

AAAS NEWS

(Continued from page 877)

not one-sided, and that legitimate principles will be in conflict on both sides of the problems that arise."

The Committee on Scientific Freedom and Responsibility is charged with:

1. Working with and encouraging societies affiliated with the AAAS to adopt policies and procedures designed to protect their members against infringements upon scientific freedom and responsibility;
2. Relying upon the affiliated societies to take up and examine documented allegations of infringement of principles of scientific freedom and responsibility involving the reputation and professional standing of their members;
3. Making an annual report to the Association, through the Council, on the Committee's assessment of favorable and unfavorable developments affecting scientific freedom and responsibility, including patterns of infringement as observed from complaints or from reports by affiliated societies, together with steps taken or contemplated by affiliates towards strengthening their vigilance on behalf of their members;
4. Through *Science* and AAAS meetings, keeping the members of the Association and others well informed about the concerns of the Committee as well as significant developments and issues which call for examination and discussion;
5. In exceptional circumstances and within criteria to be worked out by the Committee, undertaking an analytic review of cases whose ramifications are deemed to be highly significant for the scientific community at large; and
6. Maintaining a current awareness of policies and actions of the governments of the United States and other nations which circumscribe scientific freedom and responsibility, including restraints upon the admission of scientists to attend scientific meetings or pursue professional opportunities.

The Council had voted to establish a joint (Board and Committee on Council Affairs) Committee on Scientific Freedom and Responsibility to formulate and implement appropriate follow-up action on the published report *Scientific Freedom and Responsibility*. The report was prepared by Dr. Edsall for the ad hoc committee of that name established in 1970 (see *Science*, 16 May 1975, pages 687-693). The ad hoc committee, chaired by Allen V. Astin, was dissolved with the publication of the Edsall report.

The Committee on Council Affairs is currently preparing a draft amendment to the AAAS constitution's Article II which would incorporate concern for scientific freedom and responsibility among the Association's objectives.

The first meeting of the Committee on Scientific Freedom and Responsibility, scheduled for early October in Washington, D.C., will be open to the public.

3 SEPTEMBER 1976

Personnel Placement

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

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

DISPLAY (POSITIONS OPEN, MARKET PLACE, AND SO FORTH): \$130 per inch, minimum, per insertion (1 inch is equivalent to 11 lines of 52 spaces each). Ads over 1 inch billed to nearest quarter inch. No charge for Box Number. Rates net. No agency commission allowed for ads under 4 inches. No cash discount. Prepayment required for foreign advertising. Purchase orders and billing information must accompany all other advertising.

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

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

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

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

BLIND AD replies should be addressed as follows:

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

POSITIONS WANTED

Affirmative Action: Fact or Fiction? Ph.D., highly acclaimed for innovative and productive work in vitally important area of cancer research; responsible for significant advances in tumor cell biology. Transferable U.S. Public Health Service grants. Requires research or research/teaching appointment for fall 1976 in order to continue work and grants (soft-money position on own funds not a deterrent). Box 403, *SCIENCE*. X

Biochemical Pharmacologist seeks research/development position. Several years of research experience in isolation of proteases and their inhibitors, peptide hormones, thrombocytes inflammations, psychotropics, and toxins in industry, university, and clinical research institute; 25 publications. Box 404, *SCIENCE*. X

Biochemist, Ph.D. 1972. Four years of postdoctoral research. Interested in any area involving nucleic acid biochemistry and metabolism. Publications. Seeks position in industry or academia. Box 405, *SCIENCE*. 9/3, 10

Biologist/Environmental. B.A. plus graduate work. Two years in government research laboratory. Experienced in field studies: terrestrial/marine. Artificial reef experience. Published. Curriculum vitae available. D. Alfieri, 129-D Salmon Brook Drive, Glastonbury, Connecticut 06033. X

Bio-organic Chemist—Mass Spectroscopist seeks research position (industrial/academic). Extensive experience (academic and industrial) in natural products, antibiotics, fermentation technology, and drug metabolism. Strong background in analytical instrumentation (including GC-MS). Box 406, *SCIENCE*. X

Descriptive Physical Oceanography (Ph.D.), 14 years of experience, wants an honest job at \$20,000 plus. Curriculum vitae from Box 381, *SCIENCE*. 9/3, 10

Unique dilemma faced by first-rate **Microbial and Cell Physiologist**: stands to forfeit \$175,000 NIH grant funds, equipment, staff, and full inventory of supplies for ongoing highly active program in cell growth and metabolic control mechanisms if new laboratory facilities and institutional affiliation are not secured by end of September. Box 409, *SCIENCE*. X

POSITIONS WANTED

Ph.D. 1974 (Experimental Pathology), with background in endocrinology and experience in hypertension research, steroidogenesis studies, protein isolation, and RIA; postdoctoral experience; GS-12 rating in animal physiology. Seeking research position. Available fall 1976. Box 407, *SCIENCE*. X

Seeking graduate research position in biochemistry or cancer-related disciplines. B.S. **Microbiology** plus 3 years of laboratory research experience in growth regulation of carcinomic tissues. Box 408, *SCIENCE*. X

Ph.D. Microbiologist. More than 20 years of broad experience using tissue culture techniques, as applied to transplantation, tumor research, and virology. Last 12 years in animal health industry, including virus R & D, production, and QC. Prefers permanent position in virus R & D, diagnostic, or QC. Available September 1976. Box 410, *SCIENCE*. X

Neurophysiologist/Neuropharmacologist, Ph.D., multidisciplinary background, research/teaching experience, publications, expertise in audiovisual teaching methods. Locate anywhere, academic and/or research. Box 411, *SCIENCE*. 9/3, 10, 17

Physicist. More than 20 years of research, teaching, and administrative experience in the Ivy League and other major organizations. At present working in an international repute. Specialty: astrophysics with wide interests in science policy, energy studies, and interaction of science and society. Seeks a challenging research, teaching, and/or administrative position in an American private or public organization. Box 412, *SCIENCE*. X

Psychopharmacologist/Neuropharmacologist. Ph.D. (1969). Broad-based expertise in electrophysiology, neurochemistry, and behavior; industrial and grant experience; more than 50 publications. Seeks challenging position in industry, academia, or government. Box 397, *SCIENCE*. X

Science Editor, senior level. Fully experienced in all aspects of publishing, including planning, rewriting, editing, and working with printers. Box 413, *SCIENCE*. 9/3, 10

POSITIONS OPEN

ANATOMIST

A faculty position at the assistant professor level will be available as of 1 September 1976. Ph.D. or M.D. degree and experience teaching gross anatomy to medical students required. Preference given to those with active research programs in developmental biology. Send résumés and three letters of recommendation to:

**Search Committee
Department of Anatomy
Dartmouth Medical School
Hanover, New Hampshire 03755**

An Affirmative Action/Equal Opportunity Employer

The Department of Endocrinology and Metabolism of the Department of Medicine at the University of Alabama in Birmingham has available the position of **ASSISTANT PROFESSOR** specializing in **BASIC PHYSIOLOGICAL RESEARCH**. Successful candidates for this position should have their Ph.D. and should have demonstrated their scientific capabilities in biochemical, electrophysiological, and functional aspects of pancreatic research. This individual must also have a firm commitment and involvement in teaching programs for medical students, postdoctoral fellows, and allied health personnel. To apply send full credentials to: **Mr. Steve R. Vinson, Administrative Associate, University of Alabama Medical Center, Birmingham, Alabama 35294.** Expiration date for receipt of application: 30 October 1976. *An Equal Opportunity/Affirmative Action Employer.*

The Department of Mathematics, Texas A&M University, College Station, Texas 77843, is accepting applications for assistant professorships. Those who have earned the Ph.D. in mathematics by fall 1977 will be considered.

Applicants should show outstanding research promise and ability in teaching, along with specialization in number theory, group theory, and analysis or applicable mathematics. This last category includes combinatorics, differential equations, matrix theory, numerical analysis, and probability.

Texas A&M is an Equal Opportunity/Affirmative Action Employer.

POSITIONS OPEN

ASSISTANT CURATOR—ORNITHOLOGY

Applications are invited for the position of Assistant Curator in the Department of Ornithology at the American Museum of Natural History. Appointment to be effective in July 1977.

Qualifications include a Ph.D., a demonstrated ability to conduct collection-based research in avian biology, and the ability and interest to assist in curating one of the world's finest research collections of birds. In addition to laboratories and aviary facilities at the Museum, field stations are operated by the Museum in suitable environments for behavioral and ecological investigations. Opportunities are available for teaching and collaboration with graduate students at universities in New York City.

