Applicants should submit a curriculum vitae and names of at least three references to: **Dr. Robert Jackson, Acting Chairman, Department of Microbiology, Southern Illinois University, Carbondale, Ill. 62901**.

Southern Illinois University is an Equal Opportunity/Affirmative Action Employer.

NEPHROLOGIST—The Division of Nephrology in the Department of Medicine at the University of Alabama in Birmingham has available a position at the assistant professor level. The position is open to qualified individuals at a senior level fulfilling three criteria. First, the individual must have expertise in the care and management of patients with renal disease and in the operation and administration of a hemodialysis unit. Second, the individual must have a firm commitment to teaching programs oriented to medical students, graduate students, house officers, and fellows. Finally, the individual should have a research background and be able to carry out independent research, preferably in the physiology of renal tubular transport processes. Apply to the **Division of Nephrology, University Station, Birmingham, Alabama 35294**. Telephone: 205-934-3585. *An Equal Opportunity/Affirmative Action Employer*. Expiration date for receipt of applications: 1 January 1977.

NEUROPHYSIOLOGIST

The Department of Physiology at Jefferson Medical College, Thomas Jefferson University, has a vacancy for a neurophysiologist at the assistant professor level. Candidates should have at least 2 years of specialized postdoctoral training, and should have demonstrated capabilities in teaching and research. Background in cardiovascular or respiratory physiology would be desirable. Send complete curriculum and four references to: **Dr. Allan M. Lefer, Professor and Chairman, Department of Physiology, Jefferson Medical College, Philadelphia, Pa. 19107**. *An Equal Opportunity Employer*

POSITIONS OPEN

HEAD DEPARTMENT OF PSYCHOLOGY

The Department of Psychology, University of Georgia, Athens, Georgia 30602, seeks qualified applicants for the position of department head, to administer a department of 200 graduate students, 475 undergraduate majors, and 48 faculty members. Graduate programs are offered in clinical psychology (APA approved), biopsychology, experimental, measurement, and social psychology. Applicants should be eligible for appointment at the rank of full professor. Area of research competence is open. Interest and ability in academic administration is essential. Letters of application, together with names of three referees, should be sent as soon as possible to **Chairman, Search Committee**. Appointment can begin 1 July 1977. *An Equal Opportunity/Affirmative Action Employer.*

INSTRUCTOR/RESEARCH ASSOCIATE wanted to participate in teaching qualitative organic analysis laboratory and to do research in membrane biochemistry and transport. Send résumé and letters of reference to **Dr. Joan E. Lusk, Department of Chemistry, Brown University, Providence, Rhode Island 02912**. *Brown University is an Equal Opportunity/Affirmative Action Employer.*

MICROBIOLOGIST. Assistant professorship, beginning September 1977, for 3- to 5-year appointment. Ph.D. necessary. Individual should have broad biological background, but must be qualified to teach introductory microbiology, advanced microbiology or immunology or virology, and introductory biology. Additional expertise valued, especially electron microscopy and/or biochemistry. Active research interest expected; good facilities. Position represents a challenging opportunity for advancement. Send curriculum vitae, explanation of qualifications, and also have three letters of reference sent to **Dr. Patricia Johnson, Chairman, Biology Department, Vassar College, Poughkeepsie, N.Y. 12601**. *Vassar College is an Equal Opportunity/Affirmative Action Employer.*

PHARMACOLOGY FACULTY POSITION

The Division of Biochemistry, Physiology and Pharmacology, The University of South Dakota School of Medicine, invites applications from well-qualified pharmacologists for a faculty position in an expanding program. It is expected that the appointment will be made by 1 July 1977. Applicants must hold a Ph.D. degree and have at least 2 years of postdoctoral training. Preference will be given to applicants whose research experience is in the molecular aspects of pharmacology. Applicants must have publications demonstrating productivity and promise in scientific investigation. Candidates should be prepared to develop a strong, independent research program, participate in graduate student training, and teach pharmacology to medical students. Although there is a preference for candidates at the assistant professor level, consideration will be given to more advanced applicants. Salary is negotiable. Please send a curriculum vitae, including a complete bibliography, a brief description of anticipated future research directions, and the names of three references by 31 December 1976 to: **R. J. Peanasky, Ph.D., The University of South Dakota School of Medicine, Vermillion, S.D. 57069**. *Equal Education and Employment Opportunity/Affirmative Action Institution.*

University of California, Berkeley, anticipates a full-time position in **PHYSICAL ANTHROPOLOGY**, beginning fall 1977, for a person interested in teaching and research on human and nonhuman primate behavior (biosocial anthropology). Teaching introductory human evolution essential. Other outstanding applicants in physical anthropology may be considered. *Applications from minorities and women are especially encouraged.* Appointment in the assistant professor range: \$14,500 to \$15,100. Ph.D. required for appointment. Send curriculum vitae to: **Jack M. Potter, Secretary of the Executive Committee, Department of Anthropology, University of California, Berkeley, Calif. 94720**.

