

Stable Tracer Analyzer

This low background, x-ray energy detector may be used in certain medical and industrial applications to eliminate the need for radioactive tracers. Stable element tracers are substituted and detected and analyzed with x-ray fluorescence techniques. Sensitivity is in the parts-per-million range and tests are processed rapidly. Certain kidney, liver, and blood conditions may be diagnosed without additional exposure to radiation. Storage of stable element tracers may also be less complicated than that of radioactive tracers. Kevex, Analytical Instrument Division. Circle 668.

Chemical Light

Cyalume generates light without heat or flame. Each light consists of a plastic tube containing two liquids. The light is activated by bending the tube to break a seal and allow the liquids to mix. A yellow-green light sufficient for reading is emitted for up to 3 hours. An additional, gradually diminishing glow is emitted for 8 to 10 hours. Tegrocon. Circle 670.

Automatic Clinical Analysis

The Automicrobic System identifies infectious organisms and indicates the antibiotics most likely to be effective against them. The system employs disposable test kits which contain the growth media into which the samples are introduced. The kits are placed in an incubator where growth of organisms is monitored. Results are displayed on a cathode-ray tube. Fisher Scientific. Circle 667.

Newly offered instrumentation, apparatus, and laboratory materials of interest to researchers in all disciplines in academic, industrial, and government organizations are featured in this space. Emphasis is given to purpose, chief characteristics, and availability of products and materials. Endorsement by *Science* or AAAS is not implied. Additional information may be obtained from the manufacturers or suppliers named by circling the appropriate number on the Readers' Service Card (on pages 602A and 698A) and placing it in the mailbox. Postage is free.—RICHARD G. SOMMER

Alternating-Current Air Stirrers

The ACA stirrer uses three-phase, low-pressure air to actuate a lightweight stirring device which adapts to any flask that can be fitted with a screw cap. The stirrer is a glass rod caused to move by streams of air from three inlets at 120-degree angles from each other. The equipment may be autoclaved or used in an incubator. Three-phase air supply comes from an electric "pulsator" or from a pneumatic inverter connected to the regular laboratory air supply. Techne. Circle 669.

Oxyhemoglobin Analyzer

The Hemoximeter, model OSM2, will measure hemoglobin concentration and oxygen saturation in samples as small as 20 microliters. Whole blood or packed red cell concentrate is injected or aspirated. After it is hemolyzed in a temperature-controlled cuvette, the sample is illuminated and transmission of light at 505 and 600 nanometers is measured. Hemoglobin concentration (from 0 to 33.0 gram percent) and oxygen saturation (from 0 to 100 percent) are displayed. A 20-second measuring interval provides simultaneous display of hemoglobin and oxygen saturation. London. Circle 665.



Fig. 1. The OTD ultracentrifuge system has an oil turbine drive that eliminates drag from gears, belts, and reduces uneven bearing loads, vibration, friction, and wear. Other features include temperature control to within 1° from 0° to 40°C.

Multiple Harvester

This device is a punch-action micro-filter that simultaneously deposits samples on 12 glass-fiber disks. It may be used for radio-labeled cells or precipitates. A disk cutter system that consists of a cutter block placed over the filter manifold cuts and clamps 12 disks inside the filter manifold. The filter disks remain in the cutter block and can be pushed into counting vials at the end of cutting and washing operations. This eliminates lateral diffusion of samples or cross-contamination and minimizes handling of the filter paper. Kalex Scientific. Circle 677.

Ultracentrifuge

The Oil Turbine Drive (OTD) (Fig. 1) ultracentrifuge system offers reduced spin time and improved resolution. Vertical rotors reorient tube contents to shorten the path a sample must traverse. An automatic rate control accessory (ARC-1) controls acceleration from 0 to 1000 revolutions per minute and stirback is reduced by a Reograd mode which controls the rate of deceleration. DuPont Instruments. Circle 666.

Literature

Calculating Automatic Gamma Counter for Radioimmunoassay introduces the model 5176 device for clinical and research applications. Packard Instrument. Circle 671.

Automate Your Analytical Procedures is an eight-page guide for a variety of laboratory procedures. Arthur H. Thomas. Circle 672.

Floor Model Centrifuges describes instruments for clinical and industrial applications and includes specifications and design features of two refrigerated models. Damon/IEC. Circle 673.

Biology Source Book is an illustrated catalog of live and preserved specimens, microscope slides and audiovisual aids, books, kits, laboratory equipment, glassware, chemicals and reagents, test diets, bones, and anatomic models. Mogul Ed. Circle 674.

Pacesetter Pulse Height Analyzer is devoted to the TN-1700 analyzer, its design specifications and capabilities. Tracor Northern. Circle 675.

Portable Fume Hood describes the Captair series for 99 percent efficient filtration of gases or fumes with a molecular weight greater than 30. MDA Scientific. Circle 676.



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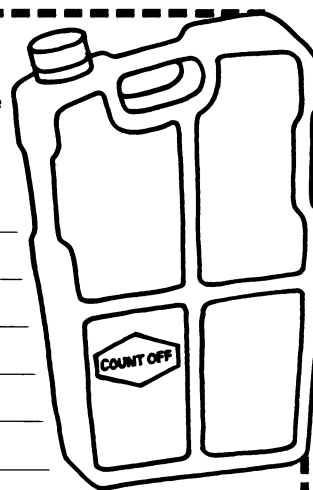
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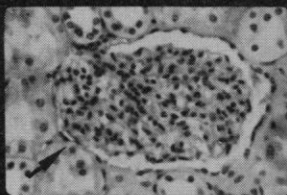


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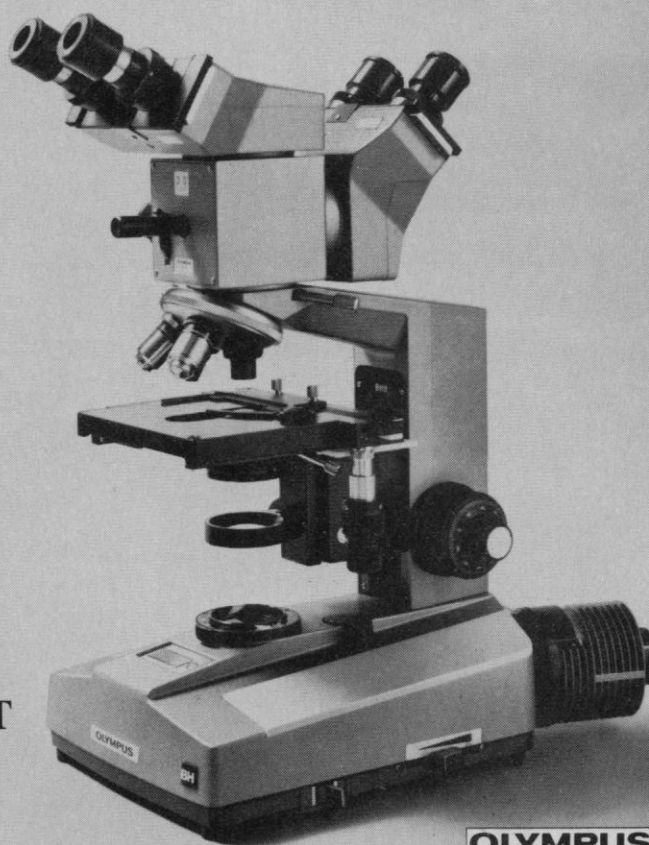


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Research, Teaching, Administration: experience in cell biology, medical mycology, plant pathology, administration; Ph.D., postdoctorate, senior postdoctorate, tenured professor, publications, research in government/universities/industries in the United States and abroad. Box 227, SCIENCE. X

Tumor Immunology, Virology. Ph.D. 1961, New York University. Arenavirus-induced tumor immunity, viral interference, chemotherapy enhancement, radioimmuno assay, C.F.R. purity and safety testing, R & D, university teaching. Seeks university or industrial research position. Midwest or Southeast, September 1976. Dr. M. Padnos, 84 Beverly Place, Levittown, N.Y. 11756. X

Water Resource Planner: M.S., seeks research/consulting position. Background in environmental impact assessment, hydrology, and water law. Box 239, SCIENCE. X

Zoologist. Ph.D. 1975. Invertebrate zoology, ethology, ecology, and comparative neurobiology. Publications, lab and field experience in marine and estuarine habitats. Seeking postdoctoral or academic (teaching/research) position. Résumé and references available. Box 240, SCIENCE. X

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DEPARTMENT OF BIOLOGY MEMORIAL UNIVERSITY OF NEWFOUNDLAND

ASSISTANT OR ASSOCIATE PROFESSOR OF BIOLOGY (BOTANY)

Subject to budgetary approval, a **botanist** is required at assistant or associate professor level for 1 September 1976 to teach introductory courses in general botany, and additional course in own specialized area. Applicants with strength in plant ecology or whole plant physiology are especially sought.

