SCIENCES publishes each Friday, except the last Friday of the year. An issue is selected. Preference dates for personnel advertising is accepted only with the understanding that the advertisement will be distributed during the time of application. Personnel advertising is conducted through the following: SCIENCES has reserved the right, in its discretion, to decline to publish advertisements submitted to it.

LINES CLASSIFIED ADVERTISEMENTS

DEADLINE: Thursday, 10 a.m., 2 weeks prior to issue date. Advertising is accepted only in writing. A change of address must be at least 2 weeks after date of publication.

CLASSIFICATION: SCIENCES publishes line classified ads under the following headings: Positions Open, Employment Agencies, Positions Wanted, Courses and Training, Meetings, Announcements, and Marketplace. All classified classifications will be subject to the discretion of the publisher; however, SCIENCES reserves the right to decline classified advertisements in which it believes they may be misleading.

SUBMISSION: Prepare double-spaced typewritten ad copy on a standard 8 1/2 x 11-inch sheet. Include name and telephone number of contact person, desired date(s) of publication, and billing information, including any special billing requests. Mail or fax to:

SCIENCES Classified Advertising
1333 H Street, NW, Room 940
Washington, DC 20005
Telephone: 202-326-6655
Fax: 202-682-0818

RATES: $41 per line, $410 minimum per week. One line equals 52 characters and spaces; centered headings equal 52 characters and spaces, and center margins must be at least 3/4 inch. No agency commission for ads less than 40 lines. To ESTIMATE ad costs, structure ad copy on a single line, include any desired heading on 32-character lines. Each line of heading, one line text, and one line total must be counted as one full line, and all partial lines (including centered reply information, if desired) are counted as full lines. Multiply total number of lines x $41 = approximate cost of ad, per week. This is an approximate cost. ONLY. Allow for variation between estimated lines and actual typset lines and resulting final cost. Purchase orders must allow for some degree of flexibility and final determination. SCIENCE cannot provide proofs of typset ads.

PREPAYMENT DISCOUNT: 2% cash discount is granted to all prepaid line ads. Prepayment in U.S. dollars by check drawn on U.S. banks is required for all foreign ads.

CREDIT CARDS: SCIENCE accepts MasterCard and VISA. Both personal and corporate cards may be used. The prepayment discount does not apply to credit card ads.

BOXES AND LOGOS: Any 1-column line classified ad can be boxed and/or published with logo. No extra production charge to box logo. For boxed ads, one line equals 48 characters and spaces; two additional lines will be added to cost of ad to allow for top and bottom rules. Logos are billed according to number of lines needed to accommodate logo.

CANCELLATION: Deadline for cancellations is 10 a.m. Tuesday, 10 days prior to issue date.

DISPLAY PERSONAL ADVERTISEMENTS

For rates, deadlines, and information about fractional display ads (1/4 page and larger) and all Marketplace listings of employment and services: Scharer Associates, Inc.
1056 Broadway
New York, NY 10036
Telephone: 212-730-7500
Fax: 212-382-3725

RESPONSES TO EMPLOYMENT ADS

Applicants should send Positions Open ads carefully in order to submit all required material when responding, and should provide their contact for any stated deadline or receipt of applications. SCIENCES encourages applicants to follow the employment laws, equal employment action, non-discriminatory policies, visa requirements, and cultural differences in contacting to employ. To reply to a blind box ad, address correspondence to:

Box (give number)

SCIENCES Classified Advertising
1333 H Street, NW, Room 940
Washington, DC 20005

POSITIONS OPEN

ASSISTANT PROFESSOR

Additional M.D. needed to help with care of children, adolescents, and young adults with insulin-dependent diabetes mellitus. Must have training in endocrine-diabetes with comprehensive medical care, or equivalent, and be licensed to practice in Colorado. Contact: Peter Chase, M.D., University of Colorado Health Sciences Center, 4200 East 9th Avenue, Box B140, Denver, CO 80262.

ASSISTANT PROFESSOR CHEMICAL SENSES

The Department of Cellular and Structural Biology at the University of Colorado School of Medicine invites applications for a tenure-track position at the level of ASSISTANT PROFESSOR. Preference will be given to applicants with research interests in the cell or molecular biology of chemical sensory systems, and experience research in smell or taste with emphasis on ongoing research at the Rocky Mountain Taste and Smell Center. In addition to pursuing an active research program, the successful applicant will be required to participate in the departmental teaching program. Applicants should have a Ph.D. or M.D. and appropriate postdoctoral training. Review of applications begins May 1991. Please send curriculum vitae, a two-page description of current and future research, and the names and addresses of three references to: Dr. Thomas Finger, University of Colorado, Cellular and Structural Biology, B-111, University of Colorado School of Medicine, 4200 East Ninth Avenue, Denver, CO 80262. Affirmative Action/Equal Opportunity Employer.

ASSISTANT PROFESSOR

MOLECULAR POPULATION GENETICIST

UNIVERSITY OF CALIFORNIA—RIVERSIDE

Applications are invited for a tenure-track faculty position in population genetics at the University of California, Riverside, beginning July 1991, in population genetics at the assistant professor level. We are looking for an individual whose research involves empirical studies of evolutionary processes at the genome level. The individual will be expected to establish a strong research program, teach graduate and undergraduate courses, and participate in the evolution biology and the genetics graduate program.

Applicants should submit curriculum vitae, a statement of research interest and arrangement, and three letters of recommendation to: Chair, Molecular Population Geneticist Search Committee, Department of Biology, University of California, Riverside, CA 92521. Applications should be received by 1 March 1991, to be assured consideration.

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

The Department of Neurology at the University of Michigan is seeking applications for the following positions:

- A tenure-track, University of Michigan and Veteran's Administration Hospital-based faculty position at the ASSISTANT PROFESSOR level. Applicants should be Board-certified or eligible in neurology with basic science and/or clinical interests in dementia.
- Three tenure-track, university-based faculty positions at the ASSISTANT PROFESSOR level, one or more of which will be focused in basic science or clinical research areas relevant to the dementias. Applicants should be Board-certified or eligible in neurology with basic science interests.
- Two clinical-track, university-based faculty positions at the INSTRUCTOR OR ASSISTANT PROFESSOR level. Applicants should be Board-certified or eligible in neurology with clinical or community interests.
- One two-year faculty position at the LEVEL 1687. The University of Michigan is an Equal Opportunity/Affirmative Action Employer and encourages women and minorities to apply.

Applications are invited for a regular faculty appointment at the ASSISTANT PROFESSOR level. Occidental College expects excellence in both teaching and research. The successful applicant will be expected to assume introductory-level physiology, and non-majors course and a course in histology, as well as maintain an active research program that involves students. Send curriculum vitae, statement of teaching and research interests, letter of recommendation to: Professor Jon E. Keeley, Department of Biology, Occidental College, Los Angeles, CA 90041 by 31 January 1991. Occidental College is an Equal Opportunity/Affirmative Action Employer and encourages women and minorities to apply.

BIOLOGY/MOLECULAR BIOLOGY. The Department of Biology, University of Central Arkansas, invites applications for a tenure-track ASSISTANT PROFESSOR position (molecular biology) to begin 15 August 1991. Recent Ph.D.'s or postdoctorates are encouraged to apply. Preference will be given to candidates conducting molecular biology, preferably in endocrinology or neurobiology. The individual will teach introductory and upper division courses in the specialty, as well as biology for non-science majors. Submit curriculum vitae, copies of transcripts, a brief description of teaching philosophy and research career goals, and three letters of recommendation to: Dr. Edward Griffin, Chairman, Department of Biology, University of Central Arkansas, Conway, AR 72032. Telephone: 501-450-3146. The deadline for receipt of applications is 1 March 1991. University of Central Arkansas is an Equal Opportunity Employer.

COGNITIVE NEUROSCIENTIST. Bates College. Beginning in fall of 1991, a new tenure-track position at the INSTRUCTOR OR ASSISTANT PROFESSOR level, for a person in any area of cognitive neuroscience. Responsibilities include teaching a basic course in cognitive neuroscience, research methodology, and advanced courses in areas capitalizing on the applicant's research. Preference will be given to candidates whose research interests include behavioral/cognitive neuroscience. Applicants are expected to have a strong commitment to undergraduate instruction and research interests appropriate to the position. Faculty committees and other faculty members are encouraged to apply. Deadline for applications: 1 February 1991. Applications will be reviewed when received. Submit curriculum vitae, a statement of research interests, and three references to: Richard V. Wagner, Department of Psychology, Bates College, Lewiston, ME 04240. An Equal Opportunity/Affirmative Action Employer.

MOLECULAR BIOLOGIST. Millersville University. Tenure-track position beginning fall of 1991 at the rank of ASSISTANT PROFESSOR. Responsibilities include teaching upper level courses such as molecular genetics and molecular biology, as well as an introductory biology course. The successful candidate will be expected to make a significant commitment to teaching and maintaining an active research program involving undergraduates required. Must have practical experience in one or more of the following: PCR-related techniques, RFLP analysis, DNA cloning, and sequencing. Opportunity to participate in the growth of a recently developed molecular biology/biotechnology program for undergraduates. Completed applications received by 15 February 1991 will receive full consideration. Applications received after that date may also be considered. Send curriculum vitae, copies of transcripts, and three current letters of recommendation to: Chair, Molecular Biology Search Committee, Department of Biology, 50111, Millersville University, Millersville, PA 17551. An Equal Opportunity/Affirmative Action Employer.

NEUROANATOMY, ASSISTANT PROFESSOR, tenure-track position beginning fall of 1991. Ph.D. required. An active neuroanatomy research program which will involve undergraduate and graduate students is expected. Teaching assignments will include introductory biology, electron microscopy, and a specialty course. Submit curriculum vitae, statement of research plans, and three letters of recommendation to: Dr. Alan Muchinski, Chair, Department of Biology, California State University, Los Angeles, Los Angeles, CA 90032-8201. Deadline 25 February 1991 or until filled. An Equal Opportunity/Affirmative Action/Handicapped Employer.

INSECT BIOLOGIST

Applications are invited for a regular faculty appointment at the ASSISTANT PROFESSOR level. Occidental College expects excellence in both teaching and research. The successful applicant will receive excellent resources and opportunities for professional development and can expect appropriate start-up funds. Applicants will be expected to teach introductory-level physiology, a non-majors course and a course in histology, as well as maintain an active research program that involves students. Send curriculum vitae, statement of teaching and research interests, letter of recommendation to: Professor Jon E. Keeley, Department of Biology, Occidental College, Los Angeles, CA 90041 by 31 January 1991. Occidental College is an Equal Opportunity/Affirmative Action Employer and encourages women and minorities to apply.
POSITIONS OPEN

ASSISTANT PROFESSOR, MOLECULAR BIOLOGY OF BONE AND CARTILAGE. University of Rochester School of Medicine and Dentistry, Rochester, New York.
The Department of Orthopedics invites applications for a tenure-track position. A doctoral degree and at least 3 years of postdoctoral experience in molecular biology, with expertise in cartilage biology, is required. The successful candidate will be expected to develop a research program that investigates the molecular mechanisms underlying cartilage development, turnover, and metabolism. Applications must be submitted by January 21, 2002 to: Chair, Committee on Search for Orthopedics, Department of Orthopedics, Box 665, Rochester, NY 14642-6650.

CELL PHYSIOLOGIST. The Department of Physiology, University of Minnesota Duluth, School of Medicine, invites applications for a state-funded, tenure-track position at the ASSISTANT PROFESSOR rank. Applicants must have Ph.D., M.D., or D.V.M. degree and 2 years of postdoctoral training in applying recombinant DNA technology to problems in mammalian physiology. Research on the physiology of the vertebrate heart is preferred. The successful candidate will be expected to develop an externally funded research program and to teach courses in physiology at the University level and in the University's postgraduate programs. Send curriculum vitae, statement of research interests and goals, and three letters of recommendation by 4 March 1991 to: Dr. David E. Mohrman, Physiology Department, Box 221, University of Minnesota, Duluth, MN 55812. The University of Minnesota is an Equal Opportunity/Employer and specifically encourages applications from women and minorities.

