

Noncontact Thermometers

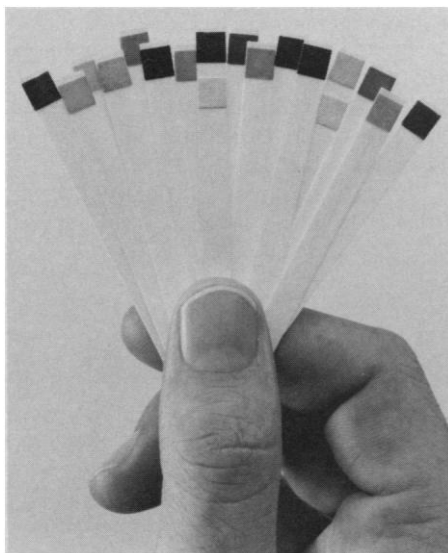
The Kent THR-600 series of infrared thermometers can record temperatures without being in contact with the source. Laboratory applications include nondestructive testing and temperature measurement of dangerous materials or inaccessible objects. The THR-600 is a passive sensor that receives and measures radiation from an object. Measurements can be made rapidly (1 s) so thermal patterns and transient phenomena can be observed. Heat is not removed from the body, which makes the measurement more accurate. Moving objects and sensitive preparations, such as samples on a microscope stage, can be measured without disruption. Kent Scientific Corp. Circle 515.

Automated Peptide Synthesizer

The Model PS3 Peptide Synthesizer is a fully automated, user-friendly instrument. To synthesize most peptides, the user simply loads the desired amino acid vials, indicates the start and stop positions on the carousel, and pushes "RUN." The PS3 performs the synthesis unattended using factory preset parameters. For unusual peptides, parameters can be customized easily. Rainin Instrument Co. Circle 521.

Laboratory on a Stick

EM Quant Test Strips are an extensive new line of test strips for on-site chemical screening. More than 30 varieties provide selective, semiquantitative screens in "dip-and-read" fashion for pH; dissolved ions such as chlorine, cyanide, ammonium, nitrate, sulfate, and sulfite; and a variety of metal ions including aluminum, iron, manganese, chromate, copper, silver, cobalt, lead, and zinc. Most strips are sensitive to the low parts-per-million range; several re-



spond below 1 ppm. Based on classic organic and inorganic reaction chemistries, the pads incorporate special detection agents, buffers, masking agents, and stabilizers that produce indicating hues of red, orange, blue, violet, yellow, or green. EM Science. Circle 529.

Ion Measurement in Living Cells

The SPEX SP-CM Cation Measurement system is a dual-wavelength research spectrofluorometer for convenient analysis of pH and Ca^{2+} , Na^{+} , and other ions in single living cells or cell suspensions. The SP-CM is configured for wavelength as well as time-based cation studies with a variety of fluorescent probes. The SP-CM can also be used for fluorescence anisotropy, enzyme-substrate kinetics, and antibody-antigen binding studies. SPEX Industries. Circle 519.

Computer Virus Simulator

MICROSCOPE is a program that allows the user to see a simulation of several computer viruses at work. The program runs on all IBM-compatible MS-DOS computers. UNI-TECH Software. Circle 531.

Bibliographic Reference Software

Get-A-Ref 4.3 is a menu-driven bibliographic reference software program that allows a scientist to access reference information while working in a word processing program. The user can insert references and comments directly into the document's text at the touch of a key. Reference lists can be

created automatically and tailored to the specifications of any journal or book. Get-A-Ref can contain as many as 32,000 references with 16,000 characters each. References obtained via Medline or other lexicographic databases can be automatically converted into Get-A-Ref file format. The program operates on IBM-compatible computers with MS-DOS or PC-DOS. DatAid. Circle 528.

Messenger RNA Isolation Kit

RiboSep is a complete kit for isolation of high-quality mRNA directly from cell or tissue lysates. The kit contains all the reagents needed for up to four purifications with typical yields of 40 to 50 μg of mRNA from 1 g of tissue. The process takes 4 hours. Collaborative Research. Circle 523.

Literature

Caltag Laboratories 1990 Catalog covers a range of 550 immunological reagents including affinity-isolated polyclonal antibodies, monoclonal antibodies, and related products. Featured new products include monoclonal antibodies to human antigens, polyclonal antibodies to oncogene proteins, immunogold conjugates, and chimeric antibodies. Caltag Laboratories. Circle 545.

The 1991-1992 *Thomas Scientific Catalog* is a full-color, hardcover book containing 1,632 pages and more than 19,000 listings of laboratory instruments, supplies, and reagents. The volume includes a 50-page index. Thomas Scientific. Circle 546.

Electrophoresis Instruments and Accessories is a 160-page color catalog. In addition to listing instruments, it includes a section on techniques and exercises. Hoefer Scientific Instruments. Circle 547.

Reagents for Cell Culture 1990 features information on reagent form, purity, concentration, working dilutions, pricing, and other product details. Reagent offerings include cell factors and cytokines, antibodies to factors and cytokines, media supplements, dissociating and harvesting enzymes, hybridoma reagents, and antibiotics. Boehringer Mannheim Biochemicals. Circle 549.

The *Perkin-Elmer AD Series Autobalances* describes the company's line of microprocessor-controlled ultramicrobalances for weighing samples from 0.1 μg to 1000 mg. Perkin-Elmer. Circle 552.

Preparative Chromatography is a 65-page catalog describing a full range of preparative, semi-preparative, and analytical products. Varex Corp. Circle 554.

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

Personnel Placement

SCIENCE publishes each Friday, except the last Friday of the year, and is mailed on issue date. Personnel advertising is accepted only with the understanding that the advertiser does not discriminate among applicants on the basis of race, sex, religion, age, color, national origin, handicap, or sexual preference. **SCIENCE** reserves the right, in its discretion, to decline to publish advertisements submitted to it.

LINE CLASSIFIED ADVERTISEMENTS

DEADLINE: Thursday, 10 a.m., 2 weeks prior to issue date. Advertising is accepted only in writing.

POLICIES: All classified ads will be edited and typeset according to **SCIENCE** style guidelines. NO ABBREVIATIONS. Any deadline for applications stated in ad must be at least 2 weeks after date of publication.

CLASSIFICATION: **SCIENCE** publishes line classified ads under the following headings: **Positions Open, Employment Agencies, Situations Wanted, Courses and Training, Meetings, Announcements, and Marketplace.** Advertisers should specify classification desired, however, **SCIENCE** reserves the right to decline classification requests which it believes may be misleading to readers.

RATE: \$41 per line, \$410 minimum, per week. One line equals 52 characters and spaces; centered headings equal 32 characters and spaces per line. No charge for use of blind box number. No agency commission for ads less than 40 lines. To ESTIMATE ad cost, structure ad copy on a 52-character line, include any desired heading on 32-character lines. Each line of heading, one line of white space between heading and body of ad, 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 typeset lines and resulting final cost. Purchase orders must allow for some degree of flexibility and/or adjustment. **SCIENCE** cannot provide proofs of typeset ads.)

CREDIT CARDS: **SCIENCE** accepts MasterCard and VISA.

PREPAYMENT DISCOUNT: A 3% cash discount is granted to all prepaid line ads. Prepayment in U.S. dollars by checks drawn on U.S. banks is required for all foreign ads.

BOXES AND LOGOS: Any 1-column line classified ad can be boxed and/or published with logo. No extra production charge for use of box or 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.

SITUATIONS WANTED ADS: As a service to AAAS members in good standing, **SCIENCE** offers free placement of Situations Wanted ads for individuals seeking full-time or part-time employment. A blind box may be used. Ads must be submitted in writing with text of 20 words or less, not including address or box number, and are limited to two insertions per member in each calendar year. Please enclose **SCIENCE** mailing label including AAAS membership number when submitting ad.

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

Address ad copy or requests for information to

SCIENCE Classified Advertising
1333 H Street, NW, Room 940
Washington, DC 20005
Telephone: 202-326-6555
FAX: 202-682-0816

DISPLAY PERSONNEL ADVERTISEMENTS

For rates, deadlines, and information about fractional display ads (1/6 page and larger) and all Marketplace listings of available products and services, contact

Scherago Associates, Inc.
1515 Broadway
New York, NY 10036
Telephone: 212-730-1050
FAX: 212-382-3725

RESPONSES TO EMPLOYMENT ADS

Applicants should read Positions Open ads carefully in order to submit all required material when responding, and should especially check for any stated deadline for receipt of applications. **SCIENCE** encourages applicants for positions to investigate employment laws, non-discrimination policies, visa requirements, and cultural differences in the country advertising for employees.

To reply to a blind box ad, address correspondence to

Box (give number)
SCIENCE Classified Advertising
1333 H Street, NW, Room 940
Washington, DC 20005

POSITIONS OPEN

ASSISTANT PROFESSOR BIOLOGY DEPARTMENT WILLIAMS COLLEGE

Anticipated tenure-track position beginning July 1991 for a physiologist with strong interests in teaching and research. Ability to teach a range of courses including general biology desirable. Normally faculty members teach one course and two laboratory sections each semester. A research program in modern organismal or regulatory physiology which can attract extramural funding and involve undergraduates is expected. Special interests might include, but are not limited to, physiological ecology or evolutionary biology involving invertebrates or lower vertebrates.

Ph.D. required, some postdoctoral experience desirable. Please send curriculum vitae, statement of teaching and research interests, and three letters of reference by 9 November 1990 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.

ASSISTANT PROFESSORS NEUROSCIENCES CASE WESTERN RESERVE UNIVERSITY

The Department of Neurosciences at Case Western Reserve University School of Medicine has two tenure-track openings for assistant professors. Candidates should have at least 2 years of postdoctoral research experience and be ready to start their own independent research program. Teaching duties primarily involve lecturing on the neurosciences to graduate and medical students. One position is for an individual using modern biophysical techniques to study ion channels and/or receptors. The other position is less restricted and could involve a person in any area of neuroscience, particularly cellular, molecular, or developmental neuroscience. The department includes eight primary faculty and will expand over the next several years to a size of 12 to 15. Also, more than 15 neuroscientists from other departments play an active role in research and teaching. Interested candidates should send (by 1 December 1990) their curriculum vitae, names of four individuals willing to write letters of reference, and a brief summary of future research plans to: **Dr. Richard Zigmond, Chair, Search Committee, Department of Neurosciences, Case Western Reserve University School of Medicine, 2040 Adelbert Road, Cleveland, Ohio 44106.**

The University is an Equal Opportunity/Affirmative Action Employer.

ORGANIC CHEMIST, PHYSICAL CHEMIST.

The Chemistry Department of Williams College invites applications for two anticipated positions at the ASSISTANT PROFESSOR level for fall of 1991. The organic chemistry appointment is a tenure-track position. The initial teaching assignments will include courses in organic chemistry. The physical chemistry position will be either a tenure-track position or a 3-year term (replacement) position with the initial teaching assignments involving courses in physical chemistry including quantum chemistry. For both positions additional assignments will be from other courses in the curriculum consistent with the individual's background and interests and the needs of the department. A semester teaching load normally includes complete responsibility for one course, including laboratory sections, and supervision of student research projects. Candidates should have a Ph.D. (postdoctoral experience is preferred) and a strong commitment to teaching at the undergraduate level and developing a productive research program. Appointment at a senior level is possible under special circumstances. Williams College is a highly selective, coeducational liberal arts institution of approximately 236 faculty and 1950 undergraduates, located in northwestern Massachusetts. The chemistry department, with nine faculty members and 25 to 35 majors each year, is accredited by the ACS and has excellent facilities for teaching and research. Send résumé, undergraduate and graduate transcripts, description of research projects for undergraduates, and three letters of recommendation to: **Dr. Lawrence J. Kaplan, Chairman, Department of Chemistry, Williams College, Williamstown, MA 01267, by 30 November 1990. As an Affirmative Action/Equal Opportunity Employer, Williams College is especially interested in identifying minority and women candidates.**

POSITIONS OPEN

ASSISTANT PROFESSOR, ANATOMY. Full-time, tenure-track, or long-term contract. The Department of Basic Sciences, California College of Podiatric Medicine, seeks a Ph.D. or M.D. to coordinate and teach a course in human gross anatomy. Applicants must have a strong commitment to teaching. Starting salary commensurate with experience. Range: \$37,000 to \$43,000. A complete curriculum vitae and the names of three references should be sent by 15 December to: **Barbara M. Kriz, Ph.D., Department of Basic Sciences, California College of Podiatric Medicine, 1210 Scott Street, San Francisco, CA 94115. An Affirmative Action/Equal Opportunity Employer.**

Washington University, Department of Anthropology, invites applications from physical anthropologists for a tenure-track ASSISTANT PROFESSOR position, appointment beginning fall 1991. Specialty is open but preference will be given to the candidate with an outstanding record of research and demonstrated teaching ability. Ph.D. required. Salary is competitive and commensurate with experience. Send curriculum vitae and names of five referees to: **Chair, Department of Anthropology, Box 1114, Washington University, One Brookings Drive, St. Louis, MO 63130. Deadline: 15 February 1991. Equal Opportunity/Affirmative Action Employer. Employment eligibility verification required upon hire.**

ASSISTANT PROFESSOR OF BIOLOGY. Tenure track. Ph.D. training in cellular/molecular biology and commitment to undergraduate teaching required. Teaching responsibilities will include introductory course and upper-division specialty course; research involving undergraduates is encouraged. The department is composed of six faculty and will occupy new facilities in 1991. Send curriculum vitae including reference list to: **R. I. Peters, Department of Biology, Lynchburg College, Lynchburg, VA 24501 by 23 November 1990. Lynchburg College encourages applications from women and minority candidates.**

ASSISTANT PROFESSOR, BIOLOGY

Applications are invited for two tenure-track positions. The applicants must have a research background in cell/molecular biology or biochemistry. Teaching responsibility is either in animal physiology or genetics. Experience is not required. Send résumé, transcripts, publications, and names of three references to: **Biology Search Committee, West Georgia College, Carrollton, GA 30118. Screening will continue until the positions are filled. Inquiries: 404-836-6547. An Affirmative Action/Equal Opportunity Employer.**

ASSISTANT PROFESSOR VERTEBRATE BIOLOGY

Tenure-track position available starting September 1991. Hollins College, a private 4-year liberal arts college for women, seeks a vertebrate biologist to teach undergraduate courses in general biology, comparative anatomy, embryology, and histology. Experience in scanning EM is highly desirable. Accepted candidate is expected to develop an active research program involving undergraduate students. Ph.D. required. Curriculum vitae, statement of teaching and research interests and experience, copies of significant publications, and three letters of recommendation should be sent to: **Dr. Harriet Gray, Chair, Department of Biology, Hollins College, P.O. Box 9616, Roanoke, VA 24020 by 1 January 1991.**

Hollins College is an Affirmative Action/Equal Opportunity Employer.

The Department of Biological and Environmental Sciences at Georgia College invites applications for a tenure-track position at the level of ASSISTANT PROFESSOR in VERTEBRATE PHYSIOLOGY starting September 1991. Applicants should have a strong commitment to teaching and research. Responsibilities include teaching comparative physiology, cell physiology, human anatomy and physiology, and introductory biology as well as directing undergraduate and graduate student research. Applicants should send curriculum vitae, official transcripts, description of research interests, and three letters of recommendation by 5 December 1990 (or until position is filled) to: **Dr. William P. Wall, Search Committee Chairman, Department of Biological and Environmental Sciences, Georgia College, Milledgeville, GA 31061. Georgia College is an Affirmative Action/Equal Opportunity Employer.**

POSITIONS OPEN

ASSISTANT PROFESSOR OF BIOLOGY. The Department of Biology invites applications for three positions: immunobiologist (preferably with experience in eukaryotic microbiology), comparative physiologist, and cell biologist (EM experience). Ph.D. required, postdoctoral research experience preferred. Undergraduate teaching in general and specialty courses and research in an M.S. program are expected. Application reviews begin 1 January 1991 until positions are filled. Send application including curriculum vitae and names and addresses of three references to: **Office of Academic Affairs, Biology Search, Western Kentucky University, Bowling Green, KY 42101.** Women and minorities are encouraged to apply. An Affirmative Action/Equal Opportunity Employer.

MOLECULAR BIOLOGIST. Tenure-track **ASSISTANT PROFESSOR.** Preferably with postdoctoral experience, with primary teaching responsibility in molecular biology and interest in genetics and development. Expectation to participate in the college's interdisciplinary programs, direct undergraduate research in the college's independent study program, and establish an active personal research program. Women and minorities are especially encouraged to apply. Send application, including transcript and three letters of reference, to: **J. E. Perley, Department of Biology, The College of Wooster, Wooster, OH 44691,** no later than 30 November 1990. The College of Wooster is an independent liberal arts institution with a commitment to excellence in undergraduate education. Affirmative Action/Equal Opportunity Employer.