Applications and requests for further information should be sent to the **Head, Department of Biology, Memorial University of Newfoundland, St. John's, Newfoundland, Canada A1C 5S7**.

NUTRITION

Memorial University of Newfoundland, Department of Biochemistry. This Department is instituting an honours program in nutrition. A vacancy exists, at the assistant professor level, for a nutritionist, biochemist with nutritional expertise, or a person with other suitable qualifications and postdoctoral experience to teach courses in nutrition and to assist with the development of the program. Applicants should send curriculum vitae, bibliography, and names of three referees to

Dr. C. C. Bigelow
Department of Biochemistry
Memorial University of Newfoundland
St. John's, Newfoundland A1C 5S7
Canada

POSITIONS OPEN

ACADEMIC DEAN for profession college of 800 students. Must have earned doctorate in biological or health sciences plus academic administration experience. **PHYSIOLOGIST**, Ph.D., renal or fluid systems will be given preference, to teach human physiology. Must have a strong background in health-related sciences. Send curriculum vitae and names of three references to: **Dr. Leonard E. Fay, Executive Vice President, National College of Chiropractic, 200 East Roosevelt Road, Lombard, Illinois 60148. Equal Opportunity Employer.**

ASSISTANT DEAN FOR MINORITY AFFAIRS

The University of Utah College of Medicine is seeking a well-qualified person to work half time in administration and half time in academic pursuits. Clinical or research interests are preferred. Please forward curriculum vitae and letters of recommendation relating to minority affairs experience and academic interests by 18 June. Contact **Earl Z. Browne, M.D., Dean's Office, College of Medicine, 50 North Medical Drive, Salt Lake City, Utah 84132.**

Equal Opportunity Employer

The Division of Biomedical Engineering, University of Virginia, has an opening for an **ASSISTANT PROFESSOR**. The position involves teaching of advanced courses in instrumentation, supervision of the clinical apprenticeship in the master's program, as well as expansion of existing research programs in the area of instrumentation. Postdoctoral experience is required. *An Equal Opportunity Employer.* Send résumé to: **Chairman, Biomedical Engineering, Box 224, Medical Center, University of Virginia, Charlottesville, Va. 22901.**

ASSISTANT PROFESSOR IN BIOMEDICAL ENGINEERING: Candidates are sought who have a Ph.D. or equivalent in engineering, biomedical engineering, or related fields. Position involves teaching undergraduate and graduate-level courses in biomedical engineering and conducting an active program of significant research. Teaching and/or research experience in biomedical engineering following the Ph.D. is desirable. Contact **Professor Marc H. Richman, Division of Engineering, Brown University, Providence, Rhode Island 02912. Equal Opportunity/Affirmative Action Employer.**

CHEMISTRY—ASSISTANT PROFESSORS

American University of Beirut, Beirut, Lebanon. Starting October 1976. Specializations: organic, inorganic, Physical Chemistry (experimental). Ph.D. required; postdoctoral experience highly preferred. Ability to contribute to teaching in lower division, upper division, and graduate level and to participate in departmental graduate research program. Salary dependent upon training and experience. Three-year appointment, round-trip transportation allowance. Send résumé to: **Chairman, Department of Chemistry, American University of Beirut, 380 Madison Avenue, New York, N.Y. 10017, copy to: Personnel Services, American University of Beirut, 22nd Floor, same address.**

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THE UNIVERSITY OF TORONTO ASSISTANT PROFESSOR IN BIOCHEMISTRY

Applications are invited for the position of assistant professor in the Department of Biochemistry to take effect from 1 September 1976 or as soon thereafter as possible. The position will be for 2 years with the possibility of renewal. The successful applicant will be required to take part in the teaching duties of the Department. Facilities for research will be available. The minimum salary for the position will be \$15,000. Applicants with suitable qualifications should send a curriculum vitae and the names and addresses of three referees to **Professor T. Hofmann, Chairman of Search Committee, Department of Biochemistry, University of Toronto, Toronto, Ontario, Canada M5S 1A8**, to reach him not later than 15 August 1976.

Applied Microbiologist Quality Control

Applicants should have a Ph.D. and a broad background in microbiology with demonstrated research capabilities. Experience with heat, gaseous, or radiation sterilization desirable. Oral and written communicative skills essential. Responsibilities include the design and development of methods for the rapid and automated direction of microbial contamination. The person taking this position will also be expected to contribute, through independent research, new knowledge on sterilization, disinfection, and control of microbial contamination in pharmaceutical products.

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ASSISTANT OR ASSOCIATE PROFESSOR OF MICROBIOLOGY

Applications are invited for individuals interested in a position as assistant or associate professor of microbiology (available 1 August 1976). Each applicant should be prepared to develop a strong fundamental research program. He/she should submit a curriculum vitae, a list of publications, and the names and addresses of at least three persons qualified to evaluate the applicant's research. Send application to **Dr. Wai Mun Huang, Department of Microbiology, University of Utah, Salt Lake City, Utah 84132. An Equal Opportunity Employer.**

ASSISTANT/ASSOCIATE PROFESSOR PHYSIOLOGY AND BIOPHYSICS

The Department of Physiology and Biophysics, University of Iowa College of Medicine, invites applications from well-qualified individuals for several openings at the assistant and associate professor level. Applicants must hold the M.D. and/or Ph.D. degree and have a minimum of 2 years of postdoctoral training in cellular physiology or biophysics with publications demonstrating productivity in original research. Candidates should be prepared to develop strong independent research programs and to participate in the medical and graduate teaching and doctoral training activities of the department. While a preference exists for individuals with well-defined interests and research accomplishments in membrane physiology and biophysics, cellular cardiovascular physiology, or cellular and molecular endocrinology, full consideration will be given to others showing promise of outstanding contributions to the research and teaching missions of this department. Please send curriculum vitae, including bibliography and a brief description of research interests, teaching experience, and career objectives, with names of at least three references to:

Dr. Robert E. Fellows
Department of Physiology and Biophysics
University of Iowa College of Medicine
Iowa City, Iowa 52242

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The Department of Neurology, UCLA School of Medicine, San Fernando Valley Medical Program, is seeking applicants for the following full-time academic positions: **assistant professor** level for **NEUROLOGIST** with research interest in neurochemistry. **POSTDOCTORAL FELLOWS** in neurochemistry (Ph.D.) (protein synthesis and development, one; cyclic nucleotides, one). Applicants are requested to submit a curriculum vitae and reprints to **Claude G. Wasterlain, M.D., Head, Division of Neurology, Veterans Administration Hospital, Sepulveda, Calif. 91343. UCLA is an Equal Opportunity/Affirmative Action Employer and is desirous of receiving applications from minority and women candidates as well as other qualified persons.**

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Expanding diagnostics company has excellent opportunity for biochemist with background in analysis of amino acids and carbohydrates. Ph.D. preferred, but master's degree with appropriate two or more years of experience will be considered. Position offers growth potential, good salary, and benefits. Send résumé, including salary requirements, to **Box 241, SCIENCE.**

BIOLOGICAL-CHEMICAL OCEANOGRAPHER

Some background in physical oceanography required for this position at the assistant professor level to begin September 1976. The basic responsibility will be teaching of undergraduate courses, but there is some opportunity for research. Minimum requirements include a Ph.D., plus 3 years of appropriate experience. Address inquiries to **Chairman, Environmental Sciences Department, U.S. Naval Academy, Annapolis, Maryland 21402.**

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We seek surgeons and physicians experienced in the treatment of burns and trauma for positions on the faculty of Cornell University Medical College and the professional staff of the New York Hospital at the New York Hospital-Cornell Medical Center. Please send résumé and bibliography to: **Chairman, Department of Surgery, Cornell University Medical College, 1300 York Avenue, New York, N.Y. 10021. An Equal Opportunity Employer, M/F.**

