

Personnel Placement

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POSITIONS WANTED: 40¢ per word, plus \$4 for use of box number, per insertion. \$10 minimum, per insertion. Prepayment required. This rate is available only to individuals seeking jobs.

DISPLAY (POSITIONS OPEN, COURSES, FELLOWSHIPS, MARKET PLACE, and so forth): \$6.40 per millimeter, \$160 minimum, per insertion (minimum charge covers 25 millimeters on a single column; 25 millimeters equals 10 lines of 50 spaces per line). No charge for use of box number. No agency commission for ads less than 103 millimeters (4 inches). No cash discount. Prepayment required for all foreign ads. Purchase orders and billing information required for all other advertising.

Send copy for all **Positions Wanted** ads and **Display** ads less than 1/6 page in size (125 millimeters) to:

SCIENCE, Room 207
1515 Massachusetts Ave., NW
Washington, D.C. 20005
Telephone: 202-467-4456

Send copy for **Display** ads 1/6 page and larger to:

Scherago Associates, Inc.
1515 Broadway
New York, N.Y. 10036
Telephone: 212-730-1050

Blind ad replies should be addressed as follows:

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

POSITIONS WANTED

Biochemist/Plant Physiologist. Ph.D., 29 years of experience in conducting and guiding research in physiology of cotton and linseed. More than 50 international publications. Presently heads research institute in India. Seeks research, teaching position. Box 200, SCIENCE. 7/6, 13, 20, 27

Research Scientist/Microbiologist/Hospital Analyst. M.A./M.P.H. Academic and industrial research in infections, infectious disease, burn therapy, nosocomial infections. Research in hospital data quality, rate setting, reimbursement. Seeking health-related research or research/teaching in New Jersey or metropolitan New York. Box 201, SCIENCE. X

POSITIONS OPEN

ASSISTANT PROFESSOR, tenure-track. This position requires a Ph.D. and evidence of productivity in a basic science area related to ophthalmology. Salary dependent on qualifications.

Interested doctors please send curriculum vitae to the following:

Albert M. Potts, Ph.D., M.D.
Professor and Chairman
Department of Ophthalmology
University of Louisville
301 East Walnut Street
Louisville, Kentucky 40202

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

Ph.D. BIOCHEMIST/CHEMIST RESEARCH ASSOCIATE, Center for Reproductive Sciences, Columbia University and Brookhaven National Laboratory (chemistry). To be co-investigator in studies of peptide and protein hormone metabolism and action, emphasis on reproductive endocrinology and neuroendocrinology. Preparation of high specific activity tritium-labeled hormones. Salary open. Contact: W. Hembree, College of Physicians and Surgeons, 630 West 168 Street, New York, N.Y. 10032. Telephone: 212-694-3684. *An Equal Opportunity/Affirmative Action Employer.*

POSITIONS OPEN

Position: ADMINISTRATOR/COORDINATOR, Professional Development Program.

Salary: Commensurate with qualifications and experience.

Responsibilities: Administration of Academic Senate programs which increase educational opportunities for minorities and women at all educational levels, with an emphasis on science, engineering, and other professional areas.

Development of program support from private foundations, corporations, and state and federal agencies.

Selection, supervision, and training of a diverse teaching and administrative staff. Interaction with university administrators, academic faculty, and students in the development of special educational programs.

Position available: 1 September 1979. Starting date is negotiable.

Qualifications: Demonstrated knowledge and experience in management, fund raising, and budgetary control. Demonstrated record of creativity and achievement in special programs for minority and/or women students.

Master's degree required. Higher level degree desired; advanced graduate training acceptable if combined with substantial experience in teaching or educational administration.

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

Application: Correspondence and résumés should be sent by 1 August 1979 to:

Special Scholarships Committee
Professional Development Program
230-B Stephens Hall
University of California
Berkeley, California 94720

DEPARTMENT OF ANATOMY

Ph.D. **ANATOMIST** to assume responsibility for coordinating the teaching of human gross and neuroanatomy, and histology-embryology, to class of 160 first-year medical students. Presently three-member Ph.D. department. Mature person with proven leadership ability, judgment, and teaching excellence; at least 5 years since doctorate. College objective is training general practice physicians. Research encouraged. Prefer gross anatomist. Position available now, but starting date adjustable. Rank and salary commensurate with qualifications; up to mid-\$20,000's per annum for well qualified. Modern large hospital on campus. Cultural city. Excellent suburban living. Send curriculum vitae and names of four references with addresses and telephone numbers to: E. H. Whitten, Ph.D., Associate Dean, College of Osteopathic Medicine, 2105 Independence Boulevard, Kansas City, Mo. 64124. Telephone: 816-283-2402. *Applications encouraged from all qualified persons.*

ASSISTANT OR ASSOCIATE PROFESSOR OF BIOCHEMISTRY

Candidate with ongoing research program in developmental biochemistry preferred. Teaching strength should be in areas of intermediary metabolism and metabolic regulation. Instruction will be for medical and graduate students. Send résumé and names of three professional references to:

Dr. Gerhard W. E. Pault
Chairman, Department of Biochemistry
Temple University School of Medicine
Philadelphia, Pa. 19140

Temple University is an Equal Opportunity Employer.

ASSISTANT PROFESSOR OF PSYCHOLOGY. Due to an unexpected vacancy, Rensselaer Polytechnic Institute (RPI) has an open position for a psychologist. Ph.D. is required as well as a history of significant publications. Postdoctoral training is desirable. The successful candidate will have special training in cognitive psychology, human factors, or, preferably, both. The position is a tenure-track position with a competitive starting salary. The starting date is late August but the position may not be filled until later, depending on the quality of applicants. Closing date for applicants who might begin in September is 15 July. Send curriculum vitae, three letters of reference, and a letter specifying research interests and strategies for funding that research to: Larry Reid, Department of Psychology, Rensselaer Polytechnic Institute, Troy, N.Y. 12181. *RPI is an Equal Opportunity/Affirmative Action Employer.*

POSITIONS OPEN

ANTITUMOR DRUG DEVELOPMENT PROGRAM

The University of Kentucky College of Pharmacy has two positions available immediately for individuals interested in cell cycle kinetics, antitumor drug-carrier research, or other areas related to antitumor drug development in the medicinal chemistry-molecular pharmacology-toxicology areas. The appointments will be initially at the **PHARMACEUTICAL RESEARCH SCIENTIST** level with research faculty rank probable in the near future. The positions are funded through a Biomedical Research Development Grant to the College of Pharmacy and joint appointments in the Ephraim McDowell Cancer Center are possible. The successful applicants will be expected to develop independent extramurally funded research programs in the antitumor drug development area. Teaching responsibilities will be minimal, but will include instruction in a graduate/Pharm.D. course in antitumor drugs. A Ph.D. degree is required preferably with suitable postdoctoral experience. Salary expectations will be comparable to assistant professor appointments. Send résumé and names of three references to:

Dr. Laurence H. Hurley
Chairman, BRDG Search Committee
College of Pharmacy
University of Kentucky
Lexington, Ky. 40506

The University of Kentucky is an Equal Opportunity Employer.

The Department of Radiological Sciences invites applications for the position of **ASSISTANT OR ASSOCIATE PROFESSOR** in the **DIVISION OF NUCLEAR MEDICINE** at the University of California, Irvine, Medical Center.

Applicants should be Board-certified in nuclear medicine. Preference will be given to those individuals who are Board-eligible or Board-certified in diagnostic radiology. A large proportion of time in this position will be devoted to research and teaching of medical students, as well as supervisory and administrative duties.

Applications from all qualified candidates are welcome; minorities and women are encouraged to apply.

If you are interested in this position, please write to the person listed below, including curriculum vitae, an autobiographical letter, and copies of any publications.

Harris S. Moyed, Ph.D.
Acting Chairman
Department of Radiological Sciences
University of California, Irvine
Irvine, Calif. 92717

Closing date: 31 July 1979.

ASSISTANT PROFESSOR—NUTRITION. Ph.D. required. Must have leadership potential to develop an outstanding nutritional physiology research and graduate studies program. Will be involved in graduate and undergraduate teaching. Applicant should send résumé, including list of publications, transcript of academic training, summary of teaching and research experience, and three reference letters to: Dr. H. H. Van Horn, Dairy Science Department, University of Florida, Gainesville, Fla. 32611. *An Equal Opportunity Employer.*

AUDITORY SCIENTIST. Mature Ph.D. with experience in investigation in the auditory system to develop new research facility and to teach residents and students in the clinical department. Prefer individual with qualifications and experience at the associate professor level. Send curriculum vitae, including bibliography and names of three references, to: George A. Gates, M.D., Division of Otorhinolaryngology, University of Texas Health Science Center, 7703 Floyd Curl Drive, San Antonio, Texas 78284. *The University is an Affirmative Action/Equal Opportunity Employer.*

BIOCHEMIST—Junior faculty/research associate. The Department of Neurology, Medical College of Georgia, is seeking a Ph.D. in biochemistry or cell/molecular biology (or related field) to supervise the Neurology Research Laboratory and to serve as consultant for ongoing research in mammalian folate metabolism. Minimal teaching load, with maximal opportunity to pursue independent research. Two-year initial appointment awarded after 1 July 1979. Salary negotiable. Send curriculum vitae and three references to: Dennis B. Smith, M.D., Chief of Neurology, (127-F) VA Medical Center, Augusta, Georgia 30904. *Equal Opportunity Employer, M/F.*

DIRECTOR RESEARCH INSTITUTE ON ALCOHOLISM

The Research Institute on Alcoholism is the research center for New York State's Division of Alcohol Abuse and Alcoholism. An affiliated institution with the State University of New York at Buffalo, the Research Institute is staffed with scientists from a broad spectrum of disciplines who conduct research in basic and applied areas of alcohol and multiple substance-related aspects of the behavioral, biochemical, and the social sciences. Located in Buffalo, New York, major renovation is currently being completed on the building, which will make the Research Institute an outstanding facility.

Candidates for director should have a broad-based understanding of alcohol-related research. A proven ability in administration and coordination of a research staff and support organization with a diverse array of talents is essential. Expertise in an alcohol-related area of research and grant-generating talents are also leading qualifications. The director will be responsible for the development of basic and applied programs, and the fostering of professional growth among the staff. A doctorate in the behavioral, biochemical, medical, or social sciences is required. The salary range is \$40,000 to \$42,000, plus benefits.

Please forward your curriculum vitae to:

Dr. Lloyd Sokolow
Research Institute on Alcoholism
1021 Main Street
Buffalo, New York 14203

or telephone: 716-887-2504.

Affirmative Action/Equal Opportunity Employer

The National Oceanic and Atmospheric Administration (NOAA), U.S. Department of Commerce, announces a vacancy in the Senior Executive Service for the position of **DEPUTY ASSISTANT ADMINISTRATOR FOR OCEANIC AND ATMOSPHERIC SERVICES**, Rockville, Md.; salary from \$50,100 to \$51,450. Vacancy closes 31 July 1979. Incumbent will substantially share responsibility for establishment of program policies and goals to be executed by the National Weather Service, National Environmental Satellite Service, National Ocean Survey, and National Environmental Data and Information Service. Will interact with highest levels of federal and state governments, foreign governments, private industry, international organizations, and academic institutions. Applicants will be evaluated on extent to which they possess the following: demonstrated evidence of experience in positions of major management responsibility in large scientific/technical service oriented organization to include successful execution of major programs in one or more of the following fields: oceanography, meteorology, cartography, geodesy, environmental satellites, data management/information science; ability to give clear oral and written presentations on complex environmental topics to such high level groups as the U.S. Congress, budget officials, national and international symposia, and so forth; successful interaction with superiors, peers, and subordinates in exercise of job responsibility; understanding application of computers and communication technology in administration and management of technical programs; successful operation of effective Affirmative Action and Equal Employment Opportunity program. At least 1 year of experience must have been at a level of difficulty comparable to that of GS-17 in federal service. Persons interested in applying **MUST** request an official copy of the vacancy announcement by writing to: NOAA Office of Personnel, AD411, 6001 Executive Boulevard, Rockville, Md. 20852, attention: B. Stevens; or by telephoning 301-443-8373. Applications should be made on Standard Form 171 when submitted.

The Department of Commerce is an Equal Opportunity Employer.

POSITIONS OPEN

Coastal and Oceanographic Engineering Department, University of Florida, invites applications for an **ASSISTANT OR ASSOCIATE PROFESSOR** position. Desired area of expertise: **ocean wave mechanics**. Experience in numerical modeling of coastal and ocean processes desirable. Ph.D. in related field required. Send inquiries and résumés to: **Dr. D. M. Sheppard, Acting Chairman, Coastal and Oceanographic Engineering Department, University of Florida, Gainesville, Florida 32611.**

ASSISTANT SCIENTIFIC DIRECTOR NATIONAL PANCREATIC CANCER PROJECT

Full-time position, Ph.D. and/or M.D.; background experience in pancreatic cancer research. University title; salary dependent upon qualifications and background. Apply with curriculum vitae to: **Isidore Cohn, Jr., M.D., Louisiana State University Medical Center, 1542 Tulane Avenue, New Orleans, La. 70112. An Equal Opportunity Employer.**

ASSOCIATE DEAN, Undergraduate Studies, Institute of Technology, University of Minnesota. The institute is part of a large urban university and includes architecture, engineering, mathematics, and physical sciences. The associate dean will be responsible to the dean of the Institute of Technology for the undergraduate program. Requirements: (i) great dedication and energy for advancing the undergraduate curriculum and improving instruction, (ii) experience in educational development activities in science and engineering, (iii) demonstrated interest in student services supporting the academic program, (iv) established reputation as a member of a major academic department and the capacity to conduct and participate in the teaching and research of one of the institute's departments, (v) capacity to coordinate the position's activities with those of the departments within the institute, (vi) ability to interact constructively with related activities of other colleges within the University of Minnesota, (vii) capacity to work effectively with Minnesota industry to coordinate cooperative programs and other educational activities important to industry, and (viii) a demonstrated capacity to obtain research funds from government or industry in the area of educational development. Applications and nominations should be sent to: **Professor David B. Kittelson, Chairman, Search Committee, 107 Lind Hall, University of Minnesota, 207 Church Street S.E., Minneapolis, Minnesota 55455.** Applications should include curriculum vitae and letter relating prior experience to the requirements of the position. Include names of those individuals who may be consulted regarding qualifications. Deadline for receipt of applications or nominations is 15 August 1979. *The university is an Affirmative Action/Equal Opportunity Employer.*

University of Florida seeks an **ASSOCIATE IN MEDICINE**. Research position in biochemistry in laboratory investigating lipoprotein structure and function. A Ph.D. in biochemistry or equivalent training and experience in lipoprotein research are required. Appointment for 1 year with reappointment optional. Salary range: \$15,000 to \$20,000. Recruiting deadline: 15 August 1979. Anticipated starting date: 1 October 1979. Contact: **W. R. Fisher, M.D., Department of Medicine, University of Florida, Box J-266 JHMC, Gainesville, Florida 32610. An Equal Opportunity/Affirmative Action Employer.**

BIOCHEMIST. Position available for a recent Ph.D. in biochemistry for research in isolation and structure determination of complex carbohydrates. Experience in carbohydrate chemistry desirable. Send curriculum vitae and references to: **Dr. Karl Meyer, Eye Research, 630 West 168 Street, New York, N.Y. 10032. An Affirmative Action/Equal Opportunity Employer.**

CHAIRPERSON, DEPARTMENT OF BIOCHEMISTRY

Nominations and applications are invited for the position of chairperson, Department of Biochemistry, Texas Tech University School of Medicine. Applicants should have strong administrative skills, an established research record, and experience in health sciences education. A doctoral degree is required. Please send curriculum vitae and names of four references to:

Mary Ann South, M.D.
Department of Pediatrics
Chairperson, Biochemistry Search Committee
Texas Tech University School of Medicine
Lubbock, Texas 79430

Equal Opportunity/Affirmative Action Employer

POSITIONS OPEN

ASSOCIATE DIRECTOR—RESEARCH. Immediate opening for qualified person to assume position in medical research foundation. Duties to include all phases of operation and management—grants management, drug company research, government regulation assurances, fiscal management, and plant operation. Research management desirable but not necessary. Correspondence should be sent to: **Robert Payne, Marshfield Medical Foundation, Inc., 510 North St. Joseph Avenue, Marshfield, Wis. 54449. An Affirmative Action/Equal Opportunity Employer.**

BIOCHEMICAL DETERMINANTS OF ADDICTIVE BEHAVIOR IN MICE AND MEN are under study at Rockefeller University. Recent doctoral graduates (Ph.D. and M.D.) are invited to apply. The position involves no routine responsibilities, but requires initiative and research ability. The stipend is competitive. If interested, send curriculum vitae and other relevant information to: **Vincent Dole, M.D., Rockefeller University Hospital, New York, N.Y. 10021.**

BIOCHEMIST—ENDOCRINOLOGIST—Positions available at the assistant professor (tenure-track), research associate, or postdoctoral levels. Preference will be given to applicants with a Ph.D. in biochemistry (or its equivalent in training or experience) and particular interests in the biochemistry of reproduction, mechanism of hormone action, hormone receptor interactions and structure-function relationships of the gonadotropins as well as their receptors. Starting can be 1 September 1979, but this is flexible. Please forward curriculum vitae and three letters of recommendation to:

Dr. Leo E. Reichert, Jr.
Professor and Chairman
Department of Biochemistry
Albany Medical College
Albany, New York 12208

Albany Medical College is an Equal Opportunity Employer.