Send résumé, complete bibliography, and names and addresses of three references no later than 15 November to:

Dr. Wesley E. Lanyon, Chairman
Department of Ornithology
American Museum of Natural History
Central Park West at 79 Street
New York, New York 10024

An Equal Opportunity Employer—M/F

The American Museum of Natural History invites applications for the position of **CHAIRMAN/CHAIRWOMAN of the DEPARTMENT OF ANIMAL BEHAVIOR** (rank of Assistant Curator, Associate Curator, or Curator, depending on experience and accomplishments). Scientific and administrative leadership will be expected in a significant program of research in animal behavior (ethology) and related disciplines appropriate for the scientific community of a major natural history museum. Substantial training and research accomplishments in ethology and significant interest in the scientific opportunities provided by the museum community are necessary. A description of the position is available from the **Chairman, Department of Animal Behavior, American Museum of Natural History, Central Park West at 79 Street, New York, N.Y. 10024**. Completed applications should be submitted by 15 October 1976. *An Equal Opportunity Employer—M/F*

ASSISTANT PROFESSORS Department of Biology

The University of Virginia is seeking candidates for two openings at the assistant professor level to begin September 1977. One of these positions will be in the area of neurobiology, the specific subspecialty being open. For the second position, primary consideration will be given to the areas of developmental, cellular, and molecular biology, and persons with backgrounds in animal, plant, or microbial systems are encouraged to apply. Postdoctoral research experience is essential for both positions. The last date for receipt of applications is 1 November 1976. Candidates should send a curriculum vitae and must arrange for three letters of recommendation to be sent to **Dr. O. L. Miller, Jr., Chairman, Department of Biology, Gilmer Hall, University of Virginia, Charlottesville, Virginia 22901**. *An Affirmative Action/Equal Opportunity Employer.*

University of Colorado expects an opening, starting fall 1977, for an **ASSISTANT PROFESSOR IN BIOPHYSICAL CHEMISTRY**, preferably with teaching and postdoctoral research experience. Applicants should submit a curriculum vitae, a summary of plans for research, and undergraduate and graduate transcripts and should arrange for letters of recommendation from three persons familiar with the applicant's qualifications. Deadline for receipt of applications is 31 October 1976. Materials should be sent to **Dr. S. J. Gill, Department of Chemistry, University of Colorado, Boulder, Colorado 80309**. *An Equal Opportunity, Affirmative Action Employer.*

ASSISTANT PROFESSOR OF PHYSIOLOGY

The Department of Physiology has a position available for which applications are invited. Preference will be given to candidates holding an M.D. or Ph.D. degree with experience and interest in skeletal muscle physiology at the cellular level, for example, excitation-contraction coupling. The position involves medical and graduate student teaching. Please send curriculum vitae, bibliography, and names and addresses of three references to: **Chairman, Muscle Physiology Search Committee, Department of Physiology, Yale University School of Medicine, 333 Cedar Street, SHM B-106, New Haven, Connecticut 06510**. *Applications from women and members of minority groups are encouraged. An Equal Opportunity/Affirmative Action Employer. Applications should be received before 15 October 1976.*

POSITIONS OPEN

ASSISTANT PROFESSOR OF IMMUNOLOGY AND MEDICAL MICROBIOLOGY

One or more faculty positions available fall 1977 for M.D. or Ph.D. plus 2 years of postdoctoral research and/or teaching. Appointee is expected to participate in teaching programs and to develop an independent research program, preferably in the molecular biology of animal viruses or cells. Send curriculum vitae and three letters of reference to **Dr. Kenneth I. Berns, Department of Immunology and Medical Microbiology, College of Medicine, University of Florida, Gainesville, Florida 32610**. Closing date is 1 November 1976. *An Equal Opportunity/Affirmative Action Employer.*

ASSISTANT PROFESSOR OF MEDICINE, Department of Medicine, Stanford University. Activities will include participation in single- and multifactor programs for risk reduction within the Stanford Heart Disease Prevention Program. Prerequisites: training in clinical medicine and epidemiology. Background or interest in educational or psychosocial aspects of chronic disease cause and prevention preferred. Submit curriculum vitae and names of references to: **John W. Farquhar, M.D., Director, Stanford Heart Disease Prevention Program, Room M-027, Stanford University Medical Center, Stanford, Calif. 94305**. *Stanford University is an Equal Opportunity Employer and welcomes nominations of women and minority group members and applications from them.*

ASSISTANT PROFESSOR OF PHARMACOLOGY

Applications are invited by the Department of Pharmacology at the University of Missouri for the position of assistant professor of pharmacology. The applicant should possess the Ph.D. or M.D., should have completed approximately 3 years of postdoctoral experience, should have demonstrated excellence in research, and should have an active interest in teaching medical and graduate students. Preference will be given to an applicant whose research experience and interest are in biochemical aspects of pharmacology. The position is available as of 1 January 1977. Closing date for receipt of applications is 15 October 1976. Please send complete curriculum vitae, list of publications, and at least two letters of reference to **Dr. Murray Heimberg, Chairman, Department of Pharmacology, School of Medicine, University of Missouri, Columbia, Missouri 65201**. *The University of Missouri is an Equal Opportunity/Affirmative Action Employer.*

BACTERIOLOGIST

We are currently seeking candidates for a position in virus and cell biology research. Candidates should have or be near completion of postdoctoral training in bacteriology. The scientist selected will be involved in an active program directed toward bacterial vaccine development. Candidates should have particular strength in bacterial biochemistry and training in immunology.

Our Research Laboratories are located in West Point, Pennsylvania, a northwestern suburb of Philadelphia. Starting salary is commensurate with qualifications. Fringe benefits are excellent.

Please send curriculum vitae with complete list of publications to:

MR. DONAL E. JACKSON

MERCK SHARP & DOHME RESEARCH LABORATORIES

West Point, Pa. 19486

An Equal Opportunity Employer

POSITIONS OPEN

ASSISTANT PROFESSOR IN LABORATORY MEDICINE to teach courses in chemical carcinogenesis to medical, dental, and graduate students and to conduct interdisciplinary research on in vitro testing of carcinogenicity of metallic compounds in tissue cultures. Minimum qualifications: Ph.D. or M.D. with proven research accomplishments. Appointment leads to tenure in School of Medicine. Salary \$20,000 to \$22,000 for 11 months. Applicant should send résumé by 20 September 1976 to **Dr. L. V. Azaroff, Director, Institute of Materials Science, University of Connecticut, Storrs, Conn. 06268**. *An Equal Opportunity/Affirmative Action Employer.*

OHIO UNIVERSITY COLLEGE OF OSTEOPATHIC MEDICINE

BASIC SCIENCE TEACHING POSITIONS:

At least five full-time, permanent positions in Department of Zoology and Microbiology. Areas of Gross Anatomy, Medical Mycology, Pharmacology, Neuroanatomy, and Renal Physiology. Ph.D. or equivalent required. Primary responsibility in teaching osteopathic medical students as well as undergraduate and graduate majors in zoology. Research and supervision of research required. Assistant or associate rank. Prior medical school teaching preferred. Effective September 1977. Contact **Basic Science Search Committee, McGuffey Hall, Ohio University, Athens, Ohio 45701**. *Ohio University is an Equal Opportunity/Affirmative Action Employer. Credentials must be received by 30 November 1976.*

BIOCHEMIST—MOLECULAR BIOLOGIST

The Department of Biochemistry is seeking a senior investigator to be appointed at the full professor level for the 1976–1977 academic year. This individual will serve as the focal point for departmental growth in the broad area of molecular and/or cell biology. Candidates must have an outstanding publication record and proven teaching ability. Research interests in virology, membranes, molecular endocrinology, regulation of nucleic acid and protein synthesis, or cell differentiation using mammalian tissue culture systems are desirable, but not mandatory. Interested individuals should forward a curriculum vitae with a complete bibliography, summary of future research interests, and the names of three persons to be contacted for references no later than 1 November 1976 to: **Dr. E. G. Sander, Chairman, Department of Biochemistry, West Virginia University School of Medicine, Morgantown, West Virginia 26506**. *The University is an Affirmative Action/Equal Opportunity Employer.*

BIOLOGICAL SCIENCES ADMINISTRATOR

A position is open for a Health Scientist Administrator in the biology research training program of the National Institute of Mental Health, Rockville, Maryland.

Experience should include at least 5 years of postdoctoral research in biology related to behavior, and 1 year in research program administration. Incumbent will be responsible for planning and administration of institutional and individual research training support within the framework of the National Research Service Act of 1974. Salary range, \$26,861 to \$30,441, depending upon specific qualifications of applicant.