POSTDOCTORAL APPOINTMENTS

Postdoctoral appointments in the field of regulation of membrane-bound enzyme systems with special emphasis on purification and reconstitution of components of hormone-sensitive adenylyl cyclase. Strong background in membrane biochemistry, enzyme kinetics, or protein purification desired. Stipend: \$10,000 per year. Available immediately. Send curriculum vitae and references to **Dr. Lutz Birnbaumer, Professor, Department of Cell Biology, Baylor College of Medicine, Houston, Texas 77030**. *An Equal Opportunity Employer.*

POSITIONS OPEN

PHYSICAL OR CHEMICAL OCEANOGRAPHER

The Institute of Oceanography seeks to fill a faculty position with either a physical or a chemical oceanographer. In physical oceanography the preferred interests include one or more of: large-scale air-sea interaction, marine meteorology, synoptic oceanography, arctic oceanography, and numerical modeling. In chemistry the field of interest would be in the organic aspects related to marine biological production. Teaching duties will include supervision of graduate students at the M.Sc. and Ph.D. levels, graduate instruction in oceanography, and some undergraduate teaching in physics or chemistry. Appointment at assistant or associate professor level, according to experience and qualifications. Send curriculum vitae, list of publications, outline of research interests, and names of three referees to **Dr. G. L. Pickard, Director, Institute of Oceanography, University of British Columbia, Vancouver, B.C., Canada, V6T 1W5.**

POSTDOCTORAL POSITION IN PHYSIOLOGY

The position available is for research in the area of membrane transport. The candidate should have a strong theoretical and experimental background in biochemical and biophysical approaches to membrane biology, and an interest in transport across epithelial membranes. He or she must have a full course background in physiology and biochemistry, and must have experience in the biochemical approach to transport physiology. The ideal candidate would have excellent theoretical skills and show great promise experimentally.

If you are interested in this position, please send your letter of application and résumé to:

Dr. Wilfried Mommaerts, Chairman
University of California
Department of Physiology
53-259 Center for the Health Sciences
Los Angeles, California 90024

Affirmative Action/Equal Opportunity Employer. Minority and women candidates are encouraged to apply.

POSTDOCTORAL POSITION immediately available for research on fetal and tissue antigens and immune responses to these antigens, including autoimmunity. Previous relevant Ph.D.-level research experience required. No telephone inquiries. Send curriculum vitae, including names of references, to **Dr. George J. Friou, Director, Clinical Immunology and Rheumatic Disease Section, University of Southern California School of Medicine, 2025 Zonal Avenue, Los Angeles, California 90033. An Equal Opportunity/Affirmative Action Employer.**

POSTDOCTORAL POSITION. Immediate opening for Ph.D. or M.D. with strong background in single-cell electrophysiology and neuronal tracing techniques. Will investigate physiological and anatomical properties of brain catecholamine neurons. Starting salary, \$12,000. Send résumé and three letters of reference to **Dr. Dwight German, Department of Physiology, University of Texas Health Science Center, Dallas, Texas 75235.**

An Equal Opportunity/Affirmative Action Employer

POSTDOCTORAL POSITION: Ph.D. in immunology (with strong background in lipid biochemistry) or Ph.D. in biochemistry (with strong background in immunology). Studies concern the relationship of red cell membrane composition, structure, and immunological behavior. Antigenicity of liposomes. Experience in membrane immunology and hematology very desirable. Start immediately: \$12,000 per year; secure for 3 years. **R. Ostwald, Department of Nutritional Sciences, University of California, Berkeley, Calif. 94720. Telephone: 415-642-0750.**

The University is an Equal Opportunity Employer.

POSTDOCTORAL RESEARCH ASSOCIATE position available to work on the characterization, localization, and biological importance of plasma membrane proteins in mammalian spermatozoa, with particular attention directed toward the mechanism of sperm capacitation. Work will be done under the direction of **Dr. E. D. Clegg.** Send résumé and the names of three references to **Dr. Walter R. Woods, Head, Department of Animal Sciences, Purdue University, West Lafayette, Ind. 47907.** Applications must be received on or before 15 December 1976. *Purdue University is an Equal Access/Equal Opportunity Employer.*

12 NOVEMBER 1976

POSITIONS OPEN

One-year **POSTDOCTORAL POSITION** available for an organic chemist having experience in nucleic acids synthesis, and interest in nucleic acids physical chemistry, starting March 1977. The salary range is 4500 to 6500 francs per month according to qualifications. No knowledge in French required. Send curriculum vitae and list of publications to