CARDIO THORACIC SURGEON

We seek a surgeon experienced in the treatment of cardio thoracic disease for a position on the faculty of Cornell University Medical College and the professional staff of the New York Hospital at the New York Hospital-Cornell Medical Center. Please send résumé and bibliography to **Chief, Division of Cardio Thoracic Surgery, 1300 York Avenue, New York, N.Y. 10021. An Equal Opportunity Employer, M/F.**

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BIOLOGY CHAIRMAN: Small, liberal-arts college with strong commitment to excellence in undergraduate teaching seeks chairman of Biology Department at associate professor rank. Qualifications: Ph.D. in biology or M.D.; teaching, research, and/or administrative experience. Broad training desirable with academic emphasis in biochemistry, microbiology, genetics, or cellular/developmental biology. Salary negotiable and competitive. *Equal Opportunity/Affirmative Action Employer.* Send résumé and references to **Dr. Donald Flesche, Provost, Kalamazoo College, Kalamazoo, Michigan 49007.**

CHAIRPERSON DEPARTMENT OF BIOMECHANICS

Applications are invited for the position of chairperson of the Department of Biomechanics in the Michigan State University College of Osteopathic Medicine. Also located on the Michigan State University campus are the College of Human Medicine, the College of Veterinary Medicine, the School of Nursing, the School of Medical Technology, among the many academic units within the university which provide broad-based programs to an enrollment of more than 40,000 students.

Applicants should:

- 1) Be osteopathic physicians or persons with an earned academic degree in the biomedical sciences;
- 2) Have administrative or academic experience to provide leadership in a growing department which has excellent facilities for teaching and research, and which now consists of ten basic scientists representing a variety of disciplines, and five osteopathic physicians; and
- 3) Be able to promote the development of both basic and clinical research, as well as educational activity pertinent to osteopathic medicine.

Salary will be negotiated. Submit letter of application and a curriculum vitae to:

**John P. Goodridge, D.O., F.A.A.O.,
Chairman, Search and Selection Committee
Department of Biomechanics
College of Osteopathic Medicine
Michigan State University
East Lansing, Michigan 48824**

Michigan State University is an Equal Opportunity Employer.

CHIEF, ENDOCRINOLOGY SECTION—Louisiana State University Medical School in New Orleans, Department of Medicine, is recruiting for an M.D. to head the Section of Endocrinology. Demonstrated research interest and teaching experience required. Send curriculum vitae and references to **A. Lopez-S., M.D., Department of Medicine, Louisiana State University Medical School, 1542 Tulane Avenue, New Orleans, Louisiana 70112.** *Louisiana State University is an Equal Opportunity/Affirmative Action Employer.*

DEAN SCHOOL OF ALLIED HEALTH SCIENCES THE UNIVERSITY OF TEXAS HEALTH SCIENCE CENTER AT HOUSTON

Nominations and applications are invited for the position of Dean of the School of Allied Health Sciences.

Qualifications desired include demonstrated academic, scholastic, and administrative abilities; the candidate should be concerned with relating the activities of the School to the needs of the health care system.

The University of Texas Health Science Center at Houston was officially established in 1972 and includes the following: Medical School, Dental Branch, Graduate School of Biomedical Sciences, School of Public Health, the School of Allied Health Sciences, Speech and Hearing Institute, and School of Nursing.

Nominations and applications should be submitted in writing by 1 June 1976 to:

**Alfred G. Knudson, M.D., Ph.D.,
Dean of the Graduate School of Biomedical Sciences
Chairman, Search Committee for the Dean of Allied Health Sciences
Hermann Professional Building, Room 109
Houston, Texas 77030**

An Equal Opportunity Employer

POSITIONS OPEN

BIOCHEMIST POSTDOCTORAL POSITION

Available beginning 1 July 1976 (first year stipend \$10,000). Candidate must have strong background in either bacterial genetics, enzymology, physical chemistry, or organic chemistry. Research training available is in areas of characterization of purified enzymes of phospholipid metabolism, structure and function of membrane proteins, control of phospholipid metabolism, kinetics in two phase systems. Send curriculum vitae and names of two individuals familiar with candidate's research potential to: **William Dowhan, Ph.D., Department of Biochemistry and Molecular Biology, University of Texas Medical School, P.O. Box 20708, Houston, Texas 77025.** *An Equal Opportunity/Affirmative Action Employer.*

CLINICAL PSYCHOLOGIST

The Department of Psychology at the State University of New York at Albany expects to make a senior appointment in clinical psychology at the level of full professor, effective 1 September 1976. Applicants should send a curriculum vitae and a list of four references to **G. G. Gallup, Jr., Chairman, Department of Psychology, State University of New York at Albany, Albany, New York 12222.** *The State University of New York at Albany is an Equal Opportunity/Affirmative Action Employer.*

DEAN OF PHARMACY

The University of Arizona invites applications for the position of Dean, College of Pharmacy. Applicants should have a doctoral degree; a demonstrated capability for administration and management; knowledge about extramural sources of funding and support; a sensitivity to balancing the needs of a Pharmacy College with those of the state in which it is located; and a willingness to maintain strong ties with registered pharmacists in the state through, but not limited to, programs in continuing education. Applicants should forward a curriculum vitae to **Vice President for Health Sciences, Arizona Medical 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 Amendment.*

DEAN OF ARTS AND SCIENCES, the University of Akron, to begin September 1977. Qualifications sought include achievement in teaching, scholarship, and research, with demonstrated success in administration and a commitment to the urban mission of a metropolitan university. The University of Akron is a state-assisted institution, enrolling more than 20,000 students. Résumés and a list of references should be sent by 1 June 1976 to **Professor Paul Merrix, Dean Search Committee, Department of English, The University of Akron, Akron, Ohio 44325.** *An Equal Opportunity/Affirmative Action Employer*

ENVIRONMENTAL OR WILDLIFE BIOLOGIST: assistant professor level. The appointee will join a 19-member Biology Department and have primary responsibility for teaching and conducting counseling and research activities within the interdisciplinary environmental studies program. The appointee is expected to teach undergraduate courses in environmental interpretation, conservation of natural resources, wildlife biology, and surveillance of contemporary environmental problems. The person hired is expected to participate actively in departmental and college-wide committees as well as professional organizations. Applicant must have an earned doctorate in some phase of environmental biology, wildlife biology, or environmental science. Academic preparation in field-oriented courses within the biological and physical sciences is essential. Previous professional employment in some phase of environmental monitoring would be beneficial. Salary is commensurate with the applicant's education and experience within the parameters of the salary schedule for State College and University faculty (salary schedule is available upon request). This position is for permanent full-time employment based on an academic year of 9 months. Based upon contractual restrictions, this position can lead to tenure at the end of 3 years. Position available September 1976. Send résumé, credentials (including three professional references), and official transcripts of all academic work by 1 June 1976 to **Dr. Philip Y. Coleman, Dean of Arts and Sciences, California State College, California, Pennsylvania 15419.** *California State College is an Equal Opportunity/Affirmative Action Employer.*

POSITIONS OPEN

CYTOGENETICIST-GENETICIST: assistant professor/instructor, Ph.D., for September 1976. Position involves teaching undergraduate and graduate courses in genetics, conducting and guiding research. Send résumé, publications, list of at least three references, and a statement of planned research to **Dr. Joseph N. Concannon, Department of Biological Sciences, St. John's University, Jamaica, N.Y. 11439.** *An Equal Opportunity Employer (M/F).*

DEAN, SCHOOL OF PHARMACY

Ferris State College invites nominations and applications for the position of Dean, School of Pharmacy. The School of Pharmacy is among the largest undergraduate programs of its kind in the United States. Applicants should present evidence of significant academic and administrative experience, as well as an educational background in pharmacy and experience in pharmaceutical education. Salary is open and will be based upon the qualifications of the person employed.

Ferris State College is located on a 600-acre campus and enrolled approximately 9500 students during the fall quarter 1975-76.