Forward Standard Form 171 (available from personnel offices of federal agencies) no later than 30 September 1976 to:

Vernell Harris, Personnel Officer
Alcohol, Drug Abuse, and Mental
Health Administration
Room 15C-24
5600 Fishers Lane
Rockville, Maryland 20852

An Equal Opportunity Employer

CELL BIOLOGIST

We seek applicants in the area of cell biology who combine effectiveness as teachers with outstanding potential as imaginative researchers. Appointment will be at the assistant or associate professorial level. Candidate must have formal training in molecular biology and biochemistry, and have experience in eukaryotic cell culture. Knowledge of electron microscopy desirable. Responsibilities include participation in an introductory biology course, an undergraduate course in cell biology with laboratory, and undergraduate and graduate seminars and direction of undergraduate and doctoral research. Send curriculum vitae, three letters of recommendation, and description of research interests by 17 October 1976 to: **Biology Search Committee, Department of Biology, Bryn Mawr College, Bryn Mawr, Pa. 19010**. *An Equal Opportunity/Affirmative Action Employer.*

POSITIONS OPEN

BIOCHEMIST

Recent Ph.D., to work in the field of heme metabolism in mammalian tissues, primarily in small animals and probably tissue culture. Will work with considerable independence. Contact

Dr. Stephen H. Robinson
Beth Israel Hospital
330 Brookline Avenue
Boston, Massachusetts 02215
An Equal Opportunity Employer

Southern Illinois University at Edwardsville, School of Dental Medicine, invites applications for a **PART-TIME (50 percent)** term appointment in the **DEPARTMENT OF BIOMEDICAL SCIENCES**.

A Ph.D. in pharmacology or applied basic science or D.D.S., D.M.D. with special training is required. The appointment will be at the Instructor or Assistant Professor level. Applications will be received until 3 October 1976.

Southern Illinois University at Edwardsville is an Equal Opportunity/Affirmative Action Employer and administers its educational and employment programs in conformance with federal and state laws prohibiting discrimination based upon sex, race, age and other proscribed categories, including Title IX (Higher Education Act). Inquiries regarding affirmative action in employment, Title IX administration, or other facets of equal opportunity should be directed to the Affirmative Action Office, Office of the President.

Send curriculum vitae to **Dr. Stanley P. Hazen, Dean, Southern Illinois University, School of Dental Medicine, Edwardsville, Illinois 62026.**

CHAIR OF PHARMACOLOGY University of Arkansas School of Medicine

Applications by 15 October are invited for this position which, with the resignation of the incumbent, will become vacant 1 January 1977. Candidates should be enthusiastic teachers with demonstrated ability in research. The department, with 12,000 square feet of prime space, has ten full-time faculty, 19 graduate students, a medical student class of 120, and is affiliated with the National Center for Toxicological Research 32 miles away. Send curriculum vitae and bibliography to: **Raymond C. Read, M.D., Chairman, Search Committee, Veterans Administration Hospital, 300 East Roosevelt Road, Little Rock, Arkansas 72206. An Equal Opportunity Employer.**

WASHINGTON UNIVERSITY ST. LOUIS, MISSOURI

CHAIRPERSON, DEPARTMENT OF BIOLOGY

The University invites applications from suitably qualified persons for the position of Chairperson of the Department of Biology, effective 1 July 1977. The position offers an unusual opportunity for the exercise of educational and scientific leadership, including the availability of attractive space and a significant number of unassigned positions, as well as cooperative arrangements with the preclinical departments of the School of Medicine comprising the Division of Biology and Biomedical Sciences. Applicants should have an established reputation in their field of teaching and investigation, an active ongoing research program, and a capacity for academic leadership. Applicants should submit an up-to-date curriculum vitae with bibliography and arrange to have three letters of reference sent as early as possible to **Dr. Merle Kling, Provost and Chairman of the Search Committee, North Brookings Hall, Washington University, St. Louis, Missouri 63130.** *Washington University is an Equal Opportunity/Affirmative Action Employer.*

ECOLOGIST POPULATION BIOLOGIST

The Biology Department at Washington University in St. Louis has openings for an ecologist and for a population biologist with strong mathematical training. Appointments will be made at the assistant or associate professor level, beginning in January 1977 or later.

Candidates should be capable of carrying on research of high quality and of participating actively in graduate and undergraduate teaching. Send curriculum vitae, statement of research interests, and names of three references to: **Faculty Search Committees, Department of Biology, Washington University, St. Louis, Mo. 63130.**

An Affirmative Action/Equal Opportunity Employer

POSITIONS OPEN

CYTOGENETICIST

A laboratory of somatic cell genetics is recruiting scientists with experience in mouse and/or human cytogenetics who are well acquainted with modern chromosomal banding techniques. Applicants should have a Ph.D. or M.D. degree. Salary and position open depending on qualifications of the applicant. Curriculum vitae, bibliography, and names of three references should be sent to **The Wistar Institute, 36th and Spruce Streets, Philadelphia, Pa. 19104, Attention: Sandy D'Ambrosio.**

ENDOCRINE-METABOLISM POSTDOCTORAL FELLOWS

M.D. or Ph.D. Two years of basic and/or clinical research. Stipend \$10,000 to \$14,000. Letter and curriculum vitae to **Endocrine-Metabolism Unit, Department of Medicine, University of Rochester School of Medicine, 601 Elmwood Avenue, Rochester, New York 14642. Equal Opportunity Employer.**

Executive Officer of the American Society for Pharmacology and Experimental Therapeutics (Bethesda, Md.). Responsibilities include management of office of this national scientific society, editorial and fiscal duties, coordination of activities for national and international meetings, scientific liaison activities, and maintaining awareness of public matters that affect pharmacology. Salary negotiable. Interested individuals with training in the biomedical sciences should send a curriculum vitae and related information to: **Dr. E. Leong Way, Department of Pharmacology, University of California Medical Center, San Francisco, Calif. 94143.**

DEPARTMENT OF ANATOMY UNIVERSITY OF CALIFORNIA, IRVINE COLLEGE OF MEDICINE

The Department of Anatomy has openings for one senior and four junior regular faculty appointments. Accomplishment in fields related to mammalian somatosensory systems will be strongly preferred. For the junior positions, 2 years of postdoctoral research experience is required. Teaching responsibilities will entail instruction of medical and graduate students in gross anatomy or histology. *Applications from all qualified candidates are welcome; women and minorities are encouraged to apply.* Applications must include a curriculum vitae, references, and copies (three to five) of published works. Send applications to:

John E. Swett, Ph.D.
Department of Anatomy
California College of Medicine
University of California
Irvine, California 92717

UNIVERSITY OF OKLAHOMA COLLEGE OF MEDICINE

Applications are solicited for faculty positions in the following areas:

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

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

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

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

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

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

GRIFFITH UNIVERSITY BRISBANE, AUSTRALIA SCHOOL OF AUSTRALIAN ENVIRONMENTAL STUDIES

CHAIR IN APPLICABLE MATHEMATICS

Griffith University was founded in 1971, commenced teaching in 1975, and will be in its third year of teaching in 1977. It is presently organized into four (4) multidisciplinary schools, each of which has a general theme or problem orientation. The existing schools are Australian Environmental Studies, Humanities, Modern Asian Studies, and Science.

Two professors have already been appointed to the School of Australian Environmental Studies. Applications are now invited from men and women to fill the Chair in Applicable Mathematics. The appointee will be expected to assist in the development of the Applicable Mathematics area and to contribute specifically to the development of analytical and computational methods and to their application in areas of interest to the school. It is expected that the appointee would have depth in some basic area of mathematics and an international reputation in the use of mathematics methods in a field of application such as the following:

Interpretation of physical processes
Ecological analysis
Social or economic analysis

The person appointed will have significant experience in both teaching and research and a demonstrated interest in environmental problems. It is hoped to make the appointment in mid-1977 or as soon as possible after that date.

Salary for professors is A\$26,153 per annum.

Closing date for applications is 15 October 1976.

Interested persons should, in the first instance, obtain information from the:

Staff Officer
Griffith University
Nathan, Queensland 4111, Australia

DEAN FOR ACADEMIC AFFAIRS

Nominations and applications are invited for the position of Dean for Academic Affairs at the University of Wisconsin-Green Bay. The University of Wisconsin-Green Bay is a 7-year-old campus in the University of Wisconsin System, with an enrollment of approximately 4000 students and a faculty of 180 members. The UWGB academic plan is based on interdisciplinary program units called concentrations, which are problem-focused and emphasize environmental themes. Undergraduate students major in concentrations and may choose a comajor in a traditional discipline. A new graduate degree program provides an opportunity for an interdisciplinary problem-focused education at the graduate level.