ECOLOGICAL/EVOLUTIONARY GENETICIST

The Department of Biological Sciences at the University of Illinois at Chicago (UIC) is seeking an ASSISTANT PROFESSOR in ecological and evolutionary genetics to begin fall 1991. Qualifications include Ph.D. degree, teaching experience, and a strong research program in evolutionary biology. The successful candidate will be expected to develop a research program and teach courses in both evolutionary and general biology. Send curriculum vitae, statement of teaching and research interests, and three letters of recommendation by 1 March to: Dr. John A. Emlen, Department of Biological Sciences, University of Illinois, Chicago, IL 60680. A position is reserved until filled. UIC is an Affirmative Action/Equal Opportunity Employer.

THE SECTION ON MEDICAL INFORMATICS, Stanford University School of Medicine, invites applications for a position at the ASSISTANT PROFESSOR level in the Division of General Internal Medicine, Department of Medicine. Candidates should have formal advanced training in medical informatics and should have excellent teaching abilities. We are particularly interested in candidates who have had experience applying computer science methods in the field of molecular biology. The successful candidate will assist with teaching and administration in a graduate degree program in medical informatics, and with developing the new institutional medical informatics program at Stanford. Although applicants may come from a variety of backgrounds, applications from clinicians, particularly interested in developing and using computer methods, are especially encouraged. The final job description will be flexible, depending on the skills and positions available at the time the candidate starts. Please send curriculum vitae, a brief statement of research interests, and three letters of reference to: Dr. T. Slawsky, Department of Computer Science and Biomedical Informatics, Stanford University School of Medicine, Stanford, CA 94305-5443.

POSITIONS OPEN

The Division of Urology, University of California, Los Angeles (UCLA) School of Medicine, is recruiting a urologist to join the faculty as an ASSISTANT PROFESSOR. Applicants must be Board-certified or eligible and skilled in teaching, research, and clinical urology. Activities will be divided between the UCLA Medical Center and the VA Medical Center. Experience in molecular biology research related to prostatic disease is desired. UCLA and its affiliated institutions are Equal Opportunity/Affirmative Action Employers. Applicants should submit curriculum vitae to: Chief, Division of Urology, UCLA School of Medicine, Los Angeles, CA 90024-1738.

CELL BIOLOGIST/BIOCHEMIST

ASSISTANT PROFESSOR

ARTHUR WILLIAMS COLLEGE

Tenure-track position beginning July 1991 for a broadly trained cell or molecular biologist with strong background in biochemistry to teach courses in cell biology and biochemistry. Normally, faculty members teach one course and two laboratories each semester. A research program which can attract extramural funding and interest from the program's members is required. An extramurally funded research program might be included, but are not limited to, immunology, virology, and microbiology. Ph.D. required, some postdoctoral experience desirable. Please send CV, statement of teaching and research interests, and three letters of reference by February 1991 to: Search Committee, Department of Biology, Williams College, Williamstown, MA 01267.

An Equal Opportunity/Affirmative Action Employer, Williams College especially welcomes applications from women and minority candidates.

DEVELOPMENTAL PSYCHOLOGIST

The Colorado College seeks applicants for a tenured-track ASSISTANT PROFESSORship beginning fall 1991. Applicants should have a Ph.D. in psychology and a commitment to undergraduate teaching and research. Experience in undergraduate research is preferable. Send curriculum vitae, statement of research interests, and three letters of recommendation to: Dr. J. Holley, Search Committee, Psychology Department, Colorado College, Colorado Springs, CO 80933. Application deadline: 28 January 1991. The College is an Equal Opportunity Employer and strongly encourages women and minority applicants.

THE UNIVERSITY OF WESTERN ONTARIO DEPARTMENT OF OBSTETRICS AND GYNECOLOGY

MOLECULAR BIOLOGIST

A faculty position is available for an established research scientist with postdoctoral experience in molecular biology and with a specific interest in the hormonal control of normal and abnormal growth and development.
The successful applicant will be appointed at the ASSOCIATE/ASSISTANT PROFESSOR level in the Department of Obstetrics and Gynecology with a “tenure-track” cross appointment in the Department of Biochemistry or the Department of Chemistry. Salary will be commensurate with experience and qualifications.

Applications including a full curriculum vitae, a summary of research activities, and names of three references should be submitted to: Dr. G. L. Hammond, Director, Cancer Research Program, Regional Cancer Centre, 790 Commissioners Road East, London, Ontario, Canada N6A 4L6. Closing date for applications is 31 January 1991. In accordance with Cancer Research Program policy, the Regional Cancer Centre is committed to employment equity. Citizens and Permanent Residents of Canada. The University of Western Ontario is an Equal Opportunity Employer. Positions are subject to budget approval.


POSITIONS OPEN

ASSISTANT PROFESSOR

CARDIOLOGY DIVISION

PREVENTIVE CARDIOLOGY PROGRAM

Applications are invited for an individual with primary appointment in the Division of Cardiology within the Department of Medicine at The Johns Hopkins School of Medicine. Applicants should have an M.D. and be trained in cardiology. Specifically, expertise is required in the molecular biology of myocardial and vascular membrane lipids, in the molecular biology of growth factors and signaling pathways, in plantar functions and interaction with endothelial cells and other blood cells and coagulation factors. Forward application with curriculum vitae and bibliography to: Myron L. Weisfeld, Department of Medicine/Cardiology, The Johns Hopkins Hospital, 600 North Wolfe Street, Baltimore, MD 21205.

NEUROPATHOLOGIST.
The Department of Pathology, University of Virginia Health Sciences Center. A tenure-track position for an AP-NP Board-eligible or Board-certified neuropathologist at the level of ASSISTANT PROFESSOR is available. Curriculum vitae, a statement of clinical and research interests, and the names of three references should be submitted to: Dr. Eric J. Dewanjee, M.D., Ph.D., Director of Neuropathology, Department of Pathology, Box 214, University of Virginia Health Sciences Center, Charlottesville, VA 22908. The University of Virginia is an Equal Opportunity/Affirmative Action Employer.

BIOCHEMIST.
The University of Nevada, Las Vegas (UNLV) has a tenure-track ASSISTANT (PREFERRED) OR ASSOCIATE LEVEL Ph.D. in biochemistry and strong undergraduate chemistry background requirements. The successful candidate is expected to be a research competitor with department goals and to disseminate his/her work beyond the University. Applicants must have a Ph.D. in biochemistry or another related area. Send application letter, résumé, unofficial transcripts, and three letters of recommendation by 1 March 1991 to: Dr. D. Benitez, Search Committee Chair, Program in Environmental Science and Regional Planning, Washington State University (WSU), Pullman, WA 99164-4430. Telephone: 509-335-8536. WSU is an Equal Opportunity/Affirmative Action Educator and Employer. Protected group members are encouraged to apply.

ASSISTANT OR ASSOCIATE PROFESSOR.

Washington State University invites applications for a tenure-track position in ENVIRONMENTAL SCIENCE AND REGIONAL PLANNING. Qualifications include Ph.D. in biochemistry or another related area, ability to teach courses in environmental science and regional planning, and expected research in methods to reduce environmental and energy production problems in urban environments. Send application letter, résumé, and three letters of recommendation by 1 March 1991 to: Dr. D. Benitez, Search Committee Chair, Program in Environmental Science and Regional Planning, Washington State University (WSU), Pullman, WA 99164-4430. Telephone: 509-335-8536. WSU is an Equal Opportunity/Affirmative Action Educator and Employer. Protected group members are encouraged to apply.

NEW MEXICO HIGHLANDS UNIVERSITY

ASSISTANT/ASSOCIATE PROFESSOR

ENVIRONMENTAL SCIENCE

School of Science and Technology is accepting applications for a tenure-track faculty position as assistant/associate professor of environmental science to begin 15 August 1991. Responsibilities include participation in the environmental science undergraduate curriculum and graduate life science curriculum, including such areas as radiation, occupational health and safety practices, and environmental science education and waste management. Supervision of M.S. students and development of extramurally funded research programs expected. Closing date for applications is 15 January 1991. Send a letter of application, résumé, official transcripts, and three letters of recommendation to: Environmental Science Search Committee, School of Science and Technology, New Mexico Highlands University, Las Vegas, NM 87701. Telephone: 505-454-3268. New Mexico Highlands University is a small, state-supported university and is an Affirmative Action/Equal Employment Opportunity Employer.
A combination of individual initiative and team philosophy has been the particular mix that has made Burroughs Wellcome Co. one of the foremost names in pharmaceuticals.

GREAT PEOPLE MAKE A GREAT COMPANY

Research Pharmacologist (Pos. #62036-5)

The Experimental Therapy Division has an opening for a research pharmacologist to investigate the absorption, distribution, metabolism, and excretion of potentially therapeutic agents using in vitro and in vivo preparations, through the use of analytical procedures.

Candidates for the Research Pharmacologist position need a Ph.D. in pharmacology, biochemistry, or related discipline.

Research Microbiologist (Pos. #62441-5)

The Molecular Genetics and Microbiology Division has an opening for a Research Microbiologist to participate in the development of in vivo models of fungal infection and to evaluate the in vivo antifungal profile of potential lead compounds and standard therapeutic agents.

Candidates for the Research Microbiologist position need a Ph.D. in microbiology or related field with experience in in vivo models of fungal infections. In vivo dosing by i.p., p.o., s.c., i.v., intravaginal, and i.m. routes as well as isolation of fungi from tissues, handling fungi by sterile techniques, especially Cryptococcus sp., Aspergillus sp., and Candida sp. is also required.

Research Fellow (Pos. #61637-5)

The Molecular Genetics and Microbiology Division has an opening for an individual to study the influence of site of tumor implantation on antitumor activity of chemotherapeutic agents. One year of experience in the study of human tumor xenografts in models of metastatic and primary recurrent disease is required. The successful candidate may also investigate biochemical or other parameters relevant to the primary objective.

This position requires a background in tumor biology that emphasizes use of in vivo models. A Ph.D. in the biological sciences is preferred. Research Fellows are initially appointed for up to 1 year with renewal for a second year upon the mutual agreement of the employee and Burroughs Wellcome Co.

Research Virologist (Pos. #62467-5)

The Virology Division has an opening for a Research Virologist to evaluate new compounds for activity against Hepatitis B using tissue culture and antiviral assays.

Candidates need a Ph.D. in biochemistry or virology with experience as a laboratory assistant in biochemistry or virology with emphasis on tissue culture.

Burroughs Wellcome Co. offers top benefit programs along with very competitive salaries. If you are interested in working for us, submit your resume, indicating position number in your cover letter, by February 15, 1991 to: Burroughs Wellcome Co., Scientific Recruiting and Staffing, 3030 Comwallis Road, Research Triangle Park, NC 27709.

For information on other job opportunities with Burroughs Wellcome Co., call our Job Information Line at (919)248-8347.

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Schering-Plough, a $3.2 billion research driven leader in the health care industry, has an exciting opportunity with exceptional challenges in our Physical Chemical Analytical Research and Development department.

Ideal candidate will have a BS/MS in Biochemistry or Analytical Chemistry along with 3-5 years' experience in development of analytical methods for protein and peptides. In addition, experience with HPLC, electrophoresis, and immunological methods is essential.

We offer a competitive salary, benefits package, and an environment which encourages professional growth. For consideration please forward your resume, in confidence, to: Ms. P. Valendo, Schering-Plough Corporation, 2000 Galloping Hill Road, K6, E17, Kenilworth, NJ 07033. We are an equal opportunity employer.

