Personnel Placement

PHD opportunity in Biochemistry.

POSITIONS WANTED

**Ph.D. 1981. Background in Organic Chemistry and Microbiology, hands-on experience with modern instru-
ments.**

**Microbiology**

by M. Water.

x, pp., il. $42.50.


**The Transfer and Reproduction of Ideas and Material Culture.** Peter J. Hugill and Bruce Dickson, Eds. Taylor and Francis, College Station, 1988, xxii, 299 pp. $39.50. Based on a Conference, College Station, TX, Nov. 1984.


**The Weather of the 1780s Over Europe.** John Kingston. Cambridge University Press, New York, 1988, x, 166 pp., il. $70.


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**POSIITIONS WANTED

Immunologist, Ph.D. Experienced biotechnology R&D scientist with experience in hybridomas, monoclonal antibodies, cellular immunology, and cancer immu-
otherapy. Seeking position as supervisor of hybri-
doma/cell culture laboratory in biotechnology or pharma-
cutical laboratory. Box 163, SCIENCE.


**Retrovirologist, Ph.D.** AIDS researcher with publications and experience in HIV biology, antiviral agents, and some molecular biology. Seeks research/gov-
ernment position in Washington, D.C., area. Box 162, SCIENCE.

**ANALYTICAL CHEMISTRY. TENURE-TRACK FACULTY POSITION**

at the Department of Chemistry, San Diego State University. Applications are being accepted for a tenure-track position as assistant professor in analytical chemistry beginning fall 1989. Established and funded individuals will also be considered for ap-
pointment at a senior level. The successful candidate will have a Ph.D. in analytical chemistry and postdoctoral experience. We are particularly interested in individuals whose research complements that of existing faculty and who employ techniques in the areas of inorganic or organic chemistry. The successful applicant will be expected to develop a vigorous independent research program, sup-
port Ph.D. and M.S. students, and participate in the graduate and undergraduate teaching programs. Applications, including curriculum vitae, list of publications, summary of past accomplishments, a detailed plan of future research, and three letters of recommendation, should be sent to: The Search Committee Chair, Department of Chemistry, San Diego State University, San Diego, CA 92182 by 15 December 1988. San Diego State University is an Affirmative Action/Equal Opportunity Title IX Employer, and encourages applications from women and minorities.

**ANATOMIST—**The Department of Biological Anthropology and Anatomy, Duke University, invites applications for a tenure-track position beginning 1 August 1989. The level of the appointment will depend on the qualifications of the successful candidate, who will be expected to participate in teaching medical gross anatomy, contribute to graduate teaching, and conduct an active program of research into the morphology, behavior, adaptations, or evolution of primates or other mammals. Completed Ph.D. in anthropology with a strong emphasis in teaching gross anatomy are desirable. Send curriculum vitae and a list of three references by 31 December 1988 to: Search Committee, Department of Biological Anthropology and Anatomy, Box 3170, Duke Uni-
versity Medical Center, Durham, NC 27710.

Duke University is an Equal Opportunity/Affirmative Ac-

**POSITIONS OPEN

AERONAUTICAL ENGINEER. Require Ph.D. in aeronautics and 5 years of experience as a researcher and teacher in aeronautical engi-
neering. To conduct research in fluid dynamics with emphasis on computational fluid dynamics, grid gener-
ation, aerelasticity and structural dynamics. Full-time position with possibility of tenure. To: Mr. Judy Staudinger, G-8-1, Science Applications International Corporation, 1710 Goodridge Drive, McLean, VA 22102.

**ALL NATIONAL OPENINGS

MULTIPLE LEVELS

Recruiting for professional degrees in the following fields:

1) Pharmacokinetics—industrial or postdoctoral. Pre-clinical and clinical. Up to $65,000.

2) Pharmaceutical formulation scientists—solid and parenteral. Up to $60,000.

3) Clinical researchers and auditors—cardiovascular, infectious disease, and CNS drugs.

Call or send résumé to:

Guy Andrew
Central Cleaning, Inc.
10031 West Roosevelt Road
Westchester, IL 60153
Telephone: 512-450-2660
ASSISTANT PROFESSOR—The Department of Anatomy is seeking applications for a tenure-track assistant professor position in either histology or gross anatomy. A strong research program is essential. Research area is open, although preference will be given to candidates utilizing cellular or molecular approaches. Ph.D. or M.D. and equivalent degrees, at least 2 years of postdoctoral research, and a funded or fundable research program are required. Rank and salary are negotiable based on qualifications. Position available 1 July 1989. Submit curriculum vitae and names of three references by 15 January 1989 to: Dr. Richard E. Hamrick, Department of Biology, Tulane University, Medical School, 1430 Tulane Avenue, New Orleans, LA 70112. Tulane is an Equal Opportunity/Affirmative Action Employer. Applications from qualified women and minorities are encouraged.

ASSISTANT PROFESSOR—Tenure-track position in pharmacology. Responsibilities include teaching medical, dental, allied health and graduate students, and conducting independent, externally fundable research, preferably in neuroendocrine pharmacology, using cellular/molecular approaches. Qualifications: Ph.D. in pharmacology or the M.D. degree and 1 to 2 years of postdoctoral training and research experience. Application materials requested under Affirmative Action Employer. Send curriculum vitae, detailed description of academic goals, three references to: Dr. Ronald D. Walker, Department of Pharmacology and Toxicology, University of Oklahoma College of Medicine, Oklahoma City, OK 73190. The University of Oklahoma is an Equal Opportunity/Affirmative Action Employer.

ASSISTANT PROFESSOR—M. D. ANDERSON CANCER CENTER

A position is available immediately to join a laboratory investigating immunogenetics directed to human tumors. Applicants should have a recent Ph.D. in molecular biology with a strong background in recombinant DNA technology. Experience in making recombinant gene molecular biology is preferred. Projects will focus on development of recombinant antibodies and immunotoxins. Send curriculum vitae, thesis abstract, and names and addresses of three references to: Dr. Jack A. Roth, M. D. Anderson Hospital and Tumor Institute, Box 109, 1515 Holcombe Boulevard, Houston, TX 77030. An Equal Opportunity/Affirmative Action Employer.

ASSISTANT PROFESSOR—MOLECULAR-CELL VIROLOGY

The Department of Microbiology and the College of Pharmacy invites applications for a tenure-track assistant professor position beginning September 1989. The successful applicant will be expected to show a strong commitment to teaching and developing externally-funded research programs. Program-oriented teaching duties will be primarily in the area of biochemistry at both the undergraduate and graduate levels, but courses in cell and molecular biology at the undergraduate level are also being sought. Applicants should have a strong academic background in molecular biology, with a Ph.D. degree, postdoctoral experience, and a record of research achievements. Applicants should have a strong research potential in virology and experience in developing or directing research efforts into virological areas. Applications should include a current curriculum vitae, a summary of research interests, and arrange to have three letters of recommendation sent to: Dr. Sheldon S. York, Search Committee Chair, Department of Chemistry, University of Denver, Denver, CO 80208 by 1 December 1988. The University of Denver is an Affirmative Action institution.

Grinnell College. Tenure-track position as ASSISTANT PROFESSOR OF BIOLOGY beginning August 1989 in population and evolutionary biology, with proficiency in quantitative methods of the discipline and a commitment to field research. Teach advanced course in candidate's specialty with extensive use of field station and laboratory, sophomore course in population and evolutionary biology for majors, one required course, and a taught lecture-laboratory course in introductory biology, and supervise student research. Seeking candidates with postdoctoral research experience who plan active research programs for undergraduates. Start-up funds, excellent facilities, continuing support for research. Send curriculum vitae, three letters of recommendation and copies of publications to: Dr. Edward V. Cronicke, Chair, Department of Biology, Grinnell College, Grinnell, IA 50112-0800. Application deadline: 15 January 1989. Grinnell College is an Affirmative Action/Equal Opportunity Employer and especially seeks women and minority candidates.

ASSISTANT PROFESSOR—DEPARTMENT OF BIOCHEMISTRY AND MOLECULAR BIOLOGY

Search reopened. Applications are invited for a tenure-track position at the assistant professor level. Applicants should have two or more years of postdoctoral experience and should have the potential for establishing an independent research program in biochemistry and molecular biology. Interest and excellence in teaching and research are expected. The Medical Center includes the Schools of Dental, Medical, Health Professions, and Graduate Studies. The Department has Biotechnology and Tissue Culture Support Units. Competitive start-up and equipment funds will be provided. The application package consists of 14 faculty, with $1.5 million in annual research support. Interested individuals should send curriculum vitae with bibliography, short (three page) summary of planned research, and the names and addresses of three references to the following:

Robert Roskoski, Jr.
Head, Department of Biochemistry and Molecular Biology
Louisiana State University Medical Center
1100 Florida Avenue
New Orleans, LA 70119-2799
LSUMC is an Equal Employment Opportunity/Affirmative Action Employer.

ASSISTANT PROFESSOR—MARINE BIOLOGY: Tenure-track position beginning September 1989. Speciality to be physiological ecology or biomechanics of marine invertebrates. Research will be developing and extending a strong research program, participation in an introductory biology course, teaching a course in marine biology, and an advanced course based on one's specialty. Post-doctoral experience preferred. Please send curriculum vitae, statement of teaching and research interests, and three letters of reference to: Dr. John Howland, Biology Department, Bowdoin College, Brunswick, ME 04011 by 1 December 1988. Bowdoin College is committed to Equal Opportunity through Affirmative Action.

ASSISTANT PROFESSOR—PROKARYOTE MOLECULAR BIOLOGY: UNIVERSITY OF ILLINOIS COLLEGE OF MEDICINE IN CHICAGO

The Department of Microbiology and Immunology at the University of Illinois College of Medicine in Chicago is seeking to fill a position at the level of assistant professor (tenure-track; associate professor candidates will also be considered) in prokaryotic molecular biology, broadly defined. Candidates involved in protein engineering, genomics, RNA, or signal transduction will be considered. The College and Department have an outstanding research environment and are actively seeking to develop a strong independent research program with external funding. Applicants should have a Ph.D. degree, postdoctoral experience, and a record of research achievements. Applications should include a current curriculum vitae, a statement of research interests, and three letters of recommendation. The application package consists of 14 faculty, with $1.5 million in annual research support. The first series of candidates will be considered after 1 November 1988 and applications will be accepted until the position is filled. Starting date can be September, 1989 or thereafter.

Send applications to: Drs. A. M. Chakraborty, Philip Mannmanna, Simon Silver, and Karl Voita, Prokaryote Molecular Biology Search Committee, Department of Microbiology and Immunology, University of Illinois College of Medicine at Chicago, P.O. Box 6998, Chicago, IL 60680. The University of Illinois is an Affirmative Action/Equal Opportunity Employer.

ASSISTANT PROFESSOR—QUANTITATIVE ECOLOGIST

The Zoology Department at the University of Manitoba is seeking applications for a tenure-track position at the assistant professor level. Salary is dependent on qualifications and experience. A Ph.D. and postdoctoral experience in population dynamics and modeling is required and responsibilities include teaching and research. Applicants should submit curriculum vitae, description of research interests, and representative reprints by 15 January 1989 to: Dr. J. H. Gee, Zoology Department, University of Manitoba, Winnipeg, MB, Canada R3T 2N2. Both men and women are encouraged to apply. In accordance with Canadian Immigration legislation, priority will be given to Canadian citizens and permanent residents.

28 OCTOBER 1988 PERSONNEL PLACEMENT 611
ASSISTANT PROFESSOR VERTEBRATE BIOLOGY

The Department of Ecology and Evolutionary Biology at the University invites applications for a position for an anticipated tenure-track faculty position at the assistant professor level. A Ph.D. is required, with postdoctoral experience preferred. The successful candidate will be expected to design and direct a research program in functional morphology, vertebrate biomechanics, or developmental aspects of morphological evolution. Research interests should include comparative anatomy, morphology, and molecular biology. Send curriculum vitae, reprints, letter of interest, and names of three references to: Dr. T. L. Taigen, Vertebrate Biology Search Committee, Department of Ecology and Evolutionary Biology, University of Connecticut, Storrs, CT 06268. AFT.

THE UNIVERSITY OF BRITISH COLUMBIA
DEPARTMENT OF CHEMISTRY
ASSISTANT PROFESSORSHIP

The Department of Chemistry, University of British Columbia, invites applications for a tenure-track assistant professorship in organic chemistry, starting 1 July 1989. Preference is given to candidates in biochemistry or physical organic chemistry; however, outstanding candidates in related areas of organic chemistry will be considered. A Ph.D. and postdoctoral experience is required. The salary will be commensurate with education and experience.

The University of British Columbia offers Equal Opportunity for Employment to qualified female and male applicants. The position is subject to final budgetary approval and, in accordance with Canadian immigration requirements, priority will be given to Canadian citizens and permanent residents.

Applications consisting of curriculum vitae, list of publications, summary of research interests, a detailed research proposal, and the names and addresses of at least three references should be sent to: Larry Weiler Professor and Head Department of Chemistry University of British Columbia 2036 Main Mall Vancouver, British Columbia, Canada V6T 1Y6

Closing date for applications is 15 January 1989.

ASSISTANT PROFESSORS CELL BIOLOGY

The Division of Structural and Systems Biology, School of Biological Sciences at the University of Missouri-Kansas City, is seeking to fill several tenure-track positions at the assistant professor level. The successful candidate will be expected to develop an independent research program focused in the area of cell biology. Preferred research areas include regulation of cell growth, cell differentiation, subcellular organization, and molecular and cellular aspects of neuroscience. The successful candidate should have (i) at least 2 years of postdoctoral experience, (ii) demonstrated potential for or a proven record of extramural funding, and (iii) publications.