Dr. J. Tournon
Groupe de Physique des Solides de l'E.N.S.
Tour 23
Université Paris VII
2, place Jussieu
75221 Paris Cedex 05—France

POSTDOCTORAL POSITION, Biology Department, Brookhaven National Laboratories, New York. Available January 1977, for the investigation of model and biological membrane systems, especially through the use of NMR techniques. Bruker WH-360 (¹H, ³¹P, and ¹³C) available. Minimum starting salary \$11,000. Contact **Dr. Alan C. McLaughlin, (current address), Department of Biochemistry, Oxford University, Oxford, U.K. OX1 3QU.**

POSTDOCTORAL POSITION available 1 January 1977 for studies on the molecular pharmacology of antineoplastic drugs. Individual should be familiar with molecular biologic techniques and be interested in applying these techniques to the study of the mechanism of action of antineoplastic drugs. Send curriculum vitae and names of two references to:

Stanley T. Crooke, M.D., Ph.D.
Department of Pharmacology
Baylor College of Medicine
1200 Moursund Avenue
Houston, Texas 77030

POSTDOCTORAL POSITION

Immediate opportunity for applied research and methods development in a progressive clinical laboratory. Tenure 1 to 3 years. The successful applicant will hold a recent Ph.D. degree, preferably in chemistry or biochemistry, and will be well experienced in experimental design and analytical instrumentation. Clinical chemistry experience helpful, but not necessary. Salary: \$11,000. Exceptional benefits include choice between two complete, company-paid health insurance plans (medical, dental, vision) also disability and life insurance, profit sharing, and tuition reimbursement. Send curriculum vitae, transcripts, and reprints to: **Dr. M. Larsen (P.D.), ICN Medical Laboratories, Inc., P.O. Box 3932, Portland, Oregon 97208. An Equal Opportunity Employer, M/F.**

POSTDOCTORAL POSITION

Immediate opening in immunology and physiology research for recent Ph.D. with strong background in radioimmunoassay and an interest in chickens. Please send résumé and three letters of recommendation to **Dr. Bruce Glick, Poultry Science Department, P.O. Box 5188, Mississippi State University, Mississippi State, Miss. 39762. An Equal Opportunity/Affirmative Action Employer.**

POSTDOCTORAL RESEARCH ASSOCIATE

Position available for 2 years or longer beginning July 1977 or earlier for studies of leukemia and melanoma cell-surface antigens, lectin-binding sites, and adhesiveness of normal and neoplastic cells. Salary depends upon qualifications. Please send curriculum vitae to: **Dr. Robert N. Taub, Chief, Division of Medical Oncology, Box 273, Medical College of Virginia, Richmond, Virginia 23298.**

A full-time **POSTDOCTORAL RESEARCH LIMNOLOGIST** position will be available 1 December 1976, to participate in a research program related to zooplankton feeding and population dynamics in Lake Tahoe, California-Nevada. Salary: \$13,116. Please send curriculum vitae, bibliography, and references to **Dr. Charles R. Goldman, Division of Environmental Studies, University of California, Davis, Calif. 95616.**

POSTDOCTORAL RESEARCH POSITION, available for Ph.D. in immunobiology, immunology, or immunogenetics to participate in an investigation of the mechanisms of immunity to microbial infection and cancer. Campus housing available. Apply with résumé to: **Dr. R. J. North, Director, Trudeau Institute, Inc., Saranac Lake, N.Y. 12983. Affirmative Action/Equal Opportunity Employer.**

CHEMISTRY

The Lawrence Livermore Laboratory, located in the San Francisco Bay Area, has openings for the following experienced chemists in our applied science R&D Laboratory:

NUCLEAR CHEMIST

Ph.D./M.S. with a broad background in nuclear chemistry, radiochemistry, nuclear physics or related fields preferred for work involving experimental and calculations in radiochemical diagnostics of nuclear explosives. Will participate as a team member to develop diagnostic plans to characterize the performance of nuclear devices, and improve the interpretation of radiochemical data. Demonstrated ability in areas of nuclear reactions induced by neutrons and charged particles, radiochemical separations of transuranium elements, and experience with sophisticated laboratory instruments and large computers is desirable. (Reply to position RC-512-DR.)

CHEMIST

B.S. with background in chemistry/physics to take part in operating and maintaining three mass spectrometers as tools in measuring trans thorium elements. Assignments will include programming of mini-computers, data interpretation, sample preparation, and method development. Experience in mass spectroscopy, electronics and/or other analytical instruments is desirable. Wet chemistry experience in ion exchange separations is required. (Reply to position RC-515-DR.)