What you have in mind, we put into action.
The Center for Molecular Biology (ZMBH) of the University of Heidelberg invites applications from candidates of international standing for a

**Full Professorship in Molecular Biology/Neurobiology (C4)**

The successful candidate will contribute to the research activities at the ZMBH which focus on

- gene regulation and differentiation
- molecular neurobiology
- molecular mechanisms of pathogenicity

A research program of the candidate in Molecular Biology/Neurobiology offers the prospect of productive collaborations with many of the 15 research groups currently at the ZMBH as well as the participation in project grants sponsored by the Deutsche Forschungsgemeinschaft, SFB 229 ("Molecular mechanisms of gene expression and differentiation") and SFB 317 ("Molecular biology of neural mechanisms and interactions"). The position also entails involvement in the teaching program of the department.

The ZMBH offers an excellent research environment including central facilities for DNA and peptide synthesis, microsequencing of proteins, FACS, animal facilities, as well as centralized administration and technical services.

Applications should be received by the Director of the ZMBH, Im Neuenheimer Feld 282, D-6900 Heidelberg, FRG, not later than January 25, 1991.

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**MIT DIVISION OF TOXICOLOGY**

**WHITAKER COLLEGE OF HEALTH SCIENCES AND TECHNOLOGY**

**Faculty Positions**

Applications are invited for a tenure-track faculty position at the Assistant Professor or non-tenured Associate Professor level. Candidates should have doctoral education in biology, biochemistry, chemistry, or toxicology. Areas of research experience and interests should be appropriate to facilitate interactions with other components of current programs, the goals of which are to elucidate at cellular and molecular levels mechanisms through which chemicals and physical agents in the environment induce pathogenesis in humans as well as experimental systems, with the objective of elucidating origins of genetically-linked diseases. Responsibilities of the position include conduct of an active independent research program and participation in the teaching program of the Division.

Applicants should send a curriculum vitae, summary of proposed research, and arrange to have letters sent from three scientists who can provide an evaluation of the qualifications of the candidate with respect to previous accomplishments as well as potential for research and teaching. Applications should be sent to:

Gerald N. Wogan  
Chairman, Toxicology Search Committee  
Division of Toxicology  
Room 16-333  
Massachusetts Institute of Technology  
Cambridge, MA 02139

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**NATIONAL INSTITUTES OF HEALTH**

**PUBLIC HEALTH SERVICE**

**DEPARTMENT OF HEALTH AND HUMAN SERVICES**

**ASSOCIATE DIRECTOR**

The National Institutes of Health (NIH) invites nominations and applications for the position of Associate Director for Research on Women's Health, Office of the Director. This is a Civil Service position in the Senior Executive Service (SES), with a salary range of $71,200 to $79,200. (The projected salary range beginning January, 1991 is $87,000 to $100,500.) The person selected may be eligible for a Physician's Comparability Allowance ranging from $5,000 to $20,000 per year. A one-year probationary period must be served by the individual selected if not currently in the Senior Executive Service.

The Associate Director for Research on Women's Health serves as the focal point for establishing NIH-wide goals for research related to women's health and for coordinating the direction of and activities undertaken in performing such research. Specifically, the Associate Director for Research on Women's Health is responsible for the development and coordination of a trans-NIH plan to increase programmatic activity in the area of research on women's health and participation of women in clinical studies in general, and clinical trials, in particular; coordination of overall NIH policies related to issues of women's health; and liaison with the other women's health organizations, the extramural community, the Public Health Service, agency coordinating and advisory committees, and other sectors of the Federal government.

For more information contact Ms. Wanda Haney at (301) 496-2400. The following forms are required: Application for Federal Employment (SF-171) accompanied by a current curriculum vitae and bibliography. These must be submitted to:

Ms. Wanda Haney  
National Institutes of Health  
Office of the Director  
Personnel Office  
Building 31, Room 1C-27  
9000 Rockville Pike  
Bethesda, Maryland 20892

PHS Commissioned Officers may indicate interest in performing the duties of this position within the Commissioned Corps by submitting a resume.

**APPLICATIONS MUST BE RECEIVED NO LATER THAN FEBRUARY 19, 1991.**

* * * NIH is an Equal Opportunity Employer * * *
CHALLENGING OPPORTUNITIES IN MEDICINAL CHEMISTRY

Dedicated research, innovative marketing, and employee excellence are crucial elements in the advancement of quality medical care. Berlex Laboratories, Inc. has undertaken the task of satisfying the health needs of today and fulfilling those of tomorrow. We are a U.S. pharmaceutical subsidiary of an international Fortune 500 company, located in northern New Jersey just 30 minutes from New York City and easily accessible from Routes 80, 46, and 287. Expansion of our research program has created several new outstanding and challenging opportunities.

SENIOR NMR SPECTROSCOPIST
The successful incumbent will plan and execute important research projects using our 500 MHz NMR spectrometer. Expertise in state-of-the-art macromolecular techniques is required. Expertise in biophysical aspects such as the determination of peptide conformation in solution is highly desirable. Two to five years of experience at a Ph.D. level are preferred. A close effective collaboration with the peptide synthesis and molecular modeling groups is required.

THEORETICAL CHEMIST/GROUP LEADER (Ph.D.)
This is a unique opportunity to head our Computer-Assisted Molecular Design Group. The candidate we seek should have several years of experience in applying macromolecular modeling to compound design, preferably in an industrial setting. Familiarity with quantum mechanical methods and all aspects of modeling, especially of peptides or other macromolecules, is required. Experience with the use of high field NMR and X-ray crystallographic data is an advantage. The ability to interact closely and effectively with a dynamic drug discovery program is essential.

ANALYTICAL CHEMIST/GROUP LEADER (Ph.D.)
The individual we seek will be responsible for the planning and execution of a wide variety of challenging analytical work in support of a dynamic drug discovery group. This will also include supervising a group of three Ph.D. level analytical chemists. To qualify, you must have at least three years of industrial experience. Expertise with all chromatographic methods and a familiarity with other standard analytical methods is essential.

Berlex offers a competitive salary, commensurate with experience, and a comprehensive benefits package that includes company matched savings plan, 100% tuition reimbursement and flexhours. For confidential consideration, please send your resume including salary requirements and indicating position desired to: Joan Lampe, Human Resources Supervisor, Berlex Laboratories, Inc., 110 East Hanover Avenue, Cedar Knolls, NJ 07927. We are an equal opportunity employer M/F/H/V.

ASSISTANT/ASSOCIATE PROFESSORS
UNIVERSITY OF ARIZONA
HEART CENTER
POSITION OPENING EXTENDED
As part of a University-wide expansion of Biological Sciences at the Arizona Health Sciences Center, the newly established University of Arizona Heart Center is seeking two tenure-track faculty members. Preference will be given to applicants with research interests in the cellular or molecular aspects of cardiac development and who are interested in establishing an interactive investigative research team. We prefer candidates at the Assistant or Associate Professor level, but more senior appointments may be made for exceptional individuals. Successful candidates will be expected to establish an excellent research program in cellular, molecular or systems biology and participate in graduate and medical student teaching programs. Salary will be commensurate with experience and rank, and an academic appointment will be granted in an appropriate department in the College of Medicine. Interested individuals should submit a Curriculum Vitae, 2 copies of relevant papers, a detailed description of research goals, and arrange to have 3 supporting letters sent to: Dr. Mary J. C. Hendrix, Chairman of the Heart Center Recruitment Committee, Department of Anatomy, College of Medicine, University of Arizona, 1501 N. Campbell Ave., Tucson, AZ 85724. To assure consideration, applications should be received by February 1, 1991; however, applications will be accepted until the position is filled. The University of Arizona is an Equal Opportunity/Affirmative Action Employer and applications from women and minority groups are strongly encouraged.
CHAIRMAN
DEPARTMENT OF
CELLULAR AND
MOLECULAR IMMUNOLOGY

The Beckman Research Institute of the City of Hope, Duarte, CA, is seeking a Department Chairman to head and staff a newly created Department of Cellular and Molecular Immunology. Applicants should have a PhD or MD degree, and have an established laboratory with a record of significant research accomplishments, and external funding. An appointment will be made at the Associate to Full Professor level. Research areas should emphasize molecular approaches in one or more of the following areas: T-cells and T-cell receptor function, immune response and antigen presentation, lymphokines and immune cell modulation, autoimmune and suppression, immunogenetics, tumor immunology, vaccines, and immune cell therapy. The City of Hope is a modern research facility with programs in protein chemistry, molecular biology, and neurosciences. Ample opportunities are available for research collaborations in both clinical and basic sciences. Qualified individuals should send their curriculum vitae by February 15, 1991, to Dr. John E. Shively, Chairman of Search Committee for Cellular and Molecular Immunology, Beckman Research Institute of the City of Hope, 1450 East Duarte Rd., Duarte, CA 91010. An Equal Opportunity/ Affirmative Action Employer.

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The Central Research Division of Pfizer Inc is seeking Research Scientists for our Drug Safety Evaluation Department. These positions offer excellent opportunities for professional growth and recognition, competitive salaries/benefits, and a generous relocation allowance. Central Research is a growing state-of-the-art facility on the coast of eastern Connecticut serving almost 2,000 researchers.

Toxicologist
Responsibilities include protocol design, safety study supervision, data analysis and preparation of reports for regulatory submissions. Qualifications include a PhD in Pharmacology/Toxicology or a DVM with training in Toxicology. Pharmaceutical experience is desirable but not required. Effective oral and written communications skills are essential.

Genetic Toxicologist
Responsibilities include initiation of research projects to investigate mechanisms of injury to macromolecular and genetic structures relevant to the evaluation of drugs for therapeutic use. Qualifications include a PhD or equivalent in a relevant field plus experience in evaluating mechanisms of mutagenicity/DNA damage in mammalian systems. A record of publication and excellent written and oral skills are highly desirable.

Qualified applicants should submit a letter of interest and resume to: David G. Burnett, PhD, Assistant Director, Employee Resources, Pfizer Inc, Central Research Division, Eastern Point Road, Groton, CT 06340. We are an equal opportunity employer.

Experimental Pathologist
The Chemical Institute of Toxicology (CIIT) is an independent non-profit research corporation. Our mission is to improve the scientific basis for understanding and assessing the potential adverse effects of chemicals, pharmaceuticals, and consumer products on human health. We are currently seeking one or more Experimental Pathologists with expertise in toxicologic pathology. Individuals with expertise in renal, hematopoietic or pulmonary injury are preferred.

Qualified candidates should have a DVM, and Ph.D., strong publication record, good communication skills, and experience working as a member of an interdisciplinary team. Preference given to Diplomates of ACVP.

CIIT is located in Research Triangle Park, NC which offers many cultural and recreational activities as well as access to 3 major universities. We offer competitive salary and benefits and a stimulating work environment. Interested applicants should send resume and letter of interest to: Human Resources Manager, CIIT, P.O. Box 12137, Research Triangle Park, NC 27709. (919) 541-2070.

An Equal Opportunity Employer M/F
INVERTEBRATE ZOOLOGIST. The Biology Department of Ithaca College invites applications for a tenure-track position at the ASSOCIATE PROFESSOR level beginning August 1991, to teach invertebrate zoology and general biology and develop a research program involving undergraduates. Ph.D. in zoology or related field required. Postdoctoral research and/or previous experience desirable. The department is not interested in duplicating expertise in cell biology, immunogenetics and an aquatic ecologist studying fish predation on invertebrates. Send curriculum vitae and three letters of reference by 15 February 1991 to: J. Shaw, Biology Search Committee, Biology Department, Ithaca College, Ithaca, NY 14850. Ithaca College is an Affirmative Action/Equal Opportunity Employer. Women and minorities are encouraged to apply.

The Department of Chemistry, Yale University, invites applications for a tenured position at the rank of ASSOCIATE PROFESSOR OR PROFESSOR, in inorganic chemistry. An outstanding teacher-scholar is sought whose research interests will complement those of the current staff.

Applicants should submit curriculum vitae and a list of publications to: Professor Frederick E. Ziegler, Chairman, Department of Chemistry, Yale University, 225 Prospect Street, New Haven, CT 06511-8118, before 15 February 1991. Yale University is an Equal Opportunity/Affirmative Action Employer.