The Division has responsibilities in graduate studies and research within the School of Basic Life Sciences, which includes molecular and cellular biology and neuroscience. The successful candidate is expected to submit three or more letters of reference by 1 December 1988 to: Jeffrey D. Kocsis, Ph.D., Chairman, Neurology Search Committee, Department of Neurology, LCI 702, Yale Medical School, 333 Cedar Street, New Haven, CT 06510. An Equal Opportunity/Affirmative Action Employer.

BIOCHEMIST

University in Philadelphia, Pennsylvania has a job opening for a biochemist and/or molecular biologist in a research group studying molecular and/or cell biological interactions of blood coagulation. Applicant should have a Ph.D. in biochemistry with at least 2 years of postdoctoral experience in molecular or cell biology and cell biology. Familiarity with recombinant DNA techniques is desired. A non-tenured faculty position with full benefits and the rank of research assistant professor is available. Salary: $35,000 per year, full-time. Submit resume or curriculum vitae to: The Philadelphia Job Bank, 444 North 3rd Street, 3rd Floor, Philadelphia, PA 19123; refer to Job Order #4208509.

ASSOCIATE/ASSOCIATE PROFESSOR TULANE MEDICAL SCHOOL

The Department of Microbiology and Immunology invites applications at the associate or associate professor level. The successful applicant will be expected to establish an active research and teaching program in the area of immunology. Applications from females are especially encouraged. The position is subject to final budgetary approval and, in accordance with Canadian immigration requirements, priority will be given to Canadian citizens and permanent residents.

Applications should consist of letter of interest, a brief statement of research interests and/or a description of the type of research to be conducted, a detailed curriculum vitae, and the names and addresses of at least three references. Send applications to: Robert W. Gleason, Chairman, Department of Microbiology and Immunology, 1430 Tulane Avenue, New Orleans, LA 70112. Tulane University is an Equal Opportunity/Affirmative Action Employer.

Assistant/Associate Professor of Neurology and Neurosurgery

The Department of Neurology at the Yale School of Medicine seeks outstanding candidates with a Ph.D. or M.D. and with at least 2 years of postdoctoral training and experience (preferably in cellular or molecular neurosciences or related disciplines) to establish a research program in molecular neuroanatomy. The position will include training of medical students, graduate students, and postdoctoral fellows. Especially favorable opportunities exist in areas of molecular biology or biochemical pharmacology of ion channels and receptors, synaptic structure-function, cell-cell recognition, membrane structure-function, developmental neurobiology, and neurogenetics. Excellent facilities and support are available. Joint appointment may be arranged for appropriate candidate in basic science department.

Send curriculum vitae, reprints, letter of interest, and names of three or more references by 1 December 1988 to: Jeffrey D. Kocsis, Ph.D., Chairman, Neurology Search Committee, Department of Neurology, LCI 702, Yale Medical School, 333 Cedar Street, New Haven, CT 06510. An Equal Opportunity/Affirmative Action Employer.

BIOCHEMISTRY

The Department of Biochemistry at the University of Iowa seeks applications from candidates at all levels in the area of biochemistry. The successful candidate will be expected to establish an active research program and to develop a strong, competitive research group. Salary is dependent on qualifications and experience. Application materials should consist of a complete curriculum vitae, a brief statement of research interests and future plans, and a letter of no more than three pages of achievement and potential. Support for research will be competitive.

Applications should be sent to: Associate Professor and Chair, Department of Biochemistry, University of Iowa, Iowa City, IA 52242.
BIOCHEMIST

A small Midwest manufacturer of specialty ingredients for the animal feed industry seeks a biochemist to join its technical service group. The position involves traveling with the company’s sales force to affect technical training in the field, and to meet with prospective clients concerning use of the company’s products in animal feed. The individual will also be charged with the responsibility of coordinating field experiments with various universities, and writing of technical/sales bulletins. This position involves 70% travel in the United States and abroad. The successful candidate will possess excellent verbal and written communication skills and enjoy communicating science to the feed industry. The position requires a Ph.D. in biochemistry or related field. An excellent compensation package is offered.

Interested parties should submit their résumé to: Jed Harms, Executive Director of Sales and Marketing, Kemin Industries, Inc., P.O. Box 70, Des Moines, IA 50301.

An Equal Opportunity Employer.

BIOCHEMISTRY FACULTY POSITION

Full-time tenure-track teaching and research position in the Department of Physiological Chemistry, College of Medicine. Candidates should hold a Ph.D. or M.D., have a minimum of 2 years of postdoctoral research experience, and show clear potential to become a vital, independent research program. Send curriculum vitae, names of three references, and a statement of research plans to: Search Committee, Department of Physiological Chemistry, 5166 Graves Hall, The Ohio State University, Columbus, OH 43210. Applications should be received by 1 December 1988. OSU is an Equal Opportunity/Affirmative Action Employer, and we encourage applications from women and minority candidates.

BIOMEDICAL DIAGNOSTICS

FB Diagnostic Systems, Inc. (FBDS) is a new entry in the field of biomedical diagnostic instrumentation systems. Founded jointly by Behringwerke AG, and Polaroid Corporation, FBDS is a securely funded venture dedicated to bringing significant, novel products to the market place. As the company continues to grow and expand, there are opportunities available for experienced people to work in a very special start-up environment in the Boston area.

SCIENTIST, INFECTIOUS DISEASES

You will be responsible for the development of serological assays for the detection of antibodies to various viral agents. These assays will be based on a novel technique developed by FBDS. Supervision of assistant scientists and technicians, documentation, and technology transfer will be functions of the position.

The successful candidate will hold a Ph.D. degree in microbiology, biochemistry, or immunology with 3 to 5 years of experience in assay development from research stages through transfer to manufacturing. Experience with infectious disease serology assays such as HIV, Rubella, or other TORCH agents is highly desirable.

SCIENTIST, IMMUNOASSAY

You will be responsible for development of nonisotopic immunodiagnostic reagents including antibody purification, conjugation, assay optimization, correlation, cross-reactivity, precision, stability and interference studies. Additional duties will include supervision of laboratory staff, and interface with external groups responsible for 510(k) clearance, manufacturing, and quality control.

The successful candidate will have a Ph.D. or M.S. in a chemistry-related area with a minimum of 3 years of experience in immunodiagnostic research and development, including supervisory experience. Demonstrated successful product development leading to FDA approval is required. Please send curriculum vitae to: Human Resources, FB Diagnostic Systems, Inc., 151 University Avenue, Westwood, MA 02090.

DEPUTY DIVISION LEADERS

The Life Sciences Division at the Los Alamos National Laboratory has openings for two Deputy Division Leaders. The individuals will be responsible for assisting the Division Leader with leading, developing and coordinating the Division’s multidisciplinary research projects in physiology, biochemistry, biophysics, cellular and molecular genetics, and cell biology and with the administrative management of the Division. The successful candidates will support strong interactions and collaborations with academia and private industry. One Deputy Division Leader will be responsible for financial and personnel management and for extensive interaction with sponsoring agencies including DOE, DOD, NIH and the private sector. The second Deputy Division Leader will be responsible for research planning including responsibility for the field of chromosome structure and function.

The successful candidates must have a PhD or equivalent in molecular biology, genetics, biophysics or other related sciences. A strong research record in fields relevant to LS Division research activities is required. Demonstrated successful program development and management experience are desirable.

To apply, submit detailed curriculum vitae to: Richard O. Garcia (MS P280), Personnel Services Division 80556-CH, Los Alamos National Laboratory, Los Alamos, NM 87545.

Affirmative Action/Equal Opportunity Employer

U.S. Citizenship Required

University of California

Los Alamos

Plant Genetics Research at Pfizer Central Research, in conjunction with plant breeding stations worldwide, conducts research and development for DeKalb-Pfizer Genetics, a leading agricultural seed company. We invite applications from Ph.D.-level scientists to join our multidisciplinary research team focused on the genetic improvement of corn. You must be an accomplished scientist who has innovative research approaches and is able to work effectively as part of an established research team.

You will join a research group investigating the physiological and biochemical basis for superior agronomic performance of corn. The short-term goals of this program are to identify germplasm sources for important agronomic traits and to develop methodology for following these traits in segregating populations. Longer term objectives include understanding the biochemical and molecular basis of superior agronomic performance with the potential for genetically manipulating these traits. Existing programs include investigating the response of corn to environmental stresses. All work would closely integrate with our cell biology, tissue culture and molecular biology teams involved with the transformation and genetic manipulation of corn. If you have experience in plant physiology, biochemistry and genetics, you are encouraged to apply.

This position provides excellent opportunities for professional recognition and growth. We offer an excellent salary, benefit and relocation package plus an attractive southeastern Connecticut shore location. Please send resume and description of research accomplishments to: Dr. Jerry K. Larson, Manager of Employment, Pfizer Central Research, Eastern Point Road, Groton, CT 06340.
BIOCHEMISTRY—UNIVERSITY OF IOWA

The Department of Biochemistry in the College of Medicine at the University of Iowa seeks highly qualified applicants for faculty positions at the ASSISTANT PROFESSOR (tenure-track) level. Salaries are competitive, support for equipping laboratories and initiating research programs will be required, along with demonstrated research in any area of modern biochemistry will be considered, but preference will be given to applicants whose research interests involve the structure, function, and dynamics of macromolecules and membranes. In the final analysis, however, quality of research, not a specific research area, will be the prime criterion. Applications from women and minority candidates are encouraged.

Applicants must have a Ph.D., M.D. or equivalent foreign degree. Interested individuals should submit a letter of reference to: Dr. C. Harry Steen, Department of Biochemistry, University of Iowa, Iowa City, Iowa 52242. Applications will be accepted until the position is filled.

CELL-MOLECULAR BIOLOGIST

Applications are being accepted for an anticipated tenure-track position, starting August 1989, in cell and molecular biology. The Department of Biochemistry at the University of Kentucky seeks to fill a Postdoctoral position, nonmajors. Anatomy and Physiology of the Cell, are particularly interested in the appointment of a Ph.D. and postdoctoral experience is preferred. Salary commensurate with qualifications and experience.

Curriculum vitae, selected reprints, statements of research plans, and names of at least three references should be forwarded to: Dr. D. Hugues, Department of Physiology and Biophysics, University of Kentucky, Lexington, KY 40506. Applications will be accepted until the position is filled.

CELL REPLICATION TECHNOLOGY

A NASA/DSM company engaged in development and commercialization of novel, proprietary cell culture technology, seeks an IMMUNOLOGIST to fill new positions on its research team.

Cytotoxicity—The successful candidate for this position will have at least 2 years of experience at a prominent institution developing and conducting toxicological testing.

Long-term Cell Culture—This position requires extensive experience in bone marrow cell culture or hematology, experience with progenitor assays and flow cytometry will be a plus. Successful candidates will have strong records of scientific achievement and have displayed a capacity for timely completion of projects with a minimum of supervision.

The company is currently based in New York City area. In 1 year, the R&D facility will be divided between Vermont and San Antonio. Compensation is designed to attract the best candidates and will include base salary, incentives, and stock participation.

Applications are due on or before December 15, 1988. Submit curriculum vitae, support materials, and applications to: Dr. Michael J. Zaffaroni, DSM Biotechnology, P.O. Box 10170, New York, NY 10017-27

CANCER/CELL BIOLOGY POSITION AT THE UNIVERSITY OF ARIZONA

As part of a University-wide expansion of Biological Sciences and Biotechnology, the Department of Anatomy and the Arizona Cancer Center at the University of Arizona are seeking a new tenure-track faculty member. Preference will be given to individuals with research interests in the areas of cell biology, molecular biology or genetics. Applications are invited for a TENURE-TRACK POSITION to begin in August 1988. The successful candidate will be expected to establish a research program and make substantial progress towards promotion at the graduate level. Submit curriculum vitae, copies of transcripts, statement of teaching philosophy, and three letters of recommendation to: Dr. W. E. Early, Academic Dean, University of Arizona, Tucson, AZ 85724. Applications are due on or before December 15, 1988. Applications will be accepted until the position is filled.

Cellular/Molecular Immunologist

An outstanding opportunity is immediately available for a postdoctoral immunologist to join a multi-disciplinary research group studying the autoimmune response and immune tolerance in the mouse. The position is a research scientist position. Salary will be commensurate with qualifications and experience. Inquiries and applications should be forwarded to: Dr. B. A. Sehgal, Department of Microbiology, University of Arizona, Tucson, AZ 85724. Applications are due on or before December 15, 1988. Applications will be accepted until the position is filled.

CHAIR, DEPARTMENT OF ANATOMY

Morehouse School of Medicine (MSM) invites applications for the position of Chair of the Department of Anatomy to begin July 1989. The successful candidate will be an established investigator in a current field of research who has demonstrated the ability and commitment to teaching medical students. The successful candidate should have documented administrative and teaching experience. The position will be at the level of Professor, with a track record of excellence. Salary will be commensurate with qualifications and experience. Inquiries and applications should be sent to: Dr. D. L. B. Henry, Dean, Morehouse School of Medicine, Atlanta, GA 30319.

ELECTRON MICROSCOPIST/CELL BIOLOGIST—The Grace Cancer Drug Center at Roswell Park Memorial Institute is seeking a staff member to assume the responsibilities of the cell biology unit. This include (a) establishing an independent scientific program in the area of non-orthodox cytokin function and (b) interacting on a collaborative basis with other staff members in research problems related to ultrastructural localization of oncogene products and the interaction between cell surface and receptor proteins. The successful candidate will have a 2-year postdoctoral experience with expertise in various localizations at the cellular and subcellular level, immunoprecipitation, protein purification and monoclonal antibodies. Please send curriculum vitae to: Dr. E. J. Mahowald, Chairman, Cancer Drug Center, Roswell Park Memorial Institute, 325 Elm & Carlton Road, Buffalo, NY 14263. An Equal Opportunity Employer.
ONCOGENESIS

VIRUS-HOST CELL INTERACTIONS IN ONCOGENESIS

G. Miller, New Haven, CT

F. W. Warrington, Los Angeles, CA

P. V. Chantry, La Jolla, CA

D. Lowy, Bethesda, MD

REGULATION OF VIRAL GENE EXPRESSION IN LATELY INFECTED CELLS

J. F. K. Chatfield, Albuquerque, NM

E. Koff, Boston MA

A. Santagiusti, Lyon, France

P. Hruby, Bethesda, MD

MECHANISMS OF CELL TRANSFORMATION AND IMMORTALIZATION

L. L. Linnoila, Chicago, IL

B. Sugden, Madison, WI

E. Schwart, Heidelberg, FRG

P. Tollin, Paris, France

VIRUSES WITH INITIATOR-LIKE FUNCTIONS AND VIRUSES ACTING AS ANTICARCINOGENES

J. Rossana, Brussels, Belgium

R. H. F. Salter, Heidelberg, FRG

O. Moll, Heidelberg, FRG

E. Woomers, Brussels, Belgium

IMMUNOLOGICAL CONTROL OF DNA TUMOR VIRUS INFECTION AND ONCOGENESIS

G. Klein, Stockholm, Sweden

A. Rickman, Birmingham, UK

S. Jaffard, Warsaw, Poland

G. O. Miller, Heidelberg, FRG

INFORMATION AND APPLICATION FORMS

American Association for Cancer Research, Inc.

530 Walnut Street, 10th Floor

Philadelphia, PA 19106

(215) 440-2200

(215) 440-9300 (FAX)

Advance registration ends: DECEMBER 5, 1988

Attendence is limited; applications will be accepted on a first-come, first-served basis.

MEDICAL REVIEW

The Gillette Medical Evaluation Laboratories, a division of The Gillette Company, has an entry level opening in Medical Review to implement Company Medical/Legal procedures and applicable government regulations in order to ensure the distribution of safe consumer products. Work includes initiating medical/biological studies, some participation in industrial hygiene projects, and reviewing drug/device claims and adverse reaction claims. Ph.D. in Physiology, Pharmacology, Toxicology or related science is required. Experience in designing toxicological or clinical tests and evaluating data and a knowledge of industrial hygiene is desirable.

Gillette Medical Evaluation Laboratories is located in a new facility, just outside of Washington, D.C., in an area rich in government, private, and academic scientific laboratories. We offer excellent compensation, comprehensive benefits, and relocation assistance. For consideration, please send a confidential resume to:

Gillette Medical Evaluation Laboratories

401 Professional Drive

Gaithersburg, MD 20879

(301) 590-1508

Equal Opportunity Employer

Basic Research

Advanced Drug Delivery Systems

San Francisco Bay Area

Liposome Technology, Inc. (LTI), develops and manufactures innovative liposome based pharmaceutical products. These products are designed to improve efficacy, safety and convenience of pharmaceutical products. Our impressive technological breakthroughs have created exciting opportunities in our research headquarters for:

Postdoctoral Fellows

Immunochemistry

PhD level chemist with proven skills in monoclonal antibody technology including purification, enzymatic fragmentation, chemical modification and conjugation chemistry. Ability to develop sensitive and reliable research assays designed to assess binding affinity and specificity is also required.

Protein Biochemistry

PhD level biochemist with hands-on experience in formulating and handling bioactive peptides and proteins. The successful candidate will have proven ability to set up assays to measure biological activity of molecules (RIA, ELISA, bioassay) as well as in-depth understanding of peptide/protein stability issues. A strong background in the basic aspects of protein analytics is a must.

Molecular Biology/Virology

PhD level cell or molecular biologist with strong interest in retrovirology and biological/biopharmaceutical orientation. Hands-on experience in cell culture (including primary lymphocyte/monocyte lines) as well as in vitro and in vivo infectivity models is essential. Preference will be given to candidates with experience in assessing activity of antiviral agents.

LTI is committed to providing its employees with both sophisticated facilities and a competitive salary/benefit package. Postdoctoral positions last 1-2 years. For immediate consideration, please send your resume, indicating position of interest, to: LTI, Professional Staffing, Dept. HR/INST, 1050 Hamilton Court, Menlo Park, CA 94025. Principals only; please, no phone calls. LTI is an equal opportunity employer.
DEVELOPMENTAL BIOLOGIST DIVISION OF BIOLOGY AND MEDICINE UNIVERSITY OF IOWA

Developmental Biologists are invited to apply for a full-time tenure-track position at the level of assistant professor in the Section of Molecular, Cellular, and Developmental Biology. The position is in the Division of Biology and the Department of Molecular, Cell, and Developmental Biology. We seek an individual who will establish an active, independent research program focused on basic mechanisms of development and who will interact effectively with colleagues in other laboratories. The candidate must have a Ph.D. or equivalent degree and will be expected to be a faculty member in a team taught introductory course. A Ph.D. is required and the appointment will be at the assistant professor level. Women and minorities are especially encouraged to apply.

The Department of Carleton College invites applications for an assistant professor in the field of biochemistry. Teaching responsibilities will include biochemistry and associated laboratory, cell/molecular physiology, a semi-independent research project, and participation in a team-taught introductory course. A Ph.D. is required and the appointment will be at the assistant professor level. Women and minorities are especially encouraged to apply. Carleton College is an equal opportunity/Affirmative Action Employer.

ENZYMOLYIST / BIOCHEMIST / X-RAY CRYSTALLOGRAPHY POSTDOCTORAL FELLOWSHIP

Applications are available to join our ongoing research efforts examining the structural basis of enzyme specificity using a combination of biophysical and biochemical methods. Specific areas of interest include the kinetic mechanism of enzymes and the role of metal ions in catalysis and genetic analysis. A lytic protease provides an ideal model system for examining all aspects of specificity-structure-function relationships. Two X-ray crystallographers and three corresponding computer programs are available.

Applications are encouraged from individuals who have newly earned their Ph.D. or M.D. in chemistry, biochemistry, or a related discipline. Candidates who have published recently are encouraged to apply.

THE UNIVERSITY OF IOWA

The Joseph P. Kennedy, Jr. Mental Retardation Research Center and the Department of Pharmacology and Physiological Sciences are recruiting new FACULTY with research interests related to the molecular and cellular biology of the nervous system. Applicants should have postdoctoral research experience in one of the following areas: molecular and cellular neurobiology, gene expression analysis, and development of active research programs in molecular or developmental neuroscience. Candidates with relevant experience in these areas are encouraged to apply.

The Department of Carleton College invites applications for an assistant professor in the field of biochemistry. Teaching responsibilities will include biochemistry and associated laboratory, cell/molecular physiology, a semi-independent research project, and participation in a team-taught introductory course. A Ph.D. is required and the appointment will be at the assistant professor level. Women and minorities are especially encouraged to apply. Carleton College is an equal opportunity/Affirmative Action Employer.

FACULTY POSITION IN CHEMISTRY

The Chemistry Department at the University of California, Berkeley, solicits applications for positions as assistant professor of chemistry, beginning in the fall 1989. We have particular interest in applicants in inorganic, analytical, organic, and bio-organic chemistry. Creative and energetic individuals who show early promise in research and teaching are sought.

Applications are encouraged from individuals who have newly earned their Ph.D. or M.D. in chemistry, biochemistry, or a related discipline. Candidates who have published recently are encouraged to apply.

THE UNIVERSITY OF IOWA

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FACULTY POSITION IN BIOCHEMISTRY

The Department of Carleton College invites applications for an assistant professor in the field of biochemistry. Teaching responsibilities will include biochemistry and associated laboratory, cell/molecular physiology, a semi-independent research project, and participation in a team-taught introductory course. A Ph.D. is required and the appointment will be at the assistant professor level. Women and minorities are especially encouraged to apply. Carleton College is an equal opportunity/Affirmative Action Employer.
NATIONAL INSTITUTES OF HEALTH
PUBLIC HEALTH SERVICE
NATIONAL CANCER INSTITUTE
DIVISION OF CANCER TREATMENT
OFFICER OF THE DIRECTOR

Deputy Director, Medical Officer, GM-602-15

Salary: $58,135 - $72,500, depending upon qualifications. An additional bonus of up to $20,000 per year is available through the Physicians Comparability Allowance.

Applicants should be Board certified in a medical or surgical specialty, or in radiotherapy, and should possess comprehensive knowledge of the preclinical and clinical sciences relating to cancer. Additional experience as an independent clinical investigator welcomed. Applicants should have mastery of both oral and written communications.

Primary responsibilities of the Deputy Director involve assisting the Director in conceptualization, design and implementation of short- and long-range plans related to Divisional research programs of both an intramural and extramural (contract or grant-supported) nature. Deputy Director represents the Director and the DCT at various scientific meetings, international forums, and national media sessions; assists in the day-to-day management of the Division including establishment of operating plans and policies, budget development, and integration of Division program with other Divisions, Institutes, and organizations; suggests scientific areas to pursue based on review of proposed programs and the knowledge of current developments in the field of cancer treatment.

Point of Contact for Further Information: Mr. Lawrence J. Ray, Administrative Officer, Division of Cancer Treatment, National Cancer Institute, NII, 9000 Rockville Pike, Bldg. 31/Room 3450; Bethesda, Maryland 20892; Phone: (301) 496-2775.

Deadline for applications is Nov. 28, 1988. NIH is an Equal Opportunity Employer.

NEW ENGLAND BIOLABS

Postdoctoral Positions

New England Biolabs, a pioneer and leader in biotechnology, located twenty miles north of Boston, is seeking applicants for postdoctoral positions.

Nucleic Acid Enzymologist—To study endonuclease/DNA interactions. Candidate should have training in biochemistry/enzymology and/or molecular biology. Experience with overproduction and mutagenesis of proteins in bacterial systems would be helpful.

Molecular Genetist—Candidate should have strong background in molecular biology or bacterial genetics to study the interaction between restriction modification systems and the host cell. Knowledge of protein chemistry would be helpful.

Immunologist/Parasitologist—To study the cellular immune response to recombinant filarial antigens (Molecular Parasitology Division).

In addition to competitive salary, New England Biolabs offers a very generous fringe benefits package. Attendance at meetings, publication of research results and open communication with others are encouraged.

Candidates please submit curriculum vitae with three references to:

New England Biolabs, Inc.
Human Resources
32 Tozer Road
Beverly, MA 01915-5510

NEW ENGLAND BIOLABS

CENTER FOR GENETIC AND
BIOCHEMICAL ALTERATION OF
PLANT LIPIDS AND STARCH
Michigan State University

Postdoctoral Research Associateships
Graduate Assistantships

Michigan State University has received funding to establish a Plant Science Center under a program sponsored by USDA, NSF and DOE. Several positions are available in four established labs for scientists wishing advanced training in plant biochemistry and molecular biology. The core laboratories of this center are united in their interest in the fundamental processes of plant lipid and carbohydrate biosynthesis. The long-term goal of the center is to provide the basic knowledge which will permit genetic manipulation of crop species to produce new classes of industrially valuable lipids and carbohydrates.

For information about this program contact one of the following individuals at Michigan State University, East Lansing, MI 48824:

- John B. Ohrooge
  Dept. of Botany and Plant Pathology
  Biochemistry and molecular biology of plant lipid synthesis

- Jack Preiss
  Dept. of Biochemistry
  Biochemistry and molecular biology of plant and microbial carbohydrate synthesis

- Christopher R. Somerville
  Plant Research Laboratory and Dept. of Botany and Plant Pathology
  Biochemistry, genetics and molecular biology of plant lipid synthesis

- N. Edward Tolbert
  Dept. of Biochemistry
  Photosynthetic carbon metabolism, peroxisomes, glycerol metabolism.

Michigan State University is an equal opportunity employer.

Ph.D.-Molecular Biologist

Merck Sharp & Dohme Research Laboratories is currently offering an excellent career opportunity for a Ph.D. level Molecular Biologist in the Department of Cellular and Molecular Biology. Research in this department focuses on the isolation and expression of genes of potential pharmaceutical interest, in addition to the development of viral vectors. Past successes within this department have been the development of Reombivax®, the first licensed human vaccine derived by recombinant DNA technologies, and the use of live Varicella viruses as vectors. Another significant strength of this department is the application of recombinant yeast expression systems. Merck Sharp & Dohme Research Laboratories provide an environment that enhances scientific growth and productivity and encourages scientific publications and attendance at scientific meetings.

We are seeking a highly motivated individual with a desire for a position of visibility and leadership. Relevant interest and experience in full length cDNA library construction, new viral vector applications and protein structure-function relationships are desirable. A Ph.D. in Molecular Biology/Biochemistry/Microbiology or the equivalent is required with at least four years of significant postdoctoral and academic/industrial experience.

Excellent salary and benefits programs accompany this position at our modern research facilities in West Point, Pennsylvania.

Please send your resume, including the names of three professional references whom we may contact, and salary requirements in complete confidence to:

Manager, Personnel Relations, (W42-Z)

Merck Sharp & Dohme Research Laboratories

West Point, PA 19486
EEO/AA/VH/Employer
TRUSTEE PROFESSORSHIP IN COMPUTER SCIENCE SYSTEMS

Applications/recommendations are invited for this newly established Trustee Professorship in the Department of Computer and Information Science at the University of Pennsylvania. Strong interactions with the following departments and schools within the University provide an interdisciplinary matrix in which the Computer and Information Science Program thrives: Electrical Engineering, Chemical Engineering, and Mechanical Engineering (in the School of Engineering and Applied Science); Linguistics, Philosophy, Psychology, and Mathematics (in the School of Arts and Sciences under the auspices of the Cognitive Science Program and the Logic and Computation Group); the Wharton School and the Medical School.

The person appointed to the Trustee Professorship will be a distinguished scholar who has performed outstanding research of both theoretical and practical significance, especially in one or more of the areas of computer systems, computer architecture, parallel processing, programming languages and software engineering, among others. The incumbent should not only be able to exercise scholarly leadership in his/her areas of expertise, but should also be willing to interact with one or more of the department’s major interdisciplinary research activities.