The Dean for Academic Affairs and his/her staff have responsibilities for the undergraduate program, the graduate program, community outreach activities, research programs, and educational research and development. The Dean for Academic Affairs reports directly to the Chancellor of the University of Wisconsin-Green Bay and is the second-ranking administrative officer on the campus. The Dean for Academic Affairs will also be the UWGB liaison for academic concerns with Central Administration of the University of Wisconsin System.

Candidates for this position must have an earned doctorate or equivalent and be qualified to hold senior rank and tenure. The candidate must have sound credentials as a teacher and scholar and evidence of successful administrative experience.

Effective date of the position: no later than 1 July 1977. Salary is negotiable. Complete credentials should be received by 1 November 1976 and target date for selection is 1 January 1977.

Send letter of intent, résumé, and references to:

Dr. Robert Wenger
Chairperson, Search and Screen Committee
College of Environmental Sciences
University of Wisconsin-Green Bay
Green Bay, Wisconsin 54302

An Equal Opportunity/Affirmative Action Employer.

DEVELOPMENTAL OR CELL BIOLOGIST-ELECTRON MICROSCOPIST

Assistant Professor to conduct active research program in an area above, to interact with other faculty and graduate students, to teach undergraduate developmental biology in one semester and an electron microscopy graduate-level course in the alternate semester. Appointee also will be Director of Biology's Electron Microscope Laboratory, including supervision of full-time technician. Can start in fall 1976 or spring 1977 semester. Submit curriculum vitae, transcripts of records, publications, three letters of recommendation, and statement of research and teaching interests to: **Faculty Search Committee, Department of Biology, University of Notre Dame, Notre Dame, Indiana 46556.** *The University of Notre Dame is an Affirmative Action Employer. Qualified women and minority group candidates are urged to apply.*

DIRECTOR, REPRODUCTION-TERATOLOGY

The International Research and Development Corporation, a quality independent laboratory performing toxicological research on a contract basis, is seeking a scientist to direct the research program in its recently expanded reproduction and teratology department. A Ph.D. with applicable experience or an M.S. equivalent is required. Responsibilities include supervision of technical staff, protocol preparation, data evaluation, report writing, and client consultation.

If you are interested in a rapidly growing and aggressive company and would like to live in a desirable location in the Midwest, send your résumé (including salary history) to: **International Research and Development Corporation, Mattawan, Michigan 49071** (a few miles from Kalamazoo). **Attention: J. M. Ragen, Director of Personnel.** *An Equal Opportunity Employer.*

FACULTY POSITION

Immunologist, experienced, for senior position in Department of Periodontics. Applicant must have an interest in developing research program in the area of periodontal disease and in the teaching and training of graduate students. Salary will depend on qualifications. Send curriculum vitae and résumé of past and present research to **Dr. R. Vanarsdall, Acting Chairman, Department of Periodontics, School of Dental Medicine, University of Pennsylvania, 4001 Spruce Street, Philadelphia, Pa. 19174.** *An Equal Opportunity Employer.*

The Department of Preventive Medicine and Environmental Health has a **FACULTY POSITION** available for a person experienced in **INDUSTRIAL HYGIENE OR OCCUPATIONAL MEDICINE.** Candidates holding an M.D. or Ph.D. degree with both professional and academic experience are encouraged to apply. Faculty rank and salary are negotiable depending upon qualifications.

Opportunities are available for collaborative and independent research and for graduate and medical student teaching.

Please send complete biographical sketch and professional résumé to: **Department of Preventive Medicine and Environmental Health, University of Iowa, Oakdale, Iowa 52319.**

Applications from women and members of minority groups are encouraged. An Equal Opportunity/Affirmative Action Employer. Applications should be received by 1 October 1976.

FACULTY POSITION IN BIOCHEMISTRY

The Department of Biochemistry of the School of Dental Medicine (University of Pennsylvania) is seeking two highly qualified biochemists for faculty appointment at the level of Assistant Professor and Assistant/Associate Professor. Candidates should have a Ph.D. and/or a D.M.D. and must be willing to develop superior dental research programs. Areas of preferred interest are in mineral and trace element metabolism, plaque and saliva chemistry, hormone biochemistry, and polysaccharide chemistry. Responsibilities will include participation in the teaching of general and oral biochemistry to dental students. The Department of Biochemistry is a well-equipped and active research unit that is closely associated with the Center for Oral Health Research, a federally funded research institute devoted to studying a wide range of oral problems. Interested applicants should send curriculum vitae, reprints, description of areas of research interest, and the names of three possible referees to **Dr. Irving M. Shapiro, Chairman, Department of Biochemistry, School of Dental Medicine, University of Pennsylvania, 4001 Spruce Street, Philadelphia, Pa. 19174.** *An Equal Opportunity Employer.*

POSITIONS OPEN

Applications are invited for **BASIC MEDICAL SCIENCES FACULTY POSITIONS** from candidates with qualifications in anatomy, neurosciences, microbiology, immunology, physiology, or pharmacology at the newly established Northeastern Ohio Universities College of Medicine, operating in concert with the University of Akron, Kent State University, and Youngstown State University.

Candidates for postdoctoral fellow, assistant, associate, and full professor positions must have the M.D. or Ph.D. degree and experience in teaching and research in any one or more of the above disciplines.

The following program chiefs (department heads) have already been appointed: Ferenc Hutterer, M.D., Molecular Pathology and Biology; J. Michael Kehoe, D.V.M., Ph.D., Microbiology and Immunology; George S. Malindzak, Jr., Ph.D., Physiology; Edward B. Truitt, Jr., Ph.D., Pharmacology; Theodore J. Voneida, Ph.D., Neurosciences; and Robert A. Liebelt, Ph.D., M.D., Anatomy (acting).

Faculty appointees will participate in the development and implementation of the basic medical sciences curriculum for medical students and in graduate teaching and research programs in their respective scientific fields. Salary and academic rank will be awarded commensurate with experience, educational background, and scholarly contributions. Candidates are invited to send curricula vitae to **Robert A. Liebelt, Ph.D., M.D., Dean, Northeastern Ohio Universities College of Medicine, Box 325, Kent, Ohio 44240.** *An Equal Opportunity/Affirmative Action Employer.*

The School of Natural Resources of The University of Michigan is seeking applicants for new faculty positions. Entry-level positions available in Outdoor Recreation, Environmental Communications, Ecological Issues, and Landscape Architecture. Middle-level positions in Forest Management and Resource Management.

All applications should be directed in writing to **Dean William J. Johnson, School of Natural Resources, The University of Michigan, 3516 Dana Building, Ann Arbor, Michigan 48109.** *A Nondiscriminatory, Affirmative Action Employer.*

PERMANENT FACULTY POSITION. Clinical chemistry, January 1977. Ph.D. and clinical experience required; ABCC certification preferred. To teach undergraduate and graduate courses and supervise graduate research and training in new Ph.D. program offered in affiliation with Cleveland Clinic Foundation. Rank and salary dependent on qualifications. Furnish curriculum vitae and have three letters of reference sent to **Professor Frank J. Bockhoff, Chairman, Department of Chemistry, Cleveland State University, Cleveland, Ohio 44115.** *An Affirmative Action Employer.*

FACULTY POSITION—SPACE ASTRONOMY: Applications are invited for a position in ultraviolet astronomy at the University of Colorado. Responsibilities include undergraduate and graduate teaching in the astrophysics program and research in observational space astronomy. The individual will need to interact with the faculties of the Departments of Astro-Geophysics and Physics and Astrophysics, the Laboratory for Atmospheric and Space Physics, and the Joint Institute for Laboratory Astrophysics. The applicant should have experience in rocket or satellite ultraviolet observational techniques and in the interpretation of space observations. Please send curriculum vitae and names of three references before 31 October 1976 to: **Charles A. Barth, Laboratory for Atmospheric and Space Physics, University of Colorado, Boulder, Colorado 80309.** *The University of Colorado is an Affirmative Action/Equal Opportunity Employer.*