It is preferred that the appointment of the Dean be effective in July 1976, or as soon thereafter as possible. Nominations and applications with current résumés and references should be submitted as soon as possible to:

**James V. Farrell, Chairperson
Search Committee for Dean
Ferris State College
Big Rapids, Michigan 49307**

An Equal Opportunity/Affirmative Action Employer

EXECUTIVE DIRECTOR

The New York Academy of Sciences seeks an executive director, whose duties would include the strengthening of existing scientific programs and the initiation of new programs concerning the impact of science on society, under the direction of the elected leadership of the Academy. State salary requirements. Benefits package available. All inquiries will be kept confidential. Send résumé and three names for reference inquiries to:

**Joseph E. Cassata
Administrative Director
The New York Academy of Sciences
2 East 63 Street
New York, New York 10021**

An Equal Opportunity Employer

FACULTY POSITION IN MEDICAL MICROBIOLOGY. Applications are invited for a position of assistant professor, starting August 1976. Preference will be given to candidates who have had teaching experience, postdoctoral training, and research accomplishments. Responsibilities associated with this position are to participate in teaching of medical and of pathogenic microbiology or of immunology, as well as of freshmen. The applicant will be expected to develop an advanced course in his specialty as well as to be active in research. The candidate will also be expected to direct graduate students. Please send a curriculum vitae and the names of three references to: **Dr. John L. Laseter, Chairman, Department of Biological Sciences, University of New Orleans, Louisiana 70122.** (A member of the Louisiana State University System.) *Equal Opportunity/Affirmative Action Employer.*

GEOLOGY FACULTY POSITIONS

California State University, Northridge, Department of Geosciences, invites applications for two full-time tenure track faculty positions at the assistant professor level. Areas of research interest-experience must include:

- 1) geophysics (marine or seismology),
 - 2) economic (metallurgy), or
 - 3) micropaleontology (Late Quaternary-Modern or Paleozoic with Great Basin experience).
- Interested persons with Ph.D. should respond with a letter of application, résumé, transcripts, and three letters of recommendation by 30 May 1976. Appointments for September 1976 or January 1977.

**Dr. Peter J. Fischer, Chairman
Department of Geosciences
California State University
Northridge, California 91324**
An Equal Opportunity/Affirmative Action Employer

POSITIONS OPEN

The position of **DIRECTOR** of the Lowell Observatory, Flagstaff, Arizona, will be open on 1 July 1977. Applicants should write to **Professor Michael C. J. Putnam, Sole Trustee, Lowell Observatory, Department of Classics, Brown University, Providence, Rhode Island 02912. Equal Opportunity Employer.**

The Instituto de Química, Universidad Central de Venezuela, invites applications for one faculty position in **GEOCHEMISTRY** (low temperature) and another in **GEOCHRONOLOGY** (K/Ar).

The Instituto de Química is devoted to research and teaching in the field of applied geochemistry. Salary commensurate with experience and qualifications. Send inquiries to:

Dr. Carlos López Eyzaguirre, Director
Instituto de Química
Facultad de Ciencias
Universidad Central de Venezuela
Apartado 10098
Caracas, Venezuela

HISTOLOGY LAB DIRECTOR AND TECHNICIAN

1) **Scientist** with Ph.D. and several years of experience to head service histology laboratory at private research institute. Must be versed in preparation of tissue, analysis of structure, and autoradiography with both light and electron microscopy. Must have experience working with neural tissue. Person will collaborate with other staff members on existing research projects.

2) **Technician** with at least 3 years of experience in areas specified above.

Salaries negotiable.

Please send curriculum vitae and references to **Dr. L. Reif-Lehrer, Eye Research Institute of Retina Foundation, Boston, Mass. 02114.**

POSITIONS OPEN

DIRECTOR INSTITUTE OF MARINE SCIENCE UNIVERSITY OF ALASKA

The University of Alaska-Fairbanks seeks applications for the position of Director, Division of Marine Science and Institute of Marine Science. Qualifications sought are a doctoral degree or its equivalent in experience or training; leadership in interdisciplinary research management; experience in dealing with federal, state, and industrial funding sources; as well as a knowledge of general university budgetary and financial operations. Also desired is a distinguished research record in ocean or aquatic science and technology as well as experience in teaching and research direction at the graduate level. The Division has a full-time faculty of 20 and a graduate student enrollment of 35.

Applications or nominations with biographical and other pertinent information should be sent before 15 June 1976 to the chairman of the search committee:

Dr. Frank Darnell
CNER
University of Alaska
Fairbanks, Alaska 99701

The University of Alaska is an Equal Opportunity/Affirmative Action Employer; women and members of minority groups are encouraged to apply.

The Deep Sea Drilling Project, Scripps Institution of Oceanography, University of California, San Diego, is currently seeking to fill positions for qualified **EARTH SCIENTISTS**. Several positions exist as project staff scientists who will engage in project-related scientific research. Appointment anticipated in the assistant through associate professional research series; salary commensurate with experience. Ph.D. in earth sciences required for all positions. Please send completed résumé and names of at least three referees to **Dr. David G. Moore, Deep Sea Drilling Project, P.O. Box 1529, La Jolla, California 92093.**

The University of California is an Equal Opportunity/Affirmative Action Employer; women and minorities are encouraged to apply.

POSITIONS OPEN

The College of Veterinary Medicine, University of Illinois, is accepting applications for the position of **Head, Department of Veterinary Anatomy, Physiology and Pharmacology.**

DUTIES: Lead and direct departmental activities associated with professional and graduate teaching, research, and service.

REQUIREMENTS: D.V.M. or equivalent; Ph.D. in anatomy, physiology, pharmacology, or related fields highly desirable; demonstrated accomplishments in undergraduate and graduate training and research; administrative experience desirable; interest in interdisciplinary teaching and research activities.

SALARY: Negotiable.

STARTING DATE: Negotiable. Position is permanently funded.

DEADLINE FOR SUBMISSION OF APPLICATIONS: 30 June 1976.

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

CONTACT: **Dr. P. J. Dziuk, Office of the Dean, College of Veterinary Medicine, University of Illinois, Urbana, Illinois 61801. Telephone 217-333-2901 or 217-333-2760.**

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. To provide breadth and avoid duplication in the ongoing immunology program here, the applicant's major area of interest should be other than cell-mediated immunity. 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.**

INVERTEBRATE PHYSIOLOGIST

The Division of Biology, State University of New York at Buffalo, has a visiting assistant professor position for an invertebrate physiologist with research interest in neurobiology. The candidate will be expected to take part in lower- and upper-division physiology courses and a graduate course in the area of specialization, to begin fall 1976. Salary dependent upon experience. Postdoctoral experience preferred. *The State University of New York is an Equal Opportunity/Affirmative Action Employer.* Send résumé and the names of three references to:

Dr. Charles Fourtner
Division of Biology
State University of New York at Buffalo
Buffalo, New York 14214

The Department of Microbiology at the University of Alabama in Birmingham Medical Center invites applications for a **JUNIOR FACULTY POSITION** in the field of **microsequence techniques**, particularly as applied to solid-phase protein sequencing. Applicant must have Ph.D. or equivalent and several years of experience in the field. Send complete curriculum vitae and three letters of reference by 1 June to **Dr. J. Claude Bennett, Chairman, Department of Microbiology, University of Alabama in Birmingham, University Station, Birmingham, Alabama 35294.**

An Affirmative Action/Equal Opportunity Employer

LECTURER IN VERTEBRATE ZOOLOGY, to teach embryology or developmental zoology, participate in basic courses, and develop research program attractive to graduate students; starting 1 September 1976. Salary range US\$10,000 to US\$16,400 per annum; superannuation, medical benefits, long leave, passages, children's education allowance, and housing for overseas appointees.

Curriculum vitae, one-page statement of current and projected activities, and names of three referees should be sent by 10 June 1976 to **Registrar, New Asia College, The Chinese University of Hong Kong, Shatin, Hong Kong.**

RESEARCH SCIENTIST & PROJECT LEADER *Female Applicants Welcomed*

Our consumer Business Division (Feminine Care R&D) is looking for two individuals with at least 3-5 years experience in research and development. Leadership qualities necessary.

These positions require strong scientific backgrounds in the physical sciences of chemistry and physics and/or chemical engineering. Must have strong problem solving background, able to set up and carry out scientific experimentation. Graduate training is preferred. Knowledge of colloid and surface chemistry, cellulose and polymer science is desired. Related subjects such as biochemistry, biology, physiology and psychology would be useful.

We offer an outstanding benefits program. Salary \$23,000 calibre, commensurate with experience and qualifications. Send resume and salary history in complete confidence to:

Corporate Recruiting Department S



KIMBERLY-CLARK
NEENAH, WISCONSIN 54956

An Equal Opportunity Employer

POSITIONS OPEN

Rosenstiel School of Marine and Atmospheric Science, Division of Marine Geology and Geophysics, University of Miami. Vacancy for **MARINE GEOPHYSICIST** on the faculty, with responsibilities for some teaching and the development of a marine geophysics program. We desire someone with broad interests, who wishes to go to sea, and who will interact with other members of the Division. Level of appointment will be based on experience. Applications should be sent to **Dr. C. G. A. Harrison, Rosenstiel School of Marine and Atmospheric Science, 4600 Rickenbacker Causeway, Miami, Florida 33149.** *The University of Miami is an Equal Opportunity/Affirmative Action Employer.*

NEUROBIOLOGIST—The Department of Anatomical Sciences has an immediate opening at the assistant professor level for a neurobiologist with an active research program in structure/function of mammalian nervous system. Teaching responsibilities include neuroanatomy for medical and dental students and participation in the university-wide graduate neuroscience training program. Excellent research facilities available. Reply with curriculum vitae by 1 July 1976 to: **Dr. Maynard M. Dewey, Chairman, Department of Anatomical Sciences, Health Sciences Center, State University of New York, Stony Brook, New York 11794.** *Applications from women and members of minority groups are encouraged.*

PATHOLOGY POSITIONS available: Department of Pathology, Louisiana State University School of Medicine—Shreveport. Academic pathologists with service capabilities and special interests needed. Should be Board-certified. Interested pathologists considered at any academic level. Inquiries or curriculum vitae should be sent to **Dr. A. G. Smith, Department of Pathology, Louisiana State University School of Medicine—Shreveport, Box 3932, Shreveport, Louisiana 71130.** *An Equal Opportunity Employer.*

PHARMACOLOGIST—Assistant professor position available July 1976. Ph.D. in pharmacology required and D.V.M. or M.D. degree desired, but not mandatory. The successful applicant will be expected to develop a research program in an area of pharmacology with some relevance to veterinary medicine. Teaching assignments are in pharmacology courses for veterinary technology and veterinary medical students. Applicants should submit curriculum vitae and names of three references to **Dr. G. D. Goetsch, Department of Veterinary Physiology and Pharmacology, School of Veterinary Medicine, Purdue University, West Lafayette, Ind. 47907.** *An Equal Opportunity/Equal Access Employer.*

PHYSICIANS

Squibb, a leader in the pharmaceutical and proprietary drug field, has the following challenging opportunities available for physicians in its worldwide headquarters located in Princeton, New Jersey.

CLINICAL PHARMACOLOGY—Responsible for delineating human pharmacology of multiple new drug candidates, that is, the disposition and biological action of these drugs as well as the qualitative and/or quantitative estimates of their safety, tolerance, and evidence of therapeutic activity (phase I).

CLINICAL RESEARCH—Responsible for designing, executing, and analyzing new drug clinical research programs, that is, conducting controlled drug comparison studies, establishing therapeutic indications and limitations of new drugs, determining drug efficacy and safety, and so forth (phases II and III).

MEDICAL DEVELOPMENT—Responsible for designing and monitoring clinical studies related to the development of new indications for marketed products and provide medical consultation and support to the marketing division (phases III and IV).

These attractive and rewarding positions, which will offer successful candidates the exposure of significant contact and interfacing with preclinical, medical, and marketing colleagues, prefer a background in internal medicine, as well as good communications skills, and a willingness for moderate domestic and international travel.

Candidates are invited to forward their curriculum vitae (or inquiries) in confidence to:

**Recruitment Manager
E. R. Squibb and Sons, Inc.
P.O. Box 4000
Princeton, New Jersey 08540**
An Equal Opportunity Employer, M/F

POSITIONS OPEN

UNIVERSITY OF THE WEST INDIES LECTURER/ASSISTANT LECTURER IN ZOOLOGY (FISHERIES BIOLOGY)

Applications are invited from suitable qualified persons for the post of lecture/assistant lecturer in the Department of Zoology (Fisheries Biology) at the University of the West Indies, Mona, Jamaica. The person appointed will be expected to assist in the development of programs of research and teaching in fisheries biology and fisheries management in the Caribbean.

Salary scale: Lecturer—J\$7,710 × 360 to \$9,870 (Bar) × 360 to \$12,030 (1975/76). J\$8,289 × 387 to \$10,611 (Bar) × 387 to \$12,933 (1976/77). Assistant Lecturer—J\$6,258 × 300 to \$6,858; \$7,278 (1975/76). J\$6,729 × 321 to \$7,371; \$7,824 (1976/77).

FSSU Study and Travel Grant. Unfurnished accommodation will be let by the University at a rental of 10 percent of salary, or a housing allowance of 20 percent of salary will be paid. Up to five full passages (at approved rates) on appointment and on normal termination.

Detailed applications (six copies) giving full particulars of qualifications and experience, date of birth, should be sent as soon as possible to **The Registrar, University of the West Indies, Mona, Kingston 7, Jamaica.** Further particulars of the post are available from the same source or from the **Inter University Council for Higher Education Overseas, 90/91 Tottenham Court Road, London W1P 0DT, England.**

MICROBIAL GENETICIST. Fall 1976. Responsibilities will include teaching undergraduate courses in genetics, microbiology, and possibly biochemistry. Research specialty open. Ph.D. and teaching experience are required. The application deadline is 30 days from the appearance of this ad. Send curriculum vitae, transcripts (copies acceptable), and three letters of recommendation to: **Dr. John B. Westbrook, University of South Carolina at Aiken, 171 University Parkway, Aiken, South Carolina 29801.** *An Affirmative Action/Equal Opportunity (M/F) Employer.*

PLANT ANATOMY AND GENERAL BIOLOGY: The Biology Department, Utah State University, has a position available as assistant professor with a beginning salary of \$12,000 to \$12,500 on a 9-month contract. The position will provide an excellent opportunity to develop an independent research program. Candidate must have a Ph.D. and a broad training in botany, especially in plant anatomy. Deadline for applications is 15 May 1976. Send curriculum vitae, reprints, and three references to **Professor Arthur H. Holmgren, UMC 45, Utah State University, Logan, Utah 84322.**

POSTDOCTORAL POSITION available on 1 July for Ph.D. or M.D. with a strong background in biochemistry and molecular biology to work on purification and characterization of cellular factors required in the replication of simian virus 40 chromatin in both soluble form and in isolated nuclei. Send curriculum vitae and names of three references to:

**Dr. Melvin L. DePamphilis
Department of Biological Chemistry
Harvard Medical School
25 Shattuck Street
Boston, Mass. 02115**

POSTDOCTORAL POSITION available immediately for studies on the mechanism of steroid hormone action at the molecular level on neoplastic lymphoid tissue. Salary to \$14,000 plus excellent benefits. Send curriculum vitae to **Director, Research Institute, Hospital for Joint Diseases and Medical Center, 1919 Madison Avenue, New York, New York 10035.** *An Equal Opportunity Employer.*

POSTDOCTORAL POSITION available September 1976 for research in molecular endocrinology. Specific project areas include structure-function relationships, hormone-receptor interactions, and molecular mechanisms of action of growth hormone, prolactin, and placental lactogen. Training in protein characterization, membrane chemistry, or molecular biology preferred. Experience in competitive binding and bioassays or cell/tissue culture desirable. Stipend \$10,000 to \$12,000. Send curriculum vitae with names of at least three references to: **Dr. Robert E. Fellows, Department of Physiology and Biophysics, University of Iowa College of Medicine, Iowa City, Iowa 52242.** *The University of Iowa is an Equal Opportunity Employer.*

CHEMIST

ORGANIC SYNTHESIS

Lawrence Livermore Laboratory is seeking a B.S., M.S., or Ph.D. chemist with bench experience in the synthesis of peptides. The successful candidate must be mature, technically competent, resourceful and capable of working independently with only general guidance. He or she will work in a small synthesis group to supply an active Biomedical research program with new, specialized peptide derivatives and related biologically active materials. Responsibilities will include design of the synthetic route, its execution, and characterization of the final products. (Reply to LLL position M-404.)