Applications and nominations should be directed to Professor Aravind K. Joshi, Chair, Trustee Professorship Search Committee.

University of Pennsylvania
Department of Computer and Information Science
Philadelphia, PA 19104-6389
Equal Opp'ty/Affirmative Action Employer

ERI
CANCER BIOLOGIST / RESEARCH SCIENTIST (Ph.D.)

The growth of our research consulting firm has created an excellent opportunity for a CANCER BIOLOGIST to join a group of scientists in the design of experimental studies, in the preparation of literature reviews and in the conduct of health-risk assessments. The ideal candidate will possess a Ph.D. with 0-3 years postdoctoral experience in the cell and tissue biology of cancer (e.g. tumor promoters, growth factors, mutagenesis). Excellent analytical and communication skills are a must.

ERI is a rapidly-growing environmental research and information consulting firm, with offices in New York City, Watertown (Mass.) and Palo Alto (Calif.). We offer qualified candidates a challenging and rewarding work environment, top salaries commensurate with experience, and a full benefits package. This opening is at the New York City office. Please send Resume to:

Dr. William H. Bailey
Environmental Research Information, Inc.
575 Eighth Avenue
New York, N.Y. 10018-3011

ERI, Inc. is an Equal Opportunity Employer

Boehringer Ingelheim

BOEHRINGER INGELHEIM PHARMACEUTICALS, Inc., a major researcher, developer, manufacturer and marketer of prescription and over-the-counter drugs, currently has an opening in the Viral Drug Discovery Group at our Research and Development Center located in DANBURY, CONNECTICUT.

The successful candidate we seek should have an MS Degree or equivalent in Molecular Biology/Cell Biology with 3+ years laboratory experience. Requirements include an understanding of cell biology, immunochemical techniques, DNA purification/ligation and restriction enzyme analysis, purification of proteins in prokaryotic expression systems, gene cloning and gel electrophoresis lab systems.

Our state-of-the-art environment is combined with a highly competitive compensation/benefits package and the opportunity to have your contributions recognized.

Please send your resume and salary history to: Dept. PTG-1J, R&D, BOEHRINGER INGELHEIM PHARMACEUTICALS, Inc., 90 East Ridge, P.O. Box 368, Ridgefield, CT 06877. We are an equal opportunity employer m/f/h/v.

Building A NEW LAB?

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SCIENCE MAGAZINE
NEW LAB SERVICE DEPT.
1515 BROADWAY
NEW YORK, N.Y. 10036
DIRECTOR, NEUROTOXICOLOGY DIVISION

The U.S. Environmental Protection Agency (EPA) is seeking candidates for the position of Director, Neurotoxicology Division (NTD). This position is located in the Health Effects Research Laboratory (HERL), Research Triangle Park, NC. This is a permanent full-time position with a salary range of $54,907 to $71,377 per annum commensurate with qualifications.

HERL has a staff of about 325, over 100 of whom hold doctoral level degrees. The Laboratory has a diverse program which includes in vitro, animal, human clinical, and epidemiological research designed to address issues related to the health effects of air and water chemical and biological pollutants.

THE NTD is a multidisciplinary program organized into three branches: Behavioral Toxicology, Neurophysiology and Systems Engineering with a combined staff of 33. The Division is a focal point for planning, conducting, coordinating, supporting and evaluating a program aimed at studying the effects of chemical and/or physical agents on nervous system functions. The program includes both intramural investigations and extramural arrangements with universities, industry, private research institutions and other government agencies. The primary responsibilities of the Director are to direct and manage the program. This includes developing the program to meet the evolving needs of EPA, presenting the program, developing and managing budgets, supervising the staff, directing the progress of the program, and ensuring the scientific quality and productivity of the program.

Qualifications for the position include:

1. Advanced degree in Pharmacology, Toxicology, Psychology, Physiology or Biology with a minimum of six years of professional research experience in any of these areas. Applicable graduate coursework may be substituted for a portion of the required experience. This required education and experience must include a substantial background in neurotoxicology.
2. Experience in developing and managing budgets.
3. Experience as supervisor of a scientific/professional staff.
4. Applicants must have recognized scientific expertise as evidenced by multiple publications in peer-reviewed literature and invitations to participate in national and international meetings/panels.
5. Proven ability to provide leadership in directing the development and progress of a creative and effective research program in neurotoxicology.
6. U.S. Citizenship is required.

Forward curriculum vitae and names of three references prior to December 2, 1988 to:

Dr. Lawrence W. Reiter  
c/o Terri Burrell, HRMD (MO-29)  
U.S. Environmental Protection Agency  
Research Triangle Park, NC 27711

AN EQUAL OPPORTUNITY EMPLOYER

AAAS EXECUTIVE OFFICER

The American Association for the Advancement of Science (AAAS) is conducting a search to fill the position of Executive Officer. This position reports to the Chairman of the elected Board of Directors.

The Association, founded in 1848, is a 501C(3) not-for-profit organization. It has an individual international membership of 135,000 and is affiliated with nearly 300 scientific, engineering, and learned societies. The principal publication of AAAS is Science. The Executive Officer serves as publisher of this weekly international journal. A staff of some 230 people, headquartered in Washington, DC, handles the Association's publishing activities, as well as the planning and support of annual meetings and symposia, a range of special programs in science, education, international cooperation, science and public policy, opportunities in science, and science communication.

The Board of Directors is seeking a person of substantial experience and accomplishment. Appropriate background may be in scientific or engineering research, education, academic administration, scientific or technical society management and/or publishing, or public administration of research and development policy. Initiative, management skill, and knowledge of the interactions of science with public policy are salient requirements. Successful candidate must have 15 years of relevant experience in one or more of the above areas including 10 years of experience in planning, budgeting, and management. Demonstrable interest in the goals of the AAAS is essential. Salary is negotiable.

Letters of application, accompanied by curriculum vitae, should be addressed to:

Executive Officer Search Committee  
Chairman, Walter E. Massey,  
President, AAAS  
c/o William R. Engelman  
1333 H Street N.W., Washington, DC 20005  
Telephone: (202)326-6470

The closing date for receipt of applications is 9 December 1988.

AAAS, one of the largest general science organizations in the world, is an Equal Opportunity Employer.
FACULTY POSITIONS IN MOLECULAR ELECTROPHYSIOLOGY AND MOLECULAR GENETICS

Bruker Biospin will accept applications for tenured-track, faculty positions (two) at Birmingham School of Medicine. Applicants must have a Ph.D. degree in the appropriate field, such as biochemistry, pharmacology, or molecular biology. A strong commitment to both teaching and research is essential. Applicants should submit a curriculum vitae, which includes a statement of research interests and future goals, letters of recommendation, and a teaching statement. Applications are accepted on a rolling basis until the position is filled. Bruker Biospin is an Affirmative Action/Equal Opportunity Employer.

The Retrovirus Diseases Branch, Centers for Disease Control and Prevention invites applications for a position as MEDICAL EPIDEMIOLOGIST. Responsibilities include working on various aspects of the epidemiology of non-AIDS retroviruses including designing and conducting studies concerning the seroprevalence, transmission, and risk factors for HTLV-I/II infection. Job requirements include the ability to develop and implement research programs, train graduate students, and teach courses at the graduate and graduate levels. The Ph.D. is required and postdoctoral experience is preferred. Applicants should submit a current curriculum vitae, and three letters of reference to: Dr. J. Bobbi Lederman, Division of Viral and Rickettsial Diseases, Centers for Disease Control and Prevention, 1600 Clifton Road, Atlanta, GA 30333.

FACULTY POSITIONS IN VISION RESEARCH

The Department of Ophthalmology, School of Medicine, University of Alabama at Birmingham will accept applications for tenured-track, faculty positions (two) at the assistant professor level for the 1998–1999 academic year. Applicants should have a Ph.D. degree in the appropriate field and an interest in research in the areas of visual psychophysics and retinal pharmacology/anatomy. Successful candidates will maintain a research program with extramural grant support. Laboratory space, appropriate start-up support, and the facilities of UAB's interdepartmental Vision Science Research Center are available. Interested and qualified individuals should submit curriculum vitae, statement of research interests and three letters of reference to: Dr. Harold W. Sklar, Chairman, Department of Ophthalmology, School of Medicine/eye Foundation Hospital, University of Alabama at Birmingham, UAB Station, Birmingham, AL 35294. UAB is an Affirmative Action/Equal Opportunity Employer.

HUMAN NUTRITION AND FOOD SCIENCE

The Department of Nutrition of the Université de Montréal invites application for two FACULTY POSITIONS in the areas of Human Nutrition and Food Science. Applicants should have a Ph.D. and D.O., M.D. and Ph.D., with preferably postdoctoral training or experience in research. They will teach in the undergraduate and graduate programs, and are expected to develop independent research programs. Knowledge of French must be sufficient to enable candidates to teach in French within 2 years of the appointment. Submit curriculum vitae, statement of research plans, and three letters of reference to: Dr. Eugenio Rasio, Director, Equipe de recherche, Université de Montréal, P.O. Box 6128, Station A, Montréal, Qc, Canada, H3C 3J7. In accordance with Canadian laws, preference will be given to Canadians and landed immigrants.

INFECTIOUS DISEASES—The Division of Infectious Diseases, Department of Medicine, Stanford University School of Medicine invites applications for a position at the ASSISTANT PROFESSOR level. The successful candidate will be stationed at the Division of Infectious Diseases, Stanford University School of Medicine. Applicants should have an M.D. as well as an interest in research, and three letters of reference to: Dr. David J. Brenner, Director, Division of Infectious Diseases, Stanford University School of Medicine, 3601 Miranda Avenue, Palo Alto, CA 94304. Stanford University is committed to increasing representation of women and members of minority groups on its faculty and particularly encourages applications from such candidates.

MOLECULAR NEUROBIOLOGY RESEARCH

Postdoctoral research position available in molecular neurobiology to study voltage gated ion channels. A multidisciplinary approach including electrophysiology, protein purification and recombinant DNA techniques will be used. A highly motivated individual is required to work with other scientists and has a background in molecular biology or biochemistry. Please send resume and names of three references to: Dr. Amanda Quigley, Professional Employment Representative, Lederle Laboratories, American Cyanamid Company, Pearl River, NY 10965. Equal Opportunity Employer.

OCEANOGRAPHY: STAFF SCIENTIST position is available to teach oceanography in an innovative undergraduate program, sea Semester. Courses consist of 6 weeks of intensive classroom instruction followed by a 25 week research vessel cruise in the western North Pacific Ocean. Successful candidates will teach two courses per year, spending about 15 weeks per year at sea. Ph.D. in marine biology required with research experience in tropical marine biology. Deadline for receipt of application is 15 November 1988. Address to: Dr. Jerry Schenck, Sea Education Association, P.O. Box 6, Woods Hole, MA 02543. An Equal Opportunity Employer.

RESEARCH ASSOCIATE: Stanford Magnetic Resonance Laboratory has a position open for a research associate in NMR spectroscopy. The laboratory SMR systems include a Bruker AM-500, HX-360 and Bruker Biospec II Horizontal Imaging Spectrometer. Currently there is a project on the development of techniques for the spectroscopic study of biological molecules in living organisms in waters between the Caribbean and Newfoundland. Applicants must have a Ph.D. in chemistry or a closely related field. Contact: Dr. Oleg Jardetzky, Stanford Magnetic Resonance Laboratory, Stanford University, Stanford, CA 94305.

POSITIONS OPEN

LABORATORY RESEARCH SPECIALIST

Immediate opening in the section of Endocrinology and Metabolism in the ECU School of Medicine for a Research Specialist in research in diabetes. The candidate must have a Master's Degree in a related field and several years of research laboratory experience. Experience in protein chemistry, cell isolation, and tissue culture are required. Salary range: $22,704 to $36,336. Please submit detailed résumé to: Personnel Office, East Carolina University, Greenville, NC 27858. Telephone: 919-757-6552. Federal law requires proper documentation of identity and employability at the time of employment. It is requested that applications be submitted to: Office of Affirmative Action at East Carolina University is an Affirmative Action/Equal Employment Opportunity Employer, and encourages applications from qualified women and minorities.

The Retrovirus Diseases Branch, Centers for Disease Control and Prevention invites applications for a position as MEDICAL EPIDEMIOLOGIST. Responsibilities include working on various aspects of the epidemiology of non-AIDS retroviruses including designing and conducting studies concerning the seroprevalence, transmission, and risk factors for HTLV-I/II infection. Job requirements include the ability to develop and implement research programs, train graduate students, and teach courses at the graduate and graduate levels. The Ph.D. is required and postdoctoral experience is preferred. Applicants should submit a current curriculum vitae, and three letters of reference to: Dr. J. Bobbi Lederman, Division of Viral and Rickettsial Diseases, Centers for Disease Control and Prevention, 1600 Clifton Road, Atlanta, GA 30333. Telephone number: 404-639-3628. CDC is an Equal Opportunity Employer and provides for a smoke free work environment. Applications must be received within 3 weeks of publication date.

NMR SPECTROSCOPIST/POSTDOCTORAL RESEARCH AFFILIATE: Stanford Magnetic Resonance Laboratory has a position open for a postdoctoral researcher in NMR spectroscopy. The laboratory SMR systems include a Bruker AM-500, HX-360 and Bruker Biospec II Horizontal Imaging Spectrometer. Currently there is a project on the development of techniques for the spectroscopic study of biological molecules in living organisms in waters between the Caribbean and Newfoundland. Applicants must have a Ph.D. in chemistry or a closely related field. Contact: Dr. Oleg Jardetzky, Stanford Magnetic Resonance Laboratory, Stanford University, Stanford, CA 94305.

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PHARMACOLOGY, FACULTY POSITION

The Program in Physiology and Pharmacology at Ohio University seeks to fill a tenure-track pharmacology position at the associate professor level. A Ph.D. degree in pharmacology and 2 years of postdoctoral research experience is required. This position is a joint appointment in the College of Osteopathic Medicine and the Department of Zoological and Biological Sciences. Although preference may be given to candidates with training and expertise in neuropharmacology, candidates from other specialties are strongly encouraged to apply. The successful candidate is expected to develop a strong, independent and externally funded research program. Collaborative opportunities exist in several areas including: biochemical pharmacology particularly signal transduction and second messengers, receptor/coupling, cardio-vascular and autonomic pharmacology, endocrinology, molecular and cellular biology, smooth muscle physiology and neurobiology. The successful candidate is required to participate in teaching of third-year medical students, and to participate in training of graduate (M.S./Ph.D.) students in the Program in Physiology and Pharmacology and the Department of Zoological and Biomedical Sciences. The letter of application, curriculum vitae, description of current and past research, a summary of the most significant publications, and three letters of recommendation must be received by 15 December 1988. Address to: The Chairperson, Pharmacology Search Committee, Program in Physiology and Pharmacology, Room 228, Kirwan Hall, Ohio University, Athens, OH 45701.
**POSITIONS OPEN**

**NEUROBIOLOGY.** Franklin and Marshall College seeks a broadly trained neuroscientist for a new tenure-track position as ASSISTANT PROFESSOR, beginning 1 July 1989, to teach neuroscience and areas such as introductory biology or cell biology. A commitment to research, including work with undergraduates, is also essential. Candidates should bring a diversity of approaches to modern neurobiology. A research laboratory and start-up research support are available. This conductional liberal arts college has a strong program in the sciences. Send curriculum vitae, graduate and undergraduate transcripts, and statement of research interest by 5 December 1988, and arrange to have three letters of recommendation sent to: Dr. David King, Department of Biology, Franklin and Marshall College, Lancaster, PA 17604-3003. Women and members of minority groups are encouraged to apply. An Equal Opportunity Employer.

**NEUROSCIENTIST**

A basic research position in neurochemistry, neuroimmunology, neuropathology, or molecular neurobiology, is available at the R. S. Dow Neurological Sciences Institute of Good Samaritan Hospital and Medical Center. Persons with interests in neural regeneration, plasticity, development, transmitter or receptor function are especially encouraged to apply. Opportunities exist for interaction with basic research programs related to CNS function and with active clinical programs in neurosurgery and neurology. M.D. or Ph.D. and postdoctoral experience required. Substantial startup funds from the "Cooper Foundation for Neurologic Research" and "Louise" are available, with the expectation that continued funding will be from extramural grant support. Level of appointment will depend upon experience. Please submit resume and names of three references by 15 December 1988 to: Robert S. Dow, M.D./Ph.D., Chairman, Irving Spencer Cooper Laboratory Search Committee, Good Samaritan Hospital and Medical Center, 1015 NW 22nd Avenue, Portland, OR 97210. Good Samaritan Hospital and Medical Center is an Equal Opportunity Employer.

**OPTICAL PHYSICIST**

Faculty position for optical physicist to do research and teach in new Biomedical Imaging Division. Individual desired whose area of interest would complement those of existing members of an active and growing biomedical imaging group composed of biomedical researchers, mathematicians, computer scientists, and engineers. Possible areas of interest of applicant: confocal microscopy, high speed imaging, holography. Modern image processing facilities available to the candidate. Joint appointment at nearby engineering school also possible. Rank and salary are negotiable depending on background and experience of applicant. To apply send by 30 November 1988 curriculum vitae and names of three references to: Dr. Fredric S. Fay University of Massachusetts Medical Center 55 Lake Avenue North Worcester, MA 01655 University of Massachusetts Medical Center is an Equal Opportunity/Affirmative Action Employer.

**PHYSIOLOGIST**

Applications are invited for an anticipated tenure-track assistant professor position in the Department of Zoology and Physiology, Louisiana State University. The Department is seeking an individual with research competence in one of the following areas to complement its existing strengths in comparative physiology: neuroendocrine/neurosensorv physiology, comparative biochemistry and membrane biophysics. The successful candidate will be expected to establish a strong research program and continue to collaborate with graduate and undergraduate teaching, primarily in vertebrate systems physiology. Candidates must have the Ph.D. degree and postdoctoral training is preferred. Salary commensurate with qualifications and experience. Applicants should send curriculum vitae, a statement of research and teaching interests, and names of three references by 15 January 1989 to: Dr. Albert H. Meier, Department of Zoology and Physiology, Louisiana State University, Baton Rouge, LA 70803-1725 (Telephone: 504-388-1132 BITNET: ZOOOPHYS@LSUVM). LSU is an Equal Opportunity/Affirmative Action Employer.

**SCIENTIST**

At the forefront of biomedical research, Program Resources, Inc. (PRI) is paving the way for new programs and discoveries at the National Cancer Institute's Frederick Research Facility. We are seeking a uniquely skilled professional to direct our Peptide Synthesis Laboratory which supports the Synthetic Peptide Antigen Section of the National Institute of Allergy and Infectious Diseases. Expertise in peptide synthesis using solid phase techniques by automated t-BOC or FMOC chemistries; purification and protein sequencing/analysis is essential. Lab management experience desirable.

You'll work in a campus-like setting in Frederick, MD near Baltimore and Washington, D.C. Plus, PRI will reward your expertise with a salary commensurate with credentials and an attractive fringe benefits program, including insurance, relocation allowance, and a 401(K) savings plan. For consideration, please forward CV in confidence to Barbara Norton-Gill, Technical Recruiter.

**WORKSAFE AUSTRALIA**

**(NATIONAL OCCUPATIONAL HEALTH AND SAFETY COMMISSION) NATIONAL INSTITUTE OF OCCUPATIONAL HEALTH AND SAFETY**

The National Institute is seeking a suitably qualified person for appointment to the following position which is located in Sydney, Australia. The successful applicant may be offered an appropriate academic title at the University of Sydney.

**HEAD — ERGONOMICS UNIT**

$450,103-$466,831

The successful applicant will be responsible for the development and supervision of a unit which will undertake research, high level consultancy and teaching in the ergonomics field. Tasks will include the administration and overall development of the Unit; the development, oversight and co-ordination of research activities of the ergonomics laboratory, and of postgraduate teaching and curriculum development.

Applicants should possess a successful record of productive research and postgraduate qualifications in an appropriate discipline. Experience in graduate and postgraduate teaching, including supervision of PhD and Masters research is highly desirable.

Further information on this position is available from Dr E.A. Emmett, telephone Sydney (02) 265 7501.

Duty statement and selection criteria may be obtained from Mrs M. Carroccio, telephone Sydney (02) 265 7454.

To be eligible for appointment, applicants must hold Australian citizenship. However, applicants who are accepted for immigration and are willing to take out Australian citizenship may be appointed on probation pending their obtaining citizenship. In some circumstances, a fixed-term engagement of up to five years may be negotiated.

Applications, together with curriculum vitae giving details of qualifications, experience and publications, and the names of three referees should be sent by 3rd February, 1989, to: Executive Officer, Personnel Operations, Worksafe Australia, GPO Box 58, Sydney, NSW 2001, AUSTRALIA

AN EQUAL OPPORTUNITY EMPLOYER.
PLANT BIOCHEMIST

The Department of Botany, University of Florida invites applications for a tenure-track assistant professorship. The successful candidate will be expected to establish a vigorous research program that complements existing strengths in ecology, physiology and systematics. Teaching will include participation in undergraduate and graduate instruction, and supervision of research interests, and have letters from four referees sent to: Dr. J. Thomas Mullins, Search Committee Chair, Department of Botany, University of Florida, Gainesville, FL 32611 by 16 December 1988. The University of Florida is an Affirmative Action/Equal Opportunity Employer.

PLANT POPULATION BIOLOGIST/ECOLOGIST

The Department of Biology at Trinity University invites applications for a tenure-track assistant professor position beginning August 1989. Candidates must possess a Ph.D., and have interests in mechanisms-oriented plant population biology. Duties include the development of a lecture/laboratory course in the area of specialization, participation in core courses for majors, and academic advising. The successful candidate will also be expected to establish a vigorous research program in which undergraduate assistance is encouraged.

Applicants should send curriculum vitae, summary of research experience and names of three references to: Prof. I. M. Bellenger, Chair, Department of Biology, Trinity University, San Antonio, TX 78284. Application deadline is 17 November 1988. Women and minority candidates are strongly encouraged to apply.

Trinity University is an Equal Opportunity/Affirmative Action Employer.

PLANT SYSTEMATICS

The Rancho Santa Ana Botanic Garden invites applications for a staff position in systematic and evolutionary botany, available 1 September 1989. Individuals specializing in cytoecological systematics are encouraged to apply. The successful candidate will be expected to maintain a vigorous, independent research program and to participate in the graduate program in Botany. Applicants representing various levels of experience are welcome, corresponding with assistant professor to full professor levels, and if hired, will be appointed to the faculty of the Claremont Graduate School. Send curriculum vitae, statement of research interests, reprints, and at least three letters of reference by 15 December 1988 to: Search Committee, Rancho Santa Ana Botanic Garden, 1500 North College Avenue, Claremont, CA 91711.

POSTDOCTORAL AND/OR RESEARCH ASSOCIATE POSITIONS IN CELL BIOLOGY

Positions are available for persons interested in projects involving functional and molecular aspects of the cytoskeletal system of cells from different human tissues. Emphasis is being placed on studies of human diseases which are related to alterations in cytoskeletal or cell surface components. Applicants should possess a Ph.D. degree with experience in cell biology, biochemistry, and/or molecular biology.

Please send a recent curriculum vitae to: Dr. Robert D. Goldman, Department of Cell Biology and Anatomy, Northwestern University Medical School, 303 East Chicago Avenue, Chicago, IL 60611.

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

LADY DAVIS INSTITUTE POSTDOCTORAL FELLOWSHIPS

Postdoctoral positions available immediately for ongoing research programs investigating various molecular aspects of gene expression and the control of cell proliferation. Inquiries are encouraged in biochemistry, cell and molecular biology. Inquiries are to: Dr. Herbert M. Schulman, Acting Director, Lady Davis Institute for Medical Research, Sir Mortimer B. Davis Jewish General Hospital, 1175 Coleraine Avenue, Montreal, Quebec, Canada, H3T 1E2.

POSTDOCTORAL FELLOW WAKSMAN INSTITUTE/MERCK POSTDOCTORAL FELLOW. A fellowship provided by Merck, Inc. is available to support a postdoctoral position for study of microbial systems. Applicants can choose from several diverse areas of research: Protein-DNA interaction and transcription; signal transduction; studies of important microbial enzyme systems—Dr. A. Goldman. Diversity in nitrogen-fixing actinomycetes—Dr. H. and M. Lechevalier. Protein degradation in E. coli—Dr. L. Simon. DNA replication/mutagenesis—Dr. N. Sinha. Interested individuals should contact prospective mentors directly for discussion of possible projects and completion of application and three letters of recommendation. For consideration, send curriculum vitae to one of the Institute members above at: Waksman Institute, Rutgers University, P.O. Box 789, Piscataway, NJ 08855. Send curriculum vitae and three letters of reference to: Dr. Gerald M. Rosen, Department of Pharmacology and Toxicology, University of Maryland School of Pharmacy, 20 North Pine Street, Baltimore, MD 21201.

POSTDOCTORAL FELLOW IN ECOLOGY

Applications are solicited for an anticipated 2-year postdoctoral appointment beginning August 1989 with the Environmental Toxicology Program in aquatic systems or wetland ecosystems. The successful applicant will initiate an independent research program, participate in ongoing departmental research projects, and teach one course per year. Salary commensurate with qualifications and experience. Closing date is 15 January 1989. Please send curriculum vitae, a letter describing research interest and three letters of recommendation to: Dr. John Feegler, Department of Zoology and Physiology, Louisiana State University, Baton Rouge, LA 70803 (800) 504-388-1738 BITNET: ZOFLE @ LSUMVS. LSU is an Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL FELLOWSHIP IN SCIENCE

WAKSMAN INSTITUTE/MERCK POSTDOCTORAL FELLOW. A fellowship provided by Merck, Inc. is available to support a postdoctoral position for study of microbial systems. Applicants can choose from several diverse areas of research: Protein-DNA interaction and transcription; signal transduction; studies of important microbial enzyme systems—Dr. A. Goldman. Diversity in nitrogen-fixing actinomycetes—Dr. H. and M. Lechevalier. Protein degradation in E. coli—Dr. L. Simon. DNA replication/mutagenesis—Dr. N. Sinha. Interested individuals should contact prospective mentors directly for discussion of possible projects and completion of application and three letters of recommendation. For consideration, send curriculum vitae to one of the Institute members above at: Waksman Institute, Rutgers University, P.O. Box 789, Piscataway, NJ 08855. An Equal Opportunity/ Affirmative Action Employer.

POSTDOCTORAL FELLOW is available to study free radical processes in cells and the pathways by which these reactive species mediate cell injury. We seek individuals with training in cell biology, biochemistry and chemistry to join an active research program. Send curriculum vitae and references to: Dr. Gerald M. Rosen, Department of Pharmacology and Toxicology, University of Maryland School of Pharmacy, 20 North Pine Street, Baltimore, MD 21201.

POSTDOCTORAL POSITION available immediately for study of various aspects of DNA repair mechanisms and cellular recovery processes and their relationship to radiation resistance in cultured insect cells. Experience with or knowledge of recombinant DNA techniques is desirable. Experience with on isolation of genetic radiations associated with the pronoun radiosensitivity. Experience in modern molecular biology techniques desirable. Please submit curriculum vitae and names of three references to: Dr. T. M. Koval, Department of Oncology, Mayo Clinic, Rochester, MN 55905. An Equal Opportunity/ Affirmative Action Institution.