ASSISTANT PROFESSOR OF MEDICINAL CHEMISTRY THE UNIVERSITY OF TEXAS

The Division of Medicinal and Natural Products Chemistry of the College of Pharmacy at the University of Texas at Austin invites applications for a tenure-track position at the **ASSISTANT PROFESSOR** level, to be filled by September 1991. Applications from individuals with appropriate backgrounds in any of the research areas associated with modern medicinal/bioorganic chemistry are encouraged. The selected candidate will be expected to show potential for developing a rigorous research program. Participation in undergraduate medicinal chemistry courses and development of graduate courses in the area(s) of research expertise is expected. A Ph.D. with postdoctoral experience is required, and a background in pharmacy is desirable. Send résumé, a summary of research plans, and the names of three references to: **Professor Patrick J. Davis, Head, Division of Medicinal and Natural Products Chemistry, College of Pharmacy, The University of Texas at Austin, Austin, TX 78712-1074.** The deadline for applications is 15 December 1990. The University of Texas is an Equal Opportunity/Affirmative Action Employer.

GENETICIST/CELL BIOLOGIST

Geneticist/cell biologist studying cellular or developmental phenomena in a eukaryotic system. The Biology Department of Boston College has a full-time, tenure-track position available at the **ASSISTANT PROFESSOR** level beginning in September 1991 for an individual with a Ph.D. and at least 2 years of postdoctoral experience to establish a vigorous, externally funded research program. In addition to teaching in his/her area of expertise, the candidate will be expected to contribute to departmental teaching needs in one of a number of other areas such as: human genetics, introductory biology, immunology, virology, or developmental biology.

Boston College, a university of 14,500 students, has a growing biology department with 20 faculty members and 45 graduate students in the M.S. and Ph.D. programs. The university has a strong commitment to research and offers competitive salaries, excellent start-up funds, and well-equipped facilities. Applications should include curriculum vitae, a list of publications, and a summary of current and future research plans. Applicants should also arrange for three letters of reference to be sent. All materials should be received by 15 January 1991.

Search Committee
Biology Department
Higgins Hall
Boston College
Chestnut Hill, MA 02167

Equal Opportunity/Affirmative Action Employer.

POSITIONS OPEN

ASSISTANT PROFESSOR OF NEUROLOGY (NEUROPHYSIOLOGY). We are searching for an electrophysiologist-biophysicist to develop a research program on voltage and ligand-gated channels in glial cells and precursors. Incumbent will interact with investigators studying morphological and molecular aspects of channel expression in glial cells. Experience with whole-cell and single-channel patch-clamp, preferably of glial cells, essential. Excellent patch-clamp laboratory is available. Send curriculum vitae and three letters of reference by 7 December 1990 to: **Bruce Ransom, M.D., Ph.D., Department of Neurology, LCI 712, Yale Medical School, New Haven, CT 06510.**

Affirmative Action/Equal Opportunity Employer.

ASSISTANT PROFESSOR

The Biology Department at Wheaton College announces an opening at the rank of assistant professor. The position is full-time, with an initial contract for 2 years, renewable. The principal areas of responsibility will be in plant biology, including introductory and advanced courses. Responsibilities may also include teaching introductory biology courses. The successful candidate will be expected to develop and maintain an active, on-going research program for which modest institutional support is available.

Wheaton College is a coeducational liberal arts institution in southeastern Massachusetts. Applicants should hold the degree of Ph.D. and teaching experience is desirable. Applicants should send a letter of interest, curriculum vitae, and three letters of recommendation. The deadline for applications is 31 December 1990.

Applications should be directed to: **Dr. Barbara Brennessel, Chair, Biology Department, Wheaton College, Norton, MA 02766.**

Affirmative Action/Equal Opportunity Employer.

ASSISTANT PROFESSOR. The Department of Chemistry at the University of New Mexico solicits applications for a tenure-track assistant professorship in biophysical chemistry beginning 12 August 1991. Qualifications for this position include a commitment to undergraduate and graduate teaching and the potential for developing a strong externally sponsored research program. Exceptional candidates in all bio-related fields of chemistry will be considered. However, special attention will be given to those applicants whose research complements the existing program of biophysical chemistry within the department. Please send curriculum vitae, description of research plans, and arrange for at least three confidential letters of recommendation to be sent to: **Professor M. R. Ondrias, Chair, Biophysical Search Committee, Department of Chemistry, University of New Mexico, Albuquerque, NM 87131.** To ensure full consideration, applications should be received and completed by 30 November 1990. Applications from minorities and women are especially encouraged. Equal Opportunity Employer/Affirmative Action.

UNIVERSITY OF COLORADO ATMOSPHERIC CHEMIST

The Department of Chemistry and Biochemistry and the Cooperative Institute for Research in Environmental Sciences (CIRES) seek to fill a position in the area of atmospheric chemistry. The tenure-track faculty position may start any time between January and September 1991. It is preferred to fill the position at the **ASSISTANT PROFESSOR** level, but candidates will be considered at all levels. The incumbent will teach atmospheric, analytical, or environmental chemistry courses and will be expected to develop a vigorous research program in atmospheric chemistry. We are particularly interested in candidates having field studies as a component of their research program. A Ph.D. is required. Minimum 9-month salary is expected to be \$36,000 for the position filled at the assistant professor level.

Send résumé, transcripts, and ask that three letters of reference be sent to: **Professor R. E. Sievers, Director of CIRES, Campus Box 216, University of Colorado, Boulder, CO 80309.** First consideration will be given to applications for the position that are received by 15 November 1990. The search will continue until the position is filled.

The University of Colorado, Boulder, has a strong institutional commitment to the principle of diversity in all areas. In that spirit, we are particularly interested in receiving applications from a broad spectrum of people, including women, members of ethnic minorities, and disabled individuals.

POSITIONS OPEN

ASSISTANT PROFESSOR MOLECULAR/CELLULAR NEUROBIOLOGY

The Department of Neurobiology and Physiology, Northwestern University invites applications and nominations for a tenure-track faculty position at the rank of **ASSISTANT PROFESSOR** beginning the fall of 1991. Outstanding applicants working in any area of neuroscience will be considered, although candidates working in molecular or cellular neurobiology are particularly encouraged to apply. There are 21 faculty members in the department with research programs in sensory neurobiology, neuroendocrinology, development, and plasticity. The department is a central component of over 70 faculty members. Our department and the Department of Biochemistry, Molecular Biology and Cell Biology form the life sciences division on the Evanston campus. Applicants should have a Ph.D., or M.D., and have completed postdoctoral training. Curriculum vitae, list of publications, a description of current and future research, and three letters of recommendation should be sent to: **Dr. Lawrence Pinto, Search Committee Chairman, Department of Neurobiology and Physiology, Northwestern University, 2153 Sheridan Road, Evanston, IL 60208.** The department encourages applications from women and minority candidates. Affirmative Action/Equal Opportunity Employer. Hiring is contingent upon eligibility to work in the United States.

INTERDISCIPLINARY PROGRAM. Tenure-track position, **ASSISTANT PROFESSOR.** Areas of specialization include: science, technology, society; science and technology policy; science, technology, and culture; and engineering/society. Duties include teaching course in "science and civilization" and/or "science and values;" developing new courses. Demonstrated teaching ability, emphasis on research/publication, Ph.D. required. Deadline: 1 December 1990. Send statement of interest, curriculum vitae, and three letters of recommendation to: **Dr. Jack Wilson, Multidisciplinary Studies, Box 7107, College of Humanities/Social Sciences, North Carolina State University, Raleigh, NC 27695-7107.** Affirmative Action/Equal Opportunity Employer.

DEVELOPMENTAL GENETICIST. The Department of Biology, University of North Carolina at Chapel Hill, seeks an outstanding scientist using molecular or cellular approaches in a model eukaryotic organism to investigate problems in developmental biology. The tenure-track appointment at the rank of **ASSISTANT PROFESSOR** will be effective 1 July 1991 or later. An appointment at a higher rank may be possible in exceptional cases. Applicants should send curriculum vitae, a one-page statement of research interests, selected publications, and four letters of recommendation by 7 January 1991 to: **Chairman, Developmental Biology Search, Department of Biology, University of North Carolina, Chapel Hill, NC 27599-3280.** The University of North Carolina is an Equal Opportunity/Affirmative Action Employer and encourages applications from women and minorities.

CHEMISTRY/ANALYTICAL CHEMISTRY

The Department of Biological and Physical Sciences invites applications for a tenure-track position at the **ASSISTANT PROFESSOR** level commencing August 1991. Responsibilities include teaching, at the undergraduate level, principles of chemistry, analytical chemistry, and instrumental methods of analysis. Although teaching is a prime responsibility, research and service are also required. Publication is expected.

Desired qualifications include an earned doctorate and a strong commitment to undergraduate teaching, research, and publication. Salary is competitive and includes an excellent fringe benefits package. Although the review process will commence 1 December 1990, applications will be accepted until the position is filled.

Send résumé, copies of undergraduate and graduate transcripts, and the names, addresses, and telephone numbers of at least three references by 1 December 1990 to:

Dr. Robert Roales
Chairperson, Department of Biological
and Physical Sciences
Indiana University-Kokomo
P.O. Box 9003
Kokomo, IN 46904-9003

Indiana University at Kokomo is an Equal Opportunity/Affirmative Action Employer.

POSITIONS OPEN

ASSISTANT PROFESSOR OF ORAL BIOLOGY. Tenure-track research position in Faculty of Dentistry, University of Western Ontario. Candidates should have Ph.D. and/or D.D.S. (or equivalent) and demonstrated research experience. Successful applicant will be expected to maintain vigorous, externally funded research program complementing current research interests, which include neuropharmacology and neurobiology of pain, biology of mineralized tissues, and oral microbiology/immunology, and to participate in some teaching. Position available 1 July 1991; preference to candidates who reply before 30 November 1990. Applicants should submit curriculum vitae, selected reprints, outline of research goals, and names of three referees to: **R. I. Brooke, Dean, Faculty of Dentistry, The University of Western Ontario, London, Ontario, Canada N6A 5C1.** Position subject to budget approval. *In accordance with Canadian immigration requirements, priority will be given to Canadian citizens and permanent residents of Canada. The University of Western Ontario is an Equal Opportunity Employer.*

The University of Michigan Medical School, Department of Biological Chemistry, invites applications for a faculty position(s) at the rank of **ASSISTANT PROFESSOR.** Candidates should have a Ph.D. in biochemistry or a closely related field, with postdoctoral training in the area of protein phosphatases or kinases. Experience in protein isolation and recombinant DNA techniques is required. Teaching obligation will not exceed 5 to 10% of total effort. Send résumé to: **Dr. Jack E. Dixon, Department of Biological Chemistry, The University of Michigan Medical School, Ann Arbor, MI 48109-0606.** *A nondiscriminatory Affirmative Action Employer.*

Two-year **VISITING ASSISTANT PROFESSORSHIP** in behavioral neuroscience beginning fall 1991. A strong possibility that the slot will become tenure track. *Women and minorities are encouraged to apply.* Salary competitive. Teach two courses per semester. In addition to behavioral neuroscience courses, the ability to teach introductory psychology, statistics, or experimental design highly desirable. Candidates must have an outstanding research program and funding potential. Send curriculum vitae, representative publications, and three letters of reference by 10 December 1990 to: **Dr. John Nyby, BNS Search Committee, Department of Psychology, Chandler Building #17, Lehigh University, Bethlehem, PA 18015.** *Lehigh is an Affirmative Action/Equal Opportunity Employer.*

ASSISTANT/ASSOCIATE PROFESSOR. The Department of Cell Biology, Neurobiology, and Anatomy at Loyola University Stritch School of Medicine is seeking a cell biologist to fill a tenure-track position at the assistant or associate professor level beginning 1 July 1991. Applicants should have completed postdoctoral training and be capable of establishing an independent research program supported by extramural funding, although sufficient seed money will be available for establishing a laboratory. Individuals utilizing molecular approaches in the fields of general cell biology, immunobiology, or neuroimmunology are encouraged to apply. Teaching responsibilities include medical histology/embryology and graduate cell biology. Applicants should submit a letter indicating qualifications and research goals, curriculum vitae, and the names of three references by 15 December 1990 to: **Dr. G. B. Schneider, Department of Cell Biology, Neurobiology, and Anatomy, Loyola University Stritch School of Medicine, 2160 South First Avenue, Maywood, IL 60153.** *Loyola University is an Equal Opportunity Employer.*

BIOLOGY

Transylvania University. Tenure-track position, **ASSISTANT/ASSOCIATE PROFESSOR**, beginning September 1991. Ph.D. required, college teaching experience preferred. Teaching in three of the following: cell biology, animal physiology, genetics, general biology. Molecular biology experience important. Appointee is expected to develop a research program involving undergraduate students. Highly qualified candidates may be considered for a Bingham Award for Excellence in Teaching, which provides a substantial salary supplement; start-up awards may be given to less experienced faculty. Submit letter of application, curriculum vitae, statement of teaching philosophy, and three letters of recommendation to: **Dr. J. Hill Hamon, Transylvania University, Lexington, KY 40508.** *Equal Opportunity Employer.*

26 OCTOBER 1990

RESEARCH OPPORTUNITIES

Bring Your Background To The Forefront Of Pharmaceutical Research

Lederle Laboratories has long enjoyed an outstanding reputation as a world leader in the discovery, development and marketing of quality pharmaceuticals. Our products have been instrumental in the treatment of infectious diseases, cancer, cardiovascular and central nervous system diseases. Building upon our strengths and creating an environment that will foster an even stronger and more dynamic R&D organization, we seek distinguished scientists across a wide variety of disciplines to help us shape the future of our company.

Protein Biochemist

Working in the Molecular Biology Research Section, the selected candidate will pursue basic research focusing on the structure and function of oncogenes, growth factors/cytokines, and viral proteins.

The successful candidate will need a Ph.D. with extensive professional experience in one or more of the following areas: protein purification using modern techniques, protein structural analysis (amino acid analysis, sequencing, NMR, etc.), peptide synthesis, methods development (particularly micromethodology), and membrane proteins. Candidate should have relevant postdoctoral training. Individuals with an active interest in oncogene, growth factor and viral protein research are especially encouraged to apply. (Dept. PB)

Research Biologist

You will become involved in research and development within the Oncology area of the Immunology Research Department.

The qualified candidate will have a B.S./M.S. with extensive experience in animal studies (rats, mice). Experience in cell biology (growth of animal cells in culture) as well as experience in molecular biology (RNA isolation, RNA-DNA and DNA-DNA hybridization). The individual will be responsible for conducting protein purification and routine biochemistry techniques. (Dept. SK)

Research Scientist

Working in the Metabolism Research Department, you will be responsible for developing bioanalytical methods (primarily HPLC and GC) to determine drug concentrations in biological fluids for pharmacokinetic and metabolism studies. Responsibilities will include instrument operation, data analysis by computer, in vivo pre-clinical work, and report writing.

The qualified candidate will have a Master's degree in Chemistry or equivalent with 3-5 years' experience in bioanalytical methods development, or a Ph.D. in Chemistry or equivalent with up to 2 years experience. (Dept. DD)

All positions offer competitive salaries and excellent benefits and are located at the Lederle Laboratories campus of American Cyanamid in Pearl River, New York, just twenty-five miles north of New York City.



For immediate consideration, please send your resume/c.v. with salary requirements and indicating the department code for the position of your choice to: Professional Employment Representative, Lederle Laboratories, 401 N. Middletown Road, Pearl River, New York 10965. An Equal Opportunity Employer m/f.

Dedicated People Dedicated To People Since 1906.

POSITIONS OPEN

ASSISTANT/ASSOCIATE PROFESSOR. Tenure-track position available for biologist at Gordon College in North Shore area of Massachusetts for fall 1991. Ph.D. required; ability to teach some combination of genetics, immunology, botany, and physiology. Postdoctoral experience and ability to obtain external funding desirable. Commitment to research and teaching within the context of a Christian liberal arts college and the ability and desire to integrate faith and learning. Send curriculum vitae plus one-page statement of philosophy of education to: **Dr. Jonathan S. Raymond, Dean of the Faculty, Gordon College, Wenham, MA 01984.**

FOREST PATHOLOGIST

The Department of Plant Pathology at the University of Wisconsin-Madison seeks applicants for a tenure-track faculty position (80% research/20% teaching) at the **ASSISTANT OR ASSOCIATE PROFESSOR** level. Research involving tree diseases relevant to Wisconsin or the North Central region is required. Applicants with scientific training in disciplines applicable to forest pathology, e.g., microbial ecology, population genetics, molecular biology, are encouraged to apply. Please send by 15 December 1990 curriculum vitae, a statement of research interests, transcripts, and at least three letters of reference to: **Dr. Jennifer L. Parke, Department of Plant Pathology, University of Wisconsin-Madison, Madison, WI 53706.** *The University of Wisconsin is an Affirmative Action/Equal Opportunity Employer.*

ASSISTANT/ASSOCIATE PROFESSOR MICROBIAL PATHOGENESIS HARVARD MEDICAL SCHOOL

The Department of Microbiology and Molecular Genetics is seeking applications for the position of assistant or associate professor with research interests in mechanisms of microbial pathogenesis. The applicant should possess a Ph.D. or M.D. degree and have at least 2 years of postdoctoral training. Preference will be given to individuals with expertise in the areas of cell biology, immunology, and molecular biology of host-parasite interaction using a bacterial pathogen in their model system. The successful applicant will occupy approximately 1000 square feet of newly renovated laboratory space located adjacent to the laboratories of Drs. R. John Collier and John J. Mekalanos. Applicants should send their curriculum vitae, reprints, a short summary of research interests, and the names of references to: **Dr. John J. Mekalanos, Department of Microbiology and Molecular Genetics, Harvard Medical School, 200 Longwood Avenue, Boston, MA 02115.** *Equal Opportunity in Employment is university policy. Qualified women and minority candidates are encouraged to apply.*

RHEUMATOLOGY. We are seeking an individual at the **ASSISTANT/ASSOCIATE PROFESSOR** level to join the Division of Rheumatic Diseases at the University of Connecticut School of Medicine. The division is currently composed of seven full-time faculty with a broad range of basic and clinical research programs including autoimmunity, connective tissue, lymphocyte biology, and molecular biology. The applicant, M.D., or Ph.D., should have three or more years of postdoctoral research training and be capable of developing an independent research program in cell biology, molecular biology, or immunology. Position available immediately. Please send curriculum vitae to: **Dr. Naomi Rothfield, Division of Rheumatic Diseases, L3071, University of Connecticut Health Center, Farmington, CT 06030.** *Affirmative Action/Equal Opportunity Employer, M/W/H.*

The Department of Pathology, University of California, San Diego (UCSD), invites applications for an **ASSISTANT/ASSOCIATE PROFESSOR OF PATHOLOGY** (tenure track) who will be an active member of the Molecular Pathology Ph.D. Program. Candidates must show demonstrated research productivity and substantial ability and interest in teaching molecular pathology at the graduate level. Opportunities are available for collaborative studies with clinical colleagues. An M.D./Ph.D., Ph.D., or M.D. is required. Salary and level of appointment will be commensurate with the qualifications of the candidate. Curriculum vitae and five names of referees should be sent to: **University of California, San Diego, Colin M. Bloor, M.D., Director, Molecular Pathology Ph.D. Graduate Program, Department of Pathology, 9500 Gilman Drive, La Jolla, CA 92093-0612** by 23 November 1990. *Affirmative Action/Equal Opportunity Employer.*

POSITIONS OPEN

CELL/MOLECULAR PHYSIOLOGISTS

Applications are invited for a tenure-track position, preferably at the level of **ASSISTANT/ASSOCIATE PROFESSOR**, in the Department of Physiology of The Ohio State University College of Medicine. Individuals with a promising or established investigative program using a cellular/molecular approach to excitability, contractility, or membrane transport are encouraged to apply. Candidates should have a Ph.D., M.D., or equivalent degree and a minimum of 2 years of postdoctoral experience. The department has 21 full-time faculty with varied research interests including multidisciplinary interaction in neurosciences, digestive disease, and muscle physiology. Applications accepted until a suitable candidate is selected. Send curriculum vitae, a brief description of research interests, the names of four referees, and a record of grant funding to: **Patrick E. Ward, Ph.D., Chairperson, Search Committee, Department of Physiology, 4196 Graves Hall, 333 West 10th Avenue, Columbus, OH 43210.** *The Ohio State University is an Equal Opportunity/Affirmative Action Employer.*

MICROBIAL MOLECULAR GENETICIST (PROKARYOTIC/EUKARYOTIC)

A 9-month tenure-track position at the **ASSISTANT/ASSOCIATE PROFESSOR** level is available in the Department of Botany and Microbiology in the area of Microbial Molecular Genetics. Applicants are sought whose research would complement or extend any of the existing programs in DNA metabolism, the regulation of gene expression and microbial development. Applicants who could interact with other established programs in physiology, pathogenesis, and microbial ecology will also be considered. The successful candidate will be expected to participate in graduate and undergraduate teaching.

Primary criteria for appointment will be a Ph.D. degree, postdoctoral experience, expertise in molecular biology, and demonstrated research ability.

Candidates should submit curriculum vitae and a letter of application giving a brief description of their research interests. Three letters of recommendation to:

**Dr. David McCarthy, Search Committee Chair
Department of Botany and Microbiology
The University of Oklahoma (OU)
Norman, OK 73019-0245**

Screening of applications will begin 15 December 1990, and applications will be accepted until position is filled:

*The University of Oklahoma is an
Equal Opportunity/Affirmative Action Employer.
Women and minorities are encouraged to apply.
OU has a policy of being responsive
to the needs of dual-career couples.*

GENETICS AND PHYSIOLOGY POSITIONS

The Department of Biology, University of Missouri-St. Louis, seeks applications for two tenure-track positions at the **ASSISTANT OR ASSOCIATE PROFESSOR** level starting September 1991. Applicants at the assistant professor level should have 2 to 3 years of postdoctoral experience. Successful candidates are expected to establish an active research program and to contribute to teaching and research training in our undergraduate, M.S., and Ph.D. programs.

• **GENETICS.** Preference will be given to applicants in molecular and/or evolutionary genetics whose research complements existing programs in developmental biology, eukaryote molecular biology, evolutionary biology and ecology, and microbial genetics. Teaching responsibilities include genetics, plus evolution and a graduate course in area of specialty taught in alternate years.

• **PHYSIOLOGY.** We seek applicants using a cellular/molecular approach to animal physiology in research areas that complement those of current faculty in neurobiology, behavior, endocrinology, developmental biology, evolution, and comparative/environmental physiology. Teaching responsibilities include a course in either comparative or environmental physiology.

A letter of application, curriculum vitae, statements of research and teaching interests, selected reprints, and three letters of reference should be sent by 26 November 1990 to: **Chair, Genetics (or Physiology) Search Committee, Department of Biology, University of Missouri-St. Louis, 8001 Natural Bridge, St. Louis, MO 63121-4499.**

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

POSITIONS OPEN

ASSISTANT/ASSOCIATE PROFESSOR OF BIOCHEMISTRY. The Department of Biochemistry seeks to fill a tenure-track position at the assistant or associate professor level. Responsibilities include participation in team taught courses in biochemistry and nutrition presented to osteopathic medical students. The successful candidate is expected to maintain a productive research program and to secure grants to support the research. Preference will be given to candidates with a background in molecular biology or nutrition and with a proven record of success in securing extramural funding. The department possesses excellent facilities and support services for research. Please submit curriculum vitae and the names of three individuals that may be contacted as references by 31 December 1990 to: **Richard J. Cenedella, Ph.D., Professor and Chairman, Department of Biochemistry, Kirksville College of Osteopathic Medicine, 800 West Jefferson, Kirksville, MO 63501.** *Equal Opportunity Employer/Affirmative Action.*

SENIOR APPOINTMENT

The Department of Ecology and Evolutionary Biology at Princeton University plans to appoint a **FULL PROFESSOR** with theoretical or experimental interests in ecology, evolution, or behavior. Candidates should be willing to take on senior administrative responsibilities. The current faculty in the department are: Andrew Dobson, James Gould, Peter Grant, Henry Horn, Steven Hubbell, Martin Kreitman, Carlos Martinez del Rio, Naomi Pierce, Dan Rubenstein, Donald Stratton, and Ted Sullivan. The closing date for applications is 30 November 1990. Applicants should send curriculum vitae and arrange for three letters of reference to be sent to: **Peter Grant, Search Committee, Department of Ecology and Evolutionary Biology, Princeton University, Princeton, NJ 08544-1003.**

Princeton University is an Equal Opportunity/Affirmative Action Employer.

COORDINATOR OF ECOLOGICAL INDICATOR DEVELOPMENT

Coordinate development of indicators of ecological condition by several ecosystem groups (surface waters, forests, wetlands, near coastal estuarine systems, arid lands, agroecosystems). Indicators will be used in the Environmental Monitoring and Assessment Program (EMAP). Facilitate communication, review research plans and proposals, and provide feedback to research and management teams. Requires a Ph.D. in ecology or closely related field plus 3 years of experience or directly relevant academic background; broad knowledge of ecology at all levels (organism to ecosystem) and of a variety of ecosystems such as forests, surface waters, or arid lands; and general knowledge of generic issues relating to development and use of ecological indicators and of approaches to environmental assessment. Interest in coordination of group efforts and desire to promote development of indicators of ecological condition. Good management and communication skills, and ability to work well with people. Travel will be required. Respond with a cover letter, résumé, and the names and telephone numbers of three references by 9 November 1990 to:

**Susan Carey
NSI Technology Services Corporation
1600 S.W. Western Boulevard
Corvallis, OR 97333**

*A subsidiary of ManTech International Corporation.
An Equal Opportunity Employer.*

OHIO STATE UNIVERSITY DEAN—COLLEGE OF DENTISTRY

The Ohio State University invites nominations and applications for the position of Dean of the College of Dentistry, available 1 July 1991. Candidates should have a D.D.S. or equivalent degree, be recognized leaders in the field of dental education and have a distinguished record of scholarship and teaching. The dean serves as the chief academic and administrative officer of the College of Dentistry and has responsibility for all instructional, research, service, and patient care programs. Significant experience in some or all of these areas would be of value for prospective candidates. *The Ohio State University is an Equal Opportunity/Affirmative Action Employer.* Review of applications will begin 10 December 1990. Send nominations or applications, including curriculum vitae, to: **Dr. Dennis McTigue, Chair, Dean's Search Committee, 305 West 12th Avenue, Columbus, OH 43210.**

STAFF SCIENTISTS - NEUROPHARMACOLOGY/ NEUROBIOLOGY

REGENERON PHARMACEUTICALS, a company dedicated to developing therapeutic agents for degenerative and traumatic neurological disorders, is seeking to apply recent advances in the understanding of neuronal growth and regeneration.

REGENERON offers an exciting, collegial environment in which state-of-the-art molecular skills are brought to bear on outstanding problems in neurobiology and medicine. Key projects focus on the discovery, purification and molecular cloning of novel neurotrophic growth factors, and on the assessment of their biological roles as well as therapeutic potentials using innovative cell culture methods and animal models.

Positions in Pharmacology require a Ph.D. in Pharmacology or related discipline and a minimum of four years' post-doctoral experience in the absorption, distribution and metabolism of drugs (preferably polypeptides and proteins). Previous experience in pharmacokinetic modeling, knowledge of protein and peptide separation techniques, and delivery of drugs to the CNS are essential. Previous industrial experience is highly desirable.

Positions presently available in Neurobiology require a working knowledge of animal models of neurodegenerative disease and trauma. Parkinson's Diseases, Spinal Cord and PNS Trauma and Sensory and Motor Neuropathies are areas of particular interest. An M.D. or Ph.D. degree and a minimum of 3 yrs. postdoctoral experience is required.

REGENERON's modern facility is located on a 275-acre wooded campus in Westchester County, 20 miles north of Manhattan, near major universities and medical centers. We offer excellent compensation packages, including generous stock options. Suburban Westchester features attractive and affordable housing, outstanding public schools and recreational facilities along with ready access to the culture and business centers of New York City.

Please forward your resume, in confidence to: **Ms. Carol Deaken,**
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Tarrytown, NY 10591-6706
Equal opportunity employer.

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National Cancer Institute

A Senior Executive Service Vacancy

DEPUTY DIRECTOR DIVISION OF CANCER TREATMENT Location: Bethesda, Maryland

The Deputy Director will be responsible for the planning, direction, coordination, conduct, evaluation, and effective modifications of a broad range of national and international programs designed specifically to maintain a continuous flow of material from laboratory to clinic for the treatment of cancer and AIDS. This includes assisting the Director in the conceptualization, design, and implementation of both short-term and long-term plans relating to the integrated preclinical and clinical research program of the Division involving intramural staff projects and extramural contract and grant-supported projects and acting on behalf of the Director in the Director's absence. The Division of Cancer Treatment, NCI, is comprised of approximately 600 employees and has a budget of approximately \$450 million.

This is a Civil Service position in the Senior Executive Service (SES) with an annual salary compensation between ES-1 through ES-4 (Currently \$71,200 to \$79,200). In addition, physicians may be eligible for a Physician's Comparability Allowance up to \$20,000 per year. (Applicants alternatively may be eligible for appointment in the Commissioned Corps of the U.S. Public Health Service.) The individual selected, if not presently in SES, must serve a one-year probationary period.

Applicants must meet the minimum educational requirements for Medical Officer, GS-602. Applicants must further meet established mandatory professional/technical and managerial/executive requirements. Applicants will be further evaluated on the degree to which they possess additional desirable qualifications in the areas of professional/technical qualifications, managerial/executive qualifications, scientific reputation/peer recognition, training and education, and honors and awards. A copy of the requirements may be obtained by contacting Ms. Sue Hickman in the Personnel Management Branch, NCI, at (301) 496-8182.

Applications for Federal Employment (SF-171) are to be sent to the above individual at:

The National Cancer Institute
Personnel Management Branch
9000 Rockville Pike
Building 31, Room 3A16
Bethesda, Maryland 20892



A current curriculum vitae and bibliography must accompany all applications for entrance into SES. Resumes are not acceptable applications for entrance into the SES. Public Health Service Commissioned Officers wishing to enter the SES must follow the above procedures. Officers interested in performing the duties of the position *within the Commissioned Corps* may submit a resume to the above address.

Applications must be received by November 23, 1990.

* Selection for this position will be based solely on merit, with no discrimination for non-merit reasons such as race, color, religion, sex, national origin, politics, marital status, physical or mental handicap, age, or membership or non-membership in an employee organization.

AN EQUAL OPPORTUNITY EMPLOYER

POSITIONS OPEN

ENDOWED CHAIR IN PROTEIN STRUCTURE AND FUNCTION

The University of Missouri-Kansas City announces a search for the new Marion Merrell Dow Chair in the School of Basic Life Sciences. The school is seeking an internationally recognized investigator with a demonstrated record of major external support who will strengthen the broadly defined area of protein structure and function. This position will complement the school's research emphasis in molecular recognition and its recent expansion into molecular aspects of aging research.

The successful candidate should have an extensive record in doctoral training supervision and qualify for a tenured professorship in the School of Basic Life Sciences. The holder of this endowed chair is expected to participate in the recruitment of at least two additional faculty members at the rank of assistant or associate professor with interests in related areas of research.

Consideration of qualified candidates will begin immediately and will remain open until a successful candidate has been identified. Letters of application and nominations should be accompanied by a current résumé and should be sent to:

Chair Search
c/o Carol Johnson, Assistant to the Dean
School of Basic Life Sciences
University of Missouri-Kansas City
Kansas City, MO 64110
Telephone: 816-235-2249, FAX: 816-235-5158
Equal Opportunity Employer

PATHOPHYSIOLOGY AND ASSISTANT/ASSOCIATE DEAN POSITION. Nominations and applications are invited for a faculty and administrative position. The teaching responsibilities of the position are in the area of pathophysiology and the administrative aspect involves serving as an assistant or associate dean to the dean of the College of Allied Health Professions with responsibilities for student advising and recruitment and for various other academic administrative assignments.

Minimum qualifications include an earned doctorate in either basic medical or health sciences or in medicine, successful teaching experience in pathophysiology or closely related area, solid record of scholarly work, and strong interest in and preferably experience in student advising and academic administration. The position carries a tenure-track appointment in the Department of Biomedical Sciences with salary and rank commensurate with qualifications. The level of the administrative appointment will be commensurate with qualifications.

Interested persons should submit a letter of intent to apply along with curriculum vitae and the names and addresses of three references to: **Dr. Patsy C. Covey, Dean, College of Allied Health Professions, University of South Alabama, Mobile, AL 36688.** Deadline for applications is 31 December 1990 or until filled. *Equal Opportunity/Affirmative Action Employer.*

FACULTY ASSOCIATE. Position with the University of Texas Southwestern Medical Center. Need clinical or analytical chemist with M.S./M.A. in biological or chemical sciences with at least 5 years of laboratory experience in immunoassay, chromatography, and related areas. Contact: **P. Orsulak, Ph.D., 5323 Harry Hines Boulevard, Dallas, TX 75235-9070.** We are an *Equal Opportunity Employer.*

FACULTY POSITIONS BIOCHEMISTRY/MOLECULAR BIOLOGY MEHARRY MEDICAL COLLEGE

Faculty positions are available in 1991 in the Department of Biochemistry at the level of **ASSISTANT OR ASSOCIATE PROFESSOR** for qualified candidates in the following areas: molecular biology of eukaryotic systems, membrane biochemistry or molecular biology of signal transduction, and regulatory aspects of cellular and/or metabolic biochemistry. Successful applicants will be expected to develop and/or maintain a funded research program of high quality, to participate in the graduate and professional (medical, dental, and allied health) school teaching programs of the department, and to interact with institutional programs in neuroscience and cell/molecular biology. Applicants should send curriculum vitae, names of four individuals who may be contacted for reference, and a summary of potential research projects to: **Ifanyi J. Arinze, Ph.D., Chairman, Department of Biochemistry, Meharry Medical College, Nashville, TN 37208.** *Meharry Medical College is an Equal Opportunity/Affirmative Action Employer.*

POSITIONS OPEN

ASSOCIATE DEAN AND DIRECTOR OF INSTRUCTION COLLEGE OF AGRICULTURE

The University of Minnesota invites nominations and applications for the position of associate dean and director of instruction for the College of Agriculture. This position has general administrative and leadership responsibility for instruction, prospective students, student services, career services, and faculty development programs, as well as for international programs related to curriculum, instruction, and student experiences. The associate dean reports directly to the dean, College of Agriculture, and associate director of the Minnesota Agricultural Experiment Station, and serves as the chief administrative officer of the college in the absence of the dean. The person in this position shall be appointed to an initial 3-year academic administrative term. Reappointment to annual terms following the initial 3-year term is dependent upon successful performance evaluations. Academic rank and tenure are dependent upon recommendation of peer faculty in an appropriate department.

Qualifications: an earned doctoral degree and demonstrated administrative or leadership experience in educational programs.

Send nomination(s) or an indication of interest to: **H. H. Cheng, Chair, Search Advisory Committee, 277 Coffey Hall, 1420 Eckles Avenue, St. Paul, MN 55108-1030.** Application materials will be forwarded. Telephone: 612-625-9734. Completed applications must be postmarked by 31 December 1990.

The University of Minnesota is an Equal Opportunity Educator and Employer and specifically invites and encourages applications from women and minorities.

DIRECTOR OF STRUCTURAL BIOLOGY

The Florida State University announces a search for director of a new interdisciplinary program in structural biology. We seek an outstanding senior scientist to oversee the development of this cooperative effort between the Departments of Biological Science and Chemistry. The director will have a faculty appointment in either department. This program provides:

- a state commitment of new faculty and staff positions at all levels along with other financial resources;
- fully staffed departmental core facilities for analytical biochemistry, DNA and protein sequencing, oligonucleotide and peptide synthesis, electron microscopy, hybridoma production, laser spectroscopy, NMR spectroscopy, molecular modeling, and anticipated development of an x-ray crystallography laboratory;
- active, well-supported graduate programs; and
- an excellent university research environment that includes the Supercomputer Research Institute and the National High Magnetic Field Laboratory.

Applications and nominations with curriculum vitae should be forwarded to:

Professor Marc E. Freeman
Chair, Director Search Committee
c/o Beverly Tranchand
Institute of Molecular Biophysics
The Florida State University
Tallahassee, FL 32306-3015

Florida State University is an Equal Opportunity/Affirmative Action Employer.

FACULTY POSITION IN GENETICS. The Laboratory of Genetics, University of Wisconsin, is expanding its research and teaching programs by recruitment of an **ASSOCIATE OR ASSISTANT PROFESSOR** in mammalian or human genetics. All areas of mammalian genetics/molecular genetics will be considered, but applicants with research programs applicable to human disease are particularly welcome. Send curriculum vitae, a statement of research interests, three letters of recommendation, and representative reprints or preprints to: **Mammalian Genetics Search Committee, c/o Carter Denniston, 118 Genetics, University of Wisconsin, 445 Henry Mall, Madison, WI 53706.** Application deadline is 15 November 1990. *University of Wisconsin is an Equal Opportunity/Affirmative Action Employer.*

POSITIONS OPEN

CHAIR DEPARTMENT OF BIOLOGICAL SCIENCES

Applications and nominations are invited for the position of chair of the Department of Biological Sciences at the University of South Alabama. The department has 18 faculty members and offers the B.S. and M.S. programs. Candidates should have a demonstrated commitment to research and teaching and show evidence of extramural funding. Prior administrative experience is desirable. The field of interest is open. Appointment level and salary will be commensurate with experience; starting date: 1 September 1991. Applicants should send curriculum vitae, names and addresses of three references, and a description of future professional goals to: **Dr. John A. Freeman, Chair, Search Committee, c/o College of Arts and Sciences, University of South Alabama, Mobile, AL 36688.** *An Affirmative Action/Equal Opportunity Employer.*

CHAIRPERSON, DEPARTMENT OF BIOLOGY

The Department of Biology, Southwest Texas State University (SWTSU), invites applications for the position of chairperson. Candidates must have a Ph.D. in the biological sciences and an excellent record in research, teaching, and leadership. The department has 32 faculty and offers the B.S., B.A., M.S., and M.A. degrees in eight fields. Secondary certification for public school teaching is also available. Applicants should submit a letter detailing their interest and qualifications, a statement of educational and administrative philosophies, curriculum vitae, copies of transcripts, and the names of three references to: **Dr. Bobby G. Whiteside, Department of Biology, SWTSU, San Marcos, TX 78666-4616.** Applications must be postmarked by 30 November 1990. *Equal Opportunity/Affirmative Action Employer.*

DIRECTOR OF LABORATORY RESEARCH

The Cancer Prevention Research Institute (CPRI) is seeking a full-time director of laboratory research. Located in midtown Manhattan, CPRI conducts epidemiological and biochemical research on cancer susceptibility to identify those at very high risk and explore biochemical methods of risk reduction. The director will design collaborative studies and monitor laboratory assays as well as develop an extramurally funded, independent research program in cancer susceptibility and modulation. CPRI scientists generally have joint academic appointments at New York University. Qualifications should include a Ph.D. or M.D. degree plus significant record of achievement in cancer research. Highly competitive salary and benefits appropriate to qualifications, experience, and locale. Send curriculum vitae and three references to: **Chairman, Laboratory Director Search Committee, c/o Cancer Prevention Research Institute, 36 East 22nd Street, 5th Floor, New York, NY 10010.** *CPRI is an Affirmative Action/Equal Opportunity Employer.*

MOLECULAR GENETICIST/ PSYCHOPHARMACOLOGIST

Mayo Clinic/Mayo Medical School invites applicants for a **FACULTY POSITION** in the Department of Psychiatry and Psychology, in close collaboration with members in the Department of Pharmacology and/or the Department of Biochemistry and Molecular Biology. Candidates should have primary interests in major psychiatric disorders and be pursuing these interests with the methods of molecular genetics and/or molecular pharmacology. M.D. and clinical training in psychiatry are desirable but not required. Mayo will provide generous space and start-up funds in addition to an attractive package of salary and benefits. Academic rank will be determined by qualifications; established investigators are also encouraged to apply. Submit curriculum vitae with names and addresses of three or more references to: **Toshihiko Maruta, M.D., Chairperson of Search Committee, Department of Psychiatry and Psychology, Mayo Medical School, Rochester, MN 55905.** *An Equal Opportunity/Affirmative Action Employer.*

IMMUNOLOGIST, Ph.D. Experience in host-immune response. Study on infectious disease vaccine development long-term support; faculty level research track appointment possible. Opportunity to develop independent program. Position available immediately. Send résumé to: **Dr. Eugene A. Davidson, Chairman, Department of Biochemistry and Molecular Biology, Georgetown University, Washington, DC 20057.** *Equal Opportunity Employer.*

THE STATE UNIVERSITY OF NEW JERSEY
RUTGERS
 Campus at Newark

**CENTER FOR MOLECULAR &
 BEHAVIORAL NEUROSCIENCE
 CELLULAR/MOLECULAR
 NEUROSCIENTISTS**

with well developed interests in inter & intracellular signalling mechanisms and/or gene expression/regulation in adult or developing nervous systems. Two of fourteen state-funded, tenure-track faculty positions are available for appointment at the Assistant to Full Professor level with a start date of July 1991. Neuroscientists stimulated by the opportunities offered by the integrative focus and collaborative environment of the Center in the areas of molecular and behavioral research are encouraged to apply. State-of-the-art laboratories and equipment for human, animal, cellular and molecular research, library and conference facilities are available in the new research Center on the Rutgers-Newark campus. The Center is in close proximity to (and with joint appointments possible in) the Institute of Animal Behavior and the Departments of Psychology, Chemistry and Biological Sciences at Rutgers, and the New Jersey Medical School. The Newark campus is close to both New York City and attractive New Jersey countryside living. Interested neuroscientists should send their CV, names of three references and a brief letter of research goals and philosophy to Dr. Ian Creese, Center for Molecular & Behavioral Neuroscience, 195 University Avenue, Newark, NJ 07102, USA.

*Rutgers is an affirmative action/
 equal opportunity employer.*

**DIRECTOR OF RESEARCH,
 DIAGNOSTIC PRODUCTS**

Promega Corporation is seeking a talented individual for the position of Director of Research, Diagnostic Products.

This position is responsible for directing the activities of the Diagnostic Products R&D Department. Specific duties include directing the activities of scientists in this department in the development of products for the food testing, DNA typing, and clinical diagnostic marketplaces (currently 19 scientists plus other support staff); direction of 5 project leaders who lead the development teams; and coordination of overall departmental activities including strategic planning, prioritization of product development activities, project management, training of project leaders and other scientific personnel; providing technical direction, departmental budget development, departmental staffing and recruitment, technical interactions with strategic partner companies, integration of R & D activities with other departments in the company, and development of patent applications and other forms of protection for intellectual property.

Qualifications include a Ph.D. in a scientific discipline with a minimum of 8 years experience or equivalent; experience managing a scientific department in an industrial setting; management experience including project management, budget, and personnel; record of effective integration of scientific teams and completion of projects on time and within budget; strong technical background in enzymology, immunochemistry, and molecular biology; and demonstrated creativity and technical leadership ability.

We offer a competitive salary, comprehensive benefits, and a challenging, high-growth environment in our modern facilities. All information will be kept in strict confidence. To apply or for further information, forward a resume and salary history or write to:



PROMEGA CORPORATION
 HUMAN RESOURCES/DIR
 2800 WOODS HOLLOW ROAD
 MADISON, WI 53711-5399

Equal Opportunity Employer.

**THE UNIVERSITY OF TEXAS AT DALLAS
 TWO ASSISTANT PROFESSORS**

The Molecular and Cell Biology Program of The University of Texas at Dallas invites applications for two tenure-track positions at the Assistant Professor level beginning September 1, 1991. The Program focuses on basic research, graduate training at the doctoral level, and educating a select group of undergraduate students. Applicants should have at least two years of postdoctoral experience and show evidence of a vigorous and independent research program capable of obtaining external support. One position is for candidates using physical techniques to study biomolecular structure. Teaching responsibilities for this position are part of a graduate course in macromolecular physical chemistry and contributions to team-taught undergraduate courses. Preference for the second position is a person using electron microscopy to study an area of molecular or cell biology. Although the teaching area is flexible to fit the expertise of the candidate, the preferred responsibilities are part of a graduate course in quantitative biology with contributions to team-taught undergraduate courses. Send curriculum vitae, a short description of research plans, and names and phone numbers of three or more references to:

The University of Texas at Dallas
 Academic Search Number #297
 P.O. Box 830688
 Richardson, TX 75083-0688

Review of applications will begin on December 1, 1990, and continue until the positions are filled. Indications of sex and ethnicity for Affirmative Action statistical purposes is requested as part of the application but not required. The University of Texas at Dallas is an Affirmative Action/Equal Opportunity employer.

**THE MEDICAL COLLEGE OF
 PENNSYLVANIA
 CHAIR
 DEPARTMENT OF ANATOMY AND
 NEUROBIOLOGY**

The Medical College of Pennsylvania invites applications and nominations for the position of Chair, Department of Anatomy and Neurobiology. The department currently has ten full time Faculty members with a strong emphasis on Neuroscience research ranging from molecular to behavioral studies. The faculty is well funded and, in addition, has a NIH funded Program Project Grant on mechanisms of recovery from spinal cord injury and a funded postdoctoral program. The number of individuals, including staff, pre and postdoctoral students and faculty, totals sixty-three.

We seek a distinguished scientist and educator in cell, developmental, molecular, or neurobiology or genetics with proven ability in Administration who can lead and expand the department. The Medical College of Pennsylvania is undergoing an expansion phase of its physical facilities that will allow the potential for the addition of faculty and space to the department.

A letter of interest or nomination, curriculum vitae, and the names of at least three references should be sent by October 31, 1990 to **George L. Popky, M.D., Chair, Anatomy and Neurobiology Search Committee, Professor and Chairman, Department of Radiologic Sciences, The Medical College of Pennsylvania, 3300 Henry Avenue, Philadelphia, Pennsylvania 19129.** Equal opportunity/affirmative action employer.



MCP The Medical College
 of Pennsylvania
College

**Biostatistics and
 Research Data Systems
 EXECUTIVE DIRECTOR**

The Merck Sharp and Dohme Research Laboratories have an outstanding opportunity for a leading biostatistician/epidemiologist to head up the Biostatistics and Research Data Systems Department. This function involves a leadership role for over 200 staff members including biostatisticians who cover both preclinical and clinical studies, data coordinators, specialists in clinical information systems and computerized data entry, health economists and epidemiologists.

The successful candidate should be an M.D. or Ph.D. with superior academic credentials, significant experience in the quantitative aspects of clinical study design and analysis and the ability to provide leadership for this major area of drug development. The position reports to the Executive Vice President, Worldwide Development as a member of the senior management staff in Worldwide Development which includes the heads of Clinical Research, Regulatory Affairs, Process R&D and Drug Metabolism. It provides a unique opportunity for leadership as well as an opportunity to interact closely with an outstanding group of physicians and scientists in the Merck Sharp and Dohme Research Laboratories. The individual should have both outstanding professional qualifications and a proven track record as a leader and administrator. Merck Sharp and Dohme Research Laboratories are located at both New Jersey and Pennsylvania sites, and the individual selected could be based in either site. Please send your curriculum vitae and list of references to: **Ms. Susan Jenkins, Merck Sharp & Dohme Research Laboratories, Personnel (RY80-A3), P.O. Box 2000, Rahway, NJ 07065.**

An equal opportunity/affirmative action employer



Merck & Co., Inc.

Product Safety and Compliance Specialist

The Lubrizol Corporation is a leader in the development, production and marketing of specialty chemicals that improve the performance of lubricants and fuels. Lubrizol offers a stimulating environment marked by a top management commitment to research and development and to total product quality.

We are seeking a highly qualified Product Safety and Compliance Specialist to coordinate safety data sheets and labels for hazard communication. As the successful candidate you must have a degree in chemistry, biological science or engineering. Good chemical knowledge and communication skills are essential. A background in toxicology, hazard communication and computer usage is desirable, but not required.

Lubrizol offers an attractive benefit plan which includes: comprehensive life/medical/dental insurance, pension and profit sharing trusts, plus other financial and professional incentives. Qualified candidates should submit resumes to:



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Our People Are Empowered With The Freedom To Think, Decide And Act.

DISCOVERY RESEARCH— ELECTROPHYSIOLOGIST

DowElanco is a research-based agricultural products company. We are currently seeking an Electrophysiologist to join a multidisciplinary team of over 200 biologists, biochemists and chemists dedicated to the discovery of novel agricultural and industrial pest control molecules and technologies.

Responsibilities include conducting a research program investigating novel target sites in insect pest species and characterizing the interaction of novel chemistries on insect nervous tissues.

The successful candidate will have a Ph.D in entomology, physiology or neurobiology, 1-3 years experience with application of *in vitro* electrophysiological techniques and a strong background in pharmacology/toxicology. Experience in insect electrophysiology is highly desirable. Excellent computer, communication and interpersonal skills are a must.

You may begin with us at either our research facility in Walnut Creek, California or Greenfield, Indiana. You will relocate to our new state-of-the-art research facility in Indianapolis, which is scheduled to be completed in the fourth quarter of 1992.

DowElanco offers an excellent salary and benefits package and outstanding opportunities for advancement in an interactive goal-oriented research environment. Send your resume, by November 30, to Dr. Scott H. Hutchins, R&D Recruitment Manager, DowElanco, 9002 Purdue Rd., Indianapolis, IN 46268-1189. Equal Opportunity Employer.



DowElanco

POSITIONS OPEN

SENIOR FACULTY POSITION IN THEORETICAL CHEMISTRY at Iowa State University, effective August 1991. Applications are invited from outstanding theoretical chemists. We are especially seeking candidates with research interests in fundamental electronic theory and its application to chemical problems. Requires an esteemed international reputation in research, sustained high level of external funding, and dedication to excellence in undergraduate and graduate teaching. Submit curriculum vitae, publication list, and research plans to: Professor A. E. DePristo, Theoretical Chemistry Search Committee, Department of Chemistry, Iowa State University, Ames, IA 50011. Nominations are also welcomed. Evaluations will begin 15 November 1990. *Iowa State University is an Equal Opportunity/Affirmative Action Employer and especially welcomes applications from women and minority candidates.*

SENIOR FACULTY POSITION MICROBIOLOGY

The Department of Microbiology at the University of Illinois (Urbana-Champaign) seeks candidates for a full-time tenured-track faculty position at the **ASSOCIATE PROFESSOR OR PROFESSOR** level. Applicants must have a doctorate degree and should have developed an active, independent research program of outstanding quality. Research areas of particular interest include, but are not limited to, molecular biology of microorganisms (prokaryotic or eukaryotic), microbial physiology and genetics, and molecular virology. The successful applicant should be an enthusiastic teacher able to interact effectively with the outstanding graduate and undergraduate students at the University of Illinois. Starting date August 1991. Salary commensurate with experience.

The Department of Microbiology offers a supportive academic environment and a strong graduate program. There are extensive interdepartmental interactions in microbial and eukaryotic cell and molecular biology, genetics, virology, immunology, neurobiology, developmental biology, evolution, biochemistry, and biophysics. The University of Illinois (Urbana-Champaign) offers an outstanding and exciting research environment including a Biotechnology Center with state-of-the-art facilities for molecular engineering, hybridoma production, flow cytometry, electron microscopy, fluorescence dynamics, and x-ray crystallography with computer analyses and molecular modeling capabilities.

Applicants should submit curriculum vitae and statement of research interests, including the names of at least three persons willing to provide letters of reference.

Charles G. Miller, Head
Department of Microbiology
University of Illinois
131 Burrill Hall
407 South Goodwin Avenue
Urbana, IL 61801
Telephone: 217-333-1736

Equal consideration closing date for applications is 15 December 1990. Interviews may be conducted prior to 15 December. However, all applications received by the closing date will be given full consideration. The University of Illinois is an Affirmative Action/Equal Opportunity Employer.

Humboldt State University is attempting to hire individuals whose characteristics and qualifications suit them to prepare students to function in a culturally and ethnically diverse society. We are recruiting for two possible **FACULTY POSITIONS**: one in wildlife management and one in life science education. Ph.D. required; university teaching experience preferred. Candidates for the wildlife position must have expertise in wildlife management as demonstrated by wildlife experience and research publications in appropriate journals; must understand consumptive wildlife management and have expertise in mammals, birds, or herpetofauna. Candidates for the life science education position must possess, or be able to immediately qualify for, a teaching credential in California; area of primary biological experience must be consistent with needs of a large diversified department. Qualified applicants should send curriculum vitae, letter of application, reprints, transcripts, and three letters of recommendation to:

Wildlife/Life Science Education Search Committee
College of Science
Humboldt State University
Arcata, CA 95521
Telephone: 707-826-3561

Affirmative Action/Equal Opportunity Employer.

POSITIONS OPEN

BIOCHEMISTRY FACULTY POSITION UNIVERSITY OF CALIFORNIA LOS ANGELES (UCLA)

The Department of Chemistry and Biochemistry has a tenure-track opening in biochemistry. The position probably will be filled at the **ASSISTANT PROFESSOR** level, but applications for a more senior position may also be considered. We are seeking a candidate who will establish a strong and innovative research program in biochemistry, biophysics, and/or molecular biology. Teaching responsibilities will include undergraduate biochemistry and participation in graduate courses appropriate to the appointee's interests. Candidates should submit curriculum vitae and statement of research plans and should have three letters of recommendation sent to:

Dr. Paul D. Boyer
Department of Chemistry and Biochemistry
University of California
Los Angeles, CA 90024-1569

by 1 December 1990. *The University of California is an Equal Opportunity/Affirmative Action Employer and encourages applications from women and minority candidates.*

CELL AND DEVELOPMENTAL BIOLOGY JUNIOR AND SENIOR FACULTY POSITIONS AVAILABLE

The Department of Biological Sciences has junior and senior tenure-track faculty positions open in the areas of cell and developmental biology. Applicants using genetic or molecular approaches to basic cellular or developmental problems are especially encouraged to apply. The successful candidates will be expected to establish an extramurally funded research program, train graduate students, and participate in graduate and undergraduate education. For candidates at the senior level an established research program and an interest in directing further faculty recruitment is expected. The department and university provide supported core facilities including hybridoma, DNA, protein, confocal, and EM facilities. *The department especially encourages applications from minority and female candidates.* Applicants should send by 10 December 1990 curriculum vitae, a summary of research interests and goals, and three letters of reference to:

Cell and Developmental Biology Search Committee
Department of Biological Sciences
University of Pittsburgh
Pittsburgh, PA 15260

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

TENURE-TRACK FACULTY POSITION HUMAN GROSS ANATOMY

The UCR/UCLA Program in Biomedical Sciences, which offers an accelerated M.D. curriculum jointly with the University of California, Riverside (UCR), and the University of California, Los Angeles (UCLA), School of Medicine, announces a search for a tenure-track faculty position in the Division of Biomedical Sciences at UCR. Primary teaching responsibilities will be in a 10-week lecture and laboratory course in human gross anatomy for 24 first-year medical students. Prior gross anatomy teaching experience is considered essential. The successful candidate is also expected to actively participate in graduate student teaching.

The committee welcomes applications from those working in any modern area of biological research, but applicants with interests in cell, molecular, or developmental biology or neurosciences are encouraged to apply. The prospective level of appointment for candidates, who must possess the Ph.D. and/or M.D. degree, may be at the **ASSISTANT, ASSOCIATE, OR FULL PROFESSOR** level. Junior applicants must have postdoctoral research experience and the potential to develop a strong extramurally funded research program. Senior applicants should have a clearly demonstrable record of research productivity, success in obtaining extramural funding, and demonstrated teaching effectiveness. *The University of California is an Affirmative Action/Equal Opportunity Employer.* The deadline for application is 7 January 1991. Applicants should send curriculum vitae, representative reprints, statement of present and future research goals, summary of teaching experience, and names and complete addresses of four to six individuals who would be willing to write a letter of recommendation to: **Dr. Kenneth Dorshkind, Box A, Anatomy Search Committee, Division of Biomedical Sciences, University of California, Riverside, CA 92521-0121.**

26 OCTOBER 1990

MOLECULAR BIOLOGY

HELPING OTHERS LIVE A BETTER LIFE

Boehringer Mannheim Corporation is one of the nation's leaders in the field of Medical Diagnostics, Biochemicals and Medical Research. This leadership has been attained through emphasis on quality and team effort. Due to our growth, we are seeking a Scientist - Molecular Biology for our U.S. corporate headquarters in Indianapolis, Indiana.

This Research and Development position is available for an MS degreed Molecular Biologist or BioChemist with up to 2 years of laboratory experience or a BS degreed scientist with 3-4 years of experience. Requires working knowledge and applied experience with various molecular biology techniques including cloning, restriction enzymes and Southern and Northern Blots. Use of radioactive and nonradioactive detection systems, DNA, RNA and plasmid purifications and sequencing and PCR experience desired.

At Boehringer Mannheim, we offer an outstanding relocation package as well as an excellent compensation and benefit program including a 401(K). Qualified applicants should send a resume with cover letter, including salary history, for confidential consideration to: Boehringer Mannheim, 9115 Hague Road, P.O. Box 50100, Dept. MR, Indianapolis, IN 46250. An Equal Opportunity Employer.

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As the prescription pharmaceutical division of Procter & Gamble, Norwich Eaton is making significant progress in a very competitive industry. Innovation is the key to our success. Here you'll discover a vibrant, highly spirited environment where new ideas are appreciated and individual talent is acknowledged and rewarded.

To facilitate our on-going growth, we seek a Senior Scientist interested in the biological handling of new drugs and related pharmacokinetics, especially in regard to dosage form performance, metabolism, and pharmacodynamics. The position requires supervisory experience and a PhD in a pharmaceutically related science with at least 5 years of post doctoral experience in a relevant field such as chemistry, metabolism, pharmacology, or toxicology. Primary responsibilities include support of drug discovery programs using innovative study designs and methods (cold and radiotracer) to address ADME and bioavailability issues, as well as the interpretation/presentation of data for INDs/NDAs, accompanied by extensive interactions with allied areas such as clinical, drug safety, pharmaceutical, regulatory, etc. The applicant's practical skills should be complemented by a high level of initiative and superior communication ability.

Bring us your capabilities, self-motivation and expertise. We'll provide the career advantages of a Fortune 50 organization coupled with the cultural benefits of a scenic up-state New York community, 200 miles northwest of New York City. For confidential consideration, please forward resume to: **Mr. Terry M. Stark - DDM, Norwich Eaton Pharmaceuticals, Inc., 17 Eaton Avenue, Norwich, NY 13815.**

Norwich Eaton

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An Equal Opportunity Employer

POSITIONS OPEN

FACULTY POSITIONS IN MOLECULAR AND CELLULAR ONCOLOGY

West Virginia University, School of Medicine, seeks to fill three faculty positions dedicated to basic research in the newly completed Mary Babb Randolph Cancer Center to begin no later than 1 October 1991. Additional tenure-track faculty will be recruited during the next 3 years. Candidates will be expected to develop a competitive independent research program supported through extramural funds. Excellent core facilities and generous start-up funds are available. Development of the cancer center is occurring concurrently with an expansion of the research base within the School of Medicine that encompasses both the basic and clinical science departments. Of particular relevance is emphasis on enhancing the Department of Microbiology and Immunology and the Section of Medical Oncology. This institution-wide expansion provides an exceptional opportunity for both laboratory-based and clinic-based faculty to develop interactive research programs in molecular and cellular oncology. Review of applications will begin on 1 December 1990 and will continue until the positions are filled. Applicants should send curriculum vitae, a statement of research plans, and the names of three individuals for references to:

Dr. Eric H. Humphries
Director of Scientific Affairs
Mary Babb Randolph Cancer Center
School of Medicine
West Virginia University
Morgantown, WV 26506

West Virginia University is an Affirmative Action/Equal Opportunity Employer.

FACULTY POSITIONS SECTION OF IMMUNOBIOLOGY YALE UNIVERSITY

The Section of Immunobiology seeks applicants for several faculty positions at the level of **ASSISTANT PROFESSOR**. Qualified applicants in all areas of mammalian gene expression, signal transduction, and lymphocyte cell biology are invited to apply. We are particularly interested in candidates in the areas of transcriptional regulation, transmembrane signal transduction, protein sorting, and antigen presentation using cell biological approaches. Candidates would be expected to develop an independent research program and to participate in departmental teaching. Candidates should submit curriculum vitae with a summary of present and future research interests, and request that three letters of recommendation be sent. Applications should be received at the address below no later than 20 December 1990.

Dr. Richard Flavell, Chairman
Section of Immunobiology
Yale University School of Medicine
310 Cedar Street, 424 FMB
P.O. Box 3333
New Haven, CT 06510

*An Equal Opportunity/Affirmative Action Employer.
Women and minority candidates are encouraged to apply.*

DEVELOPMENTAL MOLECULAR BIOLOGY

The Department of Growth and Development at the University of California, San Francisco, School of Dentistry invites applications and nominations for a tenure-track position in molecular developmental biology. This individual must hold a doctoral degree and have a well-established expertise in the field of growth factors, particularly those known to affect the differentiation and function of skeletal and connective tissues. In addition, he or she must have an ongoing research program and show evidence of substantial prior research productivity. Candidates will be expected to maintain and/or develop independently funded research programs, to teach at both the predoctoral and postgraduate level, and to contribute to an academic community that includes both scientists and clinicians. Academic rank and salary will be commensurate with the candidate's qualifications. Nominations and applications, including curriculum vitae, the names of three references, and a description of current and future research activities, should be sent to: **Dr. Caroline Damsky, Chair of Search Committee, Department of Growth and Development, School of Dentistry, University of California, San Francisco, CA 94143-0640.** Closing date 1 December 1990. *Applications from women and minority candidates are especially welcome. The University of California is an Equal Opportunity/Affirmative Action Employer.*

POSITIONS OPEN

Indiana University School of Medicine is accepting applications for two tenure-track **FACULTY POSITIONS**, one in Microanatomy and one in Biochemistry, at the South Bend Center for Medical Education on the campus of the University of Notre Dame, starting July 1991. Each appointee will be expected to develop an active, independent research program in his or her area of interest and also organize and teach a course in medical histology/embryology or medical biochemistry to 16 Indiana University freshman medical students. Rank and salary will be commensurate with experience. Applicants should send curriculum vitae, reprints of recent publications, statements of research and teaching goals, and the names of three references by 15 December 1990 to: **Dr. Thomas Troeger, Director, South Bend Center for Medical Education, Haggard Hall, University of Notre Dame, Notre Dame, IN 46556. Telephone: 219-239-5574.** *An Affirmative Action/Equal Opportunity Employer, M/F.*

BIOCHEMIST. Hope College invites applications for a full-time sabbatical replacement for the period beginning either January or August 1991 and continuing through May 1992. Duties include teaching biochemistry lectures/laboratories and organic laboratory and possibly directing undergraduates in research. Rank and salary commensurate with qualifications and experience. Submit letter of application, résumé, transcripts, and a statement of teaching competencies and arrange for three letters of reference to: **Dr. Irwin J. Brink, Chair, Department of Chemistry, Hope College, Holland, MI 49423. Telephone: 616-394-7629.** Consideration of applications will begin 15 November 1990. *Applications from women and minority persons are encouraged.* Hope College is a distinguished undergraduate Christian liberal arts college affiliated with the Reformed Church in America.

FACULTY POSITIONS TEXAS A&M UNIVERSITY

The Center for Advanced Invertebrate Molecular Sciences and the Departments of Biology and Entomology are jointly searching for new faculty at the **ASSISTANT OR ASSOCIATE PROFESSOR** level (tenure track) with training in the following areas: biochemistry, molecular, cellular and developmental biology. Preference will be given to candidates with graduate and postgraduate experience in *Drosophila* molecular biology. The successful candidate must have demonstrated potential to develop a vigorous, extramurally funded research program within the organizational structure of the Center for Advanced Invertebrate Molecular Sciences and the Department of Biology and to participate in graduate and undergraduate instruction. Applications will be accepted until 1 December 1990 or until position is filled and should include curriculum vitae, a description of goals and interests, names of three references with addresses and telephone numbers, mailed or sent by FAX directly to: **Dr. Max D. Summers, Director or Dr. Linda A. Guarino, Chair of Search Committee, Center for Advanced Invertebrate Molecular Sciences, Texas A&M University, Department of Entomology, College Station, TX 77843-2475. Telephone: 409-845-9730; FAX: 409-845-8934.**

Texas A&M University is an Equal Opportunity Employer.

FACULTY POSITIONS IN PHARMACOLOGY

The Department of Pharmacology at Louisiana State University Medical Center (LSUMC) in Shreveport invites applications for two tenure-track positions at the **ASSISTANT PROFESSOR** level; appointment may be made at the associate professor or professor level under special circumstances. Applicants must have an M.D. or Ph.D. degree and at least 2 years of postdoctoral experience. Candidates with a primary research interest in some aspect of neuropharmacology, including the study of receptor-effector mechanisms, neuropeptide research, behavioral pharmacology, and neuroimmunology, are preferred. The successful applicants will be expected to establish an independent research program, to compete for extramural funding, and to participate in the teaching of graduate and medical students. Applications should include curriculum vitae, a list of publications, selected reprints, a brief summary of current and future research plans, and the names of three referees. Applications should be sent to: **Adrian J. Dunn, Ph.D., Department of Pharmacology, LSUMC, P.O. Box 33932, Shreveport, LA 71130. Louisiana State University is an Equal Opportunity/Affirmative Action Employer.**

POSITIONS OPEN

FACULTY POSITIONS DEPARTMENT OF BIOCHEMISTRY NORTH CAROLINA STATE UNIVERSITY

Tenure-track research/teaching faculty positions (**ASSISTANT AND ASSOCIATE PROFESSORSHIPS**) are available with a starting date of 1 July 1991. Applicants with research interests in the areas of plant molecular biology, the structure-function relationship of proteins, and the molecular biology of signal transduction are particularly encouraged to apply. Attractive salaries commensurate with experience, generous laboratory space, and support for equipment and supplies are available. Biochemistry, within the College of Agriculture and Life Sciences and the College of Physical and Mathematical Sciences, offers B.S., M.S., and Ph.D. degrees. North Carolina State University (NCSU), as one of the Research Triangle universities, provides a rich environment for collaborative interactions with Duke and Chapel Hill, as well as corporations and institutions in the Research Triangle Park. Applications, including detailed curriculum vitae, a brief description of research interests, and three letters of reference, will be accepted until 31 December 1990. Interviews will be held in January and February of 1991. Contact: **Search Committee, Department of Biochemistry, NCSU Box 7622, North Carolina State University, Raleigh, NC 27695-7622.** *North Carolina State University is an Affirmative Action/Equal Opportunity Employer.*

Duke University: FACULTY POSITION IN CELL AND LEUKOCYTE BIOLOGY. We have an opening, beginning in the fall of 1990, for a junior faculty member (nontenure track) to join our research group. The laboratory, comprising five faculty members with diverse backgrounds in cell biology, molecular biology, biochemistry, immunology, and leukocyte biology, investigates the functions of macrophages and how these are regulated. Interactions between second messengers and gene regulation are emphasized. We seek a highly qualified scientist with interests and skills in second messengers. A background in either cyclic nucleotides, kinases, or ion fluxes would be highly desirable but not necessary. The position offers the opportunity for the successful candidate to join a well-established laboratory, develop and supervise a productive ongoing research program, and develop independent research initiatives. An attractive working environment and salary are offered. Interested individuals should send their curriculum vitae and the names of at least three references to: **Dolph O. Adams, M.D., Ph.D., Director, Laboratory of Cell and Molecular Biology of Leukocytes, Box 3712, Duke University Medical Center, Durham, NC 27710.** *Duke University is an Equal Opportunity/Affirmative Action Employer.*

FACULTY POSITION. The Department of Geology, Stanford University, invites applications for a tenure-track faculty position at the **ASSISTANT, ASSOCIATE, OR FULL PROFESSOR** level in isotope geology. We seek outstanding candidates with proven research records in the applications of ion microprobe analyses to significant earth science problems to join our new initiative to establish a national Center for Ion Probe Analysis (CIPA). CIPA will be located in the new Green Earth Sciences Building at Stanford and will be operated jointly with the Isotope Geology Branch of the U.S. Geological Survey located in Menlo Park. Other organizations, including several of the University of California campuses, Lawrence Livermore National Laboratory, and Charles Evans & Associates, will be participating members of CIPA. We anticipate that this new faculty position will be filled by January 1991, following successful completion of our fund-raising efforts for a third-generation, high-resolution, high-transmission ion microprobe and associated facilities. The successful applicant would become a member of a planned scientific/technical staff of six who would oversee the day-to-day operations of CIPA. He or she would also be expected to develop a world-class program of research, teaching, and graduate training in isotope geology.

Qualified applicants should send up-to-date curriculum vitae, a statement of teaching and research interests and experience, and the names of at least three persons familiar with the candidate's research accomplishments and professional background to: **Professor Gordon E. Brown, Jr., Department of Geology, Stanford University, Stanford, CA 94305-2115.** The closing date for applications is 15 June 1991.

Stanford University is an Equal Opportunity/Affirmative Action Employer.

RESIDENT FACULTY POSITIONS THE SCHOOL FOR FIELD STUDIES

Applications sought for unique environmental teaching opportunities with highly motivated undergraduates at remote field stations. Excellent field and experiential teaching skills plus research experience in the location of the course required. Residence on site during programs. Field director positions require highly developed administrative and leadership abilities. Ph.D. preferred in faculty positions. Unless noted, positions are for 12 month (2 semesters and summers) academic year. Annual base is up to \$35,000 for field directors and \$32,000 for faculty. Salaries include \$5,000 room and board support.

Australia: Field Director – for programs in rainforest conservation. Substantial experience in environmental education. Late summer 1991. **Rainforest ecologist/botanist** – Experience in Australian rainforests September 1991. **Resource management/conservation** – Experience in Australian rainforests. **Cultural ecologist** – to teach socio-economic context of rainforest conservation January 1991, 9 month year.

Baja, Mexico: Marine mammalogist – Two positions, one may be Masters degree level. Cetacean emphasis preferred. January 1991 and September 1991. Option for 9 or 12 month year.

Caribbean (Turks and Caicos): Field Director – for coral reef ecology and conservation studies. Substantial experience in environmental education. January 1991. **Resource management/conservation** – Tropical marine experience. January 1991. **Cultural ecologist** – to teach cultural/economic context of marine conservation January 1991, 9 month option. **Marine biologist/ecologist** – Caribbean experience. January 1991.

Kenya: Field Director – for program in large mammal ecology and conservation. Kenya experience essential. August 1991. **Cultural ecologist** – January 1991, 9 month year. **Biologist** – expertise in wildlife ecology. September 1991. **Resource management/conservation** – to teach management tools and techniques. September 1991.

Costa Rica: Costa Rican citizenship preferred in all positions. **Field Director** – to start January 1991 and lead new program in sustainable development. **Resource economist or manager; Ecologist/environmentalist; Cultural ecologist;** faculty start August 1991.

To apply send detailed letter, resume, and telephone numbers of 3 references to: Faculty Search, Department S, The School for Field Studies, 16 Broadway, Beverly, MA 01915. Inquiries: 508-927-7777



FACULTY POSITION(S) MCGILL UNIVERSITY DEPARTMENT OF PHARMACOLOGY & THERAPEUTICS

The Department of Pharmacology & Therapeutics is undergoing a phase of growth and expansion, having recently incorporated three members of academic staff with interest in molecular pharmacology. It is now actively searching for suitable candidate(s) for one to two newly created academic tenure track position(s) in the field of MOLECULAR ASPECTS OF PEPTIDE PHARMACOLOGY (expertise in peptide isolation, characterization and synthesis is desirable). Preferably, the candidate(s) should have research interests in drug biotransformation, membrane transport and/or chemotherapy. However, the most important consideration is proven excellence in the candidate's(s') field of science. The level of the tenure track position(s) will be commensurate with the qualifications and experience of the selected candidate(s). Salaries for the position(s) start at \$37,125, \$43,265 and \$53,621 respectively for the three levels (Assistant Professor, Associate Professor and Full Professor). The Department is seeking outstanding individual(s) who possess the ability to organize and develop an independent research group. The McGill Department of Pharmacology & Therapeutics has a broad based group of investigators in neuropharmacology and is very active in the areas of cardiovascular, receptor, developmental, bronchopulmonary and reproductive pharmacology, as well as toxicology. It has a vigorous graduate program which attracts well qualified candidates with great potential. Specialized facilities available include E/M, electronics, photography and advanced image analysis. Financial assistance to establish laboratories and purchase equipment, as well as statutory relocation assistance, will be provided. Applications, which must include a curriculum vitae, the names and addresses of three referees and a brief outline of proposed research, should be sent to Dr. A. Claudio Cuello, Chairman, Department of Pharmacology & Therapeutics, McGill University, 3655 Drummond Street, Room 1325, Montreal, Quebec, H3G 1Y6, Canada by January 15, 1991, as the Department hopes to fill this position for the 1991-92 academic year.

Faculty Positions

Department of Biochemistry, Molecular Biology and Cell Biology Northwestern University

The Department of Biochemistry, Molecular Biology and Cell Biology seeks outstanding candidates for faculty positions at all levels.

Research programs in the Department include biochemistry, biophysics, cell biology, developmental biology, genetics, immunology, microbiology, molecular biology, structural biology, and virology. Exceptionally well qualified candidates in any area will be considered.

Candidates should submit curriculum vitae, a list of publications, a statement of future research objectives and letters of reference from three persons knowledgeable of the candidate's research and teaching abilities to:



Chairman, Faculty Search Committee
Department of Biochemistry
Molecular Biology and Cell Biology

Northwestern University
Evanston, IL 60208-3500

Northwestern University is an Equal Opportunity Affirmative Action Employer, and the department particularly encourages applications from women and members of minority groups. Hiring is contingent upon eligibility to work in the United States.

SYRACUSE UNIVERSITY Department of Biology THREE (3) FACULTY POSITIONS

Syracuse University is continuing a program of growth and development of a strong Biology Department. We have made five appointments in the last two years at junior and senior levels. We anticipate five additional appointments in the next two years. This year, pending final administrative authorization, we hope to appoint individuals for the three positions described below. New facilities including 25,000 sq. ft. of research space, will be available in the near future.

We now invite applications for three positions, tenure-track or tenured. Successful candidates will be expected to establish vigorous research programs and to attract extramural support. Substantial time will be available for research, but participation in teaching of undergraduate and graduate students is expected. Applications should include curriculum vitae, description of a proposed research program, and names of three scientists we can contact for letters of recommendation. Applications should be addressed to: **Department of Biology, Syracuse University, Syracuse, NY 13244**, to the attention of the individual listed below with the position of interest.

Molecular Biologist, Senior Position: An individual of substantial accomplishments and reputation is sought. Area of specialization within molecular biology is not restricted. Apply by January 1, 1991 to Dr. P. B. Dunham at the address listed above.

Evolutionary Biologist, Open Rank: Outstanding individuals studying any aspect of evolution will be considered. We are especially interested in candidate using both molecular and theoretical approaches. Apply by November 1, 1990 to Dr. W. T. Starmer at the address listed above.

Yeast Molecular Geneticist, Assistant Professor: A molecular geneticist who uses yeast as an experimental organism in his or her research program. Though an appointment at the level of Assistant Professor is most likely, applications from more senior candidates are welcome. Apply by January 1, 1991 to Dr. Richard Hallberg at the address listed above.

Syracuse University is an Equal Opportunity/Affirmative Action Employer; women and members of all ethnic groups are especially encouraged to apply.

POSITIONS OPEN

FACULTY POSITIONS. Section of Genetics, Duke University Medical Center. A newly created Section of Genetics at the Duke University Medical Center invites applications for several tenure-track, junior level faculty positions. Although individuals utilizing molecular genetic approaches to questions in most any important area of biology will be considered, we are particularly interested in those applying genetic approaches to the study of development. Applicants should forward curriculum vitae, a statement of research plans, and the names of three references to: **Dr. Joseph R. Nevins, Head, Section of Genetics, Duke University Medical Center, P.O. Box 3054, Durham, NC 27710. Duke University is an Equal Opportunity/Affirmative Action Employer.**

UNIVERSITY OF REDLANDS TENURE-TRACK POSITION IN CHEMISTRY

The University of Redlands invites applications for a tenure-track position at the **ASSISTANT PROFESSOR** level in the Department of Chemistry beginning 1 September 1991. Excellent undergraduate teaching is a primary qualification. Teaching responsibilities will include biochemistry and organic chemistry courses as well as involvement in the general chemistry program. The successful candidate also will be expected to develop a vigorous research program involving undergraduate students. Candidates should submit (i) a letter of application which includes a statement of philosophy about teaching in a liberal arts context, (ii) current curriculum vitae and statement of research plans; and (iii) three current letters of reference and the names, addresses, and telephone numbers of the references. Send all materials to: **Dr. Robert Hudspeth, Dean of the Faculty, Arts and Sciences, University of Redlands, 1200 East Colton Avenue, Redlands, CA 92373-0999.** Must be received by 5:00 p.m. Tuesday, 8 January 1991. *The University of Redlands is an Equal Opportunity/Affirmative Action Employer and encourages applications from women and minorities.*

CELLULAR/MOLECULAR PLANT PHYSIOLOGIST. Tenure-track position in cellular/molecular physiology of vascular plants. Applicants must have a commitment to teaching and a demonstrated ability to develop an active research program. Postdoctoral experience required. Applicants must provide curriculum vitae, statement of research and teaching interests, and have three letters of recommendation sent to: **Dr. David Soltz, Chair, Department of Biology, California State University, Long Beach, CA 90840-3702.** Deadline for receipt of applications is 2 January 1991 or until a suitable candidate is found. *Women and minorities are encouraged to apply. An Equal Opportunity/Affirmative Action Employer.*

FACULTY POSITION

The Microbiology Department of The University of Texas at Austin has an opening for an **ASSISTANT PROFESSOR** in the area of immunology. Appointment at a higher rank will be considered for individuals with an outstanding record of independent research. Highly qualified individuals with interests in molecular biology outside of this area also will be considered. This is an outstanding opportunity to join an excellent department during a period of expansion. Please submit curriculum vitae, including names and addresses of three references and a summary of research interests to: **Microbiology Department Search Committee, The University of Texas at Austin, Austin, TX 78712-1095.** *The University of Texas is an Equal Opportunity/Affirmative Action Employer.*

The University of Alabama at Birmingham, *An Equal Opportunity/Affirmative Action Employer*, invites applications for **FACULTY APPOINTMENTS** in the Department of Pathology. An applicant should have an M.D., M.D.-Ph.D., or Ph.D. degree in one of the basic sciences such as biochemistry, cell biology, etc., and desire to focus his/her efforts on graduate education and research. Applicants will be considered who either have an existing independently funded research program or have a plan to develop such a program.

Academic rank and tenure are dependent upon the qualifications of the applicant.

Current curriculum vitae of interested persons should be forwarded to: **Jay M. McDonald, M.D., Professor and Chairman, Department of Pathology, The University of Alabama at Birmingham, University Station, Birmingham, AL 35294.**

POSITIONS OPEN

FACULTY POSITIONS: CELL AND DEVELOPMENTAL BIOLOGY, MOLECULAR GENETICS, BIOCHEMISTRY. The Department of Biochemistry and Cell Biology, State University of New York (SUNY) at Stony Brook, invites applications for junior or intermediate level, tenure-track faculty positions. The department is greatly expanding its scope in the molecular aspects of cellular and developmental biology and continuing to build on its strength in molecular genetics and biochemistry. We are interested in outstanding applicants with experience in any of these areas. Send curriculum vitae, a summary of research interests, and three letters from scientists familiar with the applicant's work, to: **Dr. William J. Lennarz, Chairman, Department of Biochemistry and Cell Biology, State University of New York at Stony Brook, Stony Brook, NY 11794-5215** by 1 January 1990. *SUNY Stony Brook is an Affirmative Action/Equal Opportunity Employer. AK 182.*

HYDROGEOLOGIST/AQUEOUS GEOCHEMIST

Hobart and William Smith Colleges are expanding our Geoscience Department from three faculty to four. We seek someone to teach courses in hydrogeology and/or low-temperature aqueous geochemistry and introductory geology, participate in our general curriculum, and encourage undergraduate research. Initial 2-year appointment, renewable for 2 years. Position may be converted to tenure track. Applicants should have completed the Ph.D. The colleges operate a well-equipped and recently renovated 65-foot research vessel and are planning major renovation and expansion of their science facility.

The colleges are an Equal Opportunity and Affirmative Action Employer and actively seek applications from women, minorities, and other underrepresented groups.

Applicants should send letter of application and curriculum vitae and have three letters of recommendation sent by 5 January 1991 to:

**William F. Ahrensbrak, Chairman
Geoscience Department
Hobart and William Smith Colleges
Geneva, NY 14456**

MOLECULAR GENETICS/BIOLOGY FACULTY

The New Mexico Institute of Mining and Technology's Department of Biology invites applications for a tenure-track position available at the **ASSISTANT PROFESSOR** level. The primary teaching responsibilities of the successful applicant will be upper division courses in genetics, cell and molecular biology, and a lower division botany course. The applicant will be expected to develop, fund, and maintain an active research program in molecular genetics or any other area of biology provided that modern methods of molecular biology are employed. The successful applicant will have a Ph.D. in molecular biology, genetics, or related field of biology. Preference will be given to applicants with one or more years of postdoctoral training. The candidate must have a demonstrated commitment to research as evidenced by recent publications. Two semesters of college-level teaching experience is preferred. Position is available beginning August 1991. Salary will be commensurate with qualifications. Send curriculum vitae, college transcripts, a one-page statement of research and teaching interests, and the names, addresses, and telephone numbers of four references by 1 January 1991 to: **New Mexico Institute of Mining and Technology, Human Resources, Wells Hall Box C-120, Socorro, NM 87801.**

Affirmative Action/Equal Opportunity Employer.

GENETICIST. Tenure track, beginning fall of 1991. Department of Biology, Colorado College, a private, undergraduate, liberal arts institution enrolling 1850 students. Ph.D. required in hand or imminent. Responsibilities include teaching general genetics, cell biology, molecular biology, and development of a research program involving undergraduates. The college seeks candidates who might also teach in general studies, addressing the perspectives of women and minorities, and invites candidates to identify strengths or experiences in these areas. Applicants should send a letter describing teaching interests and research goals, curriculum vitae, copies of recent publications, official transcripts, and four letters of recommendation to: **Ronald Capen, Chair, Department of Biology, The Colorado College, Colorado Springs, CO 80903**, by 11 December 1990. *Equal Opportunity/Affirmative Action Employer.*

POSITIONS OPEN

NEUROBIOLOGY

McMaster University. The Department of Biomedical Sciences invites applications for tenure-track positions (Ph.D. or M.D.) to pursue research and teaching in the field of neuroscience. The designated research area for one of these positions is molecular neurobiology, but other neurobiological themes will be considered for the second position. Academic ranks would be commensurate with training and experience. Current research in the department includes plasticity in the developing and aging nervous system, neurotransmitter and receptor chemistry, neurochemical and neuroanatomical basis of behaviour, and physiology and pharmacology of smooth muscle and of the visual system. There are ample opportunities for interactions with investigators in the clinical departments and in the newly established Institute for Molecular Biology and Biotechnology. Successful applicants will be expected to participate in graduate courses in their research specialty and in the neuroscience component of courses taught within the Faculty of Health Sciences.

A letter of application, together with curriculum vitae and the names and addresses of three referees, should be sent by 31 December 1990 to:

**Dr. A. J. McComas
Department of Biomedical Sciences, Room 4N83
McMaster University
1200 Main Street West
Hamilton, Ontario L8N 3Z5, Canada**

In accordance with Canadian immigration requirements, this advertisement is directed to Canadian citizens and permanent residents.

POSTDOCTORAL POSITION (BIOCHEMIST). Research fellowship available immediately to join a biochemical/biophysical group to study human cholesterol, lipid, and lipoprotein metabolism. Send curriculum vitae, statement of research interest, and names of three references to: **Dr. Richard Deckelbaum, Department of Pediatrics, Columbia University, 630 West 168th Street, New York, NY 10032.** *Columbia University is an Equal Opportunity/Affirmative Action Employer.*

POSTDOCTORAL POSITION. Available immediately for 2 years to study signal transduction initiated by TGF α and FGFs through a common cellular tyrosine kinase substrate. Characterization of these pathways and their alteration during both enterocytic and goblet cell differentiation pathways will be studied. Experience in basic molecular biology techniques is essential. Salary based on experience, and competitive in the New York area. Please send résumé and the names and telephone numbers of two references to: **Eileen A. Friedman, Ph.D., Laboratory of GI Tumor Biology, Memorial Sloan-Kettering Cancer Center, Box 244, 1275 York Avenue, New York, NY 10021.** FAX: 212-639-5850.

POSTDOCTORAL POSITION. Expertise in soil nutrient dynamics, saturated soils, or riparian ecology to participate in a collaborative, interdisciplinary (ecology, geology, chemistry) study of riparian ecosystems in the Intermountain West. Send curriculum vitae and three letters of recommendation to: **Dr. R. Inouye, Director, Center for Ecological Research and Education, Department of Biological Sciences, Campus Box 8007, Idaho State University (ISU), Pocatello, ID 83209-8007.** Telephone: 208-236-2933; email/internet: inouyer@csc.isu.edu. Applications accepted until 1 December 1990 or until position is filled. *ISU is an Affirmative Action/Equal Opportunity Employer.*

POSTDOCTORAL ASSOCIATE

Available immediately to study relationship of Wilms tumor to developmental disorders and genomic imprinting, using yeast artificial chromosome cloning of 11p13 (*Science*, in press), and a second Wilms tumor locus we have identified on 11p15 [*Mol. Cell Biol.* 9, 1799-1803 (1989); *Am. J. Hum. Genet.* 44, 720-723 (1989)]. Send curriculum vitae, summary of research interests, and names and telephone numbers of three references to: **Dr. A. P. Feinberg, Howard Hughes Medical Institute, University of Michigan Medical Center, 4520 MSRB I, Ann Arbor, MI 48109-0650.** *Equal Opportunity Employer.*

More than 150,000 people paid to see your ad in **SCIENCE**. Classified Advertising Department telephone: 202-326-6555. FAX: 202-682-0816.

POSITIONS OPEN

POSTDOCTORAL POSITIONS

MOLECULAR ENDOCRINOLOGY, regulation of endocrine secretion by chromogranin and parathyroid peptides. Research utilizes cell biology, protein chemistry, molecular biology. Exceptional research environment in a health science center. Send résumé and references to: **David V. Cohn, Ph.D., Department of Oral Health, University of Louisville, Louisville, KY 40292. Telephone: 502-588-7507; FAX: 502-588-7240. Affirmative Action/Equal Opportunity Employer.**

POSTDOCTORAL POSITION available immediately. Involves site-directed mutagenesis of a dihydrofolate reductase gene, selection of functional second-site revertants of these mutant genes, followed by kinetic characterization of the mutant enzymes. Experience in molecular biology and enzymology desirable. Salary commensurate with experience. This is an NIH-funded position and is available for 1 to 2 years. Please send curriculum vitae and names of three references to: **Dr. Elizabeth Howell, Biochemistry Department, University of Tennessee, Knoxville, TN 37996-0840. UTK is an Equal Opportunity/Affirmative Action/Title IX, Section 504 Employer.**

POSTDOCTORAL POSITION. Available in the area of biochemical/molecular biological studies on the structure and purification of adenosine receptors. Recent Ph.D. in biochemistry or molecular biology required. Experience in molecular biological techniques required. Send curriculum vitae and names of three references to: **Dr. Gary L. Stiles, Departments of Medicine and Biochemistry, P.O. Box 3444, Duke University Medical Center, Durham, NC 27710. Equal Opportunity Employer.**

POSTDOCTORAL POSITION, MOLECULAR BIOLOGY/BACULOVIRUSES. A postdoctoral position is available to study the regulation of gene expression in baculovirus-infected and -uninfected insect cells. Research will focus on the functional characterization of cis-acting elements and cellular and viral transcription factors. Send complete curriculum vitae, relevant publication reprints, and names and addresses of three references to: **Dr. Gary W. Blissard, Boyce Thompson Institute at Cornell University, Tower Road, Ithaca, NY 14853-1801. Telephone: 607-254-1366.**

POSTDOCTORAL POSITION. Available immediately in an established and productive research program to investigate intracellular cholesterol metabolism and protein expression in macrophages using cell biological and biochemical approaches. Send curriculum vitae to:

**Dr. Ira Tabas
Department of Medicine
Columbia University
630 West 168th Street
New York, NY 10032**

POSTDOCTORAL POSITION. Available immediately to work on the molecular cloning and expression of human DNA polymerases δ and ϵ . Applicants should have a recent Ph.D. with a strong background in molecular cloning techniques and interests in the molecular aspects of DNA replication. Send curriculum vitae and names and addresses of three references to: **Marietta Lee, Ph.D., University of Miami, Department of Medicine (R-57), P.O. Box 016960, Miami, FL 33101.**

POSTDOCTORAL POSITION IN PARASITE MOLECULAR BIOLOGY. A position is available for an individual with a Ph.D. or equivalent degree in biochemistry, molecular biology, parasitology, or microbiology to investigate the molecular biology of erythrocyte invasion by the rickettsia parasite, *Anaplasma marginale*. *A. marginale* is unique among rickettsia in its invasion of a non-nucleated cell type. Parasite surface proteins involved in the invasion process will be identified, molecularly cloned, and characterized. Recombinant products based on these surface proteins will be isolated and tested for their immunoprotective efficacy in cattle. Interested individuals should send curriculum vitae, statement of research goals, and three letters of reference to: **Dr. David R. Allred, Department of Infectious Diseases, Building 471 Mowry Road, IFAS 633, University of Florida, Gainesville, FL 32611. The University of Florida is an Equal Opportunity/Affirmative Action Employer.**

26 OCTOBER 1990

CAREER OPPORTUNITIES

CAS, the world leader in chemical information services, has several openings for professionals who want to analyze and document chemical literature. While editorial experience is not required, a good command of the English language is needed. These are full-time career opportunities located in Columbus, Ohio. Our current needs are in these areas:

GENERAL BIOCHEMISTRY — MS or PhD is required

ENDOCRINOLOGY — MS or PhD is required.

FOOD CHEMISTRY — MS or PhD is required.

MAMMALIAN PHYSIOLOGY — MS or PhD is required and reading knowledge of Japanese preferred.

ZOOLOGY — MS or PhD is required

Located in a growing and dynamic metropolitan area, Columbus, Ohio has excellent housing, cultural, recreational and transportation facilities. In addition to a competitive salary, CAS offers a professional working environment, flexible working hours, generous vacation, exceptional insurance programs, relocation reimbursement, and employer-paid retirement. To be considered, submit your resume to:



**CHEMICAL ABSTRACTS SERVICE
Employment Department
P.O. Box 3012
Columbus, Ohio 43210**

An Equal Opportunity Employer M/F/H/V

Director/Vice President Research & Development Cellular Diagnostics

BioGenex Laboratories, a San Francisco Bay Area company involved in the cellular diagnostics field seeks a qualified candidate with prior training and expertise in the following areas:

- Immunopathology
- Analytical Immunocytopathology
- *In Situ* Hybridization

Applicants should possess strong management and research skills, and a successful track record in a fast paced environment. Prior industry experience helpful but not essential. BioGenex offers competitive compensation, excellent benefits, opportunity for advancement, and a prime location. Please send resume and salary history to:



**BIOGENEX LABORATORIES
4600 Norris Canyon Rd.
San Ramon, CA 94583**



BIOTECH, INC.

REGULATORY AFFAIRS MANAGER

Coors BioTech, Inc., is seeking a Regulatory Affairs Manager.

The primary function of this position is to obtain regulatory and FDA approval for new products and ensure compliance with federal and state GMP's. This position is responsible for developing and implementing strategies for the earliest possible approvals of phase 1 through phase 4 application.

The incumbent will also be responsible for coordinating environmental health and safety activities including plant permitting, data reporting and waste reduction programs.

Candidates must have a BS/MS in a scientific discipline and specialized regulatory knowledge typically developed through 5 to 8 years experience in research and regulatory affairs in the food ingredient industry.

Qualified candidates may submit resume and salary history to:

**Coors BioTech, Inc.
P.O. Box 62B
Johnstown, Colorado 80534
AA/EEO Employer**

GROWTH FACTOR RESEARCH

The Biochemistry Division has two positions available within the Growth Factor Research Department in the laboratories of Dr. Marvin Bayne and Dr. Kenneth Thomas. Our research efforts concentrate on the biochemistry and molecular biology of eukaryotic protein growth factors.

POSTDOCTORAL FELLOWSHIP POSITION - available for a recent Ph.D. degree or equivalent in Molecular Biology, Biochemistry or related areas to participate in research on fibroblast and vascular endothelial cell growth factors.

STAFF BIOCHEMIST - to participate in research on the cloning and expression of novel growth factor genes. Candidates should have a B.S./M.S. degree or equivalent in Molecular Biology or Biochemistry and at least 2-3 years of laboratory experience including cloning and recombinant DNA techniques. Experience in the expression of recombinant proteins in mammalian cell culture is also desired.

Merck Sharp and Dohme Research Laboratories is located in Rahway, New Jersey approximately 25 miles from New York City. Our salaries, benefits and growth potential are excellent. For consideration, please respond in writing by sending your resume with the names of three references to **Human Resources Manager, Merck & Co., P.O. Box 2000, AD#50, Rahway, NJ 07065, R80-A3.**

An equal opportunity/affirmative action employer



Merck & Co., Inc.

BIOTECHNOLOGY

ASSOCIATE SCIENTIST/RESEARCH ASSOCIATE

Cetus Corporation researches, develops and produces pharmaceutical products for the treatment of cancer, autoimmunity and infectious diseases. We currently have an opening for an Associate Scientist/Research Associate to improve the production and screening of random peptides expressed on phage particles.

Working to develop this drug discovery technique, you will be searching for peptides that bind to proteins of therapeutic interest. Publication of results is encouraged. BS to PHD's with a strong background in molecular biology will be considered. Familiarity with receptor binding is desirable.

We offer a competitive salary and benefits package. For consideration, please send your resume to Box 90248/JD, Cetus Corporation, 1400 Fifty-Third Street, Emeryville, CA 94608. We are an Equal Opportunity Employer.



CELL AND DEVELOPMENTAL BIOLOGISTS

The College of Medicine and the Department of Cell and Structural Biology at the University of Illinois, Urbana-Champaign invite applications for a position at the **ASSISTANT PROFESSOR** level. This tenure track position will be available August 21, 1991. Applicants should hold the Ph.D. or M.D. degree or equivalent and show exceptional promise in research in the areas of cell or developmental biology. Responsibilities will include participation in teaching of Human Anatomy to medical students and graduate students. Salary will be commensurate with experience.

Substantial start-up funds and laboratory facilities are available to initiate new faculty research programs, for which the UIUC offers exceptional and broad-based supporting resources. These resources include a Transgenic Animal Facility; the Center for Electron Microscopy, the Genetic Engineering Facility, providing oligonucleotide and peptide synthesis and automated protein sequencing; the Cell Science Laboratory, which contains hybridoma and flow cytometry facilities; a molecular graphics facility; subsidized shops and animal care facilities; and a superb university library system. The UIUC is a National Center for Supercomputing Applications, and is home to the Beckman Institute for Advanced Science and Technology, which combines research in the physical and biological sciences. Many other units within the Schools of Life Sciences and Chemical Sciences, and the Colleges of Medicine and Engineering offer opportunities for interactions in the cellular and molecular sciences.

Urbana-Champaign combines the residential advantages of a medium-sized city (population 120,000) with outstanding cultural amenities within the University, and its location in east-central Illinois gives easy access to the Cities of Chicago and St. Louis.

Applicants are requested to send a curriculum vita, a summary of research interests, and three letters of reference to:

JoAnn Cameron, Search Committee Chairman
College of Medicine at Urbana-Champaign
University of Illinois
190 Medical Sciences Building
506 South Mathews Avenue
Urbana, Illinois 61801
Telephone: (217) 333-1254

In order to ensure full consideration, applications should be received by January 4, 1991. Interviews may be conducted before January 4, 1991, but all applications received by that date will receive full consideration and the final selection will not be made until after that date.

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

THE

BIOGEN

MISSION

One of only three bio-pharmaceutical companies to show a profit in 1989, Biogen, Inc., is beginning its next growth stage as it becomes a fully integrated pharmaceutical company. Products are targeted for use in the AIDS therapeutics, cardiovascular, anti-inflammation, and selected cancer markets.

Bioassay Scientist

Working in an interactive and dynamic environment, you will develop, test and validate immunoassays and bioassays in support of product development work and clinical trials. This will involve developing conceptual designs and protocols for assays as well as evaluating assay results and modifying methods as needed. Additionally, you will participate in Product Team Meetings and communicate with other departments with regard to assay specifications and methods. You must have a PhD in Immunology or Cell Biology and at least 3-5 years of QA/QC industry experience in conducting and developing assays. Relevant experience will include immunoassays, particularly ELISAs, and in vitro bioassays involving mammalian cell lines. Computer experience with statistical analysis packages such as SAS, BMDP, Stat80 is essential. Supervisory experience is also a must.

Our compensation and benefits package is one of the best in the industry, and is designed to attract and retain the finest talent available.

To apply for this immediate opening, send your resume to Biogen, Inc., Ref. SMBS1026, 14 Cambridge Center, Cambridge, MA 02142. Biogen is an Equal Opportunity Employer.

ONCOLOGY DRUG DISCOVERY

Bristol-Myers Squibb Pharmaceutical Research Institute, a worldwide leader in the development and marketing of sophisticated pharmaceutical, medical care consumer and nutritional products, has the following exceptional opportunities available with our Oncology Drug Discovery Group at our Wallingford, CT research facility.

Research Scientists

Immunochemistry - Ph.D. in protein biochemistry or immunochemistry with experience in protein purification and characterization, amino acid sequence determination, and structural and immunological characterization of monoclonal antibodies and antibody conjugates. **(Dept. AZ-90-280)**

Immune Regulation - Ph.D. in Protein Biochemistry with experience in protein purification and characterization. Position involves the isolation and characterization of novel intracellular targets of immunosuppressive agents. Experience with chromatography, HPLC, electrophoresis, western analysis, enzymology necessary and experience in immunological systems would be helpful. **(Dept. AZ-90-281)**

Radionuclide Targeting - Ph.D. in Immunology or related field with a minimum of 2 years of relevant post doc research experience. Experience in radiobiology, animal tumor models, tumor biology, and antibody directed delivery systems. Responsibilities will include the development of novel approaches to cancer therapy using monoclonal antibody targeted delivery of radionuclides. The selected individual will develop strategies to evaluate radioimmuno conjugates in preclinical model systems. Applications will include both the detection and therapy of human tumors. **(Dept. AZ-90-324)**

Assistant/Associate Research Scientists

Molecular Engineering - BS/MS - Requires 2-4 years experience in molecular biology and technical strengths in DNA/RNA manipulation, PCR-related techniques; gene expression and cell culture is preferred. The successful candidate will construct novel genetically engineered molecules for the targeting of cancer cells and participate in the cloning of cytotoxic proteins. **(Dept. AZ-90-248)**

Molecular Biology - BS/MS - Requires 2-4 years experience in protein biochemistry and familiarity with the following: protein extraction/purification, PAGE Western blotting, ELISA, cell culture; molecular biology experience is an advantage. This position involves the analysis of functional domains of proteins and their interaction with drugs. **(Dept. AZ-90-255)**

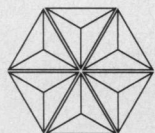
Molecular Biology - BS/MS - Requires 2-4 years experience in protein isolation, characterization and enzymology to pursue structure/function studies of proteins involved in cell cycle regulation. Experience in basic molecular biological techniques is an advantage. **(Dept. AZ-90-283)**

Immune Regulation - BS/MS - Study activation and signal transduction pathways in human T cells. Requires 2-5 years relevant experience and knowledge of T cell biology. Laboratory experience in tyrosine kinases, serine/threonine kinase, tyrosine phosphatases and the PI cycle highly desirable. Technical skills required include single and 2-D gel electrophoresis, Western blotting, in vitro activation assays, tissue culture, and radio labeling techniques. **(Dept. AZ-90-357)**

Immunotherapy - BS/MS in biological science with minimum of 2 years experience in in vivo and in vitro technique. Knowledge in cellular and/or tumor immunology desirable. Perform routine and specialized anti-tumor immunology studies associated with the evaluation of potential immunological agents. **(Dept. AZ-90-321)**

Drug Targeting - BA/BS/MS in Immunology, Cell Biology, Biochemistry or related area. Experience in immunoassays, protein/peptide biochemistry tissue culture. 2+ years experience required with undergraduate degree. Biological evaluation of in vivo and in vitro drug conjugates. Prepare and analyze MAb and drug conjugates. Develop and carry out immunoassays and bindings assays as required. **(Dept. AZ-90-246)**

Bristol-Myers Squibb careers offer the advantages of sustained growth, highly competitive salaries, extensive benefits and professional support in pursuing excellence. Please send resume with salary history (indicating department #) to: **Bristol-Myers Squibb Pharmaceutical Research Institute, ATTN: AZ, P.O. Box 5101, Wallingford, CT 06492-7661.** Equal Opportunity Employer, M/F/H/V.



Bristol-Myers Squibb Company

POSITIONS OPEN

POSTDOCTORAL POSITION. Center for Advanced Biotechnology and Medicine (CABM), Rutgers University. The successful candidate will have experience with experimental NMR, product operator formalism for describing NMR experiments, and some knowledge of RF electronics. The primary responsibility will be to implement and develop 2D- and 3D-NMR pulse sequences for protein structure determination on our Varian Unity 500 NMR Spectrometer System. We are especially interested in developing new heteronuclear NMR experiments which make use of pulse shaping, RAM-based decoupling, and triple-resonance capabilities of this instrument. This person would also be responsible for routine maintenance of our NMR system. Salary: \$22,000 to \$35,000, depending on experience. Interested candidates should forward a copy of their curriculum vitae and the names and addresses of three references to: **Professor G. T. Montellione, CABM, 679 Hoes Lane, Piscataway, NJ 08854. An Equal Opportunity Employer.**

POSTDOCTORAL FELLOW. A position for a postdoctoral fellow is immediately available for a project involving molecular regulation of salivary proteins. Experience is required in transfection of mammalian cells, purification of plasmid and viral expression vectors, purification and quantification of proteins from mammalian cells, and a general hands-on, up-to-date experience with the techniques of molecular biology. Salary negotiable depending upon experience. Please send your curriculum vitae with the names of three references to: **Dr. Kedar N. Prasad, Box A031, University of Colorado Health Sciences Center, Denver, CO 80262. Telephone: 303-270-7830; FAX: 303-270-8993. Affirmative Action/Equal Opportunity Employer.**

Ph.D. FELLOWSHIPS IN WATER SCIENCE AND ENGINEERING

Seek highly qualified master's graduates for fellowships in the areas of study focusing on water quality, bioenvironmental engineering, agricultural chemical transport, water use efficiency, water policy evaluation, automated control, or other water-based topics; \$15,000 per year stipend and tuition. Funding is available for 3 years. *Requires U.S. citizenship.* Apply before 7 January 1991 by sending a résumé, transcript, and list of three references to: **Dr. Derrel Martin, Department of Biological Systems Engineering, University of Nebraska-Lincoln, Lincoln, NE 68583-0726. Telephone: 402-472-1586. Affirmative Action/Equal Opportunity Employer.**

Openings currently exist for an **ASSISTANT/ASSOCIATE STAFF INVESTIGATOR** with 2 to 7 years of post-Ph.D. experience and a **POSTDOCTORAL FELLOW.** Research on the activation and regulation of blood coagulation and fibrinolysis using kinetic and physical biochemistry methods. Excellent salary, fringe benefits, and advancement possibilities. Send curriculum vitae and three references to: **Dr. J. D. Shore, Division of Biochemical Research, Henry Ford Hospital, Detroit, MI 48202. Affirmative Action/Equal Opportunity Employer.**

POSTDOCTORAL TRAINING IN LEUKOCYTE BIOLOGY. We have several **POSTDOCTORAL FELLOWSHIPS** available now for individuals interested in obtaining advanced training in leukocyte biology. Successful applicants will have the opportunity of joining and working with a diverse, multidisciplinary group of scientists interested in multiple aspects of macrophage physiology, including surface receptors, intracellular mechanisms of signal transduction cell-cell recognition, gene regulation, and tumor biology. Emphasis in training is placed on analysis of a problem of the fellow's choice in the above areas with tools in contemporary cellular and molecular biology. The five faculty members in the group include individuals skilled in leukocyte biology, protein chemistry, cell biology, or molecular biology. Previous training in biochemistry, protein chemistry, receptor biology, or cellular/molecular biology would be particularly suitable, though not essential. An attractive stipend, commensurate with experience, will be offered. Openings are available at several levels of training. Interested applicants should send curriculum vitae to: **Dolph O. Adams, M.D., Ph.D., Director, Laboratory of Cell and Molecular Biology of Leukocytes, Box 3712, Duke University Medical Center, Durham, NC 27710. Duke University is an Equal Opportunity/Affirmative Action Employer.**

POSITIONS OPEN



POSTDOCTORAL TRAINEE POSITIONS

The Center for Insect Science is a multicampus interdisciplinary research program funded by the National Science Foundation (Biological Centers Award), the MacArthur Foundation (Vector Biology), and the Dupont and Monsanto Corporations.

Participants include over 60 research laboratories in the Departments of Biochemistry, Ecology and Evolutionary Biology, Entomology, Molecular and Cellular Biology, Neurobiology, Pharmaceutical Sciences, and Veterinary Sciences at the University of Arizona in Tucson, the USDA-ARS Carl Hayden Bee Research Center in Tucson, and the Department of Zoology at Arizona State University in Tempe.

In this competition, priority will go to potential postdoctoral trainees interested in research on the biology of mosquitoes, triatomine bugs, and other insect vectors of parasitic diseases.

Appointments are for 2 years, depending on availability of funds and satisfactory performance. In addition to the stipend, postdoctoral students receive funds to support their research and are expected to develop independent, collaborative projects.

Applicants should send an introductory cover letter with statement of research interests, curriculum vitae, evidence of academic background and degrees earned, and names of three references to: **Dr. Henry H. Hagedorn, Director, Center for Insect Science, 430 Forbes Building, The University of Arizona, Tucson, AZ 85721. The application deadline is 16 November 1990 or until positions are filled. Applications from women and members of minority groups are encouraged. The University of Arizona is an Affirmative Action/Equal Opportunity Employer.**

POSTDOCTORAL POSITION MOLECULAR CARCINOGENESIS PROGRAM

A postdoctoral position is available immediately to study molecular responses to DNA damage in mammalian cells. Studies will focus on characterization of UV-inducible proteins that interact with specific DNA sequences. Background in molecular and cellular biology is desired. Please submit curriculum vitae with three letters of recommendation to:

**Dr. Zeev Ronai
Molecular Carcinogenesis Program
American Health Foundation
1 Dana Road
Valhalla, NY 10595**

An Equal Opportunity Employer, M/F/H/V.

POSTDOCTORAL POSITIONS. Available to study: (i) DNA photolysis and the mechanism of enzymic photorepair of DNA damaged by ultraviolet light and (ii) structure/function relationships in bacterial sarcosine oxidase, a multisubunit tetrahydrofolate-binding protein containing both covalent and noncovalent flavin. Applicants with an interest in enzymology, recombinant DNA technology, or photochemistry are encouraged to send curriculum vitae and names of three references to: **Dr. Marilyn Jorns, Department of Biological Chemistry, Hahnemann University School of Medicine, Broad and Vine, Philadelphia, PA 19102.**

GRADUATE FELLOWSHIPS IN MOLECULAR AND CELLULAR BIOLOGY

The Molecular and Cellular Biology Curriculum at Oregon State University (OSU) offers fellowships to highly qualified Ph.D. candidates. The program integrates 40 faculty and grants degrees through the Departments of Biochemistry/Biophysics, Botany/Plant Pathology, Genetics, Microbiology, and Zoology. Our program offers great breadth in research areas, a large number of potential mentors, flexibility in course selection, and interactions with a large, diverse student/faculty group. First-year awards include stipends up to \$12,000 and tuition remission. For information and application forms, contact: **Molecular and Cellular Biology Curriculum, Oregon State University, Corvallis, OR 97331-2906. Telephone: 503-737-3799. FAX: 503-737-3045. Apply by 15 February 1991 for full consideration. OSU is an Equal Opportunity/Affirmative Action Employer.**

POSITIONS OPEN

POSTDOCTORAL FELLOW/RESEARCH ASSOCIATE. For molecular genetics of signal transduction (ST) leading to gene induction, using *Dictyostelium* and/or T cells harboring HIV promoter. Focus: molecular characterization of ST pathways involving kinases and phosphatases. Requires Ph.D. in biochemistry/genetics; \$30,000 per year or more, depending on qualifications. Send curriculum vitae, list of references, and date available to: **Dr. Robert P. Dottin, Department of Biological Sciences, Hunter College, CUNY, 695 Park Avenue, New York, NY 10021. Equal Opportunity Employer.**

POSTDOCTORAL FELLOW/RESEARCH ASSOCIATE. Position available to study lipoprotein-associated lipid peroxidation and modified lipoprotein interactions with cells, including altered cytokine gene expression. Laboratory is part of a diverse, interdisciplinary group investigating the biochemistry and molecular and cell biology of vascular cells. Competitive salary and excellent fringe benefits. Send curriculum vitae and names of three references to: **Dr. Guy M. Chisolm, Department of Vascular Cell Biology, The Cleveland Clinic Foundation Research Institute, FF4, 9500 Euclid Avenue, Cleveland, OH 44195. Equal Opportunity Employer.**

POSTDOCTORAL RESEARCH ASSOCIATE

A position is available for a recent Ph.D. to join a productive pharmacology group studying antitumor drug resistance. The focus will be on molecular and biochemical mechanisms by which a new class of modulator reverses multidrug resistance. Candidates should have a strong background in biochemical pharmacology or biochemistry. Send curriculum vitae and names of three references to: **Dr. Peter J. Houghton, Department of Biochemical and Clinical Pharmacology, St. Jude Children's Research Hospital, 332 North Lauderdale, Memphis, TN 38101.**

Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL RESEARCH ASSOCIATE.

Position available 1 February 1990 in immunology laboratory studying effects of alcohol exposure on the thymus of the mouse. Experience in flow cytometry, lymphokine assays, molecular genetics, or signal transduction is desirable. Support is from an NIAAA grant for 2½ years. Salary: up to \$25,000 per year, depending on experience. Send curriculum vitae and names of three references by 15 December 1990 to: **Dr. Sandra J. Ewald, Department of Pathobiology, College of Veterinary Medicine, Auburn, AL 36849-5519. Auburn University is an Affirmative Action/Equal Employment Opportunity Employer. Minorities and women are encouraged to apply.**

POSTDOCTORAL RESEARCH ASSOCIATE BIOLOGY OF CFTR

Immediate opening for a postdoctoral research associate to study the biology, function, and regulation of the cystic fibrosis transmembrane conductance regulator (CFTR). The work will be directed at both normal CFTR and naturally occurring and site-directed mutants. Previous work in molecular or cell biology, biochemistry, or electrophysiology is desirable. Send curriculum vitae and the names and addresses of three references to: **Dr. Michael J. Welsh, Howard Hughes Medical Institute, 500 EMRB, University of Iowa College of Medicine, Iowa City, IA 52242. We are an Equal Opportunity Employer.**

POSTDOCTORAL RESEARCH ASSOCIATE

(Molecular Biologist). Responsible for devising and performing experiments to elucidate the structure of recombination intermediates involved in genetic recombination and the role of unusual DNA structure at certain genetic loci in vivo, utilizing a variety of techniques including chemical and enzymatic probing. Requires Ph.D. in chemistry or biochemistry and 1 year of experience in job offered or in postdoctoral research. Also requires research background with plasmid construction, recombinant DNA techniques, DNA sequencing, oligonucleotide synthesis, chemical probing of nucleic acids, DNA structural analysis, and chromatin structure. Salary: \$29,000 per year. Job and interview site: Menlo Park, California. Send this ad and a résumé to: **Job #NOF988, P.O. Box 9560, Sacramento, CA 95823-0560 not later than 10 November 1990.**

POSITIONS OPEN

POSTDOCTORAL ASSOCIATE. Fully funded position using site-directed mutants to study the catalytic mechanism and cellular function of the carbonic anhydrases. Opportunity to participate in cloning new isozyme genes and constructing transgenic animals. Recent Ph.D. with experience in recombinant DNA techniques needed. Please send curriculum vitae and the names of three references to: **Dr. D. N. Silverman, J-267 Health Center, University of Florida, Gainesville, FL 32610-0267.**

RESEARCH IN SIGNAL TRANSDUCTION

The University of Calgary Faculty of Medicine invites applications for a faculty position as an **ASSISTANT PROFESSOR** from scientists with research interests in signal transduction and expertise in peptide synthesis and protein phosphorylation. Applicants require an M.D. and/or Ph.D. and postdoctoral research training. The successful candidate will be a member of a planned MRC Group on signal transduction, and will have 74% of time protected for research. The appointment is contingent on the success of the MRC Group Application. Remuneration will be commensurate with training and experience.

Please submit curriculum vitae, a statement of aims and research interests, and the names and addresses of three referees by 30 November 1990 to:

Search Committee
c/o Ms. G. Garnett
Cell Regulation Research Group
Health Sciences Centre 2521
The University of Calgary
3330 Hospital Drive, N.W.
Calgary, Alberta, Canada T2N 1N4

In accordance with Canadian immigration requirements, priority will be given to Canadian citizens and permanent residents of Canada. The University of Calgary has an Employment Equity Program and encourages applications from all qualified candidates, including women, aboriginal people, visible minorities, and people with disabilities.

RESEARCH POSITION IN ACADEMIC DEPARTMENT OF PATHOLOGY. The Department of Pathology at Stanford University School of Medicine seeks candidates for appointment at the level of **ASSISTANT OR ASSOCIATE PROFESSOR**. Individuals must have an established record of scholarly productivity with scientific articles in peer-reviewed journals and evidence that these articles reflect significant contributions of the candidates in the design and conduct of the studies. There also must be proof of scientific independence and the ability to obtain research funding. Of special interest are candidates with established credentials in the area of molecular biology including as it relates to clinical medicine. Preference will be given to individuals who can contribute to clinical service obligations, particularly in clinical pathology. Applicants should send their curriculum vitae and names of references to: **Klaus G. Bensch, M.D., