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Produces a continuous, complete hemoglobin-oxygen equilibrium curve in approximately 20 minutes from only two microliters of whole blood or hemolysate.

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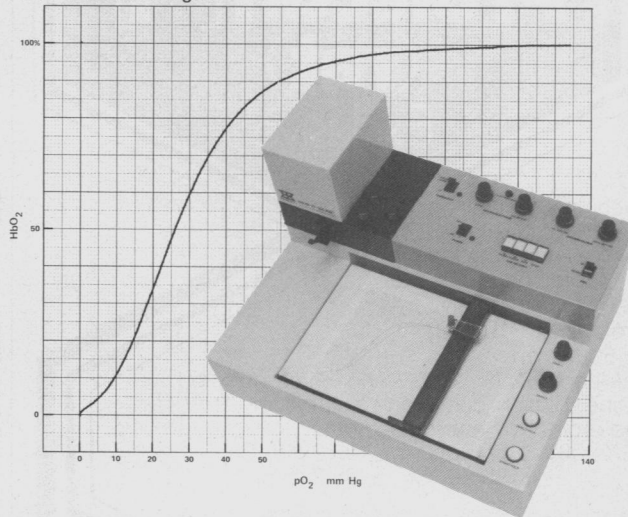
The Hem-O-Scan analyzer equilibrates the sample with varying oxygen partial pressures and simultaneously records a continuous curve on an X-Y recorder. The oxygenation of hemoglobin is monitored by dual-wavelength spectrophotometry and the oxygen partial pressure is measured by a Clark oxygen electrode.

See us at the Clinical Pathology Meeting,
Booths Nos. J23-J24-J25-J26.

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Below: Hemoglobin-oxygen equilibrium curve of normal human blood at 37°C and pCO₂ of 40mm Hg showing a P50 = 26.0mm Hg.



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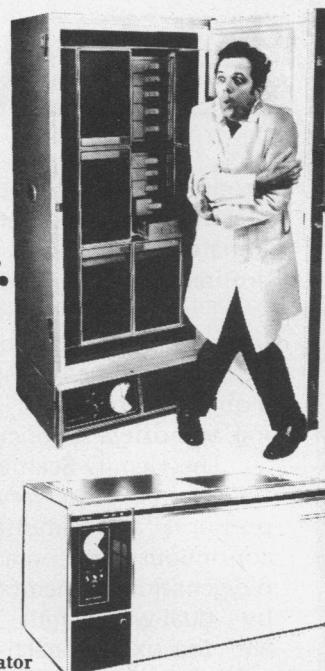
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Aquatic Scientist, M.Sc. 1976. Educational background in natural water chemistry with a special interest in rivers and estuaries. Subsequent work experience with environmental impact statements on riverine projects. Seek any position concerned with rivers or estuaries, especially where I can build on my interests in chemistry and human interactions with aquatic systems. Box 345, SCIENCE. X

Biochemist: Ph.D., seeks faculty/research/administrative position. See Jourdikian ad in the 12 August 1977 issue of SCIENCE. 9/16, 23, 30; 10/7

Cell/Molecular Biologist, Ph.D. 1970, postdoctoral 3 years, senior investigator at research institute for 4 years; looking for new, creative, challenging position in research/teaching/administration. Publications, supervisory experience, university teaching 3 years, fellowships. Interests: molecular/genetic mechanisms eukaryotic cell regulation and neoplastic growth. Broad experience in bacterial and tissue culture, enzymology, amino acid and nucleic acid biochemistry, genetics. Prefers West, South-west. Box 346, SCIENCE. X

Experienced person will **Edit/Rewrite Manuscripts** for non-English speaking scientists. Reasonable rates. References. M. S. Northcutt, Division of Biological Sciences, University of Michigan, Ann Arbor, Michigan 48109. X

Medical Psychologist, Psy.D. 1975. Three years of postdoctoral experience in pediatric psychoneuroendocrinology, behavioral cytogenetics, and behavioral sexology. Teaching experience and publications. Seeks clinical/research position in a teaching hospital and/or university setting. T. Mazur, Phipps 400, The Johns Hopkins University, Baltimore, Maryland 21205. X

Medical Virologist: Ph.D. experienced in diagnostic virology, state and medical center virus laboratories, medical school teaching, would like a position in diagnostic virology as a laboratory director, a teacher, and with an opportunity for research. Box 349, SCIENCE.

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Immediate opening for person with experience in **ANALYTICAL CHEMISTRY**. Research involves studying selective uptake of heavy metals by animal tissues. One-year appointment with probable extension. M.S. degree; \$10,000 salary approximate. Send résumé and names of references to: Dr. T. F. Hopkins, Chairman, Department of Natural Sciences, University of Maryland, Eastern Shore, Princess Anne, Md. 21853. An Equal Opportunity Employer.

ASSISTANT DIRECTOR

DEPARTMENT OF GRADUATE MEDICAL EDUCATION

Saint Barnabas Medical Center, a member of the Council of Teaching Hospitals of the Association of American Medical Colleges, seeks an Assistant Director for the Department of Graduate Medical Education. Applicants should have a Ph.D. degree with background in administration and education. Saint Barnabas Medical Center is located in a beautiful suburban community, 45 minutes from New York City. For further information, submit curriculum vitae to Abdul H. Islami, M.D.

Saint Barnabas Medical Center

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Saint Barnabas Medical Center is
An Equal Opportunity Employer

ASSISTANT PROFESSOR. If approved, two regular faculty positions will be filled beginning 1 January or 1 September 1978. Qualifications include completed Ph.D. and expertise in any two of the following areas: **Animal Histology, Electron Microscopy, Immunology, or Pathogenic Microbiology.** The positions involve the teaching of undergraduates and the development of an active research program. Applications should include a curriculum vitae, a graduate school transcript, a statement of research interests, and three letters of reference. Address correspondence to **Chair, Search Committee, Department of the Biological Sciences, Smith College, Northampton, Massachusetts 01063. An Affirmative Action/Equal Opportunity Employer.**

CELLULAR NEUROBIOLOGIST

The Department of Neurobiology is seeking a new faculty member at the assistant professor level. The department is especially, but not exclusively, interested in immunological, biochemical, and electron microscopical approaches, and in appointing women and minority people. Please send curriculum vitae, a brief outline of research plans, and the names of three references to:

Search Committee
Department of Neurobiology
Harvard Medical School
25 Shattuck Street
Boston, Mass. 02115

ENDOCRINE PHYSIOLOGIST

Postdoctoral position is available immediately in the laboratory of Dr. John McCracken. Work will entail hormonal studies in the area of the utero-ovarian-pituitary axis with special reference to prostaglandins and oxytocin. Experience with radio-immunoassays and experimental surgery required. Previous work with primates desirable but not essential. Please send curriculum vitae and three letters of recommendation to: **Personnel Office, WORCESTER FOUNDATION FOR EXPERIMENTAL BIOLOGY, 222 Maple Avenue, Shrewsbury, Mass. 01545.**

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**DEAN OF THE COLLEGE OF ARTS
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Applications and nominations are invited for the position of dean of the College of Arts and Sciences. We seek an individual who will provide vigorous and innovative leadership for the continued growth and development of the college. Applicants must be effective in dealing with enrollment increases, expansion of programs, and curriculum change. They must be able to relate the resources of the college to the needs of a metropolitan community and utilize the social and cultural resources of the community to meet the educational needs of the future. Applications must include information demonstrating the following qualifications:

- 1) An earned terminal degree or its equivalent in a discipline appropriate to a tenured professorial appointment in Arts and Sciences,
- 2) A record of substantive accomplishments in research or creative activity,
- 3) Teaching experience at the undergraduate and graduate level, and
- 4) Administrative experience in a comprehensive university.

Located in a city with an attractive cultural life, the University of Louisville is a state-supported institution with a current enrollment of over 16,000, of which 5,000 are in the College of Arts and Sciences.

Send nominations or applications, the latter with full curriculum vitae and the names of at least three professional references, to:

**Professor W. Wiley Williams
Search Committee Chairman
Department of Mathematics
University of Louisville
Louisville, Kentucky 40208**

Applications and nominations will be accepted through 30 November 1977.

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POSITIONS OPEN

**DEPARTMENT OF PSYCHOBIOLOGY
UNIVERSITY OF CALIFORNIA, IRVINE**

Position anticipated at level of **ASSISTANT PROFESSOR**. Preference will be given to area of synaptic transmission; particular interests might include regulation of catecholamine metabolism, small peptide neurotransmitters, and so forth. A multidisciplinary approach is preferred and candidates should have strong background in biochemistry, emphasizing this approach in research. Postdoctoral experience desired. Applicants should submit a curriculum vitae, references, publications, and a detailed statement of research plans for the next 3 to 5 years to **Chair, Department of Psychobiology, University of California, Irvine, California 92717**. *Applications from all qualified candidates are welcome; minorities and women are encouraged to apply.*

**ASSISTANT PROFESSOR OF BIOLOGY
HARVARD UNIVERSITY**

The Cellular and Developmental Biology Subdivision expects to make an appointment at the **assistant professor** level for the coming year in the field of **neurobiology**. Applicants should have the Ph.D. Preference will be given to candidates with teaching experience, records of research accomplishment, and postdoctoral training.

The University is an Equal Opportunity Employer; women and members of minority groups are specifically encouraged to apply. Please have three professional persons who are well acquainted with your work send letters of recommendation directly to us. Applications should include your résumé, copies of your most significant publications, and a summary of your research goals, and should be sent to:

**Chairman, Search Committee
Department of Biology
16 Divinity Avenue
Cambridge, Mass. 02138**

prior to 1 November 1977.

**BIOCHEMISTRY FACULTY POSITIONS
RICE UNIVERSITY**

Applications are invited for new faculty positions in the Department of Biochemistry of Rice University (full professor, associate professor, or assistant professor). Clear distinction in creative research and education essential. Preference will be shown to candidates in the area of molecular biochemistry of nucleic acids. However, applications are encouraged from outstanding candidates irrespective of field of interest.

Rice University is an Equal Opportunity/Affirmative Action Employer.

Send résumé and brief outline of future research plans to: **G. J. Schroepfer, Jr., Chairman, Department of Biochemistry, Rice University, Houston, Texas 77001.**

**TENURED FACULTY
POSITIONS IN BIOCHEMISTRY**

The Department of Biochemistry, Columbia University, College of Physicians & Surgeons, invites applications from qualified individuals for tenured faculty positions. The candidates must have a serious commitment to teaching and research in the application of biophysical methods for studying structure and function of macromolecules and organelles. Applications should include curriculum vitae, bibliography, four names of references, and reprints, and should be addressed to:

**Chairman, Department of Biochemistry
College of Physicians & Surgeons
630 West 168 Street
New York, N.Y. 10032**

Columbia University is an Equal Opportunity/Affirmative Action Employer.

COGNITIVE NEUROPHYSIOLOGY

The Brain Research Laboratories, Department of Psychiatry, New York University School of Medicine, seeks to fill a position at the postdoctoral or assistant professor level. Candidates must have experience with human EP's and EEG's, plus experience in one or more of the following areas: neurophysiology of learning, sensory neurophysiology, computer oriented data analysis, and statistical pattern recognition. Candidates will be expected to participate in studies relating to the computer oriented diagnosis of brain dysfunction, as well as basic research into neural mechanisms of memory, cognition, and sensory information processing. Salary proportionate to qualifications. Send résumé to: **E. R. John, Brain Research Laboratories, Department of Psychiatry, New York University Medical Center, 550 First Avenue, New York, New York 10016.**

POSITIONS OPEN

The Midland Macromolecular Institute (MMI) invites applications for a position at the level of **assistant professor** or **associate professor** depending upon experience and qualifications. Duties will involve research and teaching in **BIOPOLYMERS** (chemistry and/or physics). Required: Ph.D. with interest and experience in NMR. Applicants should submit a curriculum vitae, a list of publications, and names of three references to: **BIOPOLYMERS, Midland Macromolecular Institute, 1910 West St. Andrews Road, Midland, Michigan 48640** by 1 November 1977. *MMI is an Equal Opportunity/Affirmative Action Employer.*

CELLULAR PHYSIOLOGIST

The Department of Zoology, University of California, Davis, is seeking applicants for a position on its faculty. The person appointed will be expected to teach a one-quarter course in introductory physiology with associated laboratory course, and an advanced course in cell biology as well as a graduate seminar in his or her own field of specialization. It is expected that the individual will initiate and carry out a productive research program and will participate in the department's graduate program. The appointment level and salary will depend on qualifications and experience. Appointments are normally at the assistant professor level, minimum salary \$15,100 per annum.

Persons who wish to apply should forward a curriculum vitae, a description of their research programs and future plans, a summary of their teaching capabilities, and three letters of recommendation to: **Dr. Ronald J. Baskin, Chairperson, Department of Zoology, University of California, Davis, California 95616**. *The University of California is an Equal Opportunity/Affirmative Action Employer.* Screening of applicants will begin 14 November; closing date for receipt of applications is 30 December 1977.

**COORDINATOR
MARINE ADVISORY SERVICE**

The University of Maryland's Cooperative Extension Service seeks a coordinator for the Marine Advisory Service of Sea Grant Program. Program's emphasis is in commercial fishing, coastal zone management, aquaculture, marine recreation, and seafood processing. Specific responsibilities of coordinator include budgeting, staffing, program development, resource procurement, and liaison.

Candidate should be knowledgeable of principles and methods of Marine Advisory Service and philosophy of Cooperative Extension Service.

Ph.D. preferred, M.S. required in marine sciences or related field. Extension Service or Marine Advisory experience preferred. Skills in educational program development and administration. Effective communications skills.

Salary commensurate with experience and qualifications.

Application deadline: 1 October 1977. Send résumé and letter of application and arrange for three letters of reference to be sent to: **Dr. Allen L. Steinhauer, Chairman, Search Committee, Department of Entomology, University of Maryland, College Park, Md. 20742**. *Equal Opportunity/Affirmative Action Employer.*

**DEAN, DIVISION OF SCIENCES
WASHINGTON STATE UNIVERSITY**

Nominations and/or applications are sought for the position of **dean**, Division of Sciences at Washington State University. Those interested in applying, making nominations, or seeking additional information should contact: **Professor Calvin T. Long, Chairman, Dean Search Committee, Department of Mathematics, Washington State University, Pullman, Wash. 99164** by 1 November 1977. *Washington State University is an Affirmative Action/Equal Opportunity Employer.*

DIRECTOR OF RESEARCH

Linfield Research Institute, located at Linfield College, McMinnville, Oregon, seeks a director of research. He or she should hold a Ph.D. in the natural sciences or engineering. This person should have a strong professional reputation, a good personality, and possess ability to succeed financially by the application of science, supported by the facilities of Linfield Research Institute. The Institute seeks a research person who understands the free enterprise system and wants the opportunity to be reasonably independent of external constraints.

Those interested in learning more about this leadership opportunity should request information from: **Joan Schindelar, President's Office, Linfield College, McMinnville, Oregon 97128.**

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POSITIONS OPEN

The University of Alabama Schools of Medicine and Dentistry in Birmingham are soliciting candidates for the position of **CHAIRPERSON**, Department of Pharmacology. The successful candidate should possess a terminal degree and a firm commitment to academic excellence. This position provides an opportunity to organize and develop a department which is responsive to the teaching and research needs of medical, dental, and allied health students in a growing health science center. Emphasis will be placed on the development of a strong graduate program which will augment and interact with established programs in cancer, cardiovascular, and dental research. Applications should be accompanied by a curriculum vitae, including a bibliography and other relevant material, and should be submitted to the chairman of the search committee:

Dr. Edward J. Miller
Department of Biochemistry
University of Alabama in Birmingham
University Station
Birmingham, Alabama 35294

University of Alabama in Birmingham is an Equal Opportunity/Affirmative Action Employer.

DIRECTOR OF IMMUNOLOGY

West Virginia University is seeking an **immunologist** to direct the Immunology Section within the Department of Pathology. This section will include the Histocompatibility Testing Laboratory as part of the Transplant Center, presently being established at West Virginia University. An acceptable candidate should meet the requirements of the Department of Health, Education, and Welfare as defined for the director or supervisor of a Histocompatibility Testing Laboratory supporting a transplant center. The director or supervisor should be a physician or hold an earned doctoral degree in a biological science. Subsequent to graduation, the director should have had 4 years' experience in immunology, 2 years of which have been in histocompatibility testing. Those interested should send curriculum vitae to: **Nathaniel F. Rodman, M.D., Department of Pathology, West Virginia University Medical Center, Morgantown, West Virginia 26506**, not later than 15 October 1977. *West Virginia University is an Equal Opportunity/Affirmative Action Employer.*

DIRECTOR INSTITUTE OF POLYMER SCIENCE

The University of Akron seeks a **director** to provide administrative and academic leadership for its extensive interdisciplinary program in polymer science. The faculty for the program is drawn from the departments of Chemistry, Physics, Polymer Science, and Mechanical Engineering.

An established record of achievements as an administrator and as a scientist, coupled with a broad understanding of polymer science, are the primary qualifications. A doctoral degree is required. Experience in dealing with federal, state, and industrial funding sources is desirable.

The preferred starting date for this position will be 1 September 1978. Letters of application, including current résumés, should be submitted prior to 1 December 1977 to:

Professor C. W. Wilson III
Chairman of the Search Committee
201 Ayer Hall
The University of Akron
Akron, Ohio 44304

An Equal Opportunity/Affirmative Action Employer

FACULTY POSITION IN PHYSIOLOGY for highly qualified applicants with postdoctoral experience. Research interests in neurobiology, neuroendocrinology, membrane biology, or muscle physiology preferred. Send curriculum vitae, statement of future research plans, and names and addresses of three references to: **George D. Cain, Department of Zoology, University of Iowa, Iowa City, Iowa 52242**.

An Equal Opportunity Employer

The Department of Pharmacology, Louisiana State University Medical Center, invites applications for **FACULTY POSITIONS** in teaching and research (Ph.D. and/or M.D.). Teaching duties include courses to medical, dental, nursing, and graduate students. An active research program is expected. Salary and position commensurate with training and experience. Send résumé, including names of three references, to: **Dr. Thomas Hernandez, Department of Pharmacology, Louisiana State University Medical Center, 1542 Tulane Avenue, New Orleans, La. 70112**. *The University is an Equal Opportunity/Affirmative Action Employer. Women and minorities are encouraged to apply.*

POSITIONS OPEN

ODENSE UNIVERSITY DENMARK INSTITUTE OF BIOCHEMISTRY

Subject to the necessary appropriation, a position as **ASSISTANT OR ASSOCIATE PROFESSOR** is available for a **BIOCHEMIST** from 1 November 1977 until 31 July 1979. Prolongation may be possible. Preference will be given to applicants with research interests in lipid metabolism, especially fatty acid- and triglyceride syntheses. The laboratory is well equipped for research in lipid biochemistry.

The successful candidate should be able to teach elementary biochemistry as well as advanced courses in biochemical topics for science students.

The application should be supplied with information about teaching experience given on a special form. This form is available on request from the university administration.

The full report from the selection committee will be forwarded to all applicants.

Applications with curriculum vitae, list of publications, and so forth must be received in three copies (reprints in one copy) by **Administratoren, Odense Universitet, Campusvej 55, 5230 Odense M, Denmark**, not later than 30 September 1977.

The Department of Fisheries & Wildlife, Michigan State University, is seeking an **ENVIRONMENTAL CONSERVATIONIST** to fill a permanent teaching position at the assistant professor level. Responsibilities will include teaching two undergraduate courses in Environmental Conservation and one undergraduate course in Field Natural History, and participation in an advising program for a large undergraduate and graduate enrollment. Applicants must hold a Ph.D. with strong emphasis on biology, ecology, or environmental science. Letter of interest, with a complete résumé and three letters of reference, should be submitted to: **Dr. R. W. George, Department of Fisheries & Wildlife, Michigan State University, East Lansing, Mich. 48824**, by 1 November 1977. *Michigan State University is an Affirmative Action/Equal Opportunity Employer.*

IMPERIAL MEDICAL CENTER OF IRAN

BASIC SCIENCE FACULTY in biology, chemistry and physics; master's degree and/or Ph.D. Also faculty for baccalaureate programs in medical technology, blood banking, and radiologic technology. New health science program, Imperial Medical Center of Iran, Tehran, for School of Allied Health Science and School of Nursing. Openings in early fall. Excellent salary, fringe benefits, travel expenses, overseas allowance, and housing allowance. Send résumés to: **Dean S. S. Katz, Project Coordinator, Quinnipiac College, Mount Carmel Avenue, Hamden, Connecticut 06518**.

GEOCHEMISTRY POSITION UNIVERSITY OF MASSACHUSETTS, AMHERST

The Department of Geology and Geography has a vacancy in **low-temperature geochemistry** beginning 1 September 1978. We prefer a person whose interests involve the geochemistry of sedimentary rocks, sediments, or sediment/water interaction. The department has an ETEC Automated Electron Microprobe, a Siemens Automated X-ray Emission Analyzer (XRF), an Atomic Absorption Spectrophotometer, a CHN Analyzer, a variety of X-ray equipment, and a 735 square-foot laboratory equipped for faculty/student research in aqueous geochemistry. Teaching duties would include a course in introductory geochemistry, plus other courses depending on the interests of the successful candidate. We expect the position to be filled at the assistant professor level, but more senior applicants will be considered. Applicants should send a curriculum vitae and the names of at least three referees to: **George E. McGill, Acting Head, Department of Geology and Geography, University of Massachusetts, Amherst, Mass. 01003**. *The University of Massachusetts is an Affirmative Action/Equal Opportunity Employer.*

POSTDOCTORAL POSITION

Research on the metabolic activation and covalent binding of chemicals in relation to their toxicity. Ph.D. in biochemistry; experience with drug metabolism, proteins, radioisotopes, and toxicology. Send curriculum vitae and the names of three references by 1 October 1977 to: **Dr. Donald R. Buhler, Department of Agricultural Chemistry and Environmental Health Sciences Center, Oregon State University, Corvallis, Ore. 97331**. *An Affirmative Action Employer.*

UNIVERSITY OF ILLINOIS SCHOOL OF CLINICAL MEDICINE URBANA-CHAMPAIGN

Position Open

Assistant Professor in Medical Information Science—Automated Education. Responsible for instructional design and consultation on media-associated instruction, primarily delivered by, but not limited to, the PLATO CBI system.

Qualifications: Ph.D. preferably in Educational Psychology with expertise in instructional design. Four years experience on PLATO or similar system involving programming, courseware development and evaluation. Training in development of mediated instructional material highly desirable.

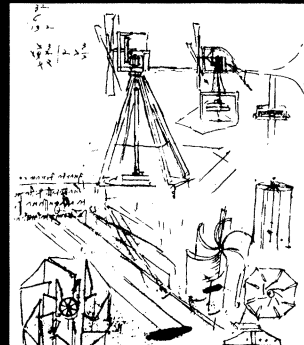
Appointment: Permanent full-time appointment. Salary \$18,000–\$22,000.

In order to receive full consideration, curriculum vitae should be submitted by October 10, 1977, to:

Thomas T. Chen, Ph.D.
Chairperson-Search Committee for MIS
University of Illinois
School of Clinical Medicine
Medical Sciences Building
Urbana, IL 61801 (217/333-0987)

The University of Illinois is an **AFFIRMATIVE ACTION—EQUAL OPPORTUNITY EMPLOYER** and encourages applications from minorities and women.

Attention Inventors



The National Bureau of Standards (NBS) announces its Energy-Related Inventions Evaluation Program. The program is funded by and operated as a service to the Energy Research and Development Administration (ERDA).

The purpose of the program is to evaluate innovative energy-related concepts or products for possible support by ERDA. Particular attention is given to submissions from individual inventors and small firms. If the invention is recommended by NBS as having significant promise for either saving or producing energy, ERDA will consider providing the inventor or company with assistance to help test, develop or market the invention.

Find out more about this valuable free service by writing:

Office of Energy-Related Inventions
National Bureau of Standards
Washington, D.C. 20234

POSITIONS OPEN

GENETICIST

Rice University has an opening at the **assistant professor** level for a eukaryotic geneticist whose research is at the molecular or cellular level. Candidates should be prepared to establish vigorous research and graduate programs, and to teach undergraduate courses in the general area of genetics. Please send curriculum vitae, a brief description of your research program, and names of four references to:

Charles Stewart
Department of Biology
Rice University
Houston, Texas 77001

Rice University is an Equal Opportunity/Affirmative Action Employer.

GENETICIST. Applications are invited for a faculty position in the areas of eukaryotic cellular genetics and genome organization. The appointment will be at the **assistant professor** level effective 1 July 1978. Applicants must have demonstrated excellence in research and teaching and the potential to develop an independent research program which would complement strong, ongoing programs in cellular and developmental biology. Research specialties should involve the use of genetic techniques in the investigation of cellular phenomena. Teaching responsibilities involve participation in sophomore-level cell biology and/or genetics courses, plus a senior/graduate course in the appointee's specialty. Applications with curriculum vitae, list of publications, names of references, and a summary of research interest should be sent before 1 November to: **Dr. Barry I. Kiefer, Chairman, Search Committee, Department of Biology, Wesleyan University, Middletown, Conn. 06457.** *Wesleyan University is an Equal Opportunity/Affirmative Action Employer and encourages applications from minority groups and women.*

STATE UNIVERSITY OF NEW YORK AT ALBANY

GEOPHYSICIST—SOLID-EARTH

The Department of Geological Sciences invites applications for a position as assistant or associate professor in the field of solid-earth geophysics effective in fall 1978. We seek candidates with broad research interests and a strong background in geology as well as geophysics. Applicants should send a full curriculum vitae, including names of four references, to: **Dr. Kevin Burke, Department of Geological Sciences, State University of New York at Albany, 1400 Washington Avenue, Albany, N.Y. 12222.** *State University of New York is an Equal Opportunity/Affirmative Action Employer.*

HISTOCOMPATIBILITY LABORATORY SUPERVISOR

Supervisor-technician for histocompatibility testing laboratory experienced in HLA typing, MLR, and cytotoxicity assays. Administrative experience preferred but not necessary. Salary negotiable. Transplantation program associated with a major medical center and university, Gulf Coast region. Send résumé to: **Box 347, SCIENCE.** *An Equal Opportunity Employer.*

MICROPROBE ELECTRONICS ENGINEER UNIVERSITY OF MASSACHUSETTS

Applications are invited from suitably qualified personnel for the position of research and electronics engineer in the Department of Geology and Geography. Major responsibilities will be maintenance and development of systems related to an automated electron microprobe and an automated x-ray fluorescence instrument, with subsidiary electronic and computer development in the x-ray, high-temperature, and magnetic laboratories. The position offers opportunity for independent research in the field of instrumental analysis. Essential qualifications are a well-versed background in electronics and in computer programming. Salary is open. The closing date for applications is 1 October 1977, and the starting date in October or November 1977. Graduates with a master's degree in physics, electrical engineering, or computer science are preferred, but unusually strong candidates with a B.S. or candidates with equivalent industrial experience are welcome to apply. Candidates should send their application and curriculum vitae and request that three letters of recommendation be sent to: **Head, Department of Geology/Geography, University of Massachusetts, Amherst, Mass. 01003.** *An Affirmative Action/Equal Opportunity Employer.*

POSITIONS OPEN

MEDICAL GENETICIST

Applications are invited from established investigators for a senior-level faculty position as a medical geneticist. Specialty training in internal medicine or pediatrics in addition to extensive teaching and research experience in clinical genetics are required. Send curriculum vitae and the names of three references to:

Chairman, Department of Medical Genetics
Indiana University School of Medicine
1100 West Michigan Street
Indianapolis, Indiana 46202

Indiana University is an Affirmative Action/Equal Opportunity Employer.

LABORATORY TECHNICIAN

Position available for person experienced in cardiovascular physiology lab to assist in study of central nervous system trauma and stroke. Requires M.S. degree or B.S. degree in biology or chemistry and 1 or 2 years equivalent experience. We offer excellent salary and benefits. If interested, please submit résumé to: **Maxine M. Powell, University of Maryland at Baltimore, Baltimore, Maryland 21201.**

HUMAN IMMUNOGENETICIST

Faculty position available immediately for an individual with a Ph.D. or M.D. and a strong background in genetics and mixed leukocyte culture typing techniques. Rank and salary will be determined by qualifications. Please send curriculum vitae, names of three references, and a brief synopsis of future research plans to: **Dr. Ronald T. Acton, Diabetes Research and Training Center, University of Alabama in Birmingham, University Station, Birmingham, Alabama 35294.** *An Equal Opportunity/Affirmative Action Employer.*

POSTDOCTORAL POSITIONS

Individuals sought with recent M.D., Ph.D., or D.V.M. in biochemistry, molecular biology, microbiology, immunology, virology, pathology, or the neurosciences for training in the pathology of membranes and organelles. Positions available immediately; stipends of \$10,000 to \$13,200 depending upon prior experience. Send curriculum vitae and three letters of recommendation to: **Dr. Ronald T. Acton, Department of Microbiology, University of Alabama in Birmingham, University Station, Birmingham, Alabama 35294.** *An Equal Opportunity/Affirmative Action Employer.*

POSTDOCTORAL POSITIONS

Individuals sought with recent M.D., Ph.D., or D.V.M. in biochemistry, molecular biology, microbiology, immunology, virology, or pathology for multidisciplinary training in tumor biology. Positions available immediately; stipends of \$10,000 to \$13,200 depending upon prior experience. Send curriculum vitae and three letters of recommendation to: **Dr. Ronald T. Acton, Department of Microbiology, University of Alabama in Birmingham, University Station, Birmingham, Alabama 35294.** *An Equal Opportunity/Affirmative Action Employer.*

RESEARCH ASSOCIATE POSITION

A position is available immediately for a recent M.S. or Ph.D. with training and/or experience in protein purification and sequencing methodology for research on the structure of plasma membrane components. Send curriculum vitae and names of three references to: **Dr. Ronald T. Acton, Diabetes Research and Training Center, University of Alabama in Birmingham, University Station, Birmingham, Alabama 35294.** *An Equal Opportunity/Affirmative Action Employer.*

SENIOR STATISTICIAN for Water Resources Center, Las Vegas, to conduct research in random and noisy point and spatial data functions; techniques of variance, covariance, cluster, discriminant, and trend surface analysis; theory of generalized increments; and sampling theory and analysis. Requires Ph.D. in statistics or applied statistics; 6 years of progressively responsible experience in applied statistics and data systems analysis including computer graphical display in physical and/or life sciences; previous project management experience. Minimum starting salary: \$20,000. Send application postmarked before midnight 31 October 1977 to: **Twyla Harrison, Desert Research Institute, University of Nevada System, P.O. Box 60220, Reno, Nevada 89506.** *An Affirmative Action/Equal Opportunity Employer.*

POSITIONS OPEN

INSECT TOXICOLOGIST and EXTENSION ENTOMOLOGIST; two positions; both assistant professorships. For details telephone: 515-294-7400, or write: **Department of Entomology, Iowa State University, Ames, Iowa 50011.** *An Affirmative Action/Equal Opportunity Employer.* Application deadline: 1 October 1977.

IMMUNOLOGIST

Applications are invited from candidates with research interest in periodontal disease immunology. Applicants with D.D.S. or Ph.D. degrees preferred but suitable candidates with research experience will be considered. Duties include participating in a multidisciplinary effort at a periodontal disease research center. Potential for developing and carrying on an independent research program is also a requirement. Research assistance available. Level of position and salary contingent on experience. Send curriculum vitae to:

Martin A. Taubman, D.D.S., Ph.D.
Head, Department of Immunology
Forsyth Dental Center
140 Fenway
Boston, Mass. 02115

PHARMACOLOGY DEPARTMENT seeks **NEUROANATOMIST** interested in biochemical and behavioral pharmacology. Applicant must have capabilities in several kinds of advanced methodology (including histofluorescence, immunohistochemistry, horseradish peroxidase, autoradiography, microdissection) and be willing to establish collaborative relationships with other faculty members as well as an independent research program. Position (faculty rank) and salary are negotiable. Applicant should submit curriculum vitae and three letters of reference to: **Dr. Stanley D. Glick, Department of Pharmacology, Mount Sinai School of Medicine of the City University of New York, Fifth Ave. and 100 Street, New York, N.Y. 10029.** *An Equal Opportunity Employer.*

NEUROSCIENTIST: Staff position available after January 1978 with Neurosciences Research Program for full-time work on conceptual problems at various levels of brain research: molecular, cellular, neural, and behavioral. Must be capable of evaluating scientific literature, formulating ideas lucidly, and developing creative interpretations of, and theoretical contributions to, neurobiological issues, working in collaboration with other scientists selected for expertise in given research areas or topics. Four or more years postdoctoral; salary commensurate with training and experience. Appointments renewable annually. For information contact: **Professor Irwin W. Sizer, 165 Allandale Street, Jamaica Plain, Mass. 02130.** *An Equal Opportunity Employer.*

Interviews this fall for **THREE OPENINGS** in spring 1978. Graduate study areas required are: physical-engineering-computer; mathematical-statistical-computer; and, social-political-economic sciences. Send résumé to: **P.O. Box 823, Rockville, Maryland 20851,** by 1 October 1977.

VETERINARY PHARMACOLOGIST/TOXICOLOGIST

A junior faculty position is available effective 1 July 1978, in the Laboratories of Pharmacology, Department of Animal Biology, School of Veterinary Medicine, University of Pennsylvania. This position involves teaching basic pharmacology and toxicology to veterinary and graduate students. Applicants should have a strong background and interest in both clinical pharmacology and toxicology, and be willing to assume responsibilities involving curriculum development in these areas. Preference will be given to candidates with a veterinary degree (D.V.M., V.M.D., or equivalent) and teaching experience in pharmacology and toxicology. The person selected will be expected to develop an active, independent research program. Please submit a curriculum vitae, bibliography, and the names of three references to: **Dr. Carl E. Aronson, Laboratories of Pharmacology, University of Pennsylvania School of Veterinary Medicine, 3800 Spruce Street, Philadelphia, Pa. 19104.** *Equal Opportunity/Affirmative Action Employer.*

POSITIONS OPEN

NEUROIMMUNOLOGIST. M.D. or Ph.D. Three or 4 years postgraduate experience; rank of assistant professor. Respond to: **Dr. Robert Katzman, Chairman of Neurology, Albert Einstein College of Medicine, 1300 Morris Park Avenue, Bronx, N.Y. 10461. Affirmative Action/Equal Opportunity Employer.**

PATHOLOGIST/ANATOMIST/CELL BIOLOGIST DEPARTMENT OF PATHOLOGY UNIVERSITY OF ARKANSAS COLLEGE OF MEDICINE

Ph.D. required. There is one position open to serve as director/coordinator of the tissue processing facilities of the department. This includes electron microscopy, the bone laboratory, routine histology, and special techniques (histochemistry, special stains, and so forth). The successful candidate should have an interest in developing his own ongoing research project, though collaboration with other members of the department is not excluded. Must have the ability to supervise the technology involved and collaborate with the other investigators in the department. Teaching of graduate-level courses will be required. Salary and rank commensurate with experience and training.

Send curriculum vitae and at least three references to:

**Sanford I. Roth, M.D.
Chairman, Department of Pathology
University of Arkansas for Medical Sciences Campus
4301 West Markham Street
Little Rock, Arkansas 72201
An Equal Opportunity Employer**

PHYSIOLOGIST

The University of California, Irvine, College of Medicine, Department of Physiology is seeking an assistant or associate professor.

Candidates should be broadly trained in physiology with research interest and training (including post-doctoral) in the molecular basis of muscular contractions. Candidates should hold a doctorate degree (M.D. or Ph.D.) and have shown excellence and originality expected of a potential leader in research. Duties include teaching physiology to medical students and biophysics and physiology to graduate students.

Applications from qualified candidates are welcome; minorities and women are encouraged to apply. Send names of four references and curriculum vitae to: **Dr. Peter F. Hall, Professor and Chairman, Department of Physiology, University of California, Irvine, California 92717** by 15 October 1977.

PHYSICAL STRATIGRAPHY and sedimentation position available at The University of Michigan beginning September 1978. Level and salary negotiable. Proven research ability and a strong interest in teaching at both the graduate and undergraduate levels required. Well-equipped laboratories, including computing and analytical facilities (SEM and microprobe) and a large collection of cores and cuttings from the Michigan Basin available. Send curriculum vitae, names of three individuals from whom we can request letters of recommendation, and a statement of research interests to: **Dr. D. F. Eschman, Acting Chairman, Department of Geology-Mineralogy, 1006 C. C. Little Building, Ann Arbor, Mich. 48109. A nondiscriminatory, Affirmative Action Employer.**

POSTDOCTORAL POSITION- MEMBRANE STRUCTURE

Position available immediately for a person with a doctoral degree in cell biology, preferably with experience in freeze fracture electron microscopy. Research will involve studies of native and reconstituted cell membranes including the molecular basis for membrane fusion. Send curriculum vitae and inquiries to: **Dr. Jere P. Segrest, Department of Pathology, Box 189, University of Alabama in Birmingham, Birmingham, Alabama 35294.**

POSTDOCTORAL POSITION available immediately to study the **MECHANISM OF THIAMIN PYROPHOSPHATE REQUIRING ENZYMES.** Applicants should be trained in enzymology and/or nuclear magnetic resonance of macromolecules. Please submit a résumé and three references to: **Dr. Frank Jordan, Department of Chemistry, Rutgers University, Newark, New Jersey 07102.**

An Equal Opportunity/Affirmative Action Employer.

Technical Director

Public Law, PL-313
\$47,500

Responsible for line management, coordination, and direction of the Office of Naval Research's research and technology directorates and assisting the Chief of Naval Research in the management and technical control of ONR Laboratories and Branch Offices.

Requires PhD or equivalent in life, engineering physical and environmental sciences. Managerial experience in a multidisciplinary research and development environment; leadership capability and ability to interact.

Send resume or SF-171 by 22 September 1977 to:

Office of Naval Research (7212)
800 North Quincy Street
Arlington, VA 22217
ATTN: M. Talbot No. 77-51

Equal Opportunity Employer

JOIN WARNER- LAMBERT/PARKE- DAVIS

as a BIOCHEMICAL PHARMACOLOGIST

An excellent opportunity has developed for Ph.D. in Pharmacology/Biochemistry with 1-2 years post-doctoral or equivalent experience to study the biochemical-pharmacological aspects of the cardiovascular/autonomic area. Experience in the cyclic AMP system and receptor binding concepts related to this field is highly desirable.

The successful candidate will explore and implement at a molecular level new approaches which will support the discovery of potential cardiovascular and gastrointestinal drug candidates.

Please send curriculum vitae including salary history to:

Personnel Supervisor
2800 Plymouth Rd.
Ann Arbor, Mi. 48106

An Equal Opportunity Employer M/F.

Pharmaceutical RESEARCH

TOP MANAGEMENT

Vice Presidents and Directors of Scientific Affairs, Research, Medical.

CLINICAL RESEARCH

Physicians, Monitors, Clinical Pharmacologists, CRA's.

DRUG SAFETY

Toxicologists, Veterinary Pathologists, Teratologists, Mutagenicists.

PHARMACOLOGY

CNS, GI, CV, Renal, Biochemical, Clinical, Pharmacokinetics, Drug Metabolism.

PHYSICIANS

Clinical Research, Lab. Research, Medical Services, DRA, International.

VETERINARIANS

Pathology, Toxicology, Laboratory Animal Medicine, Technical Services.

DATA/INFO. MGMT.

Statistics, Scientific Data Processing, Drug Regulatory Affairs, Clinical Data Coordination, Information Science, Research Planning.

To investigate career opportunities in these areas, send Resume/CV to **CLINICAL RECRUITING ASSOCIATES, Box 295, Tappan, NY 10983**, or call Bob Wilkinson at 914-359-8835.

POSITIONS OPEN

POSTDOCTORAL FELLOW (1977-78)

Utah State University has a postdoctoral research position in physics, physical chemistry, or engineering. This work includes the measurement of infrared spectra in an absorbing-scattering medium. An understanding of radiation transport and infrared measurement techniques would be valuable. This is a joint effort with The Aerospace Corporation, and the major portion of the 12-month appointment will be spent in the Los Angeles area.