POSTDOCTORAL POSITION available immediately for study of various aspects of DNA repair mechanisms and cellular recovery processes and their relationship to radiation resistance in cultured insect cells. Experience with or knowledge of recombinant DNA techniques is desirable. Experience with on isolation of genetic radiations associated with the pronoun radiosensitivity. Experience in modern molecular biology techniques desirable. Please submit curriculum vitae and names of three references to: Dr. T. M. Koval, Department of Oncology, Mayo Clinic, Rochester, MN 55905. An Equal Opportunity/ Affirmative Action Institution.

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POSTDOCTORAL POSITION OPEN

POSTDOCTORAL POSITION UNIVERSITY OF PENNSYLVANIA MEDICAL SCHOOL

A position is available immediately to study the regulation of gene expression in growth factor stimulated immune cells. Primary work involves either GM-CSF or IL-2 stimulated myelopoiisis or IL-2 stimulated lymphocyte proliferation.

Send curriculum vitae and the names and addresses of three references to:

Dr. Michael B. Pryzorsky
Department of Pathology
University of Pennsylvania
Philadelphia, PA 19104-6082

POSTDOCTORAL POSITION available January 1989 for NIH-funded studies on the role of endogenous stress and energy in cardiac repair. The candidate should have a recent Ph.D. in pharmacology, biochemistry or related field. Experience in membrane isolation is desirable. Send curriculum vitae and two letters of recommendation to: James P. Kehrer, Ph.D., Division of Pharmacology, College of Pharmacy, The University of Texas at Austin, Austin, TX 78712. An Equal Opportunity Employer.

POSTDOCTORAL POSITION UNIVERSITY OF PENNSYLVANIA MEDICAL SCHOOL

A position is available immediately to study mechanisms of human oncone gene activation and function in lymphomas and lymphoid leukemias. Primary work involves novel oncongenes cloned from translocation breakpoints, and encompasses investigations of oncogene function through gene transfer, regulation of oncogene expression, and characterization of oncogenic proteins.

Send curriculum vitae and the names and addresses of three references to:

Dr. John C. Reed
Department of Pathology
School of Medicine
University of Pennsylvania
Philadelphia, PA 19104-6082

POSTDOCTORAL POSITION OPEN

POSTDOCTORAL POSITION in immunology, to study mechanisms of induction and maintenance of tolerance in T lymphocytes. Focus is on biochemical events responsible for tolerance in cloned T cell lines. Recent Ph.D. in immunology, biochemistry or molecular biology preferred. Send resume and names of three references to: Dr. Helen Quill, Department of Pathology, University of Pennsylvania School of Medicine, Philadelphia, PA 19104-6082. An Equal Opportunity Employer.

POSTDOCTORAL POSITION available immediately for molecular biologist to join research program studying mechanisms of antigen recognition, regulation, ontogeny, and effector properties of epithelial and mucosal T cells. Salary in accord with NIH guidelines; excellent benefits. Send curriculum vitae and names of three references to: Dr. John R. Klein, Department of Biological Science, The University of Tulsa, Tulsa, OK 74104. An Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL POSITION IN CELLULAR NEUROBIOLOGY

Position available immediately to study physiology and pharmacology of synaptic events in the spinal slice preparation and molecular mechanisms of tachykinin actions. Project involves the use of single-electrode voltage-clamping and whole-cell voltage-clamping with a patch electrode. Send curriculum vitae, statement of research interests, and names of three references to: Mirjana Randic, Department of Veterinary Physiology and Pharmacology, College of Veterinary Medicine, Iowa State University, Ames, IA 50010. Closing date: 15 January 1989.

POSTDOCTORAL POSITION IN NEUROBIOLOGY to study cell surface and extracellular matrix molecules that regulate cell-cell interactions in the developing mammalian nervous system [see Dev. Biol. 120, 65 (1987); BioEssays 9, 19 (1988)]. Send curriculum vitae and names of three references to: Dr. Gerald Schwartz, Department of Biochemistry, E. K. Shriver Center, 200 Trapelo Road, Waltham, MA 02254. An Equal Opportunity Employer.

POSTDOCTORAL POSITION available to study molecular structure-function relationships of the interaction of neurotrophic viruses and chemokines with the acetylcholine receptor and other neuronal receptors and to develop antiviral agents. Background desired in recombinant DNA techniques, cell biology, virology, or tissue culture. Beginning position available immediately. Send curriculum vitae and addresses of three references to: Dr. Thomas Louis, Department of Cell Biology, Yale University School of Medicine, 333 Cedar Street, P.O. Box 3333, New Haven, CT 06510. Yale University is an Equal Opportunity Employer.

POSTDOCTORAL POSITIONS available for two scientists interested in molecular biology, cell biology, and immunology of hepatoma or esophageal carcinoma. Salary: $25,000, plus free housing. Send curriculum vitae and three references to: Professor Chunting Chang, Graduate Institute of Microbiology and Immunology, National Yang-Ming Medical College, Shih-Pai, Taipei, Taiwan, Republic of China.

POSTDOCTORAL POSITIONS: We anticipate openings at various times during the coming year for several postdoctoral positions with members of the Graduate Group in Immunology at the University of Pennsylvania and other associated institutions. Research programs involve basic studies in cell, B-cell, and macrophage immunology, immunogenetics, viral immunology, and include disease-associated immune phenomena. Applicants must have U.S. citizens or permanent residents and be at recent degree recipients. For further information, please contact: Ms. Gail Heimberger, Administrative Assistant, Immunology Graduate Group, Box 6345, University of Pennsylvania, Philadelphia, PA 19104-6020. To apply, send current curriculum vitae and the names of three references, one of which must be your present research mentor, to: Dr. John J. Cebra, Department of Biology, University of Pennsylvania, Philadelphia, PA 19104-6018. The University of Pennsylvania is an Equal Opportunity Employer.

 dean

COLUMBIAN COLLEGE OF ARTS & SCIENCES
THE GEORGE WASHINGTON UNIVERSITY

Applications and nominations are invited for the position of Dean of Columbian College, the undergraduate liberal arts component of The George Washington University. The Dean is the principal administrative officer and educational leader of the college, which has an enrollment of about 3,300 in programs in arts, humanities, social sciences, sciences and mathematics. The George Washington University is a private, non-sectarian university with undergraduate, graduate and professional programs, located in one campus in the heart of Washington, D.C. The location provides unparalleled opportunities for programs which draw upon the resources of the nation’s capital.

Candidates should possess an earned doctorate or other appropriate terminal degree, significant administrative experience, and suitable qualifications for senior appointment in one of the departments or programs of the College. The Search Committee will seek evidence of a comprehensive vision for qualitative growth in liberal arts colleges and awareness of the specialized needs and opportunities afforded by our location.

• Salary: commensurate with experience and qualifications
• Preferred starting date: July 1, 1989
• Closing date for applications: Dec. 20, 1988

Send nomination or letter of application, résumé, and a short statement of personal educational goals and philosophy to:

Dr. Thomas J. G瘬sublin
Chair, Columbian College Search Committee
c/o Vice President for Academic Affairs
Rice Hall
The George Washington University
Washington, D.C. 20052

GW is an affirmative action, equal opportunity employer.

DIRECTOR POSTDOCTORAL PROGRAMS & GRADUATE EDUCATION POLICY

The OFFICE OF SCIENTIFIC AND ENGINEERING PERSONNEL of the NATIONAL RESEARCH COUNCIL is seeking candidates for Director of Administration. Candidates should have a Ph.D. or equivalent, preferably in physical or biological sciences, engineering or mathematics with a combination of at least 10 years of productive faculty teaching, research, and administrative experience at the graduate level, including supervision of senior scientists and staff and administration of program financing and budgets. The selected candidate will have responsibility for the direction of the Associatehip Programs, the salient activity of the Office of Scientific and Engineering Personnel (OESP) containing 25 contracts, totaling about $32m at 75 national laboratories, overseeing 500 postdoctoral appointments. The selected candidate will also serve as consultant to the executive director of OESP on graduate education policies, identifying and responding to issues of concern. This position requires experience working with a broad spectrum of the graduate community from university presidents to graduate and postgraduate students. Send resume in confidence to:

A. Fetcher, Executive Director
OFFICE OF SCIENTIFIC AND ENGINEERING PERSONNEL
2101 Constitution Avenue, N.W.
Washington, D.C. 20418

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International Opportunities for Ph.D. Life Scientists

Procter & Gamble has several entry-level openings for life scientists with Ph.D. or postdoctoral training in the following disciplines: Biochemistry, Microbiology, Pharmacy, Food Sciences, Biology, Pharmacology, Virology, Biostatistics, Immunology, Toxicology, Ecology, Physiology.

Functions for these disciplines include product development, toxicology, environmental sciences, regulatory affairs, and microbiology.

Openings are in Brussels, Belgium; Newcastle or Egham, England; Schwalbach (near Frankfurt) or Mainz, Germany; Osaka, Japan; Caracas, Venezuela, or Mexico City, Mexico. Applicants must be bilingual (including English). Not all discipline openings are available at all locations.

EMPLOYMENT IS CONTINGENT UPON POSSESSION OF APPROPRIATE CITIZENSHIP, IMMIGRATION VISA, OR WORK PERMIT FROM COUNTRIES INDICATED BELOW:

Belgium, England and Germany
Belgium, England

Japan

Mexico and Venezuela

Procter & Gamble is a multinational, technically-based corporation with over $19 billion in world-wide sales in the pharmaceutical, health care, beauty care, paper, household care, beverage, food, detergent, and fabric care consumer product categories. We have consumer brands in 38 product categories with sales in 140 countries. Support of research and product development reached $652 million last year.

We offer a stimulating environment for personal and professional growth in a strong and growing company. Salaries are highly competitive, coupled with an excellent benefits package including pension, health care, and paid relocation.

To apply, please send your resume and publication list to the address below.

Specify appropriate country(ies).

Dr. T. J. Logan
International Life Science Openings
The Procter & Gamble Company
Miami Valley Laboratories
P.O. Box 398707
Cincinnati, Ohio 45239-8707

Allow 8-10 weeks for response.

No agency referrals, please.
POSTDOCTORAL POSITION IN PHYSIOLOGY OF AGING available immediately for quantitative studies of dendritic structure and synaptic physiology in hippocampus in a mammalian model of aging. Study techniques include intracranial recording, intracellular dye marking of putative neuron types, and histological reconstruction of neurons. Experience in cellular neurophysiology desirable but will consider alternative backgrounds. Applicants should send a curriculum vitae to: D. Halushka, 112N, Veterans Administration Medical Center, One Veteran Drive, Minneapolis, MN 55417.

POSTDOCTORAL RESEARCH ASSOCIATE position available immediately. One position requires molecular biology experience to characterize genes encoding dechlorinating enzymes from a Flavobacterium sp. Second position requires a background in biochemistry with experience in enzyme immobilization techniques. Individuals will participate in a project to characterize receptors in situ using extracellular extracts. Salary is $21,000 per year for 2 years. Send curriculum vitae and names of three references to: Dr. Cindy S. Osier, Department of Biochemistry and Bacteriology, University of Idaho, Moscow, ID 83843. An Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL/RESEARCH ASSOCIATE to study the photoperiodic control of body and lipid mass and related parameters as ochratoxins in penned gallinaceous and melanosis. Studies include identification of CNS and peripheral target sites for melatonin's effects and fat-pad-specific changes in lipid metabolism. Experience in avian physiology, techniques for assessing monochromotony and/or tract tracing, RIA, or in vitro fat cell metabolism. Send curriculum vitae and names of three references to: Dr. I. Barlow. Barlow Neurological Institute, 350 West Thomas Road, Phoenix, AZ 85013. Equal Opportunity Employer.

POSTDOCTORAL RESEARCH POSITION—Postdoctoral training position in the molecular cell biology of clathrin-coated membranes. Focus is on the regulation of coat assembly in cells and on coat-membrane receptor interactions in endocytosis. Experience in protein chemistry or molecular biology preferred but not required. Send curriculum vitae and names of three references to: Dr. D. D. Dray, D. A. Perry, Barlow Neurological Institute, 350 West Thomas Road, Phoenix, AZ 85013. Equal Opportunity Employer.

Applications are invited for a PROFESSORSHIP IN MARINE GEOLOGY at the Institute of Geology, University of Aarhus, Denmark. The position is available from 1 March 1989. The Institute of Geology has been engaged in research within the field of marine geology, using geophysical, geochemical and sedimentological techniques. Research has mainly been related to Danish waters, but also to projects involving the ocean floor. The position involves research and applications related to raw materials and constructions. The Institute of Geology wants to strengthen the marine geology unit within the institute. Applicants with broadly based research fields who can coordinate geophysical, sedimentological and biostatigraphical efforts, as well as carrying out specialized research, are particularly preferred. The position includes participation in teaching at all levels.

Each applicant should submit curriculum vitae, a description of teaching experience, a list of publications, and three copies of publications to be considered in the evaluation. A statement of professional and research interests should be included.

According to Danish ministerial regulations, the selection committee's written evaluation of the applicant is sent to all applicants.

Applications should be addressed to: Dr. H. A. Rose, Department of the Queen of Denmark, and sent to: University of Aarhus, Nørre Voldgade 10, 8000 Aarhus C, Denmark. The position is open until February 1989. An Equal Opportunity Employer.

RESEARCH ASSISTANT PROFESSOR—The University of Pennsylvania Smell and Taste Research Center and the Department of Otorhinolaryngology and Human Communication seek a research assistant professor. Applicants should have at least 4 years of postdoctoral experience and have publications in the areas of radiation-induced taste aversion, animal taste psychophysics, and quantification of rod oromotor taste responses. Send curriculum vitae and letters of recommendation to: J. B. Snow, Jr., M.D., 3400 Spruce Street, Philadelphia, PA 19104. The University of Pennsylvania is an Equal Opportunity Employer.

RESEARCH ASSOCIATE/POSTDOCTORAL POSITION is available for a neuropharmacologist to participate in the design and viral regulation of nociceptive behavior. Applicants should have a Ph.D. or M.D. degree with research experience. The work involves neurochemical studies of nociceptive neurotransmitter systems and their interactions, involvement for microinjections, and the use of nociceptive testing paradigms. Send résumé to: David J. Smith, Ph.D. (Anesthesiology/Pharmacology), School of Medicine, West Virginia University, Health Sciences Center, Morgantown, WV 26505.