CHEMIST

B.S./M.S. in chemistry with prior training in radiochemistry to perform transplutonium and fission product chemical separations. Assignment will include participation in heavy element and nuclear structure research programs and development of rapid automated chemical separations in time scales of 1 or 2 seconds. Background should include experience in bench wet inorganic chemistry to do shot chemistries and production computer work. (Reply to position RC-520-DR.)

If your education and experience qualify you for one of the above, send your resume (indicating position choice) in confidence to: **Personnel Department, LAWRENCE LIVERMORE LABORATORY, P.O. Box 808, (SC-116), Livermore, California 94550.**

U.S. Citizenship
Required



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LAWRENCE LIVERMORE LABORATORY

POSITIONS OPEN

POSTDOCTORAL POSITIONS IN BIOCHEMISTRY, RICE UNIVERSITY

The Department of Biochemistry, Rice University, announces the immediate availability of a postdoctoral position in crystallography. Previous experience in single crystal x-ray structure determination of proteins and biologically important small molecules is required. Postdoctoral opportunities in other laboratories may also become available in the near future.

Prospective candidates should submit résumés together with the names of three individuals familiar with their research to: **Department of Biochemistry, Rice University, Houston, Texas 77001.**

Rice University is an Equal Opportunity/Affirmative Action Employer.

Competitive applications are now being accepted for **POSTDOCTORAL RESEARCH ASSOCIATE-SHIPS**, starting 1 July 1977, in the areas of behavioral sciences, biochemistry, biophysics, dental sciences, environmental stress, immunology, microbiology, parasitology, pathology, toxicology, and underwater biomedical research. Salary: \$16,255 per annum.

Interested applicants are encouraged to write to **Dr. A. Ahmed, Chairman, Postdoctoral Research Committee, Naval Medical Research Institute, Bethesda, Maryland 20014.** *Equal Opportunity Employer.*

THE UNIVERSITY OF DELAWARE invites applications for Unidel Professorships of Chemistry

Two new professorships of chemistry, both tenured, have been endowed by the Unidel Foundation. Outstanding candidates are sought, and salaries offered will be attractive to such persons. The University will contribute generously to relocation expenses.

The Department of Chemistry is most interested in attracting scientists of international reputation who wish to continue vigorous research pursuits in addition to a normal teaching load. No categorical constraints are set on the area of specialization within chemistry.

Qualified applicants are requested to send their applications with supporting documents to **Dr. Wetlaufer, Chair, Department of Chemistry, 1055 Brown Laboratories, University of Delaware, Newark, Delaware 19711.** Initial contacts should be made by 15 November 1976.

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

RESEARCH ASSOCIATE: Position available immediately for a **biochemist/physiologist** in an active clinical research group. The primary research project involves characterization of a serum promoter of compensatory renal growth produced in response to unilateral nephrectomy in mammals. Submit résumé and names of three references to **Dr. Kenneth R. Stone, Department of Surgery, Division of Urology, P.O. Box 3062, Duke University Medical Center, Durham, North Carolina 27710.** *Affirmative Action/Equal Opportunity Employer.*

UNIVERSITY OF CALIFORNIA SANTA BARBARA Marine Science Institute

Two 1-year **research positions**, effective 1 February 1977. Applicants are sought from Ph.D.-level researchers to integrate with coastal oceanography programs in the Santa Barbara Channel by faculty members in biology, geology, geography, and chemistry. Extended appointment is dependent on extramural funding. Applications with curriculum vitae, list of publications, names of references, and summary of research interests should be sent before 15 December 1976 to: **Director, Marine Science Institute, University of California, Santa Barbara, Santa Barbara, California 93106.** *The University of California is an Equal Opportunity/Affirmative Action Employer.*

RESEARCH SCIENTIST—With academic training in physiological psychology, experimental psychology, or physiology. Ph.D. degree with considerable experience in human psychophysiology. Excellent working conditions and IR Lab-of-the-Year. Company-paid benefits, including profit sharing. Send curriculum vitae, work experience, and salary history to: **Personnel Administrator, Philip Morris Research Center, P.O. Box 26583, Richmond, Va. 23261.** *An Equal Opportunity Employer, M/F.*

POSITIONS OPEN

The **Department of Poultry Science** at Oregon State University invites applications for two positions at the assistant professor level in the fields of (i) **poultry genetics-endocrinology** and (ii) **physiology-management**, involving both research and teaching responsibilities. The Ph.D. degree is required. The positions will be available 1 July 1977. Completed applications are desired as soon as possible, but will be accepted for consideration until 28 February 1977. *Oregon State University is an Affirmative Action Employer and encourages applications from qualified women and minorities.* For information about the department and specific requirements for the positions, write:

**Dr. G. H. Arscott, Head
Department of Poultry Science
Oregon State University
Corvallis, Oregon 97331**

SCHISTOSOMIASIS SYSTEMS ANALYSIS

The Museum of Comparative Zoology is undertaking a 3-year theoretical study of the schistosomiasis cycle and has a position for a **research fellow**. Candidates must be familiar with theoretical analyses of nonlinear systems and should be committed to the study of public health problems. Preference will be given to candidates with knowledge of economic modeling. Address inquiries to **R. C. Lewontin, Museum of Comparative Zoology, Harvard University, Cambridge, Mass. 02138.** *Harvard University is an Affirmative Action/Equal Opportunity Employer.*

DEPARTMENT OF HEALTH, EDUCATION, AND WELFARE Food and Drug Administration (FDA) Bureau of Foods Washington, D.C.