One **BIOCHEMIST** and one **ELECTRON MICROSCOPIST (postdoctoral positions)** interested in *in vitro* metabolism of halogenated hydrocarbons. Interact with pathologist, chemist, and biochemist in research on xenobiotics. Contact: **Dr. J. R. Allen, Department of Pathology, University of Wisconsin-Madison, Madison, Wisconsin 53706, telephone: 608-263-3524. Affirmative Action/Equal Opportunity Employer.**

BIOLOGY—Teach genetics and beginning bioscience. Instructor/assistant professor rank. Salary commensurate with experience. Temporary position for academic year from 15 August 1979 to 18 May 1980. Master's degree required; Ph.D. degree preferred. Send résumé, official transcripts, and three references by 15 July to: **Search Committee Chairman, Biology Department, Frostburg State College, Frostburg, Maryland 21532. Affirmative Action/Equal Opportunity Employer.**

IMMUNOCHEMISTRY RESEARCH. Research staff position available immediately for Ph.D. with experience in protein chemistry and immunochemistry who has completed postdoctoral training. Responsibility will be to develop a program of research dealing with the immunochemistry of human chorionic gonadotropin and related investigative activities in the field of reproductive biology. The individual selected will function in a setting that offers excellent prospects for long-term growth in this field. Interested candidates should send copies of curriculum vitae and names of three references to: **Dr. Robert E. Canfield, Chief, Division of Hormonal and Metabolic Disorders, Department of Medicine, College of Physicians and Surgeons of Columbia University, 630 West 168 Street, New York, N.Y. 10032. Columbia University is an Affirmative Action/Equal Opportunity Employer.**

IMMUNOLOGIST

A position at the assistant or associate professor level for an individual with Ph.D., D.V.M., or M.D. degree. Primary responsibility involves development of a research program in the area of mechanisms of host defense in spontaneous and experimental animal diseases. The main interest of the laboratory is in the area of pathogenesis of infectious diseases. Participation in ongoing research projects, teaching and advising M.Sc. and Ph.D. students in veterinary science is encouraged. Salary negotiable. Send curriculum vitae, selected reprints, and names of three references to: **Dr. David M. Young, Department of Veterinary Science, Veterinary Research Laboratory, Montana State University, Bozeman, Montana 59717. An Equal Opportunity/Affirmative Action Employer.**

POSITIONS OPEN

BIOCHEMISTS with appropriate training in plasma lipoprotein metabolism and ultrastructure are invited to apply for the position of assistant research biochemist (salary approximately \$20,000) in the Cardiovascular Research Institute beginning 1 August 1979. Applicants should have 3 to 4 years of postdoctoral experience in techniques of lipid and apoprotein chemistry. Special consideration will be given to applicants with previous experience working with lipoproteins of normal and cholesterol-fed animals. The applicant chosen will be expected to collaborate full-time in multidisciplinary research on the ultrastructure, composition, and metabolism of plasma lipoproteins. Send curriculum vitae to: **Dr. R. L. Hamilton, Jr., Cardiovascular Research Institute, 1315-Moffitt Hospital, University of California, San Francisco, San Francisco, Calif. 94143. An Equal Opportunity/Affirmative Action Employer. Women and minorities are encouraged to apply.**

CORNELL UNIVERSITY CHAIRPERSON DEPARTMENT OF POULTRY SCIENCE

Nominations and applications are invited for the position of chairperson, Department of Poultry Science, Cornell University. Applicants must have superior credentials including Ph.D. or equivalent degree, record of outstanding accomplishments in research, teaching, and/or extension, and proven or potential leadership abilities. The new chairperson will be expected to assume administrative responsibilities for the department and farms, coordinate research, teaching, and extension efforts, and maintain relations with the poultry and allied industries. Experience in poultry science and/or avian biology is essential. The position offers the opportunity of heading a coordinated research, teaching, and extension effort in avian and poultry biology. By 15 August 1979 submit curriculum vitae and names of three references to: **Dr. Stephen E. Bloom, Chairman, Search Committee, Department of Poultry Science, New York State College of Agriculture and Life Sciences, 215 Rice Hall, Cornell University, Ithaca, New York 14853.**

Cornell is an Equal Opportunity/Affirmative Action Employer.

POSITIONS OPEN

LABORATORY DIRECTOR

Director of the Division of Clinical Microbiology and Immunology, Department of Laboratories, Erie County, Buffalo, New York. M.D. or Ph.D., or an equivalent degree with at least 6 years of experience, will be employed starting 1 September 1979. Salary will be \$27,000 to \$40,000, dependent on qualifications. The director will be responsible for supervising diagnostic work of selected laboratories in the division, interpretation of more complex results, consultations within the clinical staff, administration of the entire division, training of postdoctoral fellows in clinical microbiology and immunology, and in-service training and continuing education of the laboratory staff. The division is housed in the Erie County Medical Center and has space of approximately 10,000 square feet. It consists of the laboratories of bacteriology, mycology, virology, and immunology. If qualified, the director will receive a geographic full-time academic appointment in the Department of Microbiology, School of Medicine, State University of New York at Buffalo, at the rank of associate or full professor, and will be assigned a research laboratory of 1000 square feet. Applications should be addressed to the chairman of the search committee: **Dr. Felix Milgrom, Department of Microbiology, State University of New York at Buffalo, School of Medicine, 203 Sherman Hall, Buffalo, N.Y. 14214.**

The Department of Laboratories of Erie County is an Equal Opportunity/Affirmative Action Employer. Women and minority candidates are encouraged to apply.

1980 SHORT-TERM FULBRIGHT LECTURESHIPS in Near East and South Asia: biological sciences and agriculture, engineering, geology, medical sciences (basic, radiology, immunology, microbiology, anesthesiology, public health, health education), physics, chemistry, mathematics; 1 1/2 to 4 months generally beginning February or September 1980. U.S. citizenship, university teaching experience required. Application deadline: 1 August 1979. Write to: **Council for International Exchange of Scholars, Department CN, 11 Dupont Circle, Washington, D.C. 20036. Telephone: 202-833-4978.**

POSITIONS OPEN

DEVELOPMENTAL NEUROBIOLOGIST

We are seeking a faculty member, at any rank, who has demonstrated excellence in the field of developmental neurobiology. Excellent working conditions and generous set-up funds will be provided. Applications, which will be held in confidence, should be addressed to: **Marcus Jacobson, Chairman, Department of Anatomy, University of Utah College of Medicine, Salt Lake City, Utah 84132. The University of Utah is an Equal Opportunity Employer. Deadline for applications is 1 September 1979.**

DIRECTOR OF HISTOCOMPATIBILITY LABORATORY/M.D. and/or Ph.D.—The University of Alabama in Birmingham, Birmingham, Alabama, invites applications for director of its well-established HLA laboratory that services an active organ transplantation program in an academic setting. This is a position requiring teaching ability and an interest in both pure and applied research. The rank and salary offered are commensurate with training and experience. *The University of Alabama in Birmingham, Birmingham, Alabama, is an Affirmative Action Employer and invites applications from women and minority applicants.* Send curriculum vitae and copies of reprints of articles to: **Jack C. Geer, M.D., Professor and Chairman, Department of Pathology, University of Alabama in Birmingham, Birmingham, Alabama 35294.**

TWO FACULTY OPENINGS in the Department of Photographic Science and Instrumentation (assistant/associate professor). Previous teaching experience desirable. Background in physics (solid state)/optics or electrical engineering. Initial teaching areas: electronic imaging systems, radiometry, color theory. Rank and salary commensurate with education and experience. Opportunity to engage in research and teaching of one's own choice. Send résumé to:

**Dr. Russell C. Kraus, Director
School of Photographic Arts and Sciences
Rochester Institute of Technology
1 Lomb Memorial Drive
Rochester, N.Y. 14623**

An Equal Opportunity Employer

Two positions are available under the Inter-governmental Personnel Act of 1970 for persons now employed in state/local government or in colleges and universities. These positions are within the Environmental Observation Division of the Office of Space and Terrestrial Applications, National Aeronautics and Space Administration (NASA) Headquarters. Both positions are for 1 year with the possibility for renewal for an additional year. Pay will be at a level commensurate with experience, and will be established after a review of qualifications.