ASSOCIATE OR FULL PROFESSOR - DIRECTOR OF CANCER DRUG DEVELOPMENT PROGRAM - THE OHIO STATE UNIVERSITY COMPREHENSIVE CANCER CENTER

Applications are invited for this tenure-track position by persons with Ph.D.'s in biochemistry, experienced in cancer chemotherapy, and developmental therapeutics, and having a strong record of accomplishment in areas of analytical methods development, biochemical pharmacology, pharmacokinetics, and collaboration in drug action. In addition to his/her own active research program the successful applicant will coordinate basic research in preclinical and clinical research in the Ohio State University (OSU) Comprehensive Cancer Center emphasizing collaborative interactions between clinical and basic scientists. A leadership role is expected in training and teaching cancer developmental therapeutics at graduate, undergraduate, and professional levels. Faculty appointment is available in the Colleges of Pharmacy and/or Medicine. Salary negotiable.

Please forward by 1 February 1991 an application letter, curriculum vitae, bibliography, research interests summary, and names of three references to: David S. Yohn, Ph.D., OSU Comprehensive Cancer Center, Suite 1132, James Cancer Hospital, 300 West 10th Avenue, Columbus, Ohio 43210. An Equal Opportunity/Affirmative Action Employer.
The Division of Research Grants National Institutes of Health

Invites inquiries into special employment opportunities as Health Scientist Administrators of study sections in various scientific fields. Study sections, managed by Health Scientist Administrators, known as Executive Secretaries, provide the initial review for technical and scientific merit of research grant applications submitted to NIH.

We are seeking individuals with proven independent research experience in the health related sciences. Individuals must be U.S. citizens and have a Ph.D. degree or equivalent in an academic field of health or pertinent sciences allied to health or health related research. At least one year of experience in research program administration and a Health Scientist Administrator rating from the Office of Special Examiner, NIH is required.

Further information and qualification requirements can be obtained by contacting the:

Personnel Office Division of Research Grants National Institutes of Health 5333 Westbard Avenue Room 438 Bethesda, MD 20892 (301) 496-7577

NIH is an Equal Opportunity Employer

RESEARCH SCIENTISTS

We are seeking highly motivated Research Scientists to join the School of Pharmacy at the University of Southern California to conduct research and development of central nervous system (CNS) active agents under a contract from CoCenSyx, Inc. CoCenSyx Inc., is an innovative new company focused on the frontier of molecular therapeutics as it relates to diseases of the CNS. Current opportunities include:

MOLECULAR BIOLOGIST

A Ph.D. degree with research experience in molecular cloning is desired. The successful candidate should be familiar with techniques including isolation of mRNA, constructing and screening cDNA and genomic libraries, and construction of expression vectors for a variety of receptors.

DRUG METABOLISM SCIENTIST

An analytical/pharmacokinetics chemist at the Ph.D. level or M.S. with 2 years experience in the isolation and identification of metabolites using GC, mass spec., NMR and HPLC is required.

MEDICINAL CHEMISTRY

Synthetic organic chemist at the Ph.D. level or M.S./B.S. with at least 2 years experience in the preparation of prodrugs of CNS active agents preferred.

Salaries are comparable to those of Industry appointments. Please send resume and three references in strictest confidence to: Dr. Nancy Lan, USC School of Pharmacy, Los Angeles, CA 90033-1086. The University of Southern California is an affirmative action/equal opportunity employer.

POSITION AVAILABLE

Alcohol, Drug Abuse, and Mental Health Administration National Institute of Mental Health U.S. Public Health Service

Deputy Division Director

The Division of Basic Brain and Behavioral Sciences, NIMH, has an immediate opening for a supervisory interdisciplinary scientist to serve as Deputy Director of the Division. The Division supports a broad range of research in neuroscience, behavioral, and basic sciences through grants and contracts to universities, hospitals, and other research organizations. The Division has an annual budget of approximately $70 million, which supports research, research development, and research training activities, and has a staff of about 40. The Deputy Director assists the Director in the scientific and administrative management of the Division, and in the evaluation and development of basic research programs related to mental illness. Therefore, a broad knowledge of the scientific fields represented by Division programs is essential.

Applicants should possess an M.D. or a Ph.D. degree, or equivalent training, in a discipline related to neuroscience, basic, or behavioral science, and should have extensive experience in direct research as well as research administration. The position will be filled through the Civil Service or Commissioned Corps of the U.S. Public Health Service. The grade of the position is a GM-15, with a salary range from $61,643 to $80,138 per annum (up to $83,389 for Medical Officers). Medical Officers may be eligible for an additional physicians comparability allowance (PCA) of $4,000 to $16,000 per year. Benefits include a retirement plan, health and life insurance, sick and annual leave. Relocation expenses may be paid. Duty Station is Rockville, MD. U.S. citizenship is required.

Submit Application for Federal Employment (SF 171) and curriculum vitae to Ms. Topaz, NIMH Personnel Office, Room 15C-12, 5600 Fishers Lane, Rockville, MD 20857, (301) 443-9094. Applications must be postmarked no later than March 15, 1991.

ADAMHA is an Equal Opportunity Employer
POSITIONS OPEN
DEAN SCHOOL OF NATURAL RESOURCES
THE UNIVERSITY OF MICHIGAN
Applications and nominations are invited for the position of dean of the School of Natural Resources at the University of Michigan. The dean is the chief academic and professional officer of the school, reporting directly to the academic vice president. The School of Natural Resources is an interdisciplinary, research-oriented unit, with primary responsibilities for the development of policies and management programs that promote the conservation, protection, and sustainable use of natural resources. In addition, the school educates resource practitioners and researchers who will seek these ends. The school's activities include instruction at the undergraduate, master's, and doctoral levels and an active research program. Positions are also open in resource ecology, management, resource policy and behavior, and landscape architecture. The school is committed to an integrative, interdisciplinary, problem-solving approach in collaboration with related disciplinary departments and professional schools.

The dean provides leadership in program planning, development, and evaluation. Qualifications should include an earned doctorate, a distinguished record appropriate for a tenured appointment in the school, and the ability to construct a range of programs at the local, state, national, and international levels. The committee will begin reviewing candidate files on 4 February 1991. Applications should be sent to Professor Burton Barnes, Chair, School of Natural Resources, Dean Search Advisory Committee, The University of Michigan, 520 East Liberty, Ann Arbor, MI 48104–2210. A nondiscriminatory, Affirmative Action Employer.

SCIENCE DIRECTOR
WEST COAST NATIONAL UNDERSEA RESEARCH CENTER
UNIVERSITY OF ALASKA FAIRBANKS
The University of Alaska Fairbanks is a new Center for NOAA's National Undersea Research Program. The center is responsible for the planning, coordination, and implementation of the undersea research program for the U.S. West Coast and Antarctica. Duties include (i) develop effective communication with resource management agencies, (ii) develop and implement programmatic research themes, (iii) prepare annual announcement of research opportunities and coordinate proposal review, (iv) assist with preparation of the Center's annual report and proposal to NOAA, and (v) some supervision of Center staff. The science director will report to the center director. This is a 12-month per-appointment position. Preferred qualifications include a Ph.D. in oceanography, subsurface ROV's, and interrelated physical and biological sciences. Candidates must have a minimum of 4 years experience in undersea research related field. This should include at least 30 semester hours in basic applied biology or related field of science. These hours must have included at least 9 semester hours of ecology and 12 semester hours of physical and/or mathematical sciences, or equivalent appropriate professional experience.

Closing date is 18 February 1991. For further information on this full-time, permanent position, contact: Dr. Anne Danko, NRICGP, USDA, Room 2322, Ocean Resources Building, 13600 Sunrise Highway, Sunrise, Bastow, CA 90845. Telephone: 202-441-4871. For information on application procedures/forms, contact: Ms. Kathy Amsmussen, Personnel Staff Specialist, 202-441-4811. USDA is an Equal Opportunity Employer.

MOLECULAR, BIOLGIST/INFORMATION SCIENTIST
National Institute of Medicine (NLM), National Institutes of Health, Public Service Health, has full-time permanent openings for technical information specialists to analyze, publish, generated sequence data from international biomedical journals as part of its indexing operation. Positions are filled at the GS-9 (starting at $24,705) or GS-11 (starting at $29,991) level. For application package, contact: Ms. Apolito, NLM, Building 38, Room 2N17, 8600 Rockville Pike, Bethesda, MD 20894. Telephone: 301-496-9043. NLM is an Equal Opportunity Employer. U.S. citizens required. Applicants must meet the following selective factors: experience in gene sequence analysis, knowledge of at least two foreign languages (knowledge of computers may be substitute for one of the foreign languages). Vacancy available until filled.

INSTRUCTOR POSITION: Available November 1991, Plant Biology and Biochemistry of alga to study adenylcyclase in Chlamydomonas. Applicant should have experience in cell fractionation, micromanipulation, electron microscopy, as well as experience in teaching research methods to undergraduate and graduate students. Send resume and supporting materials to: Professor K. N. Beattie, Department of Cell Biology and Neurosciences, University of Texas Southwestern, 2425 Victory Boulevard, Dallas, TX 75335. University of Texas Southwestern is an Equal Opportunity/Affirmative Action Employer.

POSITIONS OPEN
DIRECTOR, MARINE SCIENCES INSTITUTE
THE UNIVERSITY OF CONNECTICUT
The University of Connecticut is seeking a dynamic person for the anticipated position of director, Marine Sciences Institute (MSI), to begin September 1991. The candidate should have a national/international reputation in the marine sciences, an outstanding record of scholarship and teaching, and supervisory and management skills. Responsibilities include development of marine research activities, interaction with state and federal agencies, collaboration with local and international programs, and development of world-class research facilities. The director will work with the Department of Marine Sciences, in which he/she will hold an academic appointment. The position includes a Ph.D. level member, of which 20 are in residence. It annually administers $6 million of sponsored research funds.

A Ph.D. in oceanography or a related field, a research/publication record, and experience in a tenure-track position at the professor level, and appropriate administrative experience are required. Salary is commensurate with experience. Send applications (curriculum vitae, letters of reference, research goals) to: J. G. Henkel, Chair, MSI Search Committee, Graduate School, University of Connecticut, 438 Whitney Road Extension, Storrs, CT 06269. The review of applications begins 1 March 1991 and continues until the position is filled. Affirmative Action/Equal Opportunity Employer. (Search #2A189).

PROGRAM DIRECTOR
NATIONAL UNDERSEA RESEARCH COMPETITIVE GRANTS PROGRAM
U.S. DEPARTMENT OF AGRICULTURE
The National Research Initiative Competitive Grants Program (formerly Competitive Research Grants Office), USDA, seeks a qualified scientist to serve as program director for grant review and administration in the area of ecology (encompassing soil chemistry and biogeochemistry, plant and microbial interactions, plant/water contaminant interactions; plant/water contaminant interactions; plant/water interactions, riparian, or forest ecology). Candidates must have a Ph.D. in ecology and/or a closely related field. This should include at least 30 semester hours in basic applied biology or related field of science. These hours must have included at least 9 semester hours of ecology and 12 semester hours of physical and/or mathematical sciences, or equivalent appropriate professional experience.

Closing date is 18 February 1991. For further information on this full-time, permanent position, contact: Dr. Anne Danko, NRICGP, USDA, Room 2322, Ocean Resources Building, 13600 Sunrise Highway, Sunrise, Bastow, CA 90845. Telephone: 202-441-4871. For information on application procedures/forms, contact: Ms. Kathy Amsmussen, Personnel Staff Specialist, 202-441-4811. USDA is an Equal Opportunity Employer.

POSITIONS OPEN
SENIOR FACULTY POSITION
The Department of Comparative Medicine, Tufts University School of Veterinary Medicine, seeks a senior faculty member with expertise in the pathogenesis of infectious diseases, particularly as it pertains to gastrointestinal diseases. Position requirements include the D.V.M. (or equivalent) and Ph.D. degrees, a strong research record, administrative experience, and the capability to develop a program focused in microbial pathogenesis using state of the art molecular approaches to investigate host–organism interactions. Responsibilities will also include participating in the pathogenic microbiology courses that are delivered as part of the M.S. programs. The position will be located in newly constructed, well-equipped laboratories located at the school's North Grafton, Massachusetts, campus. Applications will be received until 1 April 1991. Applications should include curriculum vitae, a brief statement of research goals, and three letters of reference sent to: Dr. Carol Reinisch, Chairman, Department of Comparative Medicine, 136 Harrison Avenue, Boston, MA 02111.