SCIENTIFIC-ADMINISTRATIVE POSITIONS: Several very challenging Civil Service positions available involved with the safety review of food and color additives. Responsibilities include participating in the scientific team review of these food ingredients; recommending whether the ingredients should be permitted for use in foods; conferring with consumer and industry representatives; and developing regulations which either approve the ingredients for use in foods or prohibit their use.

Candidates should possess a thorough educational background in the physical or biological sciences (Ph.D. desirable), the ability to make sound, justifiable recommendations and judgments, and the ability to effectively convey these recommendations both orally and in writing. Applicants who are selected will receive training on FDA laws and regulations, and will be expected to develop the capability to interpret these laws and regulations.

Salary: From \$16,255 to \$25,000 per annum depending upon qualifications. (A salary increase is pending.) Send curriculum vitae, bibliography, and transcript or listing of college and university courses to:

**DHEW/Food and Drug Administration
Division of Personnel Management (HFA-410)
Personnel Operations Branch—FOB 8
200 C Street, SW
Attn: P. A. Price
Washington, D.C. 20204**

All applicants must meet U.S. Civil Service requirements. *FDA is an Equal Opportunity Employer.*

SENIOR RESEARCH ASSOCIATES, M.D. or Ph.D. Experienced in viral tumor immunology to conduct research in the area of Epstein-Barr virus, molecular virology, and viral tumor immunology. One-year appointment, continuation of employment contingent upon grant and contract funding. Send response to **E. W. Lamon, M.D., D.Sc., Department of Surgery, University Station, Birmingham, Alabama 35294.** *Affirmative Action/Equal Opportunity Employment*

VIROLOGIST—MOLECULAR BIOLOGIST. A full-time faculty position. Applicant must have strong postdoctoral experience in molecular and/or biochemical aspects of animal viruses, and be capable of developing an independent research program, preferably dealing with some aspects of tumor viruses. Teaching duties include participation in courses for medical and graduate students. Possible joint appointment in Fels Research Institute. Send curriculum vitae and references to: **Dr. Gerald D. Shockman, Chairman, Department of Microbiology and Immunology, School of Medicine, Temple University, Philadelphia, Pa. 19140.** *Equal Opportunity/Affirmative Action Employer.*

POSITIONS OPEN

VIROLOGIST

Ph.D. or M.S. with experience and interest in clinical or diagnostic virology of laboratory animals. Position entails supervision of serology section with an opportunity to participate in cancer research and/or animal diseases. Qualified candidates should submit résumé with three references to:

**M. L. Knill—Recruitment
Department 570
FREDERICK CANCER RESEARCH CENTER
Litton Bionetics, Inc.
P.O. Box B
Frederick, Maryland 21701
An Equal Opportunity Employer, M/F**

WILDLIFE BIOLOGIST—Ph.D. in wildlife management or related field. Rank and salary open, commensurate with experience. Teaching and advising in the wildlife curriculum at the undergraduate and graduate level. Active involvement in research expected. Send résumé and three letters of reference by 31 December 1976 to **Dr. John Kelley, Division of Biology, Kansas State University, Manhattan, Kansas 66506.** *An Affirmative Action/Equal Opportunity Employer.*

WILDLIFE, FISHERIES, FORESTRY COORDINATOR

The Departments of Zoology and Forestry of North Carolina State University are seeking a coordinator of research and instruction for their Wildlife Biology and Fisheries Biology programs. Qualifications include a Ph.D. degree and evidence of accomplishments in research, teaching, or administration. Appointment probably at the associate professor level with some teaching and research obligations in field of specialization. Send curriculum vitae and three letters of reference by 15 December 1976 to: **Dr. Donald E. Smith, Department of Zoology, North Carolina State University, Raleigh, North Carolina 27607.** *North Carolina State University is an Equal Opportunity/Affirmative Action Employer.*

GRADUATE STUDY

GRADUATE ASSISTANTSHIPS at the Oregon Graduate Center for Ph.D. students in **chemistry and biochemical sciences, applied physics and electronic science, materials science, and environmental science.** Small institution offers close, informal working relationship between students and faculty. Wide variety of ongoing research programs with both governmental and industrial sponsorship. Minimum stipend: \$4500 plus tuition remission. Write: **Director of Education, Oregon Graduate Center, 19600 NW Walker Road, Beaverton, Oregon 97005.** *An Equal Opportunity/Affirmative Action Employer.*