Candidates must have been employed by the university in a permanent position for at least 90 days or be a career employee of a state or local government. Candidates must also meet the federal qualification standards for the position. These are as follows: a degree in an appropriate field of science, plus 3 years of progressively responsible experience in duties related to the position.

OCEANOGRAPHER (one position)

This individual will provide scientific guidance to NASA management in the development and implementation of a scientific research program in remote satellite sensing of oceanic processes in coastal regions. A background in coastal oceanography or ocean optics is preferred, with experience in physical, biological, and/or geological oceanography. A Ph.D. or equivalent training and experience is mandatory. Experience in remote sensing is desirable, especially as related to ocean color.

METEOROLOGIST/CLIMATOLOGIST (one position)

This individual will provide technical and scientific expertise to NASA management in the applications program in remote satellite sensing of atmospheric processes. A background in meteorology, climatology, or atmospheric physics is required. A background in remote sensing is desirable. A Ph.D. or the equivalent training and experience is mandatory.

Interested parties should send a current résumé to: **NASA Headquarters, Attention: Sarah Keegan, Code EPM-3, Washington, D.C. 20546.**

Project Scientist (Granular Filtration) San Francisco Peninsula

We're Combustion Power Company, a growing environmental equipment company. Our product line includes: Granular Bed Filters and Fluid Bed Burners. We have an immediate opportunity in our Research Department for a recent PhD in Mechanical, Aeronautical or Aerospace Engineering.

If you possess an interest in interdisciplinary research in the areas of fluid mechanics and gas filtration, you can quickly become the project manager and company expert in granular filtration.

You should enjoy the challenge of customer contact and have the ability to supervise a small staff of professional and technical personnel. A solid background in mathematical analysis, good writing and interpersonal skills is preferred. Some industrial experience in either air pollution control or the gas turbine industry would be considered a plus.

We offer excellent company-paid employee benefits. Salary is open. Qualified candidates should submit their resume with present salary and salary requirements to:

**Personnel Director
Combustion Power
Company, Inc.**

**A Weyerhaeuser Company
1346 Willow Road
Menlo Park, CA 94025**

An Equal Opportunity Employer

CSIRO PLANT BREEDER POSTDOCTORAL RESEARCH FELLOW DIVISION OF HORTICULTURAL RESEARCH ADELAIDE, SOUTH AUSTRALIA

CSIRO has a broad charter for research into primary and secondary industry areas. The organization has approximately 7000 employees, 2400 of whom are research and professional scientists, located in divisions and sections throughout Australia.

FIELD: Salinity research.

GENERAL: The division is concerned with research on a range of perennial horticultural plants (deciduous and evergreen) from both temperate and subtropical regions. Current programmes include studies on the management and genetic improvement of grapevines and fruit trees and of plant viruses and plant parasitic nematodes. Research in plant physiology, biochemistry, and cytology relates to photosynthesis, salinity, and plant and fruit development.

LOCATION: The division has laboratories at Adelaide, South Australia (headquarters); and Merbein, Victoria. The appointee will be located at the Merbein laboratory.

DUTIES: To develop and select salt-tolerant crop plants in collaboration with plant physiologists. Experimentation would involve annuals as well as perennial horticultural species.

QUALIFICATIONS: A Ph.D. degree in plant breeding and genetics, or equivalent qualifications.

SALARY: Research scientists or senior research scientists: A\$14,829 to A\$21,543 per annum.

TENURE: Three years. Superannuation available.

Applications, giving full personal and professional details, the names of at least two professional referees, and quoting reference number 491/052, should reach:

**The Chief
CSIRO Division of Horticultural Research
GPO Box 350
ADELAIDE, South Australia 5001
Australia**

by 10 August 1979.

POSITIONS OPEN

CLINICAL MICROBIOLOGIST

Ph.D. or M.D. clinical microbiologist to coordinate microbiological support of a new 23-bed burn unit in an academic medical center. Responsibilities also include sharing in the direction of the hospital's bacteriology laboratories and directing microbiological research programs for the burn unit. Applicants should be either Board-certified or eligible for certification. A joint academic appointment as assistant or associate professor in the Departments of Bacteriology and Surgery will accompany this position. Send letters of application with current curriculum vitae and request that three letters of recommendation be sent to:

Dr. L. R. McCarthy
Department of Hospital Laboratories
North Carolina Memorial Hospital
University of North Carolina
Chapel Hill, N.C. 27514

Applications must be received by 1 November 1979. Position available 1 January 1980. *University of North Carolina-North Carolina Memorial Hospital is an Equal Opportunity/Affirmative Action Employer.*

TWO FACULTY POSITIONS: PHYSIOLOGY—BIOCHEMISTRY, MICROBIOLOGY. One-year, full-time positions at rank of assistant professor for August 1979. Ph.D. required. Preference will be given to candidates with postdoctoral experience. Responsibilities include teaching physiology, biochemistry or microbiology, and freshman biology. Send curriculum vitae and three letters of reference by 20 July 1979 to: **James S. Rogers, Chairman, Department of Biological Sciences, University of New Orleans, New Orleans, Louisiana 70122.** (A member of the Louisiana State University system.) *Equal Opportunity/Affirmative Action Employer.*

DIRECTOR ENERGY INSTITUTE AT LAS CRUCES, NEW MEXICO

The New Mexico Energy Institute at Las Cruces, New Mexico, invites applications for the position of director. The institute is responsible for research and development in the energy-related areas of geothermal solar, wind, and waste conversion for the State of New Mexico. It is located at and managed by New Mexico State University, and works closely with its separate Solar Energy Institute. The director manages and coordinates research and development programs with other institute directors, other universities in the state, and municipal, state, and federal energy officials, and formulates procedures to be followed by advisory and review committees related to the institute. Applicants should have a background of research and administration in an energy-related field. In addition, the Ph.D. degree or an equivalent combination of formal education and professional experience is desirable. Salary commensurate with qualifications. Acceptance of applications will close 15 August 1979. Please send résumé and names of three references to: **Dr. Koert J. Lessman, Chairman, Search Committee, New Mexico Energy Institute, New Mexico State University, P.O. Box 3EL, Las Cruces, New Mexico 88003.** *New Mexico State University is an Equal Opportunity/Affirmative Action Employer.*

IMMUNOCHEMIST/IMMUNOLOGIST. M.Sc./Ph.D. Supervisor of a large rabbit colony associated with a 300-plus-bed hospital in upstate New York. Candidate must have knowledge of antigen/antiserum production and quantitation. Familiarity with all immunological techniques, particularly RIA. Duties to include management and supervision of six technicians with opportunity to conduct research projects related to the above. Salary negotiable. Contact: **Jack Havens, Director of Personnel, Arnot-Ogden Memorial Hospital, 600 Roe Avenue, Elmira, N.Y. 14901.** Telephone: 607-737-4514. *An Equal Opportunity Employer, M/F.*

INSTRUCTOR—Applications are invited for an immediate full-time position to work on the purification and cloning of interferon and other cellular mRNA's. Several years of experience in nucleic acids technology and in vitro protein synthesis, especially microinjection into *Xenopus* oocytes, is highly desirable. The salary is in the range of \$16,000 to \$18,000. Send application with curriculum vitae and names of two references to: **Dr. P. M. Pitha, Biochemical Virology Unit, The Johns Hopkins Oncology Center, Baltimore, Md. 21205.** *Johns Hopkins is an Equal Opportunity/Affirmative Action Employer. Women and minorities are encouraged to apply.*

POSITIONS OPEN

CLIMATE-RELATED RESEARCH. Applications are invited for two postdoctoral fellowships at the University of Toronto. One position is for a climate modeler interested in the CO₂ problem; the other is for a social scientist interested in the impact of climate change on society. Application deadline: 1 August 1979. Salary range and conditions of employment are those of the Canadian NRC. Apply to: **Professor F. K. Hare, Director, Institute for Environmental Studies, University of Toronto, Toronto, Canada M5S 1A4.**

ELECTRON MICROSCOPY FACILITY DIRECTOR. The Research Service, VA Medical Center, San Diego, has an immediate opening for an experienced biomedical scientist of excellence with a working knowledge of SEM/TEM and administrative skills to direct a core EM facility. Salary: \$23,087 to \$27,453 for 12 months. Applicants should send curriculum vitae and three letters of reference to: **Lee W. Henderson, M.D., ACOS Research (151), VA Medical Center, 3350 La Jolla Village Drive, San Diego, California 92161.**

FACULTY POSITION REOPENED

The University of Florida, College of Veterinary Medicine, is reopening the search for candidates for a position in the Division of Comparative Pathology. Applications or nominations are invited for a **VETERINARY PATHOLOGIST** with an interest in research in experimental pathology. Duties for the position include independent research, instruction of veterinary students, graduate education, and diagnostic pathology.