Contact: **R. D. Harris, Utah State University, Logan, Utah 84321** or **R. J. McNeal, Chemistry-Physics Laboratory, Aerospace Corporation, P.O. Box 92957, Los Angeles, California 90009. Utah State University is an Affirmative Action/Equal Opportunity Employer.**

POSTDOCTORAL POSITIONS

Applicants requested for positions available at Washington State University, starting immediately. Positions are supported by an NIH training grant in immunology. Applicants must have a D.V.M., M.D., or Ph.D. degree. Positions are available for individuals with backgrounds in veterinary pathology, immunology, virology, bacteriology, and biochemistry to work on immunologic problems. Applicants send curriculum vitae to: **W. C. Davis, Department of Veterinary Microbiology and Pathology, Washington State University, Pullman, Washington 99164. Washington State University is an Affirmative Action/Equal Opportunity Employer.**

POSTDOCTORAL POSITION available immediately to study the mechanism of action of gonadotropin-releasing hormone and its analogs. Some experience with electron microscopy is desirable but not mandatory. Starting salary is \$12,000 per annum. Submit curriculum vitae, reprints of publications, and three letters of reference to: **Dr. T. M. Nett, Department of Physiology and Biophysics, Colorado State University, Fort Collins, Colorado 80523. Colorado State University is an Equal Opportunity Employer and complies with Title IX requirements. Complaints should be filed with the Office of Equal Opportunity, Student Services Building. Application deadline is 10 October 1977.**

POSTDOCTORAL POSITION is available for a recent recipient of Ph.D.-M.D. degree to study the mechanisms of cellular proliferation of mammalian cells and tissues. Project involves isolations and characterizations of cellular growth promoting factors. Background in biochemistry immunology and cell biology required. Send curriculum vitae and brief summary of research experience including two references to: **Dr. Michael Klagsbrun, Department of Surgical Research, Ender's Pediatric Research Building, 300 Longwood Avenue, Boston, Mass. 02115. An Affirmative Action/Equal Opportunity Employer.**

POSTDOCTORAL POSITION available immediately to conduct mechanism of action studies on a new class of antiviral drugs active against herpesviruses. Experience in mammalian cell culture, virology, and biochemical techniques required. Knowledge of molecular biology and biochemistry essential. Salary is negotiable. Send résumé and names and addresses of two references to: **Dr. John C. Drach, Dental Research Institute, The University of Michigan, Ann Arbor, Mich. 48109. The University of Michigan is a nondiscriminatory, Affirmative Action Employer.**

POSTDOCTORAL RESEARCH IN SOCIAL PSYCHOLOGY. Two positions may be available in large social psychology program with emphasis on basic and applied research on attitudes and motivation, altruism and helping, environmental and ecological, nonverbal communications and influence, satisfaction, sexual and gender identity, life stress, jury behavior, evaluation and organizational. Applications accepted from Ph.D.'s, in all areas of psychology and other related disciplines, who wish to receive advanced research training in social psychology. Application deadline is 15 November; starting date is 1 January; starting stipend is \$10,000. Send for brochure and application form to: **Dr. Michael D. Storms, Graduate Program in Social Psychology, University of Kansas, Lawrence, Kan. 66045. An Equal Opportunity/Affirmative Action program.**

POSTDOCTORAL RESEARCH ASSOCIATES

Two positions available September 1977 for work on: (i) replication and expression of simian virus 40 DNA, and (ii) interaction between oncogenic virus and host cell genomes. Recent Ph.D.'s in molecular biology or biochemistry preferred. Apply with curriculum vitae and three letters of recommendation to: **Dr. K. N. Subramanian, Department of Microbiology, University of Illinois Medical Center, P.O. Box 6998, Chicago, Ill. 60680.**

POSITIONS OPEN

POSTDOCTORAL POSITION. Investigate platelet function in renal metabolism and cardiovascular disease. Possible extension of aggregation studies into prostaglandin biochemistry and properties of platelet membranes. Replies to:

**Dr. James Bemis
Manhattan Kidney Center
40 East 30 Street
New York, N.Y. 10016**

POSTDOCTORAL RESEARCH ASSOCIATE positions available in research group investigating metabolism and morphologic effects of carcinogens and chemicals of environmental significance. Positions for: (i) person with experience in cell culture techniques and, (ii) biochemist with experience in the isolation and identification of metabolites using GLC and Mass, IR, NMR, and UV spectroscopy are available. Send curriculum vitae to: **D. H. Norback, M.D., Ph.D., Department of Pathology, University of Wisconsin, Madison, Wis. 53706. An Affirmative Action/Equal Opportunity Employer.**

POSTDOCTORAL RESEARCH ASSOCIATE IN DEVELOPMENTAL NEUROBIOLOGY: position available immediately for Ph.D. to join ongoing research program concerned with characterization of proteins associated with plasma membranes of differentiating neurons and non-neuronal cells maintained in dispersed cell culture. Experience in some aspect of membrane biochemistry or immunocytochemistry highly desirable. Starting salary is about \$11,000 per year. Submit curriculum vitae, a brief résumé of your research experience, and names of three referees to: **Dr. Robert S. Lasher, Department of Anatomy, B111, University of Colorado Medical School, 4200 East Ninth Avenue, Denver, Colorado 80262. Affirmative Action/Equal Opportunity Employer. Minority and women candidates are encouraged to apply.**

POSTDOCTORAL RESEARCH POSITION available for Ph.D. with strong background in microbiology and cellular immunology to study the nature of allergy and cellular responses to chronic mycobacterial infections in mice. Send curriculum vitae and references to: **Dr. Frank Collins, Trudeau Institute, Inc., P.O. Box 59, Saranac Lake, N.Y. 12983. Equal Opportunity Employer.**

PSYCHIATRIST—Full-time faculty position as director of in-patient teaching service in university hospital. Competitive salary, fringe benefits, and practice plan. Key role in medical student and residency training programs as well as clinical programs and interface with general hospital staff. Appropriate background and credentials required. Apply to: **Paul J. Fink, M.D., Professor and Chairman, Department of Psychiatry and Human Behavior, Jefferson Medical College, 1025 Walnut Street, Philadelphia, Pa. 19107, or telephone: 215-829-6912 or 6913. Affirmative Action/Equal Opportunity Employer.**

In the 1978-79 academic year, the **DEPARTMENT OF PSYCHOLOGY** at Indiana University, Bloomington, anticipates having three or four tenure-track openings at the level of assistant professor for new or recent Ph.D.'s. One position is in clinical psychology. Preferences for the other positions are in the developmental, social, and physiological (or psychobiology) areas of experimental psychology. However, outstanding candidates in other areas of experimental psychology will be considered. Candidates with interests that bridge two or more areas, or who have expertise and interest in teaching graduate-level courses in statistics, will receive special attention. Appointees are expected to carry out a systematic program of research, to teach at both the undergraduate and graduate levels, and to supervise student research. Applicants are requested to indicate prominently in their letters of application in which area(s) they consider themselves especially qualified. *Minority and women candidates are strongly encouraged to apply for these positions.* Please send a curriculum vitae and have three or more letters of reference sent by 15 December 1977 to: **Dr. Irving J. Saltzman, Chairman, Department of Psychology, Indiana University, Bloomington, Ind. 47401.**

An Affirmative Action/Equal Opportunity Employer

RESEARCH ASSOCIATE with postdoctoral experience in endocrinology and metabolism. Opportunity to interact with multidisciplinary staff. Joint appointments at Massachusetts General Hospital, Harvard Medical School, and Shriners Burns Institution. Send curriculum vitae and representative reprints to: **H. Y. Bode, M.D., 51 Blossom Street., Boston, Mass. 02114.**

POSITIONS OPEN

POSTDOCTORAL TRAINING OPPORTUNITIES at the University of Alabama in Birmingham in molecular and cellular aging (Dr. R. Hiramato, Director) and in cariology (Dr. T. Shiota, Director). Postdoctoral research fellowships (\$10,000 and up) are available from 1 July 1977, under preceptors from the faculty of medicine, dentistry, and basic sciences. Individuals interested should send their curriculum vitae with three references to the appropriate director, c/o **Department of Microbiology, University of Alabama in Birmingham, Birmingham, Alabama 35294.**

POSITION AVAILABLE—RESEARCH ASSOCIATE

Department of Biochemistry
College of Physicians & Surgeons
Columbia University

To begin approximately 1 December 1977.

Qualifications include a minimum of 2 years of postdoctoral research experience in the field of protein biochemistry with particular experience in the characterization and purification of thyroid and steroid receptors.

POSITION AVAILABLE—RESEARCH ASSOCIATE

Department of Biochemistry
College of Physicians & Surgeons
Columbia University

To begin approximately 1 December 1977.

Qualifications include a minimum of 2 years of postdoctoral research experience in the molecular biology of thyroid and steroid hormone action.

Researchers will also have responsibility for supervising postdoctoral fellows.

Send curriculum vitae, bibliography, and names of three references to: **Dr. Isidore S. Edelman, Department of Biochemistry, College of Physicians & Surgeons, 630 West 168 Street, New York, N.Y. 10032. Columbia University is an Equal Opportunity/Affirmative Action Employer.**

RESEARCH ASSOCIATES

Research associate positions available immediately for Ph.D.'s to work on cellular effects of methaqualone abuse and related areas. Strong background in medicinal chemistry/biochemical pharmacology or psychopharmacology preferred. Salary competitive and commensurate with experience. Present appointment up to 30 May 1978, with possibility of further extension. Send résumé and two letters of reference to: **Professor S. S. Parmar, Department of Physiology and Pharmacology, University of North Dakota School of Medicine, Grand Forks, N.D. 58202. Applications must be received no later than 30 September 1977.**

University of North Dakota at Grand Forks is an Equal Opportunity/Affirmative Action Employer.

RESEARCH ASSOCIATE position available fall or winter 1977. Recent Ph.D. in biochemistry with interest in cellular and molecular biology to work with group studying biochemical events associated with uterine implantation. Salary up to \$13,000. Send curriculum vitae and names of three references by 30 September 1977, to: **Dr. B. Baggett, Chairman, Department of Biochemistry, Medical University of South Carolina, 171 Ashley Avenue, Charleston, S.C. 29403. The Medical University of South Carolina is an Affirmative Action/Equal Opportunity Employer.**

RESEARCH SCIENTIST position (immediate) for Ph.D. with background in visual science and specific experience in VER or single cell recording. Experimental program also involves ERG, ocular exposures, data acquisition and analysis to detect visual functional changes, utilizing laser radiation insult to the eye. Send résumés and references to:

**Technology Incorporated
Life Sciences Division
511 West Rhapsody
San Antonio, Texas 78216**

An Equal Opportunity Employer

TUMOR IMMUNOLOGIST—Faculty appointment. Basic and applied tumor immunology relating to response of tumor to local irradiation; murine and clinical studies. Facilities: a defined flora, SPF mouse colony (C3H, BALB/C, normal, nude), excellent general laboratory research opportunity. Active clinical trials of immunopotentiators in progress. Qualifications: M.D. or Ph.D.; at least 1 year of postdoctoral work. Start: 15 October 1977. Apply: **Dr. H. D. Suit, Department of Radiation Medicine, Massachusetts General Hospital, Harvard Medical School, Boston, Massachusetts 02114. Equal Opportunity Employer.**

UW Wageningen

The Agricultural University, Wageningen, The Netherlands
Applications are invited for the vacant chair in

Plant Physiology

in particular its physical aspects.

Preference will be given to a plant physiologist with outstanding knowledge and research experience in photobiology and physiology of membrane functions.

The appointee will be responsible for the programs in teaching and research of the Department of Physical Plant Physiology (formerly known as the Laboratory of Plant Physiological Research).

He will coordinate research on physical aspects of plant physiology at the levels of cell, organ and whole plant. Together with the staff of the Department he will contribute proportionally to teaching physical aspects of plant physiology, mainly to students in crop science, biology and molecular sciences.

He will be expected to participate actively in establishing a functional cooperation with the Department of Plant Physiology, which is in charge of research and teaching in chemical plant physiology.

Applicants and those who want to make suggestions as to qualified persons, are invited to address the Cabinet of the Faculty of the Agricultural Sciences, Herenstraat 25, Wageningen, The Netherlands, within 4 weeks after the insert of this advertisement, supplying the detailed information and mentioning the number 77-95 on the envelope.

BEHAVIORAL TOXICOLOGIST

Searle Laboratories, the pharmaceutical division of G.D. Searle & Co., has an opening within our Toxicology laboratories for a Behavioral Toxicologist. Responsibilities will include assisting in the establishment of a behavioral toxicology laboratory, monitoring of ongoing subacute and chronic toxicology studies, and the supervision of technicians.

Candidates should possess an MS degree with emphasis in Behavioral Pharmacology or Physiological/Experimental Psychology. Priority will be given to candidates having formal coursework in both fields. Research experience in a laboratory setting is required. Individuals with published research are desirable.

Forward your resume including transcripts and salary requirements in confidence to:

Larry Kedzior

SEARLE

Searle Laboratories

P.O. Box 5110
Chicago, Illinois 60680

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

PhD

BUSINESSMAN/ SCIENTIST

REGULATORY AFFAIRS

Medium-sized chemical company located in Northeastern United States has an expansion opening in its Regulatory Affairs/Toxicology Section: Responsibilities will include governmental agency liaison, product registration, evaluation and recommendation of outside testing labs, protocol development and advisory assistance to scientific staff on toxicology matters. Starting salary to \$27,000.

Requirements include a PhD in Medicinal Chemistry, Pharmacology or Toxicology and 1 to 3 years of industrial research experience preferably in an assignment which provides exposure to regulatory considerations (such as pesticide or pharmaceutical development work).

This position offers excellent prospects for professional development and advancement. For discreet inquiry, send resume including present salary to:

(SCIENCE, BOX NUMBER 348)

Equal Opportunity Employer M/F

COMPOUND LABELING RESEARCH CHEMIST

Los Alamos Scientific Laboratory, a multi-faceted national R & D facility, is seeking a senior-level professional to lead a chemical reaction mechanisms research program in labeling biological compounds with radioactive isotopes. The successful candidate must have a doctoral degree and an established record of experimental accomplishments in synthetic organic chemistry, biochemistry, medicinal chemistry, pharmaceutical chemistry, or related field. An extensive background in radioactive compound labeling research is preferred, in addition to a familiarity with radioactive quality control procedures and acute toxicity studies. Technical experience in the performance of preclinical *in vivo* kinetic and biodistribution studies is desirable.

The Laboratory, located in the beautiful mountains of northern New Mexico, offers excellent working conditions and benefits, such as 24 days' annual vacation. Los Alamos provides a pleasing lifestyle with small-town friendliness, abundant recreational opportunities, and an excellent school system.

Please send complete resume, in confidence, to:

Patricia D. Beck, Recruiting
Representative
Division—77-AQ
Los Alamos Scientific Laboratory
P. O. Box 1663
Los Alamos, New Mexico
87545



AN AFFIRMATIVE ACTION/EQUAL OPPORTUNITY EMPLOYER
WOMEN, MINORITIES, VETERANS, HANDICAPPED
URGED TO APPLY
U. S. CITIZENSHIP REQUIRED

POSITIONS OPEN

SYSTEMATIC ENTOMOLOGIST

Assistant professor to teach in basic entomology and systematics and to assume partial responsibility, as assistant curator of entomology, for the care of the insect collections of the Museum of Comparative Zoology. The possibility of appointment at a higher rank will also be considered for candidates with sufficient experience and academic reputation.

Letter of application or nomination should be sent to: **Professor Edward O. Wilson, Museum of Comparative Zoology, Harvard University, Cambridge, Mass. 02138.** An Affirmative Action/Equal Opportunity Employer.

TUMOR IMMUNOLOGY RESEARCH ASSOCIATE

Ph.D. or M.Sc. Must have experience and publications relating to isolation and characterization of infiltrating cells from either animal or human tumors. Salary dependent on experience. Reply to:

Box 344, SCIENCE

VISITING LECTURERS Department of Biology

The University of Virginia has openings for one-semester lectureships beginning 15 January 1978, in the areas of plant physiology and either general vertebrate biology or a more specialized zoology course such as mammalogy or ornithology. Salary levels negotiable. Applicants should send no later than 15 October a curriculum vitae with references and a proposed course outline to: **Lecturer Search Chairman, Department of Biology, Gilmer Hall, University of Virginia, Charlottesville, Virginia 22901.** An Affirmative Action/Equal Opportunity Employer.

VISION SCIENTIST. Full-time tenured position for established investigator to carry out research and teaching in vision and ophthalmology. Patient care opportunities if desired. Effective date and salary negotiable. Send curriculum vitae, bibliography, and description of research interests to: **Dr. A. H. Bunt, Chairman, Bishop Professor Search Committee, Department of Ophthalmology RJ-10, University of Washington, Seattle, Wash. 98195.** An Affirmative Action/Equal Opportunity 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 1978, and they should be sent to: **Visitor Committee, High Altitude Observatory, National Center for Atmospheric Research (NCAR), P.O. Box 3000, Boulder, Colorado 80307.** NCAR is an Equal Opportunity/Affirmative Action Employer.

ASSOCIATESHIPS

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 1977. Requests for informational material should be addressed to: **Research Associateship Committee, High Altitude Observatory, National Center for Atmospheric Research (NCAR), P.O. Box 3000, Boulder, Colorado 80307.** NCAR is an Equal Opportunity/Affirmative Action Employer.

CONFERENCE

CONFERENCE OF POLYBROMINATED BIPHENYLS (PBB). The Agricultural Experiment Station will present a **Conference on the Scientific Aspects of Polybrominated Biphenyls** to be held at the Kellogg Center for Continuing Education, Michigan State University, 24 and 25 October 1977. Invited papers and posters will be presented, as well as a round table discussion at the conclusion of the conference. The proceedings will be published in *Environmental Health Perspectives*. Space consideration requires limiting attendance on a first to register basis (\$25 registration fee). For further information and registration forms write: **Conference on PBB, The Kellogg Center for Continuing Education, Michigan State University, East Lansing, Michigan 48824.**

CONFERENCE

GENETIC ENGINEERING FOR NITROGEN FIXATION

A public conference on **Genetic Engineering for Nitrogen Fixation** sponsored by Associated Universities, Inc., and supported by a grant from the National Science Foundation (RANN) will be held in the auditorium of the National Academy of Sciences, 2101 Constitution Avenue, NW, Washington, D.C. Enter on the south side of the 2100 block of C Street, NW. The meeting will commence on the evening of 5 October at 7:45 p.m. and continue all day 6 October. The purpose is to get the public, congressional representatives, and government authorities acquainted with the new developments of biological nitrogen fixation and their environmental consequences. For further details and program, contact: **Alexander Hollaender, Associated Universities, Inc., 1717 Massachusetts Avenue, NW, Washington, D.C. 20036; telephone: 202-462-4475.**

COURSES

THE MARINE BIOLOGICAL LABORATORY Woods Hole, Massachusetts

Four-week intensive courses for advanced undergraduate and beginning graduate students to be offered 2-27 January 1978. *Comparative Pathology of Marine Invertebrates* (Frederik B. Bang, Johns Hopkins University, Instructor-in-Charge); *Behavior* (Jelle Atema, Boston University, Coordinating Instructor); *Developmental Biology* (W. S. Vincent, University of Delaware, Instructor-in-Charge); *Ecology* (G. M. Woodwell, Marine Biological Laboratory, Instructor-in-Charge); *Neurobiology* (Alan Fein, Marine Biological Laboratory, and Fred Lang, Boston University, Instructors-in-Charge). For application form write to **Director of Admissions, Marine Biological Laboratory, Woods Hole, Mass. 02543.** Deadline for applications is 1 November 1977. *Marine Biological Laboratory admits students of any race, color, and national or ethnic origin.*

FELLOWSHIPS

FELLOWSHIPS

THE MARINE BIOLOGICAL LABORATORY Woods Hole, Massachusetts

invites applications from faculty members without tenure for participation in its

STEPS TOWARD INDEPENDENCE PROGRAM.

This flexible, individually tailored program furnishes support for study and research at the Marine Biological Laboratory and is designed to provide the facilities, associations, and training which will enable scientists in their immediate postdoctoral years to develop into independent, competitive investigators. More detailed description and application materials for entry into the program beginning in summer 1978, may be obtained from: **Admissions Office, Marine Biological Laboratory, Woods Hole, Mass. 02543; telephone 617-548-3705.** *The Marine Biological Laboratory admits students of any race, color, and national or ethnic origin.*

PHS POSTDOCTORAL FELLOWSHIPS in health sciences and behavioral sciences. Applications invited from holders of Ph.D. degrees for research training in the area of alcohol and alcohol abuse in animal models and clinic populations. Interdisciplinary 2-year program. Applications accepted immediately. Send curriculum vitae, grade transcript, and a letter detailing possible research interests to: **Marc A. Schuckit, M.D., Director, Alcoholism and Drug Abuse Institute, 3937 15th Avenue, NE, NL-15, Seattle, Wash. 98105.**

POSTDOCTORAL FELLOWSHIPS IN VIRAL ONCOLOGY are available at Duke University for investigators interested in postdoctoral experience in viral oncology. Training opportunities are available in avian and murine RNA tumor viruses, immunology, basic virology, cell biology, biochemistry, and molecular biology. Fellowships are open to American citizens and foreign nationals with permanent United States resident visas holding the Ph.D., M.D., or equivalent degree who have had less than 3 years of postdoctoral experience. For further information, write to: **Dr. Ralph E. Smith, Associate Professor, Department of Microbiology and Immunology, Duke University Medical Center, Durham, N.C. 27710.** *Duke University is an Equal Opportunity/Affirmative Action Employer.*

FELLOWSHIPS

GRADUATE STUDENT RESEARCH FELLOWS. Ph.D. program for training and research in tumor virology and cellular transformation. Available July 1978 with an annual stipend of \$4,500. Write to: **Viral Oncology Training Program, Department of Microbiology, Health Sciences Center, State University of New York at Stony Brook, Stony Brook, New York 11794.** *Equal Opportunity/Affirmative Action Employer.*

POSTDOCTORAL FELLOWSHIP

Immediate opening for Ph.D. or M.D. with strong background in immunology and electron microscopy to work on mechanisms of proteinuria in experimental renal diseases. Salary to \$11,000. Send curriculum vitae with three references to:

**Sterling K. Ainsworth, Ph.D.
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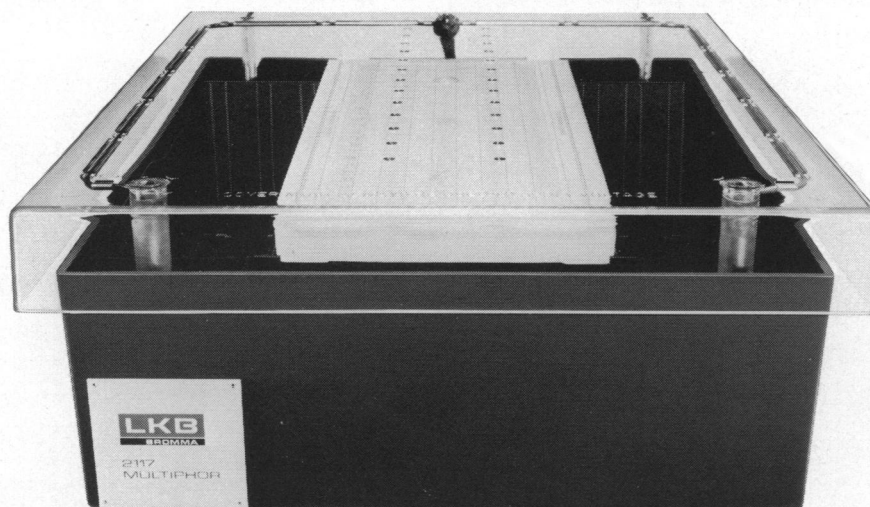
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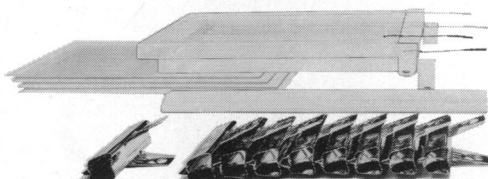
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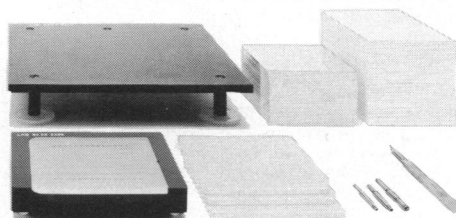
24 samples can be resolved together in under 2 h. Filter paper pieces are simply soaked in the sample solution and placed on the gel. Special electrode lids allow electrofocusing along or across the gel.

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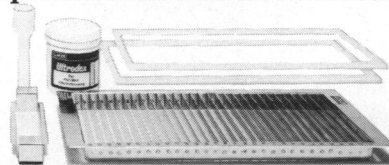
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For more details on LKB Multiphor and LKB 2103 power supply please contact us.

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Photomicrograph by John Delly, McCrone Research Institute

Take a closer look at EASTMAN Organic Chemicals. (reagents for liquid scintillation counting)

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