REQUESTS FOR PROPOSALS

SEA-AIR EXCHANGE PROGRAM

The Scientific Advisory Committee of a proposed Sea-Air Exchange Program (SEAREX) to be supported by the Office for the International Decade of Ocean Exploration, National Science Foundation, invites scientists interested in participating in a multidisciplinary program to submit letters of intent outlining their proposed research. The objectives of the program are: (i) the quantitative measurement of atmospheric fluxes of continental materials to the oceans; (ii) the identification of the sources of such materials; and (iii) an understanding of the exchange mechanisms. These letters of intent will be evaluated by the Scientific Advisory Committee within the framework of a comprehensive program with the above goals. Endorsement by the Scientific Advisory Committee neither ensures nor implies funding. All final proposals will be evaluated by the National Science Foundation.

The letter of intent should not exceed 5 pages. Tentative budgets should be included but detailed justifications are not necessary at this time. The letter of intent must be received prior to 1 December 1976 to be considered in the 1978 research program. The letters and questions should be directed to **Dr. E. D. Goldberg, Scripps Institution of Oceanography, La Jolla, California 92093.**

The US Army Medical Research and Development Command is interested in receiving research proposals for the synthesis of new antimalarial agents as part of its ongoing Antimalarial Drug Development Program. Proposals should be supported by a compelling chemical, biochemical, biological, or pharmacological rationale. Proposals that request support for basic chemical research, not related to the antimalarial program, will not be supported. The proposals should include a title page, organizational and administrative information, a budget sheet, a technical presentation including methods of approach, resumes for key personnel, and a description of facilities.

The proposal may be written to cover research for more than one year but contracts are funded on a yearly basis. All proposals are subjected to peer review by a study group. The original and two copies of the proposal should be submitted to:

Commanding General
US Army Medical Research
and Development Command
ATTN: SGRD-SSL
Washington, DC 20314

Inquiries on technical matters can be directed to:

Division of Medicinal Chemistry
Walter Reed Army Institute of Research
Walter Reed Army Medical Center
Washington, DC 20012



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Trinity College

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Application forms and further particulars may be obtained from:

The Staff Secretary,
West Theatre,
Trinity College,
Dublin 2.

Closing date for receipt of completed applications is Friday, 22nd November, 1976.

ASSISTANT PROFESSOR POSITIONS AVAILABLE

Department of Geological Sciences
The University of Texas at Austin

The University of Texas at Austin, Department of Geological Sciences, invites applications for two assistant professor positions, effective 1 September 1977.

One position is in the broad field of biostratigraphy, preferably with specialization in one of the following areas:

- 1) Micropaleontology (including Foraminifera, nannofossils, and/or palynomorphs).
- 2) Benthic communities (specifically their description, interdependence, dynamics, evolution, and stage of development).
- 3) Tertiary mollusks (taxonomic, benthic community, or biostratigraphic approach).
- 4) Interregional biostratigraphy (specifically as applied to intercontinental correlations, continental drift, and/or relations to paleo-oceanic currents and environments).

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

The second position is in the field of economic geology, preferably with specialization in one of the following areas:

- 1) Ore deposits
- 2) Solution geochemistry
- 3) Stratabound mineral deposits

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

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

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

An Affirmative Action/Equal Opportunity Employer

Research & Development

The Diagnostics Division is seeking a senior research and development scientist for a position in a dynamic growth division of Abbott Laboratories.

Candidates are invited to apply who have any of the following qualifications: Ph.D. in chemistry or biochemistry with experience in coagulation research and development. Experience in enzymology, protein chemistry, affinity chromatography, or plasma fractionation also would be of value. Active working experience is desired with industrial experience preferred. We will look for a strong track record of accomplishments in these areas as indicated by publications, patents, independent research experience. The person we need is highly motivated, capable of independent work and/or of managing a research project.