GERIATRICIAN

The University of Wisconsin Center for Health Sciences is seeking a physician to provide leadership in geriatrics on the Health Sciences campus. The primary responsibility will be to develop, integrate, and coordinate a broad set of programs in research, training, and service. The position will include an academic appointment to the appropriate department within the Medical School and the Associate Directorship of the Faye McBeath Institute on Aging. Rank and salary are dependent on qualifications. Interested persons should submit letters and a curriculum vitae to **Dr. John Marshall, Chairman of the Geriatrics Search Committee, Department of Psychiatry, University of Wisconsin Medical School, Madison, Wisconsin 53706.** *An Equal Employment Education Institution Title IX/VI.*

POSITIONS OPEN

HEAD OF BIOCHEMISTRY DEPARTMENT Memorial University of Newfoundland Faculty of Science

Applications are invited for the post of head of the Biochemistry Department. Duties involve the administration of a department of 12 faculty members offering B.Sc. degrees in biochemistry and in nutrition, and M.Sc. and Ph.D. degrees in biochemistry. In addition, the head will be expected to engage in teaching and research. Apply to the **Dean of Science, Memorial University of Newfoundland, St. John's, Newfoundland, A1C 5S7, Canada.**

DEPARTMENT HEAD—MICROBIOLOGY. Starting 1 July 1977. Ph.D. and academic experience, record of scholarly work required, administrative experience, and knowledge of training in medical technology advantageous. Send curriculum vitae and names of at least three references to **L. C. Behr, Dean, College of Arts and Sciences, Mississippi State University, Box AS, Mississippi State, Miss. 39762.** *Mississippi State University is an Equal Opportunity/Affirmative Action Employer.*

IMMUNOCHEMIST-IMMUNOLOGIST. Ph.D. with experience in immunochemistry and immunology needed to head project on isolation of tumor-associated antigens and to collaborate in other tumor immunology and immunotherapy research. Unique opportunity in energetic group of cancer researchers including 9 Ph.D.'s and 14 M.D.'s. Send curriculum vitae, bibliography, and names and telephone numbers of references to **Frank C. Sparks, M.D., Division of Oncology, 54-140 Center for Health Sciences, University of California, Los Angeles, Calif. 90024.** *An Equal Opportunity/Affirmative Action Employer.*

TWO INSTRUCTORS OF PHARMACOLOGY

The College of Medicine and Dentistry of New Jersey-Rutgers Medical School invites applications for two positions as instructor in the Department of Pharmacology. Appointments are to be made before 1 January 1977, and are renewable annually. Conditional opportunities for advancement exist. Duties include medical and graduate teaching. Current research experience at the Ph.D. or postdoctoral level is sought in:

1) **Immunohistochemistry.** The individual will participate in research using antibody labeling of brain cells in studies of drug, neurohormone, and cyclic nucleotide-related events. Experience with light and electron microscopic procedures is desirable.

2) **Chromatin Structure and Function.** The individual will participate in research on the molecular events of mitosis, molecular aspects of chromosome structure, and drug interactions. Experience with techniques of molecular biology and familiarity with genetics of eukaryote organisms are desirable. Send curriculum vitae, résumé of research, and names of two references to: **Secretary, Search Committee, Department of Pharmacology, College of Medicine & Dentistry of New Jersey, Rutgers Medical School, P.O. Box 101, University Heights, Piscataway, New Jersey 08854.** *An Equal Opportunity/Affirmative Action Employer.*

INSTRUCTOR OR ASSISTANT PROFESSOR OF PHYSIOLOGY AND BIOPHYSICS. Doctoral degree, major in physiology, medical school teaching experience in renal and/or gastrointestinal and/or metabolic physiology required. Evidence of research interest and productivity in the physiology of metabolism, electrolytes, and hypertension is desired. Send curriculum vitae and three letters of recommendation to **Dr. George R. Meneely, Department of Physiology and Biophysics, Louisiana State University Medical Center, P.O. Box 33932, Shreveport, La. 71130.** *Equal Opportunity Employer.*

MICROBIOLOGIST (R & D MANAGER)

Top 50 Fortune 500 midwestern corporation has exceptional opportunities for a qualified individual as a Research and Development Manager in Clinical Analytical Instrumentation.

We are a large, high-technology firm which has recently introduced a revolutionary, automated microbial identification instrument to the clinical microbiology market. Its reception has led to an exceptional opportunity for an experienced scientist manager. We are looking for a Ph.D. microbiologist or biochemist who has at least 15 years of postdoctoral experience in clinical microbiological R & D. The manager we seek should have at least 5 years of industrial experience as a leader in product development. Experience in quality control and in dealing with the FDA will be helpful.

If you meet the above qualifications, please send your résumé in confidence to: **Box 414, SCIENCE.**

POSITIONS OPEN

WANTED: Established **INVESTIGATOR** in viral and/or chemical oncology with interests in establishing in vitro carcinogenesis research programs in a hospital research setting. Ohio. Salary commensurate with experience. Send reply to

Box 386, SCIENCE

MEDICAL ADMINISTRATION

Appointment available for Ph.D. in biomedical sciences with interest and some experience in administration to serve as director, The Office of Research and Grants Administration. Experience in preparation of grant proposals and administration of grant funds highly desirable. Position available 1 September 1976. All inquiries kept in strict confidence. Send statement of interest and curriculum vitae to **H. Charles Moore, President, Kirksville College of Osteopathic Medicine, Kirksville, Missouri 63501. An Equal Opportunity/Affirmative Action Employer.**

MINING RECLAMATION SPECIALIST AND ASSISTANT PROFESSOR

Applicants are being sought for the position of Mining Reclamation Specialist, Maryland Bureau of Mines, and Assistant Professor at the Appalachian Environmental Laboratory, a branch of the Center for Environmental and Estuarine Studies, University of Maryland. Ph.D. required. The incumbent will serve in a new management-research-educational program being planned by the Bureau of Mines in cooperation with Frostburg State College and the Appalachian Environmental Laboratory. She/he will carry out management functions in the Bureau's program of reclamation and perform research at the AEL. She/he should be qualified to teach in a collegiate educational program in resource ecology and related fields. Interested persons should send curriculum vitae and three letters of recommendation to **Dr. Joseph A. Chapman, Chairman, Search Committee, Appalachian Environmental Laboratory, Center for Environmental and Estuarine Studies, University of Maryland, Frostburg State College Campus, Gunter Hall, Frostburg, Maryland 21502.** Applications must be received no later than 15 September 1976.

An Equal Opportunity Employer

NEUROANATOMIST: Medical school full-time faculty position with major responsibility teaching medical neurobiology. An active research program is highly desirable. Assistant professor rank; salary negotiable, starting 1 January 1977. Send application and three letters of recommendation to: **Dr. P. G. Iatridis, Director, Northwest Center for Medical Education, Indiana University School of Medicine, 3400 Broadway, Gary, Indiana 46408. Indiana University is an Equal Opportunity/Affirmative Action Employer.**

NEUROLOGIST

The University of California, College of Medicine, is recruiting for a Neurologist to be the chief of the clinical, teaching, and research programs in neurology at the Long Beach Veterans Administration Hospital and to hold an appointment at the associate or professor level. Board-certification and evidence of research productivity, teaching ability, and professional competence required. *Applications from all qualified candidates welcome; minorities and women are encouraged to apply.* Send curriculum vitae and names of three references to **Arnold Starr, M.D., Department of Neurology, University of California, Irvine, 101 City Drive South, Orange, California 92668.**

OCCUPATIONAL THERAPY FACULTY—University of Wisconsin—Madison. Position available now to plan graduate program for occupational therapists and assist in teaching classes in a specialty area. Salary negotiable. Qualifications: Ph.D., OTR. Send résumé to **Caroline Thompson, Occupational Therapy, 1308 West Dayton Street, Madison, Wis. 53706. Affirmative Action/Equal Opportunity Employer.**

MATURE PHYCOLOGIST wanted to work in Iran. Must be skilled in species identifications. Marine experience desired but not essential. Must be able to work independently in adverse conditions. Salary commensurate with experience and job locale. Send résumé to **Dr. E. B. Reed, Ecology Consultants, Inc., P.O. Box 2105, Fort Collins, Colorado 80522. Equal Opportunity Employer.**

POSITIONS OPEN

POSTDOCTORAL ASSOCIATE: Position available starting any time from January 1977 for M.D. or Ph.D. to conduct research on structure and sequence of adeno-associated virus DNA and potential interaction of this DNA with host genome. Send curriculum vitae and three letters of recommendation to **Dr. Kenneth I. Berns, Department of Immunology and Medical Microbiology, College of Medicine, University of Florida, Gainesville, Florida 32610. An Equal Opportunity/Affirmative Action Employer.**