Applicants should possess the D.V.M. (or equivalent) degree; advanced research training; and demonstrated research capability. Board-certification by the American College of Veterinary Pathologists is desirable, but not required. Academic rank and salary will be commensurate with applicant's expertise and experience.

Letters of application should include curriculum vitae, research and teaching goals, and names of three persons who will provide letters of reference. Address correspondence to:

Dr. J. C. Woodard, D.V.M., Ph.D.
Division of Comparative Pathology
College of Veterinary Medicine
Box J-145, JHMHC
University of Florida
Gainesville, Florida 32610

GENETICIST—CELL BIOLOGIST

Biology and Health Sciences Department of small, co-ed college emphasizing excellence in teaching invites applications from candidates with teaching experience in genetics, cell biology, and population biology for January 1980. Master's degree as minimum; Ph.D. preferred. Send curriculum vitae and three letters of recommendation to: **Chairman, Biology and Health Sciences Department, Illinois Benedictine College, Lisle, Ill. 60532,** by 1 September 1979. *Equal Opportunity/Affirmative Action Employer and Educator, M/F.*

HEAD, DEPARTMENT OF CHEMISTRY UNIVERSITY OF ILLINOIS AT CHICAGO CIRCLE

The University of Illinois at Chicago Circle announces a vacancy for head of the Department of Chemistry, effective 1 September 1980. A candidate must have a Ph.D. degree and should present a distinguished record of scholarly achievement in the chemical sciences which is commensurate with the rank of professor in this university. A candidate must be committed to high-quality teaching at both the undergraduate and graduate levels, and should have the ability, as indicated by past achievement, to generate substantial research support. His or her principal contribution will be to lead the department, already well-established, in its continuing effort to maintain and increase its excellence. The salary is negotiable. The deadline for applications, which should include curriculum vitae, is 15 October 1979. Arrangements should be made for the submission of four letters of recommendation. Address correspondence to:

Professor Richard L. Carlin
Chairman, Search Committee
Department of Chemistry
University of Illinois at Chicago Circle
Box 4348
Chicago, Illinois 60680

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

POSITIONS OPEN

ENVIRONMENTAL TOXICOLOGY ASSISTANT PROFESSOR

Assistant professor, environmental toxicology, beginning August 1979. Ph.D. required in a biological science. Research in study of effects of toxic substances found in the atmosphere, soil, or aquatic environments on biological system, either animal, plant, or microbial. Teaching duties related to area of specialization and assistance with an introductory biology course. Applicants should send their curriculum vitae, reprints, and names of three references to: **James A. Brierley, Chairman Search Committee, Department of Biology, New Mexico Institute of Mining and Technology, Socorro, New Mexico 87801.**

Affirmative Action/Equal Opportunity Employer

TWO FACULTY POSITIONS

BIOLOGIST-MICROBIOLOGIST. Assistant/associate professor, tenure-track. Individuals must have postdoctoral experience and have demonstrated outstanding research ability. Applicants with training in any area of biology may apply but candidates should have a strong background in microbiology. The position requires interaction with an active graduate (M.S., Ph.D.) program. Teaching responsibilities will include development of an undergraduate course in applied and environmental microbiology or food and water microbiology, an advanced course in area of specialty, and periodic involvement in introductory biology.

MEDICAL MICROBIOLOGIST. Deadline extended to 25 July. Undergraduate and graduate teaching and research. Assistant professor, tenure-track.

Send letter of intent, curriculum vitae, and three letters of recommendation for first position to: **Dr. J. J. Rowe,** and for second position to: **Dr. K. J. McDougall, Department of Biology, University of Dayton, Dayton, Ohio 45469,** before 25 July. *An Equal Opportunity/Affirmative Action Employer.*

NEUROPHARMACOLOGY FACULTY POSITION, INSTRUCTOR

Appointee will be involved in an ongoing research project studying neural mechanisms of abuse drugs, and will be expected to participate in the instruction of medical and graduate students. Postdoctoral experience in neuropharmacology or neurophysiology required. Send résumé and three letters of reference to:

Dr. Michael Hosko
Department of Pharmacology and Toxicology
**THE MEDICAL COLLEGE
OF WISCONSIN**
P.O. Box 26509
Milwaukee, Wis. 53226

An Equal Opportunity Employer, M/F/H

PATHOBIOLOGY RESEARCH—Faculty position available in university Pathology Department. Ph.D. or M.D. in biochemistry, molecular biology, or related discipline. Rank to be determined by experience and record of accomplishment. Must be capable of initiating an active grant-supported research program in environmental carcinogenesis or other areas of molecular pathology. Applicants should submit curriculum vitae, list of publications, history of any grant support, transcripts, names and addresses of three references, and outline of research plans to:

Dr. Diane W. Crocker
Chairman of Pathology Department
The University of Tennessee
Center for the Health Sciences
858 Madison Avenue
Memphis, Tennessee 38163

An Equal Opportunity/Affirmative Action Employer

1 September 1979—Prefer Board-certified **PHYSIATRIST** with 3 to 5 years of experience with the severely disabled. Level from instructor to associate professor. Reply to: **Box 202, SCIENCE.** Code 1100H0. *A non-discriminatory, Affirmative Action Employer.*

ANIMAL VIRUS RESEARCHER

Position immediately available for veterinarian, wildlife zoologist, research physician, or other scientist interested in studies of viruses in animals related to hepatitis B virus of man. Initial studies involve laboratory and wild woodchucks (*Marmota monax*). Opportunity for original research. Initial appointment for three years after which a career position is possible. Appointment at the Research Associate or higher level in the Division of Clinical Research, under the direction of Baruch S. Blumberg, M.D., Ph.D.

Send curriculum vitae and names of three references to: M.T. Dixon, Personnel Manager, **THE INSTITUTE FOR CANCER RESEARCH, THE FOX CHASE CANCER CENTER**, Philadelphia, PA 19111.

*An Equal Opportunity/Affirmative
Action Employer*

EXECUTIVE POSITION as Associate Chief of Staff for Research at a large VA Medical Center with close affiliation with a new medical school is available to a licensed physician with Board Certification and demonstrated experience in research. Faculty appointment and salary commensurate with qualifications and experience. The School of Medicine and VA Medical Center are E.O.E. and Affirmative Action Employers. Apply with resume to: Chief of staff, VA Medical Center, 4100 West Third St., Dayton, Ohio 45428 or Associate Dean for Academic Affairs, Wright State University School of Medicine, P.O. Box 927, Dayton, Ohio 45435.

EXECUTIVE POSITION as Associate Chief of Staff for Education at a large VA Medical Center with close affiliation with a new medical school. Successful applicants must hold the M.D. degree, be Board Certified and licensed. Preference will be given to individuals experienced in undergraduate and graduate medical education and administrative interests. Nominations and applications to include a curriculum vitae and the names and addresses of three references should be sent to the Chief of Staff, VA Medical Center, 4100 West Third St., Dayton, Ohio 45428 or to the Associate Dean for Academic Affairs, Wright State University School of Medicine, P.O. Box 927, Dayton, Ohio 45435. The School of Medicine and the VA Medical Center are E.O.E. and Affirmative Action Employers.

LIFE SCIENCES LITERATURE ANALYST

R.J. Reynolds Tobacco Company, an affiliate of R.J. Reynolds Industries, Inc. currently has an opening in its Research Department.

Applicants should possess the following:

Outstanding, diversified scientific background and abilities, with emphasis on life sciences, such as given in medical or pre-medical, and/or physiological, biological, and related curricula. Ph.D. or equivalent experience, with scholarly temperament, depth, high intelligence and flexibility, as well as the abilities of being articulate, open minded and attentive to details. Recent graduate with research experience preferred. Complete fluency in reading scientific German and/or other European languages without a dictionary helpful. Experience in literature analysis desired but not essential. Individual will critically search, evaluate and report on literature on a wide variety of specific life sciences subjects using modern search techniques.