Lawrence Livermore Laboratory is operated by the University of California for ERDA (Energy Research & Development Administration). As a professional staff member, you'll be working in Livermore, California, which is about an hour's drive from the San Francisco Bay Area. Work performed at the National Laboratory covers a wide range of goals, including utilization of natural resources, generation of electrical power and other energy systems and projects aimed at strengthening the country's national defense potential. Our affirmative action program guarantees fair consideration to all applicants. *You must be a citizen of the United States.*

Send your resume and salary history, in confidence to:

Professional
Employment
Department
LAWRENCE
LIVERMORE
LABORATORY
P.O. Box 808
(SC-056)
Livermore,
CA 94550



U.S.
Citizenship
Required

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Opportunity
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**LAWRENCE
LIVERMORE LABORATORY**

POSITIONS OPEN

Available now: **POSTDOCTORAL POSITION** to do research involving recombinant DNA technology. A background involving nucleic acid research is necessary. \$10,000. Send résumé and three references to **Dr. John Donelson, Biochemistry Department, University of Iowa, Iowa City, Iowa 52242.**

POSTDOCTORAL POSITION

The Aquatic Ecology Program at Virginia Polytechnic Institute and State University has a 1-year postdoctoral position available for a diatom taxonomist-ecologist. The position requires the applicant to work as a member of a team of biologists and physicists developing an automated, laser holography based, system to identify diatoms. Salary is \$13,000 per year. Position is open 1 July 1976. Send curriculum vitae to:

Dr. Kenneth L. Dickson
1020 Derring Hall
Virginia Polytechnic Institute and State University
Blacksburg, Virginia 24061
An Equal Opportunity Employer

POSTDOCTORAL POSITION

Postdoctoral position open 1 June 1976 for a period of up to 3 years to study inorganic electrolytes in cardiac muscle with ion selective electrodes. Send curriculum vitae and three letters of recommendation to **Dr. J. L. Walker, Department of Physiology, College of Medicine, University of Utah, Salt Lake City, Utah 84132. The University of Utah is an Equal Opportunity/Affirmative Action Employer, M/F.**

POSTDOCTORAL POSITION (2 years), available immediately in an NIH-supported training program. Biochemical genetic studies of function, and synthesis of lysosomes and lysosomal enzymes in mouse mutants. Training in biochemistry and/or molecular biology required. \$10,000 to \$12,000 per year depending upon experience. Send curriculum vitae and names of three references to **Dr. Richard T. Swank, Department of Molecular Biology, Roswell Park Memorial Institute, 666 Elm Street, Buffalo, New York 14263. An Equal Opportunity/Affirmative Action Employer.**

POSTDOCTORAL POSITION: Recent Ph.D. to join laboratory studying comparative muscle structure, mechanics, and protein organization. Previous experience in muscle biochemistry, physiology, or structure desirable. Position available July 1976; salary \$14,000. Send curriculum vitae and names of three references to: **Dr. M. M. Dewey or Dr. B. Walcott, Department of Anatomical Sciences, Health Sciences Center, State University of New York, Stony Brook, New York 11794. An Equal Opportunity/Affirmative Action Employer.**

POSTDOCTORAL POSITIONS

Opportunities for research training in cardiovascular physiology, covering all aspects of human and animal studies available for Ph.D. or M.D. applicants. Send résumé, with references, to: **Dr. Alexander R. Lind, Professor and Chairman, Department of Physiology, Saint Louis University School of Medicine, 1402 South Grand, Saint Louis, Missouri 63104.**

POSTDOCTORAL POSITION for physicist or physical chemist, 2 years, starting at \$10,500 per year. New England location. Must be familiar with NMR experiment and theory, especially relaxation phenomena. Work will be in biophysical chemistry but no biochemical experience is necessary. Send complete curriculum vitae to **Box 242, SCIENCE.**

UNIVERSITY OF OXFORD, ENGLAND Coulson Professorship of Theoretical Chemistry

The electors intend to proceed to an election to the newly established Coulson Professorship of Theoretical Chemistry. The stipend of the professor will be £8773 per year.

Applications (nine copies), naming three referees but without testimonials, should be received not later than 28 May 1976 by the Registrar, University Offices, Wellington Square, Oxford OX1 2JD, England, from whom further particulars may be obtained.

POSITIONS OPEN

POSTDOCTORAL POSITION. Available immediately for an individual with a degree in physical-inorganic-radio chemistry. Research involves the development of efficient and rapid chromatographic separations of VI and VII group elements. This is part of an ongoing basic research program, in collaboration with Harvard Medical School, in the development and use of radio nuclides in basic biological, biochemical, and medical research. Only those individuals with the above skills need apply. The candidate should furnish résumé, transcripts, and request letters of recommendation to be forwarded for a 1-year position to begin on or about 1 June 1976 to: **Dr. Alfred P. Wolf, Department of Chemistry, Brookhaven National Laboratory, Upton, N.Y. 11973. An Equal Opportunity Employer, M/F.**

PROFESSOR IN RESIDENCE OR ASSOCIATE PROFESSOR IN RESIDENCE IN THE DIVISION OF MEDICAL PHYSICS UNIVERSITY OF CALIFORNIA, BERKELEY

The Division has undergraduate and graduate teaching programs in cellular biophysics, radiation biophysics, theoretical biophysics, and medical physics. Research activities will be expected to be developed in research medicine in the field of specialization of the successful candidate. The candidate must be a physician who is presently licensed or potentially licensable to practice medicine in California. An individual is sought with a strong background in any of the following fields: hematology, immunology, or endocrinology. Research activities will be conducted in the Donner Laboratory and Donner Pavilion of the University of California. *Minority and women candidates are urged to apply.*

Interested candidates should send a current résumé, and the names of three persons to act as references, to the **Chairman of the Search Committee**, by 15 June 1976: **Edward L. Alpen, Professor of Medical Physics, Donner Laboratory, University of California, Berkeley, Calif. 94720. Equal Opportunity/Affirmative Action Employer.**

RESEARCH ASSOCIATE. Experimentalist required for research on turbulent and lower-hybrid resonance heating of laboratory plasmas, some supervision of graduate students, and occasional teaching of laboratory plasma courses. Ph.D. in plasma physics, relevant research and teaching experience, and a substantial publications record are required. Salary: about \$16,000. Send letter of application and curriculum vitae before 1 June 1976 to: **F. W. Crawford, Chairman, Institute for Plasma Research, Stanford University, Stanford, Calif. 94305. An Equal Opportunity/Affirmative Action Employer.**

RESEARCH ASSOCIATE THEORETICAL SURFACE SCIENCE

Chemical physicist with strong background in quantum chemical and reactive scattering calculations to work on problems involving molecule interactions with solid surfaces. Some prior experience in surface theory and at least 1 year of postdoctoral experience desired. Starting date is 1 July 1976; position is for 1 year (\$12,000), with renewal possible. Applications, including résumé, complete bibliography, and the names of at least three references, should be sent by 1 June 1976 to **Dr. Gerald P. Aldredge, Graduate Center for Materials Research, University of Missouri-Rolla, Rolla, Missouri 65401.**

An Equal Opportunity/Affirmative Action Employer

RESEARCH ASSOCIATE. Position available September 1976, for Ph.D. interested in cell physiology. Studies will center on the energetics of amino acid transport in mammalian cells. Send résumé and names of two references by 1 June 1976, to **Dr. Margaret C. Neville, Department of Physiology, University of Colorado Medical School, Denver, Colorado 80220. The University of Colorado is an Equal Opportunity Employer.**

RESEARCH POSITION

Electron microscopy of auditory system. Ph.D. in related field preferred. Send curriculum vitae to **D. Hilding, M.D., Department of Otolaryngology, Abraham Lincoln School of Medicine, 1855 West Taylor, Chicago, Illinois 60612.**

POSITIONS OPEN

CSIRO DIVISION OF COMPUTING RESEARCH CANBERRA, A.C.T. RESEARCH SCIENTIST

CSIRO has a broad charter for research into primary and secondary industry areas. The Organization has approximately 7000 employees, 2200 of whom are research and professional scientists, located in Divisions and Sections throughout Australia.