ORGANIC FACULTY POSITION, starting fall 1977, for ambitious and creative individual committed to excellence in teaching and research. Research interests should complement existing organic programs. Résumés must include descriptions of proposed research (one or more pages per problem), curriculum vitae, and transcripts. Three letters of reference documenting past accomplishments and promise in research and teaching are also required. All information will be confidential. *Closing date for receipt of all materials is 1 November 1976.* Send materials to **R. N. McDonald, Department of Chemistry, Kansas State University, Manhattan, Kansas 66506. KSU is an Affirmative Action/Equal Opportunity Employer.**

PHYSICAL OCEANOGRAPHY. Postdoctoral Research Associate. Research in coastal upwelling involving a study of the relationship of upwelling theory to field observations. Applicants should have a recent Ph.D. in the physical sciences and a background in geophysical fluid dynamics. One-year appointment, starting after 1 November 1976, with possibility of renewal for a second year. Send résumé and three references to **Dr. John S. Allen, School of Oceanography, Oregon State University, Corvallis, Oregon 97331. An Equal Opportunity Employer.**

PLANT SCIENCES

The Department of Plant Sciences at Macdonald Campus of McGill University is seeking a horticulturalist with a Ph.D. to fill a teaching-research position available in September 1976. Primary responsibility will be teaching undergraduate courses in woody ornamentals, landscape management and floriculture, and a floriculture course for technical students. The person filling the position will be expected to direct graduate students and to develop a research program that complements the research interests of the present Plant Sciences faculty. The position will be filled when a suitable candidate is found. Forward letter of application, curriculum vitae, transcripts, lists of publications, and the names and addresses of three references to: **Dr. B. Bible, Chairman, Search Committee, Department of Plant Sciences, Macdonald College, H0A 1C0, Quebec, Canada.**

POSTDOCTORAL POSITION

Experience in biochemistry (preferably lipid metabolism) required. Available immediately. Salary range from \$11,000 to \$15,000, dependent on experience. Send curriculum vitae and a list of three personal references to **Dr. M. Hamosh or P. Hamosh, Department of Physiology and Biophysics, Georgetown University School of Medicine, Washington, D.C. 20007.**

POSTDOCTORAL POSITION. Immediate opening for a recent Ph.D. **BIOCHEMIST** to participate in a research program on cardiac hypertrophy. Investigations will focus on the molecular signals controlling transcription and translation of heart muscle proteins. Preference will be given to applicants with expertise in investigations of protein synthesis and degradation. This is a collaborative program between the Department of Surgery in the Yale Medical School and the Department of Biology. Send résumé and references to **Professor C. L. Markert, Department of Biology, Yale University, New Haven, Connecticut 06520. The University is an Equal Opportunity/Affirmative Action Employer.**

POSTDOCTORAL POSITIONS IN RADIATION BIOLOGY

University of California, Berkeley and San Francisco campuses. Faculty affiliated with Donner Laboratory and the Laboratory of Radiobiology. Starting stipend \$10,000 to \$11,500, based on experience. Positions available starting 1 September 1976. Send résumé and letters of reference to **R. K. Mortimer, Program Director, Radiation Training Grant, Division of Medical Physics, University of California, Berkeley, California 94720.**

POSITIONS OPEN

POSTDOCTORAL POSITION available in biochemistry. Research will involve the isolation and characterization of membrane systems and components of the central nervous system. Experience in membrane chemistry or subcellular fractionation would be an asset. Salary range of \$10,000 per annum. Starting October 1976 for 1 or 2 years. Send résumé and references to **J. W. Gurd, Department of Biochemistry, Scarborough College, University of Toronto, West Hill, Ontario, Canada M1C 1A4.**

POSTDOCTORAL POSITION AVAILABLE IMMEDIATELY

Chemical carcinogenesis of mouse mammary cells in organ cultures. Experience with cell or organ culture methods preferred. Send résumé with two references to **M. R. Banerjee, Tumor Biology Laboratory, University of Nebraska, 12 Plant Industry, Lincoln, Nebraska 68583. An Equal Opportunity Employer.**

POSTDOCTORAL POSITION

Immediate opening for a candidate who has some experience in solubilization, and purification of membrane receptors, cell suspension, and culturing techniques. Starting salary, \$9500. Project time—at least 2½ to 3 years. Send résumé and references to: **Dr. Ch. V. Rao, Department of Obstetrics and Gynecology, University of Louisville, School of Medicine, 323 East Chestnut Street, Louisville, Kentucky 40202.**

POSTDOCTORAL POSITION with stipend (1 to 2 years) available immediately. Molecular biology laboratory interested in mechanism of integration of phage and viral DNA into bacteria and eukaryotes. Experience with bacteria, phage, or cell culture desirable but not necessary. Write **D. Freifelder, Department of Biochemistry, Brandeis University, Waltham, Mass. 02154, or telephone 617-647-2717.**

Affirmative Action/Equal Opportunity Employer

POSTDOCTORAL POSITION (2 years) for characterization of proteins produced by lymphocytes and their effects on cell-mediated immune responses. Ph.D. in biochemistry (isoelectric focusing, and so forth) essential. Available immediately. Send curriculum vitae, references, and publications to: **Dr. B. F. Mackler, Dental Science Institute, P.O. Box 20068, Houston, Texas 77025. An Equal Opportunity/Affirmative Action Employer.**

POSTDOCTORAL NEUROBIOLOGY POSITION. (Ph.D. required.) Available immediately for studies on basic physiology and anatomy of motor and sensory systems. Excellent facilities are available for electron microscopy, electrophysiology, and metabolic analysis of neuronal tissue. Send curriculum vitae and references to **Dr. John S. Kauer, Department of Surgery, Section of Neurosurgery, Yale University School of Medicine, 333 Cedar Street, New Haven, Connecticut 06510. Yale University is an Affirmative Action/Equal Opportunity Employer.**

POSTDOCTORAL POSITION starting September 1976 for 12 months for characterization of the effects of chlorine-produced oxidants on phytoplankton species, with emphasis on floristics. Experience in experimental design required, knowledge of chlorine chemistry and phytoplankton desirable. Salary \$12,000. Send curriculum vitae, transcripts, reprints, description of research experience, and names of three references to: **Dr. Shirley Van Valkenburg, Chesapeake Biological Laboratory, Box 38, Solomons, Md. 20688. The University of Maryland is an Affirmative Action/Equal Opportunity Employer.**

POSTDOCTORAL POSITION in immunology available December 1976 for 18 months in reproductive immunology. Program involves study of sperm immunity in mice, alloantigens of human and murine sperm, and fetal-maternal allograft problems. Experience in cellular immunology or reproductive biology preferred. Send curriculum vitae and names of three references to **Daniel Stites, M.D., 494 HSW, University of California, San Francisco, California 94143. Equal Opportunity/Affirmative Action Employer.**

PRE- AND POSTDOCTORAL POSITIONS are available for studies on the protein synthesizing system with special emphasis on ribosomes—topography, biogenesis, and function—under various conditions of growth and development. Teaching opportunities available. Reply with résumé to: **Professor Bruce H. Sells, Laboratories of Molecular Biology, Faculty of Medicine, Memorial University of Newfoundland, St. John's, Newfoundland, Canada A1C 5S7.**

POSITIONS OPEN

POSTDOCTORAL POSITION

A postdoctoral position (M.D. or Ph.D.) is available for 2 years, beginning 1 September 1976. Applicant should have previous training in cell biology, microbiology, or immunology. The applicant should have a broad knowledge of the field of viral-induced oncogenic transformation. He or she should be able to initiate and carry through a research project in this area and critically interpret the results. Résumés and letters of recommendation to: **Personnel Director, SIDNEY FARBER CANCER INSTITUTE, 35 Binney Street, Boston, Mass. 02115.** An Equal Opportunity Employer.

POSTDOCTORAL RESEARCH POSITIONS

Available immediately for recent Ph.D. graduates interested in research and training in chemistry and biochemical pharmacology of novel cancer chemotherapeutic agents: (i) Metabolite identification studies on antitumor antibiotic analogs including some radioisotopic synthesis. (ii) Studies on drug-macromolecular interactions and cellular transport mechanisms of antitumor antibiotics. (iii) Synthesis of novel folic acid analogs for evaluation in vitro and in vivo as antitumor agents. Send résumé and references to **Dr. E. J. Modest, Division of Medicinal Chemistry and Pharmacology, Sidney Farber Cancer Institute, 35 Binney Street, Boston, Mass. 02115.**

POSTDOCTORAL RESEARCH POSITION

Position available 1 September involving studies on chemical induction, in association with biochemical and immunological characterizations of lung carcinoma in animals. Previous experience with animals required. Biochemical expertise highly desirable. Send letter indicating research interest and curriculum vitae with three references to: **Dr. George D. Sorenson, Department of Pathology, Dartmouth Medical School, Hanover, New Hampshire 03755.** Equal Opportunity/Affirmative Action Employer.