Tufts University is an Equal Opportunity/Affirmative Action Employer.

LECTURER-PHYSIOLOGY/BIOMECHANICS
The University of California, Los Angeles (UCLA), Department of Kinesiology, Division of Life Sciences, invites applications for three full-time lecturers to teach systems physiology, performance physiology, or biomechanics. Applicants must have at least two years' experience in graduate and/or postgraduate education, with a Ph.D. or M.D. degree; salary will be commensurate with qualifications. These Lecturers will be appointed for the academic year beginning 1 July 1991. Deadline for receipt of applications is 15 March 1991. Submit your curriculum vitae and a cover letter that includes the names and addresses of three references to: Ronald E. Zernicke, Ph.D., Department of Kinesiology, 2859 Bishop's Hall, UCB 95, Los Angeles, CA 90024–1568. The University of California is an Equal Opportunity/Affirmative Action Employer.

BIOCHEMISTRY FACULTY POSITION
Temple University School of Medicine. Applications are invited for a tenure-track position at the ASSISTANT PROFESSOR level starting after 1 July 1991. The department seeks a scientist with outstanding potential who is using techniques of molecular biology and/or physical biochemistry to study the mechanism of enzyme action. This person will be required to contribute to the department's teaching program for medical, dental, and graduate students, and to participate in the research and regulation of metabolism and to develop a strong, externally funded research program. The department is well equipped and has research support from NIH and private foundations. Applicants should submit before 1 March 1991, (i) curriculum vitae, (ii) a brief statement of research interests and plans, (iii) title pages with abstracts of recent publications, and (iv) the names of three references to: Dr. J. Kenneth Hoober, Chair, Search Committee, Department of Biochemistry, Temple University School of Medicine, 3420 North Broad Street, Philadelphia, PA 19140.

Temple University is an Equal Opportunity/Affirmative Action Employer.

SYNOPTIC/MESOSCALE METEOROLOGY
The University of Michigan Department of Atmospheric, Oceanic, and Space Sciences invites applications for a tenure-track FACULTY POSITION for the fall of 1991. The preferred area of specialization is synoptic or mesoscale meteorology. The qualifications and teaching-related areas will be considered. The successful candidate will be expected to teach undergraduate and graduate courses in synoptic and mesoscale meteorology, develop a strong research program, and interact with the university's expanding Global Change Program.

The available position may be filled at any rank, commensurate with the qualifications of the applicant. Applicants should submit, by 15 February 1991, a curriculum vitae, statement of research and teaching interests, and names of at least three references to: Perry J. Samson, Atmospheric Sciences Search Committee Chair, Department of Atmospheric, Oceanic, and Space Sciences, 1215 Lurie Hall, University of Michigan, Ann Arbor, MI 48109–2143.

The University of Michigan is an Equal Opportunity/Affirmative Action Employer and Educational Institution.
POSTDOCTORAL POSITIONS

We have discovery down to a science.

Hoffmann-La Roche is one of the world's foremost companies involved in pharmaceutical and medical research. We have a variety of research opportunities in our Exploratory Research organization, located at our Nutley, New Jersey headquarters.

MOLECULAR GENETICISTS
You will study the structure/function relationships of cytokines and enzymes; the biochemistry and molecular biology of cell surface receptors and adhesion proteins; and novel systems for gene expression in transgenic mice. Ph.D. in Biochemistry/Molecular Biology/Cell Biology required; experience in recombinant DNA technology preferred. Please refer to Position CJ on C.V.

MOLECULAR ONCOLOGIST
You will utilize your expertise in molecular biology to further characterize the ras signal transduction pathway, tumor suppressor gene products or the mechanisms by which cytokines exert their anti-cancer effects. A Ph.D. in Molecular Biology or Biochemistry with a background and interest in oncology required. Please refer to Position AW on C.V.

MOLECULAR VIROLOGISTS
One position will involve the study of human papillomavirus gene products at the molecular level with a view towards defining targets for antiviral agents and designing hybrid viruses that may be used in animal models of viral disease. Ph.D in Molecular Biology/Virology required. Please refer to Position IS on C.V.

Another position will involve the study of mechanisms of action and structure/function relationships of HIV and Herpes simplex virus regulatory proteins for antiviral development. Ph.D. in Molecular Biology/Virology required. Please refer to Position MH on C.V.

PROTEIN BIOCHEMIST
You will study the molecular interaction of cytokines with their receptors. A Ph.D. in a relevant field and experience in protein isolation, protein chemical modification and immobilization of enzymes and/or antibodies. Please refer to Position AS on C.V.

BIOCHEMIST/PHARMACOLOGISTS
We are seeking a Ph.D. Biochemist to investigate in vitro and in vivo actions of fatty acid oxidation inhibitors in normal and ischemic/reperfused hearts. Please refer to Position AH on C.V.

Another position will require a Ph.D. Biochemist or Pharmacologist/Physiologist to examine changes in signal transduction in animal models of cardiovascular disease such as heart failure or ischemic heart disease. Please refer to Position AH on C.V.

ORGANIC BIOCHEMIST
Scientist to work on the design and synthesis of modified peptides and small molecules to increase their transport across cell membranes. Ph.D. in Chemistry with skills in synthesis and analytical techniques of gel filtration, ion exchange chromatography and reverse phase HPLC. Please refer to Position PR on C.V.

MOLECULAR BIOLOGIST/BIOCHEMIST
You will study the role of oligosaccharide structures on cell surface receptors. Emphasis on characterizing the carbohydrate structures and their significance for expression, ligand binding and signalling. A relevant Ph.D. with experience in Molecular Biology is required. Please refer to Position JH on C.V.

BIOCHEMIST
You will study the mechanism of action of inhibitors of stromelysin and/or phospholipase A2. Studies will involve intracellular regulation, expression and characterization of these enzymes. Ph.D. in Biochemistry, Molecular Biology or Molecular Pharmacology preferred. Please refer to Position JC on C.V.

Hoffmann-La Roche offers the benefits of a multidisciplinary environment that stimulates personal and professional growth, and encourages publications. In addition, we are conveniently located in an attractive suburban community just 10 miles west of New York City and its cultural and intellectual resources. Our salaries and benefits package are highly competitive.

For consideration, please send your curriculum vitae and the names of three references, indicating the code for your position of interest, to: Mr. R.H. Stevenson, Assistant Director, Exploratory Research, Hoffmann-La Roche Inc., Nutley, New Jersey 07110. We are an equal opportunity employer.

Working Today For A Healthier Tomorrow
SOIL FERTILITY SPECIALIST

Organization ICARDA, one of 13 international centers supported by the Consultative Group on International Agricultural Research, cooperates with national programs in West Asia and North Africa (WANA) to develop sustainable improvements in dryland cereals, food legumes, farm resource management, pasture, forage, and livestock production. ICARDA’s multi-disciplinary staff of over 600 technical and support personnel has an international mandate for barley, faba bean, lentil production improvement and a regional mandate for wheat and chickpea production improvement, farming systems research and the sustainable management of soil, water and natural vegetation resources.

Position The SOIL FERTILITY SPECIALIST works within ICARDA’s Farm Resource Management Program and is responsible for the running of the ICARDA Soil Laboratory, which undertakes chemical analyses of soil and plant samples from research trials; for maintaining a research program in soil fertility; for certain training activities in analytical techniques and soil fertility research; and for liaison with national scientists to strengthen and coordinate fertility research across the WANA region. The latter activity requires some travel and the organization of workshops.

Qualifications Earned Ph.D. in soil chemistry or soil fertility, with at least 10 years field research experience, part of which should have been in developing countries; capability and willingness to work collaboratively in a multidisciplinary and multinational context; fluency in spoken and written English. Teaching experience, and capability in the French and/or Arabic languages would be advantages.

Post The position reports to the Leader, Farm Resource Management Program, and is based at ICARDA’s modern headquarters and main research station located in a rural setting 35 km from Aleppo, Syria.

Benefits Salary paid in US dollars based on experience and qualifications. Benefits include housing allowance, paid home leave travel, a retirement and health package, provided auto, free enrollment for dependents at the ICARDA-administered international school (K-12), and other internationally competitive conditions of service.

Application Qualified applicants are invited to send:
1) a curriculum vitae with recent salary history;
2) names, addresses, and telex numbers of three professional referees;
3) photocopies (non-returnable) of other relevant supporting documents.

to: Dr. Aart van Schoonhoven, Deputy Director General (Research)
ICARDA, P.O. Box 5466, Aleppo, Syria
Telex: 331206 ICARDA SY, or 331263 ICARDA SY
Telephone: (963-21) 213453, 215977, or 254980

Reference: Please quote position no. DG/21/90 on application.

Application deadline: 31 Jan 1991

ICARDA is an equal opportunity employer.

Postdoctoral Scientist in Toxicology/Computer Simulation

The Chemical Industry Institute of Toxicology (CIIT) is an independent, not-for-profit research corporation. Our mission is to improve the scientific basis for understanding and assessing the potential adverse effects of chemicals, pharmaceuticals, and consumer products on human health. We are currently seeking a postdoctoral scientist to work on biologically based simulation models of chemical toxicity.

The successful candidate will be responsible for development of qualitative descriptions of chemical and biological events comprising the toxic effects of chemicals. These descriptions are implemented as simulation models which are intended to play a major role in experimental design, data interpretation, and chemical risk assessment. The position requires significant quantitative skills and expertise in computer programming. Training in chemistry and biology is also desirable. Development of close working relationships with laboratory-based scientists will be necessary. Conduct of laboratory investigations supporting model development will be encouraged. The individual must have a doctoral degree in a relevant discipline such as mathematics, chemical engineering, computer science, or in a biomedical discipline with an emphasis on quantitative methods.

CIIT is located in Research Triangle Park, NC which offers many cultural and recreational activities as well as access to 3 major universities. We offer competitive salary and benefits and a stimulating work environment. Interested applicants should submit a curriculum vitae and the names of three professional references, representative reprints and a summary of research interests to: Human Resources Manager, CIIT, P.O. Box 12137, Research Triangle Park, NC 27709.

Senior Toxicologist

Contribute to excellence in Environmental, Health and Safety Affairs

Fortune 100 Hoechst Celanese Corporation, one of the world’s largest producers of chemicals and pharmaceuticals, has an exceptional opportunity for a Senior Toxicologist in its Corporate Department of Environmental, Health and Safety Affairs.

In an interactive role, selected candidate will provide Toxicological consultation and guidance to the business units and advise senior management on Toxicology issues. You’ll participate in risk assessments on environmental and product safety issues. Will also assist in developing and publishing Toxicology information in support of marketing strategies and serve as a resource for the business units’ safety, industrial hygiene and environmental functions.

Qualifications include 6 or more years experience in industrial Toxicology and a PhD degree in Toxicology or a related field.

Located at our modern corporate complex in a pleasant suburban setting, this position provides an excellent salary with a flexible benefits program and a company Performance Sharing Plan. For prompt consideration, please send curriculum vitae with salary history/requirements to: D116, Human Resources Department, Hoechst Celanese Corporation, Routes 202-206 North, Somerville, NJ 08876. An affirmative action employer M/F/H/V.

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Hoechst

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Awards

The Academic Research Enhancement Awards (AREAs) provide funding for feasibility studies, pilot studies and other small-scale health related research projects. Awards are made in amounts of up to a total of $75,000 in direct costs (plus applicable indirect costs) for a period of up to three years; however, no more than $35,000 in direct costs may be awarded for any one year.