FIELD: Typesetting and graphics languages (micrographics).

GENERAL: The Division operates a very large scale computer system based on a CDC Cyber 7614 processor. An 111 Comp 80 programmable microfilm device is operated as an output unit of the Cyber. A project is under way to develop Cyber software for text, graphics, and image display on the COMP 80.

DUTIES: The research and development of typesetting, graphics composition languages, and participation in the development of micrographics facilities.

QUALIFICATIONS: A Ph.D. degree in an appropriate field or equivalent together with demonstrable research ability.

SALARY: Research scientist or senior research scientist: A\$12,833 to A\$19,004 per year.

TENURE: Indefinite, with superannuation, or fixed term.

Applications stating full personal and professional details, the names of at least two referees, and quoting reference number 900/289, should reach:

**The Chief
Division of Computing Research
CSIRO
P.O. Box 1800
Canberra City, A.C.T. 2601
Australia**

by 21 May 1976.

ROTATORS: TEMPORARY SCIENTIFIC AND ENGINEERING POSITIONS WITH THE NATIONAL SCIENCE FOUNDATION

The National Science Foundation is seeking three qualified applicants to serve 2-year appointments as program managers in the Directorate for Research Applications. The appointments are intended to be temporary, suitable for persons who wish to gain a field overview and understanding of the processes of federal research support.

Successful candidates will take part in the planning, development, and administration of expanding resources programs. Salaries range from \$22,906 to \$37,800, depending on qualifications and experience. One position in each of the three following fields of specialization is open:

Economics, operations research, systems-oriented engineering. Candidates must have the breadth and depth of background required to judge research in the resources field which involves both technical components and social, legal, environmental, and economic components.

Mineral economics, or a closely related discipline. Candidates must demonstrate the background necessary to judge research excellence, budgetary requirements, time required to complete proposed research, and methods of bringing about utilization.

Agricultural engineering, or a closely related discipline. Candidates must demonstrate the background necessary to judge research excellence, budgetary requirements, time required to complete proposed research and methods of bringing about utilization.

For each of these positions five or more years of successful research experience beyond the Ph.D. degree or its equivalent is desired. Additional managerial and engineering experience would be useful.

These positions are excepted from the competitive service and will have a tenure of 2 years. Applicants will be given an excepted appointment under the NSF Act of 1950 as amended. Persons who are in a position to take a 2-year leave of absence from the current employment may find this appointment both challenging and interesting.

Those interested in being considered for these positions should forward current résumés to the **Division of Personnel and Management, Attn: RANN ROTATORS—Group II, National Science Foundation, 1800 G Street, NW, Washington, D.C. 20550.**

An Equal Opportunity/Affirmative Action Employer

AUDIOLOGIST (GS-665-13/14)

or

PSYCHOLOGIST (GS-180-13/14)

COMMUNICATIVE DISORDERS PROGRAM NATIONAL INSTITUTE OF NEUROLOGICAL DISEASES AND STROKE, NIH, PHS

REQUIRED: Minimum of three years experience in experimental design, research methodology and experimental evaluation procedures. Successful candidate should possess a Ph.D. or equivalent in the hearing sciences.

DESIRABLE QUALIFICATIONS: Clinical audiology experience with infants, children and adults; demonstrated research competence in acoustics, noise trauma and auditory rehabilitation (amplification and speech reading); and experience in the administration of grants and/or contract clinical research programs.

The Communicative Disorders Program is responsible for the planning, coordination and conduct of research aimed at the diagnosis, treatment and prevention of varied disorders of human communication and other sensory systems. Incumbent assists the Director in planning and formulating the Institute's communicative disorders research program, including the development of scientific policy, evaluation of the current status of programs, and the development of recommendations concerning areas for program emphasis. Incumbent's primary responsibilities will be developing, encouraging and overseeing research projects, with special concern for problems of audition. Although incumbent's responsibilities involve primarily research administration, it is possible that opportunities for independent research will exist. This position is in the Career Civil Service.

TO APPLY: Submit SF-171 to:

NINCDs Personnel Office

NATIONAL INSTITUTES OF HEALTH

Public Health Service

Bldg. 31, Room 8A-23, Bethesda, Md. 20014, (301) 496-6334
Deadline for receipt of application is May 31, 1976

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BIO-MEDICAL DEVELOPMENT ENGINEER

Hollister Incorporated, a leader in the international health care field, is seeking a Bio-Medical Development Engineer for our facility in a northern suburb of Chicago. You will have responsibility for new product conceptualization, design, and feasibility testing as well as review and upgrading of current product technology.

Minimal requirements include a bachelor's degree in physical or biological sciences or the engineering field and 3-5 years' experience. The ideal candidate will be highly innovative with superior analytical and communicative skills.

We offer an excellent compensation package, including profit sharing, plus the opportunity for professional and personal growth. For a confidential interview, submit a comprehensive resume including salary requirements to:

Peter M. Wisniewski
Manager, Corporate Recruitment



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Vaccine Research

Our Biological Laboratories has an opening in the Research and Development Department for a Microbial-Biochemist to conduct basic research in the development of bacterial vaccine.

The successful candidate should have a PhD with 2 to 5 years post doctoral experience preferably in radiochemistry, bacterial fermentation and analytical biochemistry. This person will be involved in the isolation, purification and analysis of bacterial fermentation products as they apply to vaccine development.

Merrell-National is a Division of Richardson-Merrell Incorporated, a Fortune 500 Company. The Biological Laboratories are located in a beautiful rural location in the Pennsylvania Pocono Mountains accessible to both New York and Philadelphia.

Please send resume, including salary requirements to D. H. Gattone, Personnel Manager.

Merrell

MERRELL-NATIONAL LABORATORIES
Division of Richardson-Merrell Inc.
Swiftwater, Pennsylvania 18370

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IMMUNOGENETICIST

The National Institute of Environmental Health Sciences, National Institutes of Health, Public Health Service, DHEW, invites applications for an Immunogeneticist under the Staff Fellowship Program (Visiting Scientist or Visiting Associate candidates will also be considered). As a member of the biochemical genetics group, the incumbent will plan and conduct independent and collaborative research in the 1) development and production of monospecific antibodies and coupling of these with fluorescent dyes; 2) detection of somatic mutations in hemoglobin loci using animal experiments; 3) development of contracts for mass productions of monospecific antibodies; and 4) collaboration with human epidemiologists and population geneticists to develop human field studies for detection of factors of the human population exposed to mutagenic and carcinogenic hazards.

A Ph.D. in immunology or genetics is required, as well as postdoctoral experience and publications in the field over the last 3 years. The appointment will initially be for 1 or 2 years and may be extended. Salary will range from \$15,100 to \$25,300 per annum depending on qualifications.

Letters of application with curriculum vitae, bibliography and name and address of two references should be addressed to:

Ms. Penelope P. Gardner
National Institute of
Environmental Health Sciences
P.O. Box 12233
Research Triangle Park, N.C. 27709

Letters must be received by June 18, 1976 to be considered.

An Equal Opportunity Employer

POSITIONS OPEN

RESEARCH SCIENTIST

The University of Missouri Research Reactor Facility (MURR) has a position for a research scientist to assist in the neutron diffraction/inelastic scattering programs. This position will be filled by an experimentalist with experience in neutron scattering. Ability to promote research, interface with academic departments, and create new experiments is desired. This position provides the opportunity to be associated with the highest powered, highest neutron flux reactor at a U.S. university and an expanding neutron scattering program. Required qualifications are a master's degree plus 2 years of postmaster's research or experience and education totaling at least 9 years. Ph.D. preferred.

Send résumés to:

University of Missouri
Personnel Services
309 Hitt Street
Columbia, Missouri 65201

An Affirmative Action/Equal Opportunity Employer

RESEARCH TRAINEE

Participate in research and lipoprotein metabolism in experimental animals. Recent Ph.D. in biochemistry with an interest in lipoprotein metabolism. Salary \$10,000 to \$11,000. M.Sc. in biochemistry will be also considered. Position available 1 July 1976. Send curriculum vitae and the names of two references to Dr. K. M. Kuty, Director of Biochemistry, The Dr. Charles A. Janeway Child Health Centre, St. John's, Newfoundland, Canada.