PROFESSOR AND CHAIRMAN DEPARTMENT OF BIOCHEMISTRY THE GEORGE WASHINGTON UNIVERSITY MEDICAL CENTER

Nominations and applications are invited for candidates to succeed the present chairman, who will be retiring 1 July 1977. The teaching commitments involve medical, graduate, and allied health programs. The department has close working ties to the National Institutes of Health, and other neighboring laboratories. It is housed in modern facilities in a desirable location. Candidates should have an outstanding record of scientific accomplishment, substantial interest, ability, and experience in teaching, and strong leadership qualities. Please submit curriculum vitae, bibliography, and statement of interests to **Dr. H. George Mandel, Search Committee Chairman, Department of Pharmacology, George Washington University School of Medicine, 2300 Eye Street, NW, Washington, D.C. 20037,** before 15 October 1976.

An Equal Opportunity/Affirmative Action Employer

PROFESSOR AND HEAD DEPARTMENT OF MICROBIOLOGY

Responsibilities to be fulfilled: direct the education, research, and training programs of the Microbiology Department in the College of Medicine.

Qualifications desired: Ph.D. and/or M.D. degree, or equivalent, and a demonstrated scholar and leader in microbiology.

Salary: appropriate for qualifications and responsibilities for a professor and head of microbiology. Excellent fringe benefits.

Employer: *the University of Iowa is an Equal Opportunity Employer.*

Application: interested persons are invited to direct inquiries and submit curriculum vitae to:

**Dr. Peter Isacson, Professor and Head
Department of Preventive Medicine
and Environmental Health
106 Medical Laboratories Building
College of Medicine
University of Iowa
Iowa City, Iowa 52242**

PROGRAM MANAGER for large, multiyear interdisciplinary continental shelf research program in the Mid-Atlantic. Requires doctorate in marine science or related field. Program has chemical and biological emphasis but physical and geological sciences are also involved. Experience in field logistics and management desired.

Reply to **Box 415, SCIENCE.**

An Equal Opportunity Employer

POSITIONS OPEN

PROTEIN BIOCHEMISTRY AND EVOLUTION

The Population Genetics Laboratory, Museum of Comparative Zoology, Harvard University, has an opening for a biochemist specializing in protein sequencing. The position is at the level of a research associate for a period of 2 years with possibility of renewal. Work concentrates on protein evolution in *Drosophila*, but opportunity exists for work on other organisms. Minimum salary \$12,000. Please contact **R. C. Lewontin, Museum of Comparative Zoology, Harvard University, Cambridge, Mass. 02138.** An Equal Opportunity/Affirmative Action Employer.

WANTED: Ph.D. RESEARCH ASSOCIATE with postdoctoral experience in cell culture and biochemistry. Experience in electron microscopy preferred. Interests in carcinogenesis with mammalian epithelial systems. Salary commensurate with experience. Ohio. Send reply to **Box 385, SCIENCE.**

RESEARCH ASSOCIATE

B.S., biology plus 4 years of laboratory experience with exposure in histology and pathology procedures plus good fringe aptitude. Must supervise laboratory personnel and prepare reports. Please submit résumé to: **Donna Perron, Personnel Manager, Mason Research Institute, 23 Harvard Street, Worcester, Massachusetts 01608.** Equal Opportunity/Affirmative Action Employer.

The Departments of Rehabilitation Medicine and Pharmacology at the College of Physicians and Surgeons of Columbia University wish to recruit a **SCIENTIST** who is an established investigator to develop a research program in areas of mutual interest. First preference will be given to those working in the general area of the microcirculation, although other fields such as muscle activity and temperature regulation also will be considered. The appointment would carry a joint appointment in both departments commensurate with training and experience and would involve teaching responsibilities for medical and graduate students. Participation in the design and implementation of clinical research projects in collaboration with physicians is desirable. Write to: **John A. Downey, M.D., Chairman, Department of Rehabilitation Medicine, Columbia-Presbyterian Medical Center, 630 West 168 Street, New York, N.Y. 10032.**

Affirmative Action/Equal Opportunity Employer

THREE-MONTH SUMMER RESEARCH ASSOCIATESHIPS in solar physics, solar-terrestrial physics, and related atmospheric sciences are available to qualified scientists in the university community with minimal, if any, research opportunities. Any university scientist with a Ph.D. in an appropriate discipline is eligible to apply. Applications must be received by 15 December 1976. Requests for informational material should be addressed to: **Research Associateship Committee, High Altitude Observatory, National Center for Atmospheric Research, P.O. Box 3000, Boulder, Colorado 80303.** NCAR is an Equal Opportunity/Affirmative Action Employer.

VISITOR APPOINTMENTS are available for new and established Ph.D.'s for up to 1-year periods to carry out research in solar physics, solar-terrestrial physics, and related subjects. Applicants should provide a curriculum vitae including education, work experience, publications, the names of three scientists familiar with their work, and a statement of their research plans. Applications must be received by 5 January 1977, and they should be sent to: **Visitor Committee, High Altitude Observatory, National Center for Atmospheric Research, P.O. Box 3000, Boulder, Colorado 80303.** NCAR is an Equal Opportunity/Affirmative Action Employer.

VIROLOGIST. M.D./Ph.D. with postdoctoral experience for assistant professorship beginning 1 July 1977. Duties include participation in the educational programs of the Medical Center and of the Graduate School and in independent research. Research experience with and plans for continuing work on the biology of animal viruses and/or the host's response to them are required. Send a curriculum vitae, three references, and an outline of professional and research interests to: **Dr. William D. Sawyer, Department of Microbiology, Indiana University School of Medicine, 1100 West Michigan Street, Indianapolis, Ind. 46202.** An Affirmative Action/Equal Opportunity Employer.

POSITIONS OPEN

RESEARCH ASSOCIATE

Ph.D. or M.S. in chemistry, with strong background in nucleic acids and specifically RNA-dependent DNA polymerase work. Some background in genetics and microbiology essential. Send résumé, including salary history and three references, to

**P.O. Box 83
Administration Building
Howard University
Washington, D.C. 20059**
An Equal Opportunity Employer

TRAINEESHIPS

POSTDOCTORAL TRAINEESHIPS IN NUTRITIONAL BIOCHEMISTRY-DENTAL HEALTH:

Postdoctoral traineeships are available in a NIDR-funded interdisciplinary program of research in nutritional biochemistry with an emphasis on problems related to oral biology and dental health. Research interests of the training staff include calcified tissue metabolism, trace element metabolism, fat-soluble vitamin metabolism, amino acid metabolism, and blood coagulation. Trainee stipends range from \$10,000 to \$14,000 per year. The program is open to holders of Ph.D. or dental degrees, and applicants with D.D.S. or Ph.D.-D.D.S. degrees are particularly invited to apply. For information and application forms, contact **J. W. Suttle, Department of Biochemistry, University of Wisconsin-Madison, Madison, Wisconsin 53706.** The University of Wisconsin is an Equal Opportunity/Affirmative Action Employer.

FELLOWSHIPS

COMPUTERS IN MEDICINE

A 1-year postdoctoral traineeship is offered to physicians in a program supported by the National Library of Medicine. Fundamentals of computer science and applications to clinical practice and research are taught. No formal mathematical training required. Position still open for 1 September 1976. Call or write: **Aran Safir, M.D., Director, Mount Sinai Institute of Computer Science, 100th Street and Fifth Avenue, New York, N.Y. 10029.** Telephone: 212-650-7253.

POSTDOCTORAL FELLOWSHIP: The University of Alaska invites applications for a postdoctoral fellowship at the Naval Arctic Research Laboratory (NARL), Barrow, Alaska. One and possibly two positions are available to recent graduates interested in working on homeothermic physiological ecology in a cold-dominant environment. Experience in comparative metabolism, nutrition, water and electrolyte balance, and/or mechanisms of thermoregulation required. Experience in telemetry desirable. Work will be conducted at the NARL, Barrow, Alaska. Basic stipend \$13,000. Outstanding benefits include the provision of housing, food, and travel expenses for self and family. Send résumé and list of three references to: **Dr. Larry S. Underwood, Naval Arctic Research Laboratory, Barrow, Alaska 99723.** The University of Alaska is an Equal Opportunity Employer.