Eligibility Requirements

1. Applicant Institutions
   All domestic institutions offering baccalaureate or advanced degrees in the sciences related to health are eligible, except those that have received an NIH Biomedical Research Support Grant (BRSG) of $20,000 or more per year for four or more years during the period from FY 1984 through FY 1990.

   May not submit a regular NIH or ADAMHA research grant application for essentially the same project as a pending AREA application.

   Are expected to conduct the majority of their research at their own institution, although limited access to special facilities or equipment at another institution is permitted.

   May not be awarded more than one AREA grant at a time nor be awarded a second AREA grant to continue the research initiated under the first AREA grant.

Award Criteria

Funding decisions are based on the research project's scientific merit and relevance to NIH programs, and the institution's contribution to the undergraduate preparation of doctoral-level health professionals. Among projects of essentially equivalent scientific merit and program relevance, preference will be given to those submitted by institutions that have granted baccalaureate degrees to 25 or more individuals who, during the period 1980-1990, obtained academic or professional doctoral degrees in the health related sciences.

APPLICATION RECEIPT DATE
June 22, 1991

For information and application materials, contact:
Office of Grant Inquiries
Division of Research Grants
National Institutes of Health
Westwood Building, Room 449
Bethesda, Maryland 20892
(301) 496-7441

DIRECTOR OF LABORATORY ANIMAL RESOURCES POSITION OPENING

Roswell Park Cancer Institute, an NCI-designated comprehensive cancer center with over 200 senior research faculty members, is seeking candidates for appointment as Director of Laboratory Animal Resources. As Institute Attending Veterinarian, the incumbent will be responsible for providing veterinary care for the Institute’s laboratory animal programs to comply with federal, state and institute standards. This will include management and direction of a vigorous animal health surveillance program, review and development of animal research and surgery protocols, provision of veterinary support and educational services, and overall management of facilities and staff of the Department of Laboratory Animal Resources. The incumbent will play a central role in the design and planning of a new animal facility.

Candidates must 1) hold a D.V.M./V.M.D. degree from an accredited college of veterinary medicine, 2) be federally accredited and 3) be certified or eligible in the American College of Laboratory Animal Medicine. The incumbent will become part of a group of professionals engaged in service and basic research. Preference will be given to candidates who also hold an advanced degree in basic science or who have registered other scientific accomplishments. The successful candidate will be expected to contribute to the academic programs of RPCI. Send resume/c.v. with a statement of basic research experience, a listing of peer-reviewed publications and references to:

James P. Karr, Ph.D.
Office of Scientific Administration
Roswell Park Cancer Institute
Elm and Carlton Streets
Buffalo, New York 14263

Roswell Park is an Affirmative Action Employer

SENIOR RESEARCH SCIENTIST

Miles Inc., a multi-divisional healthcare products company, has a challenging opportunity available for an experienced Clinical Pathologist in its Toxicology Department.

The person selected for this position will supervise the Clinical Pathology Laboratory and will be responsible for analysis, interpretation and reporting of blood chemistry, hematology and urinalysis data from toxicology studies.

Minimum requirements for this position include a degree in biology or biochemistry with 3-5 years experience in clinical pathology. A Ph.D. or DVM with ASCP or ACVP certification is desirable.

Located in Elkhart, Indiana, we offer varied recreational and educational facilities, as well as convenient access to the Chicago area. Excellent starting salary commensurate with experience, plus a superior benefits program. Please send a complete resume with salary history in confidence to:

E.R. Kilmeck
Administrator, Productivity Services
Department #361
Miles Inc.
A Bayer USA Inc. Company
P.O. Box 40
Elkhart, IN 46515

AN EQUAL OPPORTUNITY EMPLOYER M/F/H
Cellular Neurobiology/Biophysics and Ecology
Faculty Positions
BOSTON UNIVERSITY
MARINE PROGRAM
Marine Biological Laboratory
Woods Hole, Massachusetts

Applications and nominations are invited for two tenure-track faculty positions at the assistant/associate/full professor level for September 1991. We are seeking candidates who are using contemporary approaches to investigate problems in the general area of (1) cellular neurobiology/biophysics using marine organisms, and (2) ecology with a focus on the marine environment. Applicants should have a Ph.D., postdoctoral experience, a strong record of research accomplishments, and a strong research program. The Boston University Marine Program is based in Woods Hole, Massachusetts at the Marine Biological Laboratory. Successful candidates will be asked to teach a one-month course in the Woods Hole Marine Semester for graduate and advanced undergraduate students from Boston University and other universities, and a graduate course in the area of their expertise. These positions carry six months' salary per year. Substantial external funding is required in the research environment of Woods Hole. Applications should include a curriculum vitae, a summary of current and future research plans, and the names of at least three individuals as references. Application deadline is February 15, 1991. Send applications or nominations to: Chairman, Faculty Search Committee, BUMP/MBL, Woods Hole, MA 02543.

Women and minorities are encouraged to apply. Boston University is an equal opportunity, affirmative action employer.

The Dept. of Molecular Genetics and Cell Biology and the Dept. of Medicine
The University of Chicago
Program in Molecular and Cellular Basis of Microbial Pathogenesis and Infectious Diseases

The Departments of Molecular Genetics and Cell Biology and of Medicine at The University of Chicago invite applications or nominations for a senior tenured position. Responsibilities include establishing a strong basic science program in the molecular or cellular biology of microbial pathogenesis and directing a modern clinical program in Infectious Diseases including molecular approaches to diagnosis and treatment. Suitable research areas include animal viruses, in particular retroviruses, and bacterial and fungal pathogens. The successful candidate will have the opportunity to head an interdepartmental program in Microbiology and Infectious Diseases. Send nominations or applications, including curriculum vitae, a statement of research interests and the names of three references to:

Lucia B. Rothman-Denes
Chair. Search Committee
Dept. of Molecular Genetics and Cell Biology
The University of Chicago
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CHIEF EXPERIMENTAL TOXICOLOGY BRANCH

The Division of Toxicology Research and Testing (DTRT) of the National Institute of Environmental Health Sciences, National Toxicology Program, Research Triangle Park, NC, is seeking applicants for the Chief, Experimental Toxicology Branch. The branch includes approximately 50 employees comprised largely of scientific personnel. The position has a salary range of $59,216 to $76,982. The successful candidate will be expected to: (1) Direct and coordinate efforts to initiate testing activities to characterize the biological-toxicological effects from acute, short-term repeated exposure, and subchronic exposure to chemicals; (2) Direct the organization and monitor the studies which are conducted principally through contacts supplemented by an intramural laboratory capability; (3) Direct laboratory research with a particular emphasis on research in toxicology, methods development and feasibility studies relevant to the development of research protocols for toxicological characterization of chemicals; (4) Play a major role in the formulation of DTRT objectives, plans, policies, and criteria. Candidates are required to have the following: Ph.D. degree or its equivalent in pharmacology, physiology, toxicology, or other allied subjects where training was focused on in vivo mammalian toxicology; Experience in managing and developing a broad spectrum of toxicology research and testing activities; Experience in supervision of a large staff comprised largely of scientific personnel; Independent research experience in toxicology, carcinogenesis, or pathology; A thorough knowledge of animal models used to investigate prechronic and chronic toxic effects of chemicals; Excellent written and oral communication skills; Relevant publications in scientific journals. U.S. Citizenship is required.

For further information, please call Ms. Norma Daye at (919) 541-7513. Applicants must be found to be eligible on a Civil Service Register. If interested, please send a curriculum vitae and three letters of reference by February 28, 1991 to:

Ms. Norma Daye (Code HNV-22)  
NIEHS Personnel Office  
P.O. Box 12233  
Research Triangle Park, NC 27709

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**BIOLOGY INSTRUCTOR**
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Primary areas of classroom instruction will include: organic and evolutionary biology, multicellular life, environmental biology, and ecology/natural history. Secondary duties may include: introduction to molecular-chemical aspects of biology, human biology, ecology of human reproduction, and marine biology. This position will also be responsible for student recruitment and advising, acting as a liaison between college and professional and/or educational biological organizations, participating in curriculum development and in college activities/committees. Evening classes may be part of the teaching load. M.A. in biology or equivalent. Emphasis in organic and population biology or related field preferred. $30,684.80 to $49,706.80 annually plus benefits. Application and complete job description may be obtained from: Employment Services, Foothill-De Anza Community College District, 12345 El Monte Road, Los Altos Hills, CA 94022. Telephone: 415-949-6217. A résumé or curriculum vitae may not be substituted for a completed application. Open until filled with first review date of 28 January 1991. Affirmative Action/Equal Opportunity Employer.

**PHYSIOLOGIST, PHARMACOLOGIST, BIOCHEMIST**

Applications are invited for full-time positions at the GS-12 level in the Physiology Branch, U.S. Army Medical Research Institute of Chemical Defense, Aberdeen Proving Ground, Maryland. Positions are available immediately for two scientists to join a group working on the development of concepts for prophylaxis and therapy against nerve agents that induce pulmonary edema. The group is a multidisciplinary group, therefore, candidates with expertise in respiratory physiology, pharmacology, biochemistry, and/or immunology will be considered. An appropriate Ph.D. and U.S. citizenship is required and the applicant must be able to obtain a security clearance. Resumes should be sent to: Commander, USAAPGSA, Attention: STEAP-CP-RT (Ms. M. Bogg), Aberdeen Proving Ground, Md 21005-8501. Equal Opportunity Employer.

**POSITIONS OPEN**

**INSTITUTE OF BIOSCIENCES AND TECHNOLOGY**
**TEXAS A&M UNIVERSITY**

Texas A&M University is establishing the Institute of Biosciences and Technology (IBT) in the Texas Medical Center in Houston. The function of the IBT is to merge the strengths of the Colleges of Agriculture and Life Sciences, Veterinary Medicine, and Engineering with the scientific and clinical strengths of the Texas Medical Center. All FACULTY in the Houston IBT will have positions in academic departments in College Station. Academic rank is dependent upon experience and qualifications. Outstanding individuals having research interests dealing with a broad range of biomedical investigations are sought. The 11-story IBT building is scheduled for completion in September. Applicants should send curriculum vitae, list of publications, a brief description of current and future research interests, and have three letters of reference sent to: Dr. Robert D. Wells, Director, Institute of Biosciences and Technology, Texas A&M University, College Station, TX 77843-2128.

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

**ECOLOGY/BOTANY**

The Department of Biology at Gettysburg College invites applications for a 1-year sabbatical replacement beginning fall 1991. Candidates must have an earned doctorate by September 1991. The successful candidate will teach ecology, a botany course in his/her specialty, and participate in the introductory biology program. Gettysburg College is a highly liberal arts college located 1 1/2 hours north of the Washington/Baltimore area. Submit description of teaching interests, curriculum vitae, and three letters of reference (with recommenders' telephone numbers) to: Biology Search Committee, Department of Biology, Gettysburg College, Gettysburg, PA 17325. Applications received by 1 March 1991 will receive fullest consideration.

Gettysburg College is an Equal Opportunity/Affirmative Action Employer. Women and minorities are encouraged to apply.

**POSITIONS OPEN**

**FACULTY POSITION AVAILABLE**

Emory University School of Medicine is seeking a tenure-track faculty member at the rank of ASSISTANT PROFESSOR to participate in the activities of the Medical Genetics Division of the Department of Pediatrics. Candidates should have an M.D./Ph.D. or M.D. and be Board-eligible or -certified in clinical genetics, have experience in medical genetics and in molecular genetic research, and have potential to establish and maintain an active research program. Demonstrated teaching skills are also essential. Send current curriculum vitae and three letters of recommendation to:

Louis J. Elias, II, M.D.
Professor of Pediatrics
Director, Division of Medical Genetics
Emory University School of Medicine
Pediatrics/Medical Genetics
2040 Ridgewood Drive
Atlanta, GA 30322

Deadline for submission of applications is 28 February 1991. Emory University is an Equal Opportunity/Affirmative Action Employer. Women and minorities are encouraged to apply.