Send applications applications to University Health Laboratories, which is an Equal Opportunity/Employer/M/F/H.

RESEARCH SCIENTIST—We are seeking a qualified research scientist to design and participate in several drug discovery studies of potential utility for pain. The candidate will conduct pharmacokinetic studies to support drug discovery and/or toxicology; supervise personnel for bioanalytical analyses; and to publish results in scientific literature. Applicants must have a Ph.D. in either pharmaceutical chemistry or pharmacology, and 1 year of experience in drug disposition research of ocular drugs. Must demonstrate knowledge to apply pharmacokinetic principles to problem solving in drug disposition, and must be familiar with bioanalytical method development. Must possess excellent written and oral communication skills and have ability to work in multidisciplinary environment. Salary is $3,500 per month. Job site: Irvine, California. Send CV and three letters of reference to: Jobs, Touchstone, P.O. Box 9560, Sacramento, CA 95823-0560 not later than 12 November 1988.

RESEARCH SCIENTISTS
California State Department of Health Services, Division of Laboratories has positions available for the civil service classes of Research Scientist II and III (Environmental Biochemistry), and Research Scientist II (Atmospheric Chemistry). Selection of the candidates will be on the basis of a competitive examination, followed by job interviews. Candidates in environmental biochemistry should have M.S. or Ph.D. qualifications in environmental biochemistry techniques and knowledge of water quality methods. Experience in the area of water chemistry with emphasis on total organic analysis of natural waters (Level III), in environmental analysis with emphasis on methods development, sampling and analysis for non-conventional water quality assessment and environmental fate studies (Levels II and III). Candidates in atmospheric chemistry should demonstrate qualifications in modern techniques in environmental chemistry and in the use of instrumental techniques in air pollution studies. An Equal Opportunity Employer.

Level II is supervisory and requires leadership qualities associated with the management and evaluation of laboratory personnel and is responsible for the completion of research projects. Level III requires technical leadership and evaluation, and is responsible for the completion of research projects. Annual salary is $21,500 for Level II and $24,000 for Level III. An Equal Opportunity Employer.
OPPORTUNITIES IN BIOTECHNOLOGY

RepliGen Corporation is a leader in the application of Biotechnology to the health care and personal care markets. We are currently developing an AIDS vaccine and AIDS therapeutic products, products for the treatment of infectious diseases, cancer therapies, and novel biocompatible personal care products. We take pride in the high caliber of our scientific staff and our collaborations with major research institutions and corporate partners in Europe and the United States. The expansion of our effort has created the following opportunities:

Cell Culture Services
Manager, Cell Culture Services—A Ph.D. is preferred with 5+ years’ experience in tissue culture and laboratory management. We are looking for a Manager of Cell Culture Services to be responsible for coordinating mammalian cell culture, insect cell culture, and cell-based assays. Experience in large-scale production would be a plus.

Virology and Cell Biology
Research Scientist—This position requires a Ph.D. in Virology or other appropriate field with specialization in Virology. The scientist would be expected to direct a group studying HIV neutralization and cell surface interactions. Experience in human infectious agents is a must.
Research Associates/Technicians—BS/MS in a biological science and experience in virology and cell culture. Experience working with human pathogens would be helpful.

RepliGen Corporation offers a competitive salary, excellent benefits, and equity participation. Please submit a cover letter, resume, and references to Barbara Fleming, Professional Recruiter, RepliGen Corporation, One Kendall Square, Bldg. 700, Cambridge, MA 02139. An Equal Opportunity Employer.

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CIBA-GEIGY Pharmaceuticals Division’s 100 acre headquarters complex in Summit, New Jersey is engaged in research and development of drugs to treat cardiovascular and other disorders.

We seek a Ph.D in Biochemistry, Molecular Biology or a related field to participate in important work involving purification and molecular cloning of an enzyme of the cardiovascular system. To qualify for this challenging postdoctoral opportunity, you should also have training in one or more of the following areas: protein purification, enzymology, molecular cloning.

Salary and benefits are excellent, in a highly professional environment. Apply in confidence with resume and salary history to: CIBA-GEIGY Corporation, Staffing Center, Pharmaceuticals Division, Dept. ATR, 556 Morris Avenue, Summit, New Jersey 07901. We Are An Equal Opportunity Employer M/F/H/V.

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DIRECTOR, MOLECULAR VIROLOGY

Applicants should have a strong background in virology (preferably retroviruses) and molecular biology. Responsibilities include the management of government contracts and research relating to HIV and other viruses, and the development and execution of commercial assays.

SENIOR SCIENTIST, GENETIC TOXICOLOGY

Join our world-recognized Division of Genetic Toxicology. We are seeking a Study Director with extensive experience performing bacterial mutagenesis assays, particularly the Ames test. Responsibilities include oversight of a large technical staff, interaction with commercial clients and management of several government contracts. You will join our cytogenetics, mammalian mutagenesis and DNA damage/repair teams in coordinated efforts to provide both R&D and commercial testing services.

Prospective candidates should have excellent communication skills, both oral and written. Previous industrial experience is highly desirable.

Our state-of-the-art facility is located in the northern suburbs of Washington, D.C. We offer an excellent compensation, relocation and benefits package. Please join us as we continue to build on our 40-year commitment to high quality science. For immediate consideration send your resume to:

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Life Sciences Center
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EOE/m/f/h/v
**POSITIONS OPEN**

**RESEARCH TECHNICIAN:** To study the estrogen and progesterone receptors in surgical samples of patients suffering from breast cancer and normal donors. To investigate any correlation between the biochemical characteristics of these receptors with time point of menstrual cycle or age. B.S. in biology and M.S. in endocrinology. Must be able to handle homogenizers, centrifuges, ultracentrifuge, liquid scintillation counters, analytical balance, SDS-PAGE Power supply, light microscope, cryostat, darkroom and be fluent in following techniques: SDS-PAGE, DCC, CPG, Immunoblotting, and detection of radioactive bands by autoradiography. Thirteen to seventeen per year. Pay Range: $22,385 per year. Applicants send résumé to: Illinois Department of Employment Security, 401 South State Street—3 South, Chicago, IL 60606, Attention: Ms. Ninnesman. Reference #7362. An employer paid ad.

**SUMMER FACULTY POSITIONS IN SLSTP, A NASA PROJECT**

Four project counselor positions are open in the 1989 Space Life Science Training Program (SLSTP) to be held at the Kennedy Space Center, Florida. Project counselors will be involved in the implementation of the 6-week life support system training for undergraduate college students. All counselors must have a minimum of M.S. degree, preferably Ph.D. degree and some experience of teaching and research in life sciences and related fields. If interested, please send a letter of application, complete curriculum vitae, and three letters of recommendation before 31 December 1988.

**Program Director, SLSTP**

Florida State University, College of Pharmacy and Pharmaceutical Sciences

P.O. Box 36

Tallahassee, FL 32307

Telephone: 904-599-3636

**CALIFORNIA STATE UNIVERSITY, HAYWARD**

The Department of Biological Sciences invites applications for a full-time TENURE-TRACK position at assistant professor level, subject to budgetary approval, beginning September 1989. Ph.D. required. Expected to teach undergraduate lecture and laboratory, major and non-major courses; to teach graduate courses and conduct seminars; to develop a productive, independently funded research program and to direct graduate students in M.S. degree program.

**TERRESTRIAL AND ENSIMAL ECOLOGIST:** Teaching and research interests in population, community and ecosystem ecology with strong quantitative skills and field/lab experience. Applicants are expected to be active participants in environmental biology program, and are encouraged to make applications for funding. CSUH seeks to create a stimulating atmosphere for its ethnically diverse faculty and student population. Women and minorities are especially encouraged to apply. Interested individuals should send a copy of their curriculum vitae, a brief summary of their teaching and research goals, and arrange to have three letters of reference sent to: Chair, Department of Biological Sciences, California State University, Hayward, Hayward, CA 94542. To be assured of full consideration, applications should be received by 31 December 1988.

The University is an Equal Opportunity/Affirmative Action/Handicapped Employer.

University of California, Santa Barbara. TENURE-TRACK POSITION IN GEOGRAPHY-OCEANOGRAPHY, available 1 July 1989. Salary and rank are dependent upon qualifications; however, preference will be given to the assistant professor level. The Geography Department seeks applicants with background in physical oceanography and/or air-sea interaction with an interest in remote sensing. Ph.D. normally required at time of appointment, substantial qualifications in marine research, and a strong commitment to teaching and research. Submit résumé and names of three references to: Chair, Search Committee, Department of Geogra- phy, University of California, Santa Barbara, CA 93106. This search will continue until filled; first consideration will be given to applications received before 15 January 1989. Equal Opportunity/Affirmative Action Employer. Proof of U.S. citizenship or eligibility for U.S. employment will be required prior to employment (Immigration Reform and Control Act of 1986).

**TENURE-TRACK POSITIONS IN GEOGRAPHY-OCEANOGRAPHY**

The University of Arizona, Tucson, College of Science, Department of Geography, invites applications for two tenure-track positions at the assistant professor level. The University of Arizona is an equal opportunity employer and encourages applications from women and members of underrepresented groups. Minimum qualifications include a Ph.D. in Geography-Oceano-graphy, preferred completion of at least one year of employment as a junior faculty, and evidence of high-quality research and teaching in geography-ocenography. Applications should include a letter of interest, a detailed curriculum vitae, statements of teaching and research interests, and three letters of reference. Applications should be sent to: Chair, Search Committee, Department of Geography, University of Arizona, Tucson, Arizona 85721. Review of applications will begin on February 1, 1989, and continue until the positions are filled. The University of Arizona is an equal opportunity/affirmative action employer and is committed to cultural and community diversity. Women and minorities are particularly encouraged to apply.

**THE UNIVERSITY OF TULSA**

**TWO TENURE-TRACK POSITIONS**

1. **MOLECULAR BIOLOGY/IMMUNOLOGY**

2. **DEVELOPMENTAL GENETICS**

Two assistant/associate professor positions in The Biology, Molecular Biology and Biotechnol- ogy Program. Two abreast areas of research: 1) molecular biology of the immune response and 2) animal developmental genetics; however, those in related fields will also be considered. Applicants must have a Ph.D. degree, solid research experience, the ability to communicate with complex individuals in the role of the faculty, and the capacity to promote research and scholarship. The Vice President for Research and Scholarship is particularly eager to identify qualified women and minority candidates. The position will be available 1 July 1989. Nominations will be accepted until the position is filled. Screening will begin immediately. Please send nominations or applications to: Professor John F. Kennedy, Chair Search Committee, Vice President for Research, 103 Jessup Hall, The University of Iowa, Iowa City, IA 52242. The University of Iowa is an Equal Opportunity/Affirmative Action Employer.

**FOXTAIL CHASE CANCER CENTER**

**VIROLOGY FACULTY POSITIONS**

The basic science component of the Fox Chase Cancer Center is expanding its program in virology. Current programs include: William Mason (hepatica viruses), Ann Marie Skalka (retroviruses), and John Taylor (hepatitis, delta virus and retroviruses). Such Com- mittee invites applications from new and established investigators to set up independent research programs. All positions are tenured or in tenure-track. Please send letter of interest and curriculum vitae to: Dr. John Taylor, Virology Committee Chair, Fox Chase Cancer Center, 7701 Burholme Avenue, Philadelphia, PA 19111. The Center is an Equal Employment Opportunity Employer.
THE UNIVERSITY OF ADELAIDE
SOUTH AUSTRALIA

invites applications from both women and men for appointment as:

DIRECTOR
OF THE WAITE AGRICULTURAL RESEARCH INSTITUTE

(Ref: 1112) to succeed Professor J.P. Quirk A.O., F.T.S., F.A.A. who retires in 1989.

The Waite Agricultural Research Institute is the premier agricultural research institute in Australia. In addition to conducting research in agriculture and allied subjects, the Institute provides facilities for teaching in the degree of B.Agr.Sc. and has a strong postgraduate school which draws students from a wide range of countries.

The Director will be the research director and executive officer of the Institute.

The University seeks a person with a distinguished record of scientific achievement, outstanding leadership qualities and administrative ability of a high order.

The appointment as Director of the Institute is for an initial term of seven ears and otherwise in accordance with the University Statute on the Waite Institute.

FURTHER INFORMATION about the duties of the position and the general conditions of appointment may be obtained from the Registrar at the University.

SALARY per annum: Professorial salary plus 25% (presently at AUS$76,938), plus other benefits.

APPLICATIONS, IN DUPLICATE, quoting reference number 1112 and giving full personal particulars (including whether candidates hold Australian permanent residency status), details of academic qualifications and names and addresses of three referees should reach The Registrar at the University of Adelaide, GPO Box 498, Adelaide, South Australia, 5001, Telex UNIVAD AA 89141/Fax no. (618) 224 9494 not later than 16 December, 1988.

The University reserves the right to make enquiries of any person regarding any candidate's suitability for appointment, not to make an appointment or to appoint by invitation.

THE UNIVERSITY OF ADELAIDE IS AN EQUAL OPPORTUNITY EMPLOYER

Woods Hole Oceanographic Institution
Postdoctoral Fellowships

Ocean Science and Engineering

Applications are invited from new or recent doctorates in science or engineering with interests in physical oceanography, meteorology, marine chemistry, marine geology and geophysics, biological oceanography, or oceanographic engineering. Recipients of awards are selected on a competitive basis, with primary emphasis placed on research promise.