ELECTRON MICROSCOPIST: NRSA postdoctoral fellowship available to study the structure and function of vertebrate photoreceptors and pigment epithelium. Appointment must begin between October 1976 and June 1977; 2- or 3-year appointment, \$10,000 plus per annum. Send curriculum vitae or résumé and description of predoctoral experience to:

**Dr. Scott Basinger
Department of Ophthalmology
Baylor College of Medicine
Houston, Texas 77030**

MARKET PLACE

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**CHAIRPERSON
DIVISION OF MEDICAL BIOLOGY
NEW YORK COLLEGE OF
OSTEOPATHIC MEDICINE
NEW YORK INSTITUTE OF
TECHNOLOGY**

Nominations and applications are invited for the position of Chairperson, Division of Medical Biology. NYCOM is a newly established four year college of osteopathic medicine located in Nassau County on the north shore of Long Island on the campus of NYIT. The first class will begin in October 1977. The Division of Medical Biology serves as the major organizational unit of NYCOM responsible for the administration and co-ordination of the basic science departments.

The Chairperson initially will be responsible for the development of the basic science curriculum and for the recruitment of teaching staff. Applicants should be senior teacher—investigators possessing a doctorate in the life sciences. Experience in the administration of a medical school department is highly desirable.

Responses should be submitted in writing to: Dean, New York College of Osteopathic Medicine, NYIT, Box 170, Old Westbury, Long Island, New York 11568. Include complete curriculum vitae, bibliography, and salary requirements. *An Equal Opportunity Employer.*

ENDOCRINOLOGIST

Opening in Endocrinology section of Pharmacology Dept. requires PhD (medical or zoological sciences) with experience in mammalian reproductive physiology, pharmacology and neuroendocrinology. Background of independent research and expertise in radioimmunoassay and receptor assay required.

This is a supervisory position and responsibilities include drug evaluation and basic research. The position is located in an attractive suburb 17 miles West of Philadelphia. Qualified candidates should submit curriculum vitae to Mr. Charles Smith, Research Administrator.

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**UNIVERSITY OF NIGERIA, NSUKKA
VACANCIES**

**FACULTY OF AGRICULTURAL SCIENCES
DEPARTMENT OF FOOD AND HOME SCIENCES
ADVERT. REF. NO: UNP/SSR.1/576/GHS**

- POSTS:** (a) Professor
(b) Reader in Food Engineering
(c) Senior Lecturer in (i) Food Microbiology
(ii) Milk and Milk products Technology
(iii) Meat & Poultry Technology
(d) Lecturer in (i) Cereals, Baking and Confections Technology
(ii) Food Chemistry
(iii) Fats and oils Product Technology
(iv) Fruit, Vegetable and Beverage Product Technology.

QUALIFICATIONS AND DUTIES:

Candidates for the post of Professor must possess a Ph.D. Food Science and/or Technology with at least ten to fifteen years' academic and administrative ability in broad area of Food Science and Technology. Successful candidate will develop Food Science and Technology Programme by establishing facilities and recruiting staff and at the same time contributing one's expertise to teaching and research.

Candidates for the post of Reader must possess Ph.D. Food Engineering or in Food Technology with a major in Food Engineering with at least five years' academic and research and/or industrial experience or equivalent. Successful candidate will integrate and teach the normal but basic aspects of engineering principles into the core curriculum of the Food Science and Technology programme required for the various disciplines in the Science and Technology Programme required for the various disciplines in the science of animal and plant products from the farm to the consumer.

Candidates for the post of Senior Lecturer in Food Microbiology must be Ph.D. holders in Food Microbiology with at least three years academic and/or industrial experience. Successful candidate will develop facilities, curriculum and teach microbiology of foods with major emphasis on indigenous foodstuffs, quality control, sanitation, water quality, diseases, fermentation, picking, bringing, curing etc.

Candidates for the post of Senior lecturer in Milk and Milk Products Technology must possess Ph.D. in Food Technology with at least five years' academic and/or industrial experience. Candidates should have knowledge and experience in milk and milk product plant operations and laboratories.

Successful candidate will develop milk and milk products pilot plant, laboratories, curriculum and teach the science of milk and milk products technology from the farm to the consumer.

Candidates for the post of Lecturer in Cereals, baking and confections technology must possess Ph.D. in Food Technology with at least three years' academic and/or industrial or equivalent experience.

Successful candidate will develop laboratory facilities, curriculum and teach the science of cereals, baking and confections technology.

Candidates for the post of Lecturer in Food Chemistry must be Ph.D. holders in Food Chemistry with at least three years academic and/or industrial experience.

Successful candidate will develop facilities, curriculum and teach the chemistry of food and food processing with major emphasis on indigenous foodstuffs. Analysis, composition, quality control, food additives and food enzymes.

Candidates for the post of Lecturer in fats and oils product technology must be holders of Ph.D. in Food Technology with at least three academic and/or industrial experience.

Successful candidate will develop fats and oils pilot and laboratory facilities, curriculum and teach the Science of fats and oils Technology from the farm to the consumer.

Candidates for the post of Lecturer in Fruit, Vegetable and Beverage Product Technology must possess Ph.D. in Food Technology with three years' academic and/or industrial experience.

Successful candidate will develop fruit, vegetable and beverage pilot and laboratory facilities, curriculum and teach the science of fruit, vegetable and beverage product technology from the farm to the consumer.

- SALARY SCALES:** (a) PROFESSOR—GL.16: \$11,268–\$12,420 p.a.
(b) READER—GL.14: \$8,868–\$9,828 p.a.
(c) Senior Lecturer—GL.13: \$7,764–\$8,724 p.a.
(d) LECTURER I—GL.11: \$6,444–\$6,984 p.a.
(e) LECTURER II—GL.10: \$5,460–\$6,452 p.a.

CONDITIONS OF SERVICE:

Fare paid for appointee, wife and up to five children under eleven years of age on appointment, leave after 21 months' tour and on termination of expatriates. Annual leave with allowance for indigenous staff. Car allowance, superannuation scheme, free medical services, part-furnished accommodation at standard rates.

METHOD OF APPLICATION:

Five copies of typewriter application giving details of educational and professional qualifications, institutions attended with dates, experience showing institutions with dates, nationality, marital status, age and names and addresses of three referees competent to attest to candidate's professional ability to THE PERSONNEL OFFICER, University of Nigeria, Nsukka, Anambra State, Nigeria, and one copy to the London Representative of the University of Nigeria, 56/60 Kallam Street, London, WIN 5LH. Candidates should inform their nominated referees to forward direct to the Personnel Officer, University of Nigeria, Nsukka, Sealed Confidential Reports on their behalf.

CLOSING DATE:

What constitutes "publication"?



Microfiche. Is this enough?

Science without communication to colleagues might as well be sorcery or fantasy. "Publish or perish" says it another way. But publishing has its economics, and they can be oppressive if the communication needs color but the world needs fewer than 10,000 copies of it. Which is where microfiche makes its contribution. Professional associations have caught on to microfiche to the point that we now publish (on paper) a pamphlet entitled "Micropublishing for Professional Associations." Microfiche is not comfortable to read lying in bed; it requires a reading device. A Kodak Ektalite reader weighs about 6 pounds. A professional association that buys at least 100 of them from us can resell them to its members for about \$100 apiece if it needn't turn a profit on them. We can make a master color fiche at a price of \$1.50 for each color slide or page sent us to put on it, and the fiche can take up to 120 such images. We strike off copies for distribution at \$1.50 apiece for 50, and we drop down by steps all the way to 66¢ apiece for 1700 or more copies. Black-and-white microfiche costs less and has its place in reducing bulk for conveying voluminous data or graphics that do not require color. (Prices, of course, are subject to change without notice.)



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Jaded is the mind that finds no satisfaction in seeing its product committed to printer's type. There is a bit more to it than just communication. Gutenberg has had great impact on our sense of worth, despite abundant proof that a press can just as easily print lies and trash. Within these last few years (and with some help from Kodak technology), Gutenberg's method of raised letters to apply ink is rapidly giving way to photo offset. This has had the effect of broadening the range of price and quality that the industry can offer. The industry itself ranges from the operator of an antiquated press tossed out by a plant that needed more speed and efficiency all the way to the fully integrated house that not only sets type (which the small operator may need to have done elsewhere) but also offers design service that sets the tone of the printed product in the reader's mind more than the reader realizes. An editor facing decisions on which way to go will find upon investigation that some printers are too small and some are too big and one is just right.



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