Abbott Laboratories is located in North Chicago, Illinois, midway between Chicago and Milwaukee, Wisconsin. Please send resume with publications, references, and salary history and requirements in confidence to:

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PROGRAMS

PH.D. PROGRAM IN BIOMETRY AT THE MEDICAL UNIVERSITY OF SOUTH CAROLINA

The Department of Biometry at the Medical University of South Carolina proudly announces that it has been authorized to offer both M.S. and Ph.D. degrees in biometry. The program allows for subspecialization in biostatistics, bio-medical computation, and modeling and simulation of health systems. The Department boasts a strong faculty, excellent research facilities, and ample opportunities for active involvement in medical research. Most full-time students enjoy financial stipends and reduced tuition. For information please write **Dr. Hurshell H. Hunt, Department of Biometry, Medical University of South Carolina, Charleston, S.C. 29401.**

ANATOMY GRADUATE PROGRAM TEXAS TECH UNIVERSITY

The Department of Anatomy provides graduate programs leading to the M.S. and Ph.D. degrees. Research areas include: developmental and reproductive biology, mineralized tissues, and neurobiology. Stipends available. Deadline 31 March. Address correspondence to: **Dr. David L. Bolender, Department of Anatomy, Texas Tech University School of Medicine, P.O. Box 4569, Lubbock, Texas 79409.**

SYMPOSIUM

RATE CONSTANTS, COEFFICIENTS, AND KINETICS FORMULATIONS IN SURFACE WATER MODELING

Under the joint sponsorship of the U.S. Environmental Protection Agency and Tetra Tech, Inc., a symposium is being organized on rate coefficients and expressions used in quality modeling of surface water bodies. The symposium will be held in the San Francisco Bay area in January 1977. Results will be compiled into a manual to allow estimation of coefficients needed for modeling waste loads, watersheds, rivers, lakes, and estuaries in different regions of the United States. A limited number of travel grants will be made available to participants. For further information, please contact **Dr. Carl W. Chen or Dr. Stanley Zison, Tetra Tech, Inc., 3700 Mt. Diablo Boulevard, Lafayette, California 94549. Telephone: 415-283-3771.**

FELLOWSHIPS

POSTDOCTORAL AWARDS IN OCEAN STUDY

Applications invited for 1-year Postdoctoral Scholar Awards from new or recent doctorates in fields of biology, chemistry, engineering, geology, geophysics, mathematics, meteorology, physics, as well as oceanography. Recipients of awards are selected on a competitive basis, with primary emphasis placed on research promise and interest in marine problems.

Fellowship stipend is \$13,000. Appointees are eligible for group health insurance and a modest research budget. Recipients are encouraged to pursue their own research interests independently or in close association with resident staff. Application inquiries accepted through 1 December 1976 for 1977-78 awards. Awards will be announced 1 February 1977. Write for application forms to **Fellowship Committee, Woods Hole Oceanographic Institution, Woods Hole, Mass. 02543.**

Equal Opportunity Institution, M/F

GRADUATE TRAINING IN PHARMACOLOGY

Research training and course work leading to the Ph.D. degree and realistically designed for career opportunities in this expanding field are offered. The program includes: neuro-, autonomic, biochemical, clinical, renal, cardiovascular, and behavioral pharmacology; pharmacology of abused drugs; receptor and membrane theory; immobilized drugs and drug metabolism. A limited number of fellowships offering stipend and tuition are available. Early application for August 1977 is advised. Apply to **Director of Graduate Studies, Department of Pharmacology and Therapeutics, Medical School, State University of New York at Buffalo, 127 Farber Hall, Buffalo, N.Y. 14214. An Equal Opportunity/Affirmative Action Employer.**

FELLOWSHIPS

POSTDOCTORAL FELLOWSHIP

Applications are invited for the C. H. Best Foundation postdoctoral fellowship, in the Banting and Best Department of Medical Research. The fellowship is tenable on approximately 1 July 1977 for 2 years with a taxable stipend of about \$13,000, for the first year, plus traveling and dependent allowance. The fellowship is available to a candidate with less than 2 years of postdoctoral experience. Research interests of the Department include molecular biology, differentiation, structure and function of membranes, fat and lipid metabolism, and molecular endocrinology. A list of staff members and their research interests will be sent on request. Applications, complete with curriculum vitae and the names of three references, must be received by 1 February 1977. Please address applications or inquiries to:

**Dr. C. C. Yip
Banting and Best Department of Medical Research
University of Toronto
Toronto M5G 1L6, Ontario
Canada**

FELLOWSHIP IN MEDICAL GENETICS AND EPIDEMIOLOGY

The University of Iowa, College of Medicine, invites applications to the Cardiovascular Center for fellowships to study the genetic determinants of coronary risk factors beginning in 1977 and 1978. The program combines clinical training in medical genetics and epidemiology with special emphasis in research. For further information, please contact **Helmut G. Schrott, M.D., Department of Medicine, University of Iowa, Westlawn S-212, Iowa City, Iowa 52242.**

POSTDOCTORAL RESEARCH FELLOWSHIPS IN BLOOD BANKING SCIENCES

Two- and 3-year postdoctoral research training program in blood banking sciences with emphasis on transplantation immunology. Opportunities for basic and applied research on immunobiology of HLA region. Prerequisites: Ph.D. or M.D. degree and motivation toward research and academic career. Program affiliated with Medical College of Wisconsin. Send curriculum vitae, bibliography, and other appropriate information to:

**Rene J. Duquesnoy, Ph.D.
Director, Research and Development
Milwaukee Blood Center, Inc.
P.O. Box 10G
Milwaukee, Wisconsin 53201**

POSTDOCTORAL FELLOWSHIP available immediately for studies on myeloma. Projects involve immunochemistry and immunobiology of bclonal myeloma proteins and of myeloma-associated immunodeficiency. Good background in immunology is desired. The position will provide training in protein structural chemistry. Send résumé and letters of reference to:

**Dr. Jerry Katzmann
Hematology Research
Mayo Clinic
Rochester, Minnesota 55901**

An Equal Opportunity/Affirmative Action Institution

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

FELLOWSHIPS

POSTDOCTORAL FELLOWSHIPS

Postdoctoral fellowships are available at the Rosenstiel School of Marine and Atmospheric Science, University of Miami.

The interests of the faculty include, but are not limited to, experimental studies and modeling of: interactions in controlled environments; the benthic boundary layer of the deep sea; the ocean as a climate-controlled biogeochemical system; coastal and shelf ecosystems; large tropical weather systems; and in the development of methods for the optimal utilization of ocean resources.

Applications should include a statement of research interests, curriculum vitae, and references, and be addressed to: **Dr. Warren J. Wisby, Associate Dean, Rosenstiel School of Marine and Atmospheric Science, University of Miami, 4600 Rickenbacker Causeway, Miami, Florida 33149.**

The University of Miami is an Equal Opportunity Employer.

POSTDOCTORAL FELLOWSHIP IN ENDOCRINE RESEARCH

The Departments of Medicine and Pediatrics of the University of North Carolina School of Medicine have openings for persons with M.D. or Ph.D. degrees for training in basic or clinical endocrine research under established investigators. Areas of particular concern include peptide growth factors, hormonal control of growth and development, adrenal biochemistry and physiology, male reproductive endocrinology, control of bone mineral metabolism, role of cyclic nucleotides in cell growth and function, and peptide hormone receptor-adenylate cyclase interactions.

Training is for 2 years at an annual stipend of \$10,000 to \$13,200. U.S. citizenship or a permanent immigrant's visa is required. Openings are available beginning July 1977 or July 1978. For information and application forms, write **Carolyn Jaros, Endocrinology Training Program, Departments of Pediatrics and Medicine, The University of North Carolina at Chapel Hill, Clinical Sciences Building 229H, Chapel Hill, N.C. 27514.**

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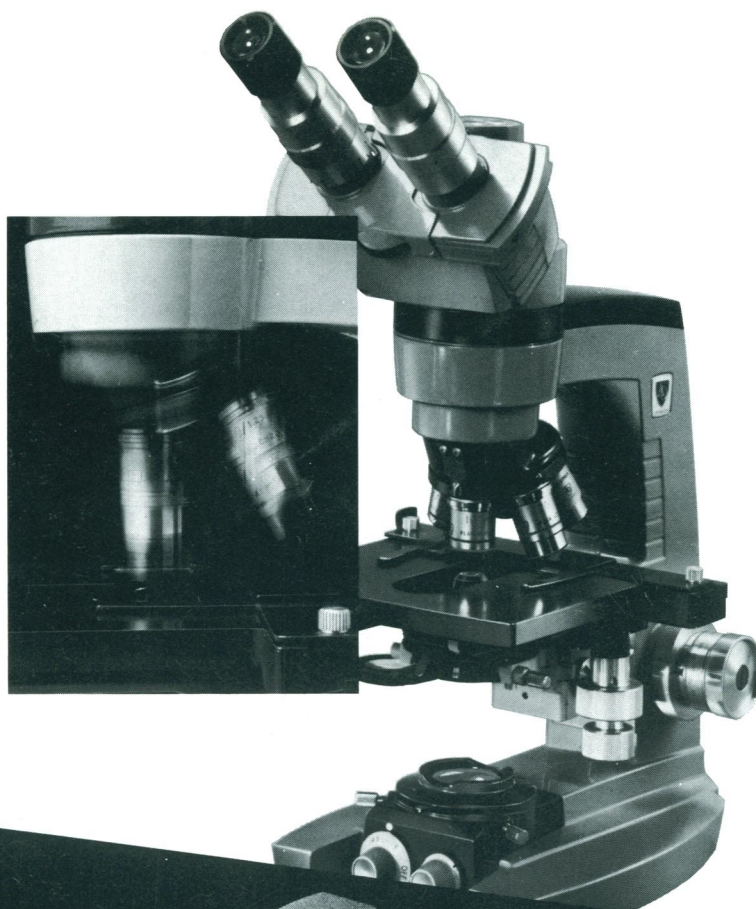
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