SUMMER TEACHING POSITIONS

The University of Minnesota Lake Itasca Forestry and Biological Station offers 5-week teaching positions each summer to biologists who have distinguished themselves as researchers and instructors. Positions open in 1977 are field ethology, fire ecology, vertebrate ecology, aquatic entomology, and experimental parasitology. Qualified and interested persons should contact David F. Parmelee, 349 Museum, University of Minnesota, Minneapolis 55455. An Equal Opportunity Employer.

The Faculty of Natural Sciences and Mathematics announces the following openings for UNDERGRADUATE TEACHING POSITIONS beginning September 1976. We seek candidates who have the crucial balance of human insight and professional competence and a commitment to undergraduate teaching excellence. Candidates for assistant professor level positions should have a Ph.D. or expect to receive the degree by September; candidates for instructor level positions should have a master's degree.

BIOLOGY—ASSISTANT PROFESSOR—to teach psychobiology, sensory systems, invertebrate physiology, and comparative physiology.

BIOLOGY—INSTRUCTOR OR ASSISTANT PROFESSOR—to teach animal behavior, mammalogy, and sociobiology.

CHEMISTRY—INSTRUCTOR OR ASSISTANT PROFESSOR—to teach general and organic chemistry. Candidates for the assistant professor level must have special strengths in bioinorganic chemistry.

GEOLOGY—ASSISTANT PROFESSOR—to teach geophysics and mineral resources or other area of applied geology.

MATHEMATICS—ASSISTANT PROFESSOR OR INSTRUCTOR—to teach upper- and lower-division mathematics courses.

MATHEMATICS SKILLS—INSTRUCTOR—to teach basic mathematical skills.

REGIONAL SCIENCE—ASSISTANT PROFESSOR—to teach regional science, economic geography or systems analysis, and environmental economics.

In addition to teaching in the indicated areas, opportunities are available for interdisciplinary teaching in related science programs and for teaching science or nonscience courses as part of Stockton's General Studies offerings. Detailed position descriptions are available. Send professional résumé and letter to Dr. Philip Nanzetta, Dean, Faculty of Natural Sciences and Mathematics, Stockton State College, Pomona, N.J. 08239. Equal Opportunity Employer.

POSITIONS OPEN

RESEARCH/TEACHING POSITION IN ZOOLOGY

Animal ecologist, assistant professor, training in population and ecosystem ecology of terrestrial vertebrates preferred or **neurobiologist or neurophysiologist**, assistant professor. Position to begin September 1976. Salary open. Postdoctoral experience desirable, duties to include graduate and undergraduate courses in the area of specialty and some lecture participation in general biology. Strong commitment to research required. Send curriculum vitae and names of three references to:

Dr. Robert A. Paterson, Head
Department of Biology

Virginia Polytechnic Institute and State University
Blacksburg, Virginia 24061

An Affirmative Action/Equal Opportunity Employer

SUPERVISOR Diagnostic Immunology Laboratory

We are seeking a well-qualified individual with at least 3 years of experience in diagnostic immunology. Responsibilities include supervision, staff development, student instruction, and assisting physicians in the interpretation of unusual problems.

Starting salary commensurate with qualifications plus a full range of benefits. Contact Z. Moore, Employment Office, Telephone 203-436-1468.

Yale-New Haven Hospital
330 Cedar Street
New Haven, Conn. 06504

Equal Opportunity Employer, M/F

FELLOWSHIP

POSTDOCTORAL FELLOWSHIP IN LIPID BIOCHEMISTRY

For research-oriented scientist with experience and strong interest in lipid metabolism and lipid enzymology. Write to: The Hormel Institute, University of Minnesota, Austin, Minnesota 55912. An Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL FELLOWSHIPS IN BIOCHEMISTRY

Two or three postdoctoral fellowships are available for research in the field of regulation of gene transcription. Bacterial plasmids and animal viruses are the main systems being studied.

Postdoctoral candidates are invited to send curriculum vitae, field of interest, and date available to:

Dr. Geoffrey Zubay
Department of Biological Sciences
Columbia University
New York, N.Y. 10027

POSTDOCTORAL FELLOWSHIP—BIOCHEMISTRY: The Department of Biochemistry has an opening for a postdoctoral fellow, beginning 1 September 1976, in the area of aminopeptidase chemistry in the laboratory of Professor F. J. Behal. Individual selected for the fellowship will be expected to devote full time to structural and functional studies of human alanine aminopeptidase isoenzymes derived from liver, pancreas, kidney, and duodenum. Candidates must have the Ph.D. or M.D. Send curriculum vitae plus names of three references to: F. J. Behal, Chairman, Department of Biochemistry, Texas Tech University School of Medicine, P.O. Box 4569, Lubbock, Texas 79409.

An Equal Opportunity Employer

SYMPOSIUM

SYMPOSIUM ON DRUG METABOLISM AND RESIDUES IN FOOD-PRODUCING ANIMALS

The Animal Health Institute, Colorado State University, and Washington State University are sponsoring the above symposium which will be held 16 and 17 June 1976, in Arlington, Virginia. For additional details, contact Dr. Jerry Brunton, Animal Health Institute, 1717 K Street, NW, Suite 1009, Washington, D.C. 20006. Registration is limited.

CONFERENCE

NATO CONFERENCE ON MARINE NATURAL PRODUCTS

The NATO Marine Sciences Program is sponsoring a conference on Marine Natural Products at the Mermaid Hotel, Jersey, U.K., 12 to 16 October 1976. The conference will employ a workshop format, with invited speakers, a limited number of contributed papers, and discussion sections on "Applications of Marine Natural Products in Medicine and Agriculture," "Chemotaxonomy in Marine Organisms," and "Chemical Communication Between Marine Organisms," to which all participants will be expected to contribute. All papers will be presented in English and will be published in a NATO conference volume. A limited number of grants-in-aid will be available to those who contribute papers. Further details can be obtained from Dr. D. J. Faulkner, A-012, Scripps Institution of Oceanography, La Jolla, California 92093.

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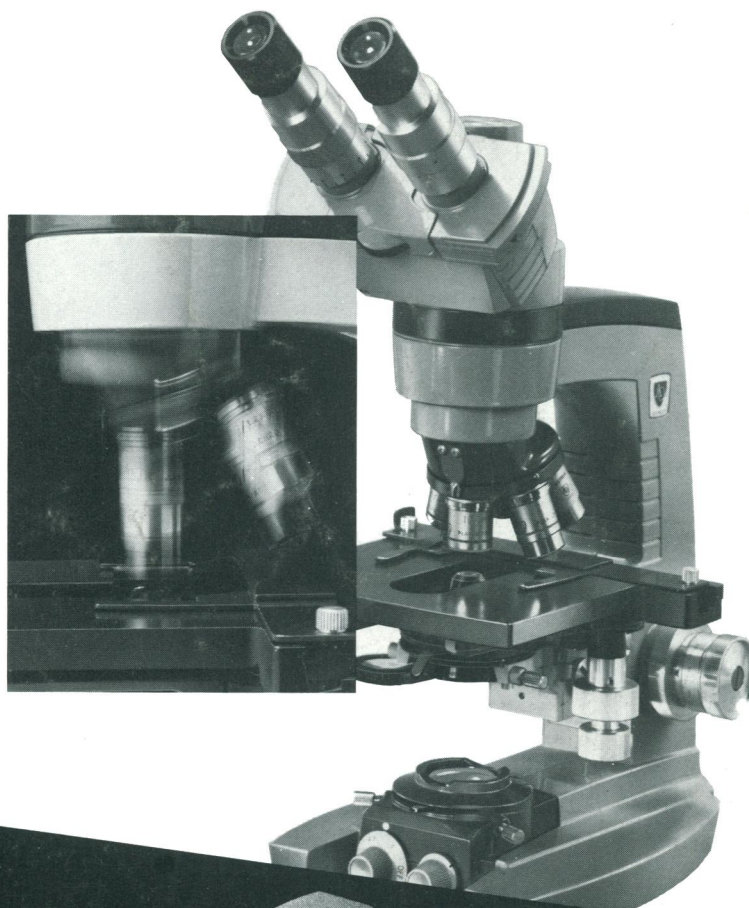
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