**ASSISTANTSHIPS GRADUATE PROGRAM IN NEUROSCIENCE**

The Neuroscience Program at College of Medicine at The Milton S. Hershey Medical Center of the Pennsylvania State University is available in August 1991. This interdepartmental program is designed to confer a Ph.D. degree with a major in neuroscience. Participating faculty have established research programs in molecular biology of the nervous system, neurophysiology, neuroendocrinology, behavioral science, neuropharmacology, neurovirology, and cellular blood flow and metabolism. Interested candidates are invited to apply to: Dr. Robert B. Page, Director, Neuroscience Program, P.O. Box 850, Hershey, PA 17033.

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**ASSOCIATE SCIENTIST POSITION**

Position available for Associate Scientist (three years post-doctoral experience) and/or postdoctoral fellow. The successful applicant will be engaged in research on the biochemical and molecular mechanisms by which angiotensin peptides and other hormonal and pharmaceutical stimuli mediate cardiac muscle cell growth. There will also be the opportunity to engage in research defining the role of a localized intracellular renin-angiotensin system in mediating cardiac muscle cell growth, with an emphasis on the regulation of the precursor genes for this system.

Competitive salary and fringe benefits are available. Please send CV and three names or letters of reference to:

Dr. Kenneth M. Baker
Weis Center for Research
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North Academy Avenue
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FACULTY POSITION
ECOLOGY OF FRESHWATER OR WETLAND VERTEBRATES

Applications are invited for a 9-month tenure-track position at the ASSISTANT PROFESSOR level in the Department of Zoology and Wildlife Science at Auburn University (AU), effective 16 September 1991. Applicants must have a Ph.D. in biological science with an emphasis in freshwater or wetland vertebrate zoology, and must provide evidence of potential for teaching excellence. The position entails participation in teaching at the freshman level in a general biology program, participating in an undergraduate upper-level course in vertebrate zoology, and developing graduate level coursework. The successful candidate will be expected to direct graduate students, to develop an externally-funded research program, and to participate in position-related service activities. Salary will be commensurate with experience. Applicants should submit a letter outlining goals; curriculum vitae including training, experience, and list of publications (with selected reprints); academic transcripts; and three to five letters of reference by 15 March 1991 to: Dr. John F. Pritchett, Head, Department of Zoology and Wildlife Science, Auburn University, AL 36849-5414. Telephone: 205-844-9228. FAX: 205-844-9224. Members of minority groups and women are encouraged to apply. AU is an Affirmative Action/Equal Opportunity Employer.

POSITIONS OPEN

THE UNIVERSITY OF CHICAGO
POSTDOCTORAL LECTURESHIP IN VERTEBRATE BIOLOGISTS

A 12-month position for 1991 to 1992 to begin anytime between July and September 1991 and renewable for one additional year. The successful candidate will share responsibility with departmental faculty for laboratory instruction and assistance in the department's human morphology course. This commitment requires about 150 contact hours per week (average 2.5 afternoons per week over the fall quarter). The successful candidate is expected to pursue her/his research interests with a departmental faculty member during the rest of the year. Applicants must have completed the Ph.D. and have a course in human gross anatomy. Send curriculum vitae, statement of research interests, and three letters of reference to: Dr. Philip S. Ulinski, Department of Organismal Biology and Anatomy, The University of Chicago, 1025 East 57th Street, Chicago, IL 60637.

The University of Chicago is an Equal Opportunity Employer. Women and members of minority groups are specifically encouraged to apply.

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POSTDOCTORAL POSITION IN CANCER RESEARCH

Studies to investigate the cellular and molecular mechanisms that control differentiation, proliferation, and anticancer/cancer suppressor activity; how control of these processes is linked; and how defective linkages mediate carcinogenesis. References for studies on these topics from this laboratory include: J. Cell Biol. 109, 1957-1966 (1989); PNAS 86, 1652-1656 (1989); Cancer Res. 49, 1008-1013 (1989); J. Biol. 63, 2718-2725 (1989); and J. Cell Physiol. 142, 552-558 (1990). Candidates should have strong background in cell biology including tissue culture and in molecular biology and candidates should send their curriculum vitae, bibliography, and three letters of recommendation by 1 March 1991 to: Dr. Robert E. Scott, Professor and Chairman, Department of Pathology, The University of Tennessee Medical Center, 800 Madison Avenue, 576 Baptist Main, Memphis, TN 38163.

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NMR SPECTROSCOPIST

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Research will include NMR methodologic studies not directly related to aging, studies of the effects of aging on skeletal muscle metabolism in humans, and small animal work oriented towards cardiac, pulmonary, and brain physiology and metabolism.

A Bruker Biospec 1.9T/31 cm spectrometer is available on-site in Baltimore. In addition, a high-field vertical wide-bore instrument is expected to be installed in mid-1991. The NMR facilities of the main NIH campus in Bethesda, as well as instrumentation at Johns Hopkins Medical School will also be available.

The appointment will be as a IRTA or Staff Fellow, and the salary will depend on experience and qualifications.

A position is also available for a technician.

Please send curriculum vitae and bibliography to:

Dr. Richard Spencer
c/o Dr. Gunther L. Eichhorn
Chief, Laboratory of Cellular and Molecular Biology
NIH Gerontology Research Center
4940 Eastern Avenue
Baltimore, Maryland 21224

Further information can be obtained by contacting Dr. Eichhorn at (301) 550-1807.

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DEPARTMENT OF THE ARMY OVERSEAS JOB VACANCY

MATERIALS ENGINEER

Applications are being accepted for the position of Materials Engineer at the U.S. Army Research, Development and Standardization Group (United Kingdom) in London, England. This is a Civil Service position at the GS-15 grade level with a salary range of $56,216-$76,982 per annum. (A 4.1% increase is proposed for January 1991.)

The incumbent plans, directs and coordinates the materials science research and development programs of the Department of the Army in Europe and the Middle East. The research program is accomplished through contracts with educational institutions, research institutes and government and industrial laboratories. The incumbent encourages proposals for research in various fields of materials science including degradation and reactivity; effects of structure, defects and composition on materials properties; new methods of synthesis and processing; and new concepts in materials characterization. Makes decisions concerning the relative value of proposed and ongoing research projects. Establishes and maintains contact with the entire professional and scientific community of Europe identified with materials science research.

In addition to the basic requirement of a bachelor's or higher degree in engineering, applicants must have one year of specialized experience in materials engineering equivalent to the next lower grade in the Federal Service and a background in fundamental research. Applicants should possess (1) Ability to plan, direct and guide a research program in materials science; (2) Ability to evaluate research proposals for technical merit; (3) Advanced knowledge of materials science/engineering and evidence that technical competence has been maintained; and (4) Ability to interact effectively with other scientists, professional groups and management officials.

Applicants should submit a Standard Form 171, Application for Federal Employment (available at Federal Job Information Centers and Federal Personnel Offices) and a supplemental statement which addresses each qualification listed above to: U.S. Army Research Office, ATTN: SLCIS-CP-AR, P.O. Box 12211, Research Triangle Park, NC 27709-2211. For further information, call (919) 549-4212/4294. Applications must be received by January 31, 1991.

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A position is available for a Ph.D. level scientist with at least 1-3 years post-doctoral training in biochemistry and protein purification. Good oral and written skills a must. Familiarity with large scale purification procedures preferred.

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Senior scientist to direct tumor cell differentiation and/or drug resistance research. Qualified candidates will have a PhD in pharmacology, molecular biology, or tumor biology, and preferably 2+ years of experience in oncology research.

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MOLECULAR BIOLOGY

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POSTDOCTORAL FELLOWSHIP. Available for studies on the molecular basis of cell differentiation. Limited to those with recent Ph.D.'s. Prefer background in molecular biology. Send curriculum vitae and letters of reference to: Frank E. Stockdale, M.D., Ph.D. Stanford University School of Medicine, M211 Stanford, CA 94305-5306

POSTDOCTORAL FELLOWSHIPS. Available for research training in the molecular and cellular pathology of cancer for M.D. or Ph.D. graduates are available in Temple University School of Medicine. The program offers specialized research training in the molecular basis of normal and abnormal cell proliferation and the molecular genetics of cancer utilizing the facility and resources of this Research Institute for Cancer Research and Molecular Biology. Must be U.S. national or permanent resident. Send curriculum vitae, statement of research and career objectives, and two letters of reference to: W. Edward Mercer, Ph.D., Program Director, Department of Pathology, Temple University School of Medicine, 3400 North Broad Street, Philadelphia, PA 19140. An Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL FELLOWSHIPS. Available in Molecular Evolution and Systematics for candidates who have experience with molecular methods such as DNA sequencing and RFLP analysis. Send resume and names and numbers of three references to: Dr. David M. Mindell, Department of Biological Sciences, University of Cincinnati, Cincinnati, OH 45221-0006. Telephone: 513-556-9743. Equal Opportunity Employer.

POSTDOCTORAL POSITION. Available immediately for molecular biologists interested in studying mammalian gene expression and vitamin metabolism. A Ph.D. degree or equivalent is required. Send curriculum vitae and three references to: Dr. Dov Jaron, Director, Biomedical Engineering and Science Institute, Drexel University, Philadelphia, PA 19104.

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POSTDOCTORAL FELLOWSHIP. In a training program in arteriosclerosis research which includes studies on the structure and function of cerebral cell biology, nutrition and vitamin metabolism. Columbia University takes affirmative action to ensure equal opportunity. Send curriculum vitae to: Dr. Stan More, SCOR Administrative Officer, Institute of Human Nutrition, 650 West 168th Street, New York, NY 10032.

POSTDOCTORAL FELLOWSHIPS. Available for research training in the cellular and molecular biology of complement proteins. Experience in cloning, sequencing, mammalian expression, and cell culture desirable. Must be U.S. citizen or permanent resident. Please send curriculum vitae and names and references of three individuals to: Dr. Robert Hay, Department of Biochemistry and Molecular Biology, Georgetown University, 3900 Reservoir Road, N.W., Washington, D.C. 20057. An Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL FELLOWSHIPS. Available for research training in the molecular and cellular pathology of cancer for M.D. or Ph.D. graduates in the Department of Anatomy and Cell Biology. Send curriculum vitae to: Dr. Laurence M. Demers, Department of Pathology, The M. S. Hershey Medical Center, P.O. Box 70033, Hershey, PA 17033. An Equal Opportunity/Affirmative Action Employer. Women and minorities are encouraged to apply.

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Markey Graduate Fellowships in Molecular Biology
University of Vermont
Department of Microbiology and Molecular Genetics
Markey Center for Molecular Genetics

The Graduate Program in the Department of Microbiology and Molecular Genetics offers intensive training in molecular biology and molecular genetics. We are a young department that has recently undergone major expansion. We recently awarded a $1.8 million dollar grant from the Lucille P. Markey Foundation to establish a Center in Molecular Genetics, and will occupy a new research building in 1992. Ph.D. and M.S. students are supported by research or teaching fellowships. The graduate program offers exciting research projects and a dynamic faculty. Areas of research include transcription by RNA polymerase II (E. Bateman), ribozymes and self-splicing RNA (J. Burks), molecular aspects of adhesion and invasion (P. Fingers, W. Ralston), biochemistry and regulation of mRNA processing (G. Gilmartin), genetic control of cellular polarity in yeast (D. Johnson), cell-cell interactions in yeast mating (J. Kurland), DNA damage and repair mechanisms (S. Wallace, Y. Kow, R. Melamede), genetics of diphtheria toxin resistance and virus-cell interactions (T. Mohring, J. Mohring), molecular biology of fungal mating and development (C. Novotny, C. Raper), transcription of chromatin (D. Pederson), regulation of HIV transcription (K. Pratt), transformed carcinogenesis (W. Schaffner), and environmental microbiology (R. Soder). Postdoctoral fellowships are also available.

Burlington is a small and lively city offering abundant cultural and recreational opportunities, located on the shore of Lake Champlain between the Green Mountains and the Adirondacks. For application forms and further information contact:

Dr. David Pederson
University of Vermont
Department of Microbiology and Molecular Genetics
Health Science Complex
Burlington, VT 05405
Tel: (802) 656-2164
Fax: (802) 656-8749

POSTDOCTORAL POSITION AVAILABLE

The Section of Clinical Brain Research in the Laboratory of Clinical Studies, National Institute on Alcohol Abuse and Alcoholism (NIAAA) has an opening for a behavioral scientist with an interest in behavioral genetics. We expect the successful applicant to develop techniques to approach the neurobiology of anxiety and aggression in mice. A Ph.D. or M.D. is essential, and experience in behavioral genetics, ethology, or the behavioral effects of drugs is desirable.

Candidates may have academic, research or clinical background in behavioral science, pharmacology, neurobiology, or a related field. Position is initially for two years, with possibility of extension for an additional three years. Salary is competitive and includes benefits. The appointment may be adjusted depending on the candidate’s postdoctoral experience. Appointment is for an Intramural Research Training Associate (IRTA) or Fogarty Visiting Fellow.

The Laboratory is located on the campus of the National Institutes of Health, Bethesda, Maryland. If you are interested in this position, send a letter describing yourself and include a statement of scientific interest, a resume, and the names of three references to:

Richard G. Lister, Ph.D.
Laboratory of Clinical Studies
NIAAA/NIH
Building 10, Room 3C102
9000 Rockville Pike
Bethesda, Maryland 20892

NIAAA is an Equal Opportunity Employer
Positions Open

Molecular Biologist/Neuropsychologist
Alcohol Research

The Psychiatry Department and Alcohol Research Center at the University of North Carolina (UNC) are seeking applicants for a RESEARCH ASSOCIATE position in molecular neuropharmacology. We are seeking a candidate who has applied techniques of molecular genetics, pharmacology, and behavioral assessment in the CNS. The ideal candidate will have a background in receptor/second messenger systems as well as a doctorate in the biological sciences. Several years work experience in neuroscience or pharmacology are required. Candidates should have published work in the molecular biology of alcoholism and demonstrated the ability to compete for research awards. Position is available 1 July 1991. Send curriculum vitae, descriptions of research accomplishments, and the names and addresses of three references to: A. Leslie Morrow, Ph.D., Department of Psychiatry, CB 7175, University of North Carolina, Chapel Hill, NC 27599. Women and minorities are especially encouraged to apply. UNC is an Affirmative Action/Equal Opportunity Employer.

Research Associate

To design and conduct basic research using various techniques such as spectrophotometry, photonization processes, mass spectrometry, and synchrotron radiation. This position is available January 1991. Send curriculum vitae, a brief statement of research accomplishments, and the names of three references to: A. Leslie Morrow, Ph.D., Department of Psychiatry, CB 7175, University of North Carolina, Chapel Hill, NC 27599.

The Laboratory of Molecular and Biochemical Genetics of the Department of Pediatrics is seeking a RESEARCH ASSOCIATE to participate in a study of putting together a gene based on inherited disease in the branched chain alpha-ketoacid dehydrogenase. Clinical research includes studies of disease diagnosis and management, interaction with families in the design and implementation of in vivo experiments to evaluate changes in body oxidation of Leucine-1,13C to 13CO2. Position requires a Ph.D. or equivalent degree with at least 1 year of general clinical experience, preferably 1 year of clinical research training experience, and skills with standard enzyme assays of cultured cells and Western blotting analysis. Position includes time during the course of training should include basic courses in biochemistry, anatomy, microbiology, pharmacology, physiology, enzyme assays, and computer analysis of analytical data. Starting annual salary range of $20,000 to $25,000. Send curriculum vitae to: Georgia Department of Labor, 1275 Clarendon Avenue, Avondale Estates, GA 30020 or to the nearest Georgia Job Placement Center. Job Order 238 G0462859.

Research Scientist


The University of California, San Diego (UCSD), seeks applications for a POSTDOCTORAL RESEARCHER (PGR). Candidates should have experience in molecular biology and retrovirology or herpesvirology. Prefer research in AIDS pathogenesis or the role of viral cofactors. Position available immediately for at least 2 years. Salary range based on University of California policy. Send curriculum vitae with a list of three references no later than 30 June 1991 to: Stephen A. Spector, M.D., Professor, Department of Pediatrics and Center for Children's Health Care, University of California, San Diego Medical Center, 225 Dickinson Street (H-814-H), San Diego, CA 92103. Equal Opportunity/Affirmative Action Employer.

POSITIONS OPEN

THE UNIVERSITY OF QUEENSLAND
DEPARTMENT OF PHYSIOLOGY
AND PHARMACOLOGY

Senior Research Officer (Two Positions)

We are seeking neuroscientists (or electrical engineers) to join a team working on the characteristics of autonomic neuronal pathways. Applicants should have research interests in synaptic mechanisms, neural connectivity, and/or development and regeneration of neurones and their responses. Experiments involve primarily in vitro studies on central and peripheral neurones. Postdoctoral experience in electrophysiological recording, intracellular dye techniques, immunohistochemistry, and/or computer modeling of neurones is preferred. Appointment to 31 December 1991 in the first instance, with renewal possible to end of 1994. Salary: research officer, $28,792 to $32,762; senior research officer, $33,163 to $37,420. For further details, please contact: Professor E. M. McLachlan, 61-7-377-3133, or Dr. J. R. Keast, 61-7-377-4524. Send written applications to: Professor E. M. McLachlan, Department of Physiology and Pharmacology, University of Queensland, Queensland 4072, Australia. Closing date: 31 January 1991. Ref. No. 60790.

Opportunities In Transplantation Therapy

Transplantation Immunologist, Ph.D. and postdoctoral experience in immunology, under-student's degree or equivalent. Research involves investigation of immunological reactions in transplanted allogeneic and xenogeneic tissue, implants, and foreign bodies.

Scientist, Islet Biology. Ph.D. and postdoctoral experience in cell biology, biochemistry, or developmental biology with a biochemical analytical perspective. Hands-on diabetes research skills in methods of islet cell biochemistry, culture, cell separation, and purification. Excellent oral and written communication skills. Send FAX résumé/curriculum vitae and three references to: Dr. Orin Hreg, Cellular Transplants, Inc., 4 Richmond Square, Providence, RI 02906. FAX: 401-272-3485.

Associate in Clinical Medicine

Position in Division of Metabolism and Nutrition, Columbia University (Columbia Presbyterian Medical Center). Responsibilities include care of patients with lipid disorders; coordination of clinical drug trials with nutrition investigators. Applicants must have experience in care of residents and students in lipid clinic. Applicants must be Board-certified in internal medicine and have significant experience in the design and analysis of clinical trials in the field of lipid metabolism. Salary: $35,000. Columbia University takes Affirmative Action to ensure Equal Opportunity. Contact: Human Resources Department, Columbia University, College of Physicians and Surgeons, 630 West 168th Street, New York, NY 10032.

Cancer Research

Full-time position for Ph.D. or research-oriented physician to perform bench-related oncology research. Prefer individual interested in biological response modifiers but may consider other medical/biology-related research interests. Postdoctoral experience and demonstrated research potential are required. Please submit curriculum vitae, letter of interest, research plan, and names of three references to: David R. Pieper, Ph.D., Director of Physiology and Research, Providence Hospital, Southfield, MI 48037.

Immunological Researcher

For northwestern Ohio hospital to perform medical research in the field of immunology. No experience required in above duties but applicants will qualify with M.D. in medicine and 2 years of experience as a research fellow preferably in a lab setting. Experience with linked immune assays (ELISA) for fibrinogen and assay evaluation and procedure modification for ELISA, radio-immun assay (RIA), and competitive enzyme linked immunosassay (CLIA) techniques. Monday to Friday, 7 a.m. to 4 p.m., $2030.63 per month. Must have proof of legal permanent residence in the United States. Send résumé in duplicate (no calls) to: J. Davies, JO#1153570, Ohio Bureau of Employment Services, P.O. Box 1618, Columbus, OH 43216.
Aggressive, goal-driven research gives Schering-Plough its competitive edge in the health care industry. If you are an innovative scientist who shares our goals, this is your opportunity to apply your thinking to some of today's most significant pharmaceutical breakthroughs.

**Biochemistry**

**Principal Scientist**—Will lead a team of physical biochemists conducting structural research on recombinant cytokines and their receptors, and will apply these findings to the rational design of novel therapeutic agents. A Ph.D. in Biochemistry or related discipline is essential coupled with 5-8 years' relevant post-doctoral experience. A strong background in physical and analytical protein chemistry, a good understanding of 3-dimensional protein structure, and outstanding communication skills are also required. Experience with molecular modeling of protein/polypeptide, as well as with technologies such as multidimensional NMR spectroscopy that can directly define the 3-dimensional structure of proteins would be a definite plus. Ref. *88-86.

**Sr. Scientist**—Will design novel therapeutic agents through structural definition of cytokines and their receptors using physical-chemical techniques. Requires a Ph.D. in Physical Biochemistry or related field together with 0-4 years' relevant post-doctoral experience. Special attention given to candidates with a background in characterization of protein structure and dynamics using heteronuclear NMR spectroscopy methods, or experience in structural analysis of oligosaccharides derived from proteins. Ref. *89-61.

**Post Doctoral Scientist**—This position will investigate the structure of cytokines, their receptors and related polypeptides by employing NMR spectroscopy methods. You will present these findings at national meetings and in peer-reviewed journals. Requires a Ph.D. in Biochemistry or related discipline coupled with a background in protein chemistry, NMR spectroscopy and distance geometry methods. Experience in multi-dimensional analyses of isotopically labeled proteins and peptides would be ideal. Ref. *90-20.

**Cell Biology**

**Sr. Scientist**—This unique position will focus on *in-vitro* and *in-vivo* Cytokine Biology. A Ph.D. in Immunology or Cell Biology with 0-4 years' post-doctoral experience is required. Desired qualifications include proven expertise in Cytokine Interaction in the development of Haematopoietic Progenitor cells and mature lymphocytes. This position offers the rare opportunity to work with a multidisciplinary team comprised of cell and molecular biologists. Ref. *90-63.

**Molecular Biology**

**Post Doctoral Scientist**—You will be part of our highly collaborative lymphokine antagonist program, with research focused on cloning and expression of the immunoglobulin repertoire. This will involve a multidisciplinary approach involving cell culture, cDNA cloning using the polymerase chain reaction, construction of antibody chimeras, and heterologous gene expression in *E. coli* and/or mammalian cells. Requires Ph.D. in Molecular/Cell Biology, Immunology, Biochemistry or related field. Familiarity with recombinant DNA/genetic engineering technology preferred. Ref. *90-19.

At Schering-Plough, you'll receive all the support and recognition to pursue your best ideas. In addition to outstanding resources and an exciting research environment, we offer a competitive salary and benefits package. For immediate consideration, please forward your resume, indicating ref. *, to: Mr. G. Czuba, Schering-Plough Research, 60 Orange Street, Bloomfield, NJ 07003.

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The only thing that should come between you and your work.

The New Nikon Optiphot-2 Research Microscope

Beyond the theoretical limit of microscopy lies the performance of the Nikon Optiphot-2. With diffraction-limited, aberration-free Nikon CF optics, and a light path that is free of relay lenses, it introduces a new level of image resolution. The first time you use the Optiphot-2, you'll know it was designed with the researcher in mind.

Optiphot-2 makes it easy to work with low-contrast specimens, epifluorescence, ultra-low power objectives, multi- and dual-viewing systems, photomicrography or video microscopy. The powerful 100-watt halogen illuminator provides more than enough light for every application, including ultra-high resolution DIC.

The reversed nosepiece, the large, soft, focusing knobs and the coarse focusing preset provide nearly effortless operation. And for photomicrography, the new Auto-Photo button on the front panel facilitates perfect one-touch color exposures. So, if you're going to let anything get between you and your work, make sure it's the Nikon Optiphot-2.

For more information, contact your local dealer or Nikon Inc., Instrument Group, 623 Stewart Avenue, Garden City, New York 11530. Or call (516) 222-0200.