R.J. Reynolds Industries, Inc. offers an excellent salary commensurate with ability and experience, outstanding benefits package and opportunity for future growth. If you are qualified for this position, please submit a resume including work experience, education, and salary history to: Mr. Michael M. Friend, R.J. Reynolds Industries, Inc., 401 N. Main Street, Winston-Salem, NC 27102.



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FOOD AND AGRICULTURE ORGANIZATION (FAO) OF THE UNITED NATIONS,
ROME, ITALY:**

CROP PROTECTION SPECIALISTS (PHYTOPATHOLOGISTS, ENTOMOLOGISTS, WEED SCIENTISTS)

To be stationed in Sahelian countries, serving in a large-scale project on Integrated Pest Management for Basic Food Crops implemented with the assistance of FAO by the Inter-States Permanent Committee for Drought Control in the Sahel (CILSS).

ESSENTIALS: Ph.D. in plant protection sciences. At least 7 years of postgraduate experience in pest management. Good working knowledge of English or French.

SALARY: Dependent on qualifications/seniority, net tax-free including the usual International Civil Service allowances. Please send detailed curriculum vitae quoting "TF/RAF/128(USA)—comm." to: **T. Eshetu, Manpower Planning, AGO, FAO, Via delle Terme di Caracalla, 00100 Rome, Italy.**

POSITIONS OPEN

UNIVERSITY OF OKLAHOMA COLLEGE OF MEDICINE

Applicants are solicited for faculty positions in the following departments: **PATHOLOGY**: (#166)—Associate professor or full professor (academic faculty). Administer teaching programs for Pathology Department. Experience in research, adviser for graduate students. Terminal degree in pathology or correlative area. (#167)—Assistant professor. Experience in research, having funded research. Teaching and guidance of graduate students. Terminal degree in pathology or correlative areas.

Applicants should send curriculum vitae, identifying vacancy number for which they are applying, to: **Dr. Thomas N. Lynn, Dean, College of Medicine, University of Oklahoma Health Sciences Center, P.O. Box 26901, Oklahoma City, Okla. 73190. We are an Equal Opportunity Employer.**

PERINATAL-FETAL PHYSIOLOGIST

A full-time academic position is currently available in the Department of Obstetrics and Gynecology. The position will involve both teaching and research work and the rank and salary are dependent upon prior experience. If interested, please send curriculum vitae and bibliography to:

William N. Spellacy, M.D.
Professor and Head
Department of Obstetrics and Gynecology
University of Illinois at the Medical Center
840 South Wood Street
Chicago, Illinois 60612

Affirmative Action/Equal Opportunity Employer

POSTDOCTORAL FELLOW. Position available in Immunology Research Unit beginning 1 July 1979 or later. Research in immunologic aspects of occupational lung disease studying involvement of immunopharmacologic, environmental, and host factors. Send curriculum vitae, publications, and names of three references to: **Director of Training Program, Clinical Immunology Unit, Environmental Sciences Building, Tulane University Medical Center, 1700 Perdido Street, New Orleans, La. 70112. An Equal Opportunity Employer.**

POSTDOCTORAL OPENINGS ANTICIPATED

Bioinorganic chemistry or metallobiochemistry. Superoxide and/or metalloporphyrin chemistry or metal-binding studies of Cu-Zn superoxide dismutase. Synthetic inorganic or biochemical background preferred. Send résumé and three reference letters to: **Professor Joan S. Valentine, Department of Chemistry, Busch Campus, Rutgers University, New Brunswick, N.J. 08903. Equal Opportunity/Affirmative Action Employer.**

POSTDOCTORAL POSITION is available immediately for biochemist or molecular biologist to study the transforming products of the DNA tumor virus SV40 and its interaction with and induction of host macromolecules. Experience in protein and enzyme characterizations useful. Send curriculum vitae and names of three references to:

Dr. Robert B. Carroll
Department of Pathology
New York University School of Medicine
550 First Avenue
New York, N.Y. 10016

POSTDOCTORAL POSITION IN NEUROGENETICS available after 1 October 1979 at Albert Einstein College of Medicine, Bronx, New York. Opportunity for research on the biochemistry and genetics of acetylcholine receptors or voltage-sensitive sodium channels in *Drosophila*. Preference will be given to candidates with training in eukaryotic genetics. This is an ideal opportunity for person with training in genetics to learn techniques of membrane biochemistry. Send résumé, transcripts, and three letters of reference to: **Dr. Linda M. Hall, Department of Biology 16-713, Massachusetts Institute of Technology, Cambridge, Mass. 02139.**

TWO POSTDOCTORAL POSITIONS available immediately to study the pharmacokinetics, metabolism, and macromolecular interactions of environmental and antineoplastic alkylating agents. Background in pharmacology, toxicology, metabolism, and modern analytical techniques is required. Chemical background preferred but not essential. Please send résumé and three letters of recommendation to: **Dr. A. E. Ahmed, Departments of Pathology, Pharmacology and Toxicology, P.O. Box 146, University of Texas Medical Branch, Galveston, Texas 77550. An Affirmative Action/Equal Opportunity Employer.**

POSITIONS OPEN

PHYSICIANS (multiple openings)—The Food and Drug Administration (*an Equal Opportunity Employer*) has Civil Service and Commissioned Corps (U.S. Public Health Service) openings for evaluation of new drug clinical testing and potential effects of drugs. Some investigation positions also available in the bioresearch monitoring program. Vacancies are for physicians qualified in specialties (endocrinology, internal medicine, pulmonary disease, or rheumatology), or with clinical pharmacology training/experience, or with research experience in development of new drugs.

Positions have no patient care duties, are located in Rockville, Maryland, and require medical judgments, effective writing and speaking, and ability to organize work and to meet deadlines. Grades GS-14 and GS-15 (salary range \$40,009 to \$47,500 per year, depending upon experience and qualifications). Comprehensive fringe benefits available.

Requirements: medical degree (M.D. or doctor of osteopathy) and Board-eligibility in above listed specialty; or equivalent experience in clinical pharmacology or drug research. Acceptability of degree source governed by Civil Service regulations.

Send résumé or curriculum vitae to:

George H. Calvert
Food and Drug Administration
Division of Personnel Management
5600 Fishers Lane
Rockville, Maryland 20857

Faculty position in **PLANT PATHOLOGY**, assistant professor (25 percent teaching—75 percent research). The position will involve research on fungal and bacterial diseases of fruit and nut crops with emphasis on plant-pathogen-environment interactions and on the development of alternatives to chemicals for disease control. Applicants should have a Ph.D. in plant pathology with a strong background in areas pertinent to the above research. Teaching responsibilities will include participation in an undergraduate course in general plant pathology and graduate course on alternatives to chemical control of plant diseases. Supervision of graduate student research is expected. Applicants should submit résumé, transcripts, copies of publications, and the names and addresses of at least three references to: **Professor J. M. Ogawa, Chairperson of the Search Committee, Department of Plant Pathology, University of California, Davis, Calif. 95616, prior to 1 October 1979.**

The University of California is an Equal Opportunity/Affirmative Action Employer and invites applications from all qualified individuals.

POSTDOCTORAL POSITIONS (two) in lipoprotein and apoprotein synthesis and metabolism available immediately. Studies include intestinal synthesis and transport of lipoproteins in lymph duct cannulated rats and in isolated intestinal cells. Experience in lipoprotein separation and analysis required. Salary: \$12,000 up, depending on experience. Send curriculum vitae and names of three references to: **Dr. George V. Vahouny, Department of Biochemistry, The George Washington University School of Medicine and Health Sciences, 2300 Eye Street, NW, Washington, D.C. 20037. The George Washington University is an Equal Opportunity/Affirmative Action Employer.**

POSTDOCTORAL POSITIONS NEUROBIOLOGY

The Neurobiology Group of the Worcester Foundation for Experimental Biology announces the availability of postdoctoral fellowships. These are 2-year appointments with possible renewal; the initial salary is \$11,000. Applicants should submit curriculum vitae, a synopsis of their Ph.D. thesis research, and the names and addresses of at least three references.

Application material should be sent to: **Neurobiology Group, Postdoctoral Fellowship Program, c/o Personnel Office, Worcester Foundation for Experimental Biology, 222 Maple Avenue, Shrewsbury, Mass. 01545.**

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RESEARCH/TECHNICAL ASSOCIATE

Ph.D. biochemist with experience/interest in neurochemistry to study enzymes of purine metabolism, amino acid levels, development of enzyme assays, purification of proteins, kinetic studies, nucleic acids, and so forth. Excellent salary/benefits. Send résumé to: **Employment Office, T. Cohen, Employment Supervisor, Christ Hospital, 4440 West 95 Street, Oak Lawn, Illinois 60453. Telephone: 312-425-8000, extension 5607. Equal Opportunity Employer.**

POSITIONS OPEN

POSTDOCTORAL ASSOCIATE

**Department of Chemical and Environmental Engineering
Rensselaer Polytechnic Institute (RPI)
Troy, New York**

Duties of the candidate will include research in the development of new analytical methods to concentrate enteroviruses from different quality waters. The candidate should have training in environmental microbiology and virology including an intimate knowledge of tissue culturing techniques. Some knowledge in fluid dynamics is also essential. Experience with virus concentration techniques in water would be advantageous but not a necessity. *Applications from women and minorities are especially encouraged. RPI is an Equal Opportunity/Affirmative Action Employer.* Contact:

Dr. Georges Belfort
Department of Chemical and Environmental Engineering
Rensselaer Polytechnic Institute
Troy, N.Y. 12181

POSTDOCTORAL POSITION available for studies of the synthesis and function of polyamines in mammalian cells. Available immediately; 1-year appointment, renewable. Salary to \$10,000 to \$12,000. Background in biochemistry, cell biology, or physiology preferred. Send curriculum vitae and two references, with possible starting date, to: **Dr. Anthony E. Pegg, Department of Physiology, The Milton S. Hershey Medical Center, The Pennsylvania State University, Hershey, Pennsylvania 17033.**

POSTDOCTORAL POSITION

Available now for Ph.D. with biochemistry background or M.D. to carry out metabolic-endocrine research related to diabetes and atherosclerosis. Send curriculum vitae to: **Dr. G. B. Phillips, Columbia University College of Physicians and Surgeons, Roosevelt Hospital, 428 West 59 Street, New York, N.Y. 10019.**

An Equal Opportunity/Affirmative Action Employer

POSTDOCTORAL POSITION

Available 1 September 1979, for research on the delivery of protease inhibitors to the lung tissue as a potential therapeutic approach for the treatment of emphysema. Applicant should have strong background in protein chemistry and enzymes. Experience in the handling of small animals would be desirable. Starting salary: \$12,000 to \$13,000 with at least 2 years of support available. Interested candidates should send curriculum vitae to: **Dr. Irvin Liener, Department of Biochemistry, University of Minnesota, 1479 Gortner Avenue, St. Paul, Minn. 55108. An Equal Opportunity/Affirmative Action Employer.**

POSTDOCTORAL POSITIONS available immediately for recent Ph.D.'s in biochemistry or molecular biology. Project: molecular basis of hormonal regulation of mammalian enzyme development. Experience in messenger RNA translation and/or cell culture desirable. Send résumé and two or more references to: **Muriel Feigelson, Ph.D., Director, Obstetrics-Gynecology Basic Research Laboratory, Roosevelt Hospital, Columbia University, 428 West 59 Street, New York, N.Y. 10019. An Equal Opportunity/Affirmative Action Employer.**

POSTDOCTORAL POSITION, available August 1979, in protein chemistry, enzyme mechanisms, and affinity labeling of enzyme active sites. Recent Ph.D. in biochemistry. Apply with curriculum vitae and three references to: **Dr. Roberta F. Colman, Chemistry Department, University of Delaware, Newark, Delaware 19711. An Equal Opportunity Employer.**

RESEARCH POSITION IN CELLULAR IMMUNOLOGY

The Department of Biology, Texas Christian University and Cook Children's Hospital, 1212 West Lancaster, Fort Worth, Texas 76102.

A postdoctoral position is being created in cellular immune research involving glucocorticoid receptor analysis in human leukemia. A background in immunofluorescence and mixed leukocyte culture techniques is desirable. Salary in the low \$20,000's is privately endowed, and, therefore, not contingent on grant support. Applicants may send curriculum vitae, reprints, and three professional references to: **Dr. T. D. Miale at the above address, or telephone: 817-336-5521.**

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invites applications for a post of Medical Officer (Chief of Cancer Unit) in the Division of Noncommunicable Diseases, WHO Headquarters, Geneva.

The incumbent of the post will be responsible for the planning, organization and evaluation of the programme in the field of cancer control and prevention at headquarters level, and its coordination with regional office and the International Agency for Research on Cancer.

Applicants should have a medical degree, with specialization in an area of oncology. Experience in organizing and evaluating cancer control programmes, and clinical experience are essential; statistical and research experience, as well as experience in international health work, are desirable. Excellent knowledge of English or French, with working knowledge of the other language is required.

Interested candidates with the required qualifications should write as soon as possible, enclosing a detailed curriculum vitae and quoting reference VN/CAN, to:

The World Health Organization
Personnel
CH-1211 Geneva 27

Only candidates under serious consideration will be contacted.

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POSITIONS OPEN

POSTDOCTORAL POSITION—Available immediately for a person with doctorate in microbiology or immunology. Research involves study of the mechanisms of acquired immunity to experimental histoplasmosis including roles of lymphocytes, macrophages, and their products. Annual salary: \$12,000, plus fringe benefits. Please send curriculum vitae to: **Dr. Ram P. Tewari, Department of Medical Microbiology and Immunology, Southern Illinois University School of Medicine, P.O. Box 3926, Springfield, Illinois 62708, before 1 August 1979. An Equal Opportunity/Affirmative Action Employer.**

TWO POSTDOCTORAL POSITIONS available immediately to undertake: (i) protein crystallographic studies of bacterial heme proteins and other macromolecules of biological interest, and (ii) computer modeling studies of macromolecular interactions and dynamics. Research facilities include MMSX molecular graphics system and P₃F automatic diffractometer. Send résumé and the names of three references to: **F. R. Salemme, Department of Biochemistry, New Chemistry Building, University of Arizona, Tucson, Ariz. 85721. An Equal Opportunity/Affirmative Action/Title IX/Section 504 Employer.**

POSTDOCTORAL POSITION—IMMUNOPARASITOLOGY. Recent Ph.D. in immunology (immunology preferred) to work on *Trypanosoma cruzi* infections in mice. Starting salary: \$12,000; 1 to 3 years. Send curriculum vitae and names of three referees before 1 August to: **R. E. Kuhn, Ph.D., Box 7325, Wake Forest University, Winston-Salem, N.C. 27109. Equal Opportunity/Affirmative Action Employer.**

POSTDOCTORAL/RESEARCH ASSOCIATE to join three PD's studying the structure, enzymology, and cytoskeletal interactions in coated vesicle mediated protein transport. Biochemical or cell biological background required; \$11,000 to \$14,000. *University of Maryland Baltimore County is an Affirmative Action/Equal Opportunity Employer.*

Dr. Thomas F. Roth
Department of Biological Sciences
University of Maryland Baltimore County
Catonsville, Md. 21228
Telephone: 301-455-2254

REPRODUCTIVE BIOLOGIST

McGill University, Montreal, Division of Reproductive Biology, Department of Obstetrics and Gynecology, invites applications for an assistant professor position. Candidates must hold Ph.D. or M.D. degrees, have at least 2 years of postdoctoral training, and have documented research interests in some aspect of reproductive biology (for example, neuroendocrinology, gonadal function, fetal growth, hormone receptors, and so forth). Candidates will be expected to establish their own research group and to compete for outside grant support. Personal salary and starting date negotiable; teaching commitments commensurate with experience. Closing date for applications: 1 September 1979. Send curriculum vitae, list of publications, and three letters of reference to: **Dr. K. B. Ruf, Research Laboratories, Women's Pavilion, Royal Victoria Hospital, 687 Pine Avenue West, Montreal, Canada H3A 1A1.**

RESEARCH ASSISTANT PROFESSOR

Research ability and experience of primary consideration. Research area: peripheral vascular physiology. Individual must have an extensive background in instrumentation, automated data collection and processing, as well as experience in human and animal research. Postdoctoral training required. Must be able to compete for outside research funds. Send curriculum vitae with three letters of reference to: **Frederick A. Matsen, III, M.D., Department of Orthopaedics, University of Washington, Seattle, Wash. 98195. University of Washington is an Affirmative Action/Equal Opportunity Employer.**

RESEARCH ASSOCIATE, Ph.D.—MICROBIOLOGY. Two positions are available involving gene transfer from *Pseudomonas* to related species; preferably with direct experience in *Pseudomonas* genetics (transformation, conjugation, and plasmid vectors). One-year position; renewable. Stipend: \$14,500. Positions available 1 July and 1 October 1979. Send curriculum vitae, transcripts, and three letters of reference to: **Dr. D. E. Eveleigh and Dr. B. S. Montencourt, Department of Biochemistry and Microbiology, Cook College, Rutgers—The State University of New Jersey, New Brunswick, N.J. 08903. An Equal Opportunity/Affirmative Action Employer.**

POSITIONS OPEN

POSTDOCTORAL POSITION available fall 1979, for research on the regulation of the renal circulation and renal tubular-vascular interactions. Work involves microperfusion of individual tubules and capillaries, and video imaging and digital image processing. Recent Ph.D. in physiology, biophysics, or biomedical engineering preferred. Position is for 2 years. Send curriculum vitae and names of references to: **Donald Marsh, M.D., Professor and Chairman, Department of Physiology and Biophysics, University of Southern California School of Medicine, 2025 Zonal Avenue, Los Angeles, Calif. 90033.**

YALE UNIVERSITY, DEPARTMENT OF PSYCHIATRY. Immediate opening for **psychiatrist PG5 or beyond** for research in clinical psychopharmacology. Research experience desirable. Assistant professor level; salary commensurate with experience. Please send curriculum vitae and the names of three references to:

Stephen Fleck, M.D.
25 Park Street
New Haven, Conn. 06519

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RESEARCH ASSOCIATE

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FELLOWSHIPS

POSTDOCTORAL FELLOWSHIPS beginning 1 October 1979 at the University of Colorado School of Medicine, Denver, Colorado, are available for qualified applicants interested in an interdisciplinary approach to developmental pharmacology. Fields of study encompass genetic expression in mammalian cells, protein phosphorylation, neurotransmitter processes in vivo and in culture systems, receptor systems, pharmacokinetics, placental physiology. Persons with a Ph.D. in biological sciences are invited to apply. Send complete curriculum vitae to: **Professor Antonia Vernadakis, Department of Pharmacology, University of Colorado School of Medicine, Denver, Colorado 80262. Equal Opportunity/Affirmative Action Employer, M/F.**

POSTDOCTORAL FELLOWSHIP IN TOXICOLOGY AND PATHOLOGY. Available in near or immediate future in the area of experimental chemical carcinogenesis. Experience in the areas of cell fractionation, cell culture, two-dimensional gel electrophoresis, and radiochemical techniques desirable. Animal handling and care experience also preferable. Send curriculum vitae and names and telephone numbers of three referees to: **Dr. C. Stuart Baxter, Department of Environmental Health, Kettering Laboratory, 3223 Eden Avenue, Cincinnati, Ohio 45267. An Affirmative Action/Equal Opportunity Employer.**

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Applications are being accepted for pre- and postdoctoral training in environmental epidemiology to begin fall 1979. Eligible persons are: (i) predoctoral candidates with a background in biological or environmental sciences, epidemiology or biostatistics, or (ii) postdoctoral candidates with an M.D., D.V.M., D.D.S., or Ph.D. degree. Contact: **Dr. Anita K. Bahn, Chairperson, Graduate Group in Epidemiology, University of Pennsylvania, 36th and Hamilton Walk GA, Philadelphia, Pa. 19104. Telephone: 215-243-4890.**

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STUDENT FELLOWSHIPS available for U.S. citizens and permanent residents toward Ph.D. in pharmacology. Diversified training related to the pharmacological and biochemical basis for drug action with emphasis on cancer therapeutics: inhibition of nucleic acid, protein and membrane components, enzyme activity regulation, coenzyme action and inhibition, basis for selective toxicity, pharmacokinetics and drug metabolism in animals and cells, medicinal chemistry of nucleosides, carbohydrates and antifolates, immunotherapy, immunosuppression, experimental chemotherapy, molecular pharmacology, endocrine pharmacology and metabolic regulators, hematology, preclinical and clinical pharmacology. Stipends average \$5000 per annum. Write to: **E. Mihich, M.D., Chairman, Graduate Pharmacology Program, Roswell Park Memorial Institute, Buffalo, N.Y. 14263. An Equal Opportunity Employer, M/F.**

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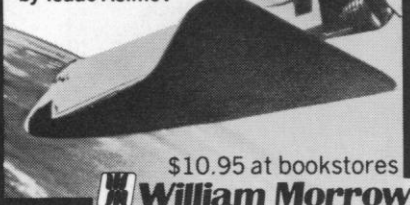
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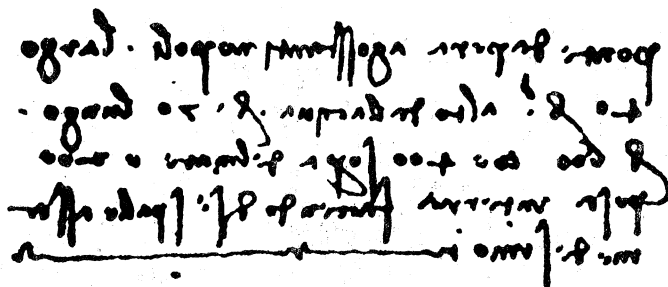
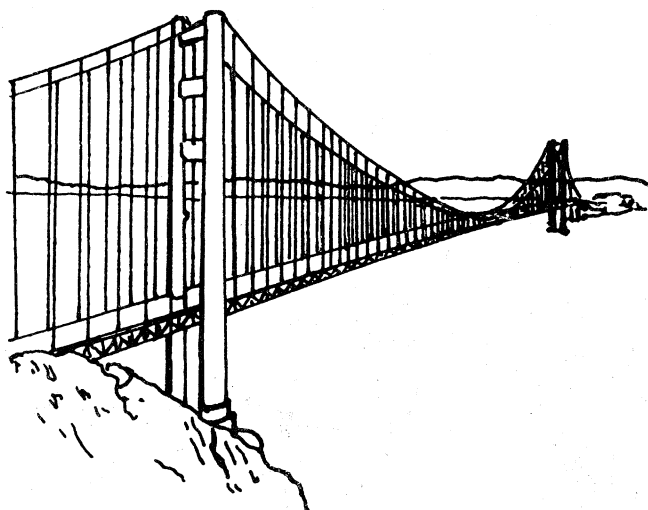
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1979 AAAS/ Westinghouse Science Writing Awards



Top: The Golden Gate, tallest bridge in the world. Bottom: an excerpt by Leonardo da Vinci describing a proposed bridge which would have been the world's largest at the time.

RULES

1) The aim of this competition is to encourage and recognize outstanding writing on the sciences and their engineering and technological application in newspapers and general circulation magazines. The following categories are not eligible: articles on the field of medicine, articles published originally in AAAS publications, articles by employees of the AAAS or Westinghouse Electric Corporation.

2) Each entrant in a newspaper award competition and each entrant in the magazine award competition may submit three entries.

3) An entry for a newspaper competition may be any of the following: a single story; a series of articles; or a group of three unrelated stories, articles, editorials, or columns published during the contest year. A magazine entry may be a single story or series published during the contest year.

4) A completed entry blank must be submitted together with six copies of each entry in the form of tear sheets, clippings, reprints, or syndicate copy (not over 8½" x 11"), showing name and date of the publication. ENTRIES MUST NOT BE ELABORATE.

5) Each entry must have been published in a newspaper or general circulation magazine within the United States during the contest year — 1 October 1978 through 30 September 1979. (In the case of a series, more than half of the articles comprising it must have been published during the contest year.) Date on the issue in which an article appeared will be considered as the date of publication. All entries must be postmarked on or before midnight, 15 October 1979.

6) Persons other than the author may submit entries in accordance with these rules. Entries will not be returned.

7) Winners of the 1978 awards are not eligible for the 1979 awards. Persons winning three times are no longer eligible.

8) The Judging Committee, whose decisions are final, will choose the winners. There are three awards of \$1000: for the winning entry in the over-100,000 daily circulation newspapers competition, for the winning entry in the under 100,000 circulation newspapers competition; and for the winning entry in the general circulation magazine competition. For award purposes, newspaper circulation will be sworn ABC daily circulation as of 30 September 1979. The Judging Committee may cite other entries for honorable mention.

9) The awards will be presented at the dinner meeting of the National Association of Science Writers, during the 1980 meeting of the American Association for the Advancement of Science in January, 1980. Travel and hotel expenses of the award winners will be paid. Entrants agree that, if they win, they will be present to receive their awards, unless prevented by circumstances beyond their control.

Grayce A. Finger

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