Marine Policy and Ocean Management

Research fellowships are offered to individuals in the social sciences, law, the humanities, or natural sciences to apply their training to problems or issues that involve the use of the oceans. Presently research follows thematic areas such as Marine Science and Public Policy; Ocean Jurisdictions, Law of the Sea, and International Relations; Development and Management of Ocean Resources; and Area-wide Planning and Management. Emphasis is placed on the economics of ocean space and on the role of science in governmental and industrial decision making. Topics of special current interest include marine biological diversity, the quality of marine habitats and marine reserves, and the impacts of sea-level change. Other research interests are also appropriate.

Fellowships are awarded for one year with a stipend of $28,500 plus group health insurance and a modest research budget. Recipients are encouraged to pursue their own research interests independently or in association with resident staff. Completed applications must be received by January 15, 1989 for 1989-90 awards. Awards will be announced in March. Write for application forms to: Dean of Graduate Studies, P.O. Box S, Woods Hole Oceanographic Institution, Woods Hole, Massachusetts 02543

Equal Opportunity/Affirmative Action Institution

Damon Biotech, Inc., a leading biotechnology company engaged in developing and marketing biological products, is offering the following positions:

SUPERVISOR OF LARGE SCALE CELL CULTURE

Supervise large scale mammalian cell culture department in GMP Pilot Lab. Experience in biochemical engineering, cell biology, tissue culture and with GMPs for manufacturing of biological products.

GROUP LEADER, MEDIA PREPARATION

Responsible for supervising large scale media and solutions group in a GMP Pilot Lab. Experience with GMP requirements for solution preparation and ability to supervise diverse activities and support manufacturing.

DIRECTOR OF QUALITY CONTROL AND QUALITY ASSURANCE

Manage all aspects of QC/QA for a biological production group including testing, GMP compliance, validation, product release, and FDA inspections. Position requires 5 to 10 years experience with a pharmaceutical or biological manufacturer in the QC/QA function.

Interested applicants should send a resume to Damon Biotech, Inc., Human Resources, 119 Fourth Avenue, Needham Heights MA 02194. We are an equal opportunity employer m/f/h/v.

TUMOR METASTASIS RESEARCH

We have an immediate need for a Research Biologist to become part of our innovative tumor biology group. This position provides an opportunity to do fundamental research on the biochemical and cell biological basis of tumor metastases with an ultimate goal to identify novel antimitastatic agents. The applicant should have a Ph.D. in biological sciences with 1-2 years of post doctoral experience in tumor metastasis research. The ability of the applicant to work independently as demonstrated by publication records and to work well as part of a group is essential.

Merrell Dow Research Institute is located in suburban Cincinnati. We offer excellent compensation, comprehensive benefits and relocation assistance. If you are interested in fundamental research and would like to work for a rapidly growing research institute, please send your curriculum vitae with names of three references to:

Merrell Dow Personnel Services Manager
Refer to Job Code SPS

MERRELL DOW RESEARCH INSTITUTE
2110 East Galbraith Road
Cincinnati, OH 45215
Equal Opportunity Employer M/F/H/V
VIROLOGIST
DIVISION OF BIOLOGY AND MEDICINE
BOSTON UNIVERSITY

Applications are invited for a full-time, tenure-track position in animal virology at the rank of assistant professor in the Section of Molecular, Cell and Developmental Biology commencing in the fall of 1989. We seek an individual with at least 2 years of postdoctoral training, who will establish an active, independent research program and who will interact effectively with other members of the Graduate Program in Molecular, Cell Biology and Biochemistry. While we are interested in individuals working with retroviruses, final selection will be for candidates of outstanding ability regardless of the system studied. The successful candidate will participate in teaching virology to medical, graduate and undergraduate students. Send curriculum vitae, recent reprints, summary of research interests, and three letters of recommendation forwarded no later than 15 December 1988 to: Dr. Peter R. Shank, Division of Biology and Medicine, Brown University, Providence, RI 02912. FAX: 401-863-3700. Brown University is an Equal Opportunity/Affirmative Action Employer.

Viage, Inc. is an expanding biopharmaceutical company developing novel drugs and diagnostics based on gene therapy. We are seeking a VIROLOGIST, IMMUNOLOGIST for a senior project management position with expertise in growing and characterizing retroviruses. Candidates should have a Ph.D., M.D. or equivalent plus several years of research and project management experience. This is a challenging position in a dynamic environment with good opportunity for growth and advancement. Please send resume/cv and vitae with three references to:

Douglas Jolly, Ph.D.
Director of Research
Viage, Inc.
11076 Roseville Street
San Diego, CA 92121

FELLOWSHIPS

GRADUATE FELLOWSHIPS available from the American Psychological Association's Minority Fellowship Program/Neuroscience. The Program aims to increase the number of racial and ethnic minorities who complete the doctorate in the neuroscience field. The Program accepts applications each fall (deadline 15 January) from students who plan to pursue the Ph.D. at any full–time doctoral program listed in Neuroscience Training Programs in North America. The federally funded program provides awards for up to 3 years contingent on satisfactory academic progress in the doctoral program. For more information, write:
The American Psychological Association
Minority Fellowship Program/Neuroscience
1200 17th Street, N.W.
Washington, D.C. 20036
Telephone: 202-943-7761

POSTDOCTORAL FELLOWSHIPS in ENVI-
RONMENTAL TOXICOLOGY are available at Northwestern University Medical School (NIH training grant). The preceptors and their research areas are as follows: (Mechanisms of action of insecticides on neuronal ion channels by patch clamp); Philip Iannaccone (Effects of carcinogens on mammalian embryo); Michael Morin (Antineoplastic agents: SADH and therapy studies); Hideo Yamauchi (Mechanisms of action); Ryoichi Oyama (Mechanisms of urinary bladder cancer); M. Sambasiva Rao (Pancreatic carcinoma); Janardan K. Reddy (Role of pancreas and liver peroxisome proliferators); Dante G. Scarpelli (Mechanisms of pancreatic carcinoma); Jerome Seidenfeld (Mechanisms of pancreatic cancer); Jerome Seidenfeld (Panhypertension: Bioavailability inhibitors and role in growth regulation); Dennis Solt (Carcinogen modification of epithelial cells); Chau H. Wu (Action of environmental toxins on nerve membrane); and many others. The applicants must be U.S. citizens or permanent residents. Send a letter stating a specific area of interest, curriculum vitae, and three references to: Dr. N. Narashashi, Program Director, Department of Pharmacology, Northwestern University Medical School, 303 East Chicago Avenue, Chicago, IL 60611. Telephone: 312-928-8284. An Affirmative Action/Equal Opportunity Employer.

FELLOWSHIPS

FELLOWSHIPS are available for pre– and postdoc-
 toral study in the PHARMACOLOGY GRADUATE
PROGRAM of the University of Miami, Roswell Park Memorial Institute, a Graduate Division of the State University of New York at Buffalo. Stipends and tuition waivers are available for eligible candidates. The program offers diverse training related to the pharma-
cological, molecular and biochemical basis for drug action with emphasis on cancer therapeutics. Specific areas include: cellular differentiation and growth regulation; cellular ultrastructure; oncogenes; drug resistance; immunopharmacology and metabolic regulators; inhibi-
 tors or activators of growth factors, protein and membrane components; pharmacokinetics and drug metabolism; mechanisms of carcinogenesis; genetic basis for drug action; preclinical and clinical pharmacology; medicinal chemistry and toxicology. The citizens and permanent residents may send applications to:

E. Miehls, M.D., Chairman
Graduate Pharmacology Program
Roswell Park Memorial Institute
Grace Cancer Drug Center
Elm and Carlton Streets
Buffalo, NY 14263
Please include curriculum vitae and indicate two refer-

ASSISTANTSHIPS

The newly formed Institute for Biotechnology at Texas Tech University announces the creation of RESEARCH ASSISTANTSHIPS for graduate study leading to the Ph.D. in the areas of biochemistry, cell biology, genetics, microbiology, or molecular biol-
ogy. Beginning in the spring of 1989, a total of five assistantships in the amount of $12,000 per year are being offered by the Departments of Biological Sciences, Chemistry and Biochemistry, and Agronomy, Horticulture and Entomology. Interested applicants should apply for admission into any one of the three departments before 1 December 1988. Those students seeking admission for spring 1989 are encouraged to apply as soon as possible. For more information, contact: Dr. David B. Knaff, Director, Institute for Biotechnology, P.O. Box 4260, Texas Tech University, Lubbock, TX 79409.

GRANTS

PARKINSON RESEARCH GRANTS
OUTSIDE UNIVERSITY OF MIAMI
1 JUNE 1989—31 MAY 1990

The National Parkinson Foundation, of Miami, Flori-
da, invites the submission of grant proposals for Parkin-
on research. A total of $200,000 will be made available to support basic bench research on Parkinson's Disease. None of the proposals will be competitive. The award for a single grant will not exceed $40,000. The application deadline is 1 February 1989; grant starting date will be 1 June 1989. It is required that proposed studies specifically focus on mechanisms in-
volved in the disease process and that they have the potential of finding the cause and prevention of Parkin-
on's Disease. Proposals will be reviewed by the National Parkinson Foundation Scientific Advisory Board. To obtain submission information, please write to:

National Parkinson Foundation, Inc.
146 South Biscayne Boulevard
1501 N. W. 9th Avenue
Miami, FL 33136

PROGRAM

CAREER CHANGE OPPORTUNITY

This unique program offers the candidate with an earned doctorate in the sciences the opportunity to
obtain the Doctor of Optometry (O.D.) degree in two calendar years. Employment opportunities exist in pri-
vate practice, industry, education and research. Contact:
Dr. D. Chasoncy, Program Director, Accelerated Program,
The College of Optometry, Room S, 424 Beacon Street, Boston, MA 02115.

RESEARCH GRANTS

RESEARCH INQUIRIES INVITED

The Smokeless Tobacco Research Council, Inc. invites inquiries regarding grant applications. The Council sponsors independent research into ques-
tions of smokeless tobacco and health. Research support is through a program of grants-in-aid.

Grant applications are evaluated by the Scientific Advisory Board to the Council and will be judged solely on the basis of scientific merit and relevance. Deadlines for submission of grant applications are 31 December of each year and March 30 for a January funding. Address inquiries or requests for applications to: The Smokeless Tobacco Research Council, Inc., 1220 Lexington Avenue, New York, NY 10170. Telephone: 212-697-3485.

TRAINING PROGRAM

PREDOCTORAL AND POSTDOCTORAL TRAINING IN HUMAN CANCER BIOLOGY AT THE UNIVERSITY OF WISCONSIN

Applications are invited for graduate study toward the Ph.D. degree and for postdoctoral Trainingships in Hu-
man Cancer Biology. Financial assistance will be awarded on a competitive basis. Postdoctoral Traineeships are restricted to U.S. citizens and those with permanent U.S. residence visas. Research areas include experimental pharmacology and cancer endocrinology, biological response modifiers and cancer immunology, biology and biochemistry of carcinogenesis and tumor promotion, and radiation biology. The Department of Human Oncology is the core department of the UWCCC, an NCI-designated comprehensive cancer center.

For information, write:
Chairman, Graduate Steering Committee
Department of Human Oncology
K4/50 UW Clinical Cancer Center
600 Highland Avenue
Madison, WI 53792

The University of Wisconsin—Madison is an Equal Opportu-
nity/Affirmative Action Employer.

Opportunities for scientific TRAINING in trauma-
related subjects with a multidisciplinary group, funded by NIH training grant. Tenure 2 years, possible exten-
tion to three. U.S. citizenship, 3 years of surgical train-
ing, and commitment to trauma research required. Lim-
ited number of non-surgeon Ph.D.'s. Emphasis is on ac-
quisition of scientific skills. Write: Trauma Training, University of California Medical Center, 839 HSE, San Francisco, CA 94143-0522. UCI is an Equal Opportunity/Affirmative Action Employer and encourages ap-
plications from women and minorities.

MARKETPLACE

ANTI-VIRAL DRUG TESTING FOR HIV
Pan-Data Systems, Inc. (PDS), offers assistance in drug testing using isolated mono-
cyte/macrophage cultures and PHA-stimulated leucocytes.

Contact Dr. John Dahlberg, Director of Re-
search, for more information:
13 Taft Court, Rockville, Md. 20850
Telephone: (301) 294-2297 fax (301) 294-0809
1 (800) 543-8659

Circle No. 159 on Readers' Service Card
Here’s the solution to ten common HPLC problems

1. Eliminate the nuisance and expense of continuous sparging. This gradient programmer degasses the mobile phase as it’s blended.
2. The single-piston pump won’t choke on bubbles and requires less maintenance.
3. Programmable flow control cuts separation and equilibration times, saves solvents, and keeps the pump from running dry.
4. Available inert construction is biocompatible and impervious to buffers.
5. Self-diagnostics in the pump and gradient programmer speed maintenance and cut downtime.
6. You probably won’t need an auxiliary detector for special jobs. This variable gives great results even on carbohydrates at 190-200 nm and other samples such as metalloproteins at up to 750 nm. Slip-in flow cells adapt it for microbore LC, prep LC, and SFC.
7. You don’t have to be a computer enthusiast to quickly master the optional data management software.
8. You get a three-year, parts-and-labor warranty with no sneaky hidden costs.
9. The price won’t leave you gasping. A complete gradient system costs about the same as many competing isocratic systems lacking these features.
10. Best of all, technical support is a close as your phone. Call us toll-free for immediate, straightforward answers on applications or troubleshooting. There’s never a charge or time limit.

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Cryopreparation, ultramicrotomy’s latest innovation, offers a new level of specimen integrity - both morphological and immunological. Reichert-Jung’s newest generation of cryopreparation technology is designed to take full advantage of this revolutionary technique. For instance, our contact fixation has a unique “soft touch” - an advanced, pneumatically controlled contact system to avoid artifacts like impact damage and bounce crystallization, commonly caused by crude “slamming”. Reichert-Jung, world leader in microtomy, supports a full range of cryopreparation technology, including contact and immersion fixation, substitution and sectioning. Cryopreparation. One more reason why we’re recognized as today’s resource for tomorrow’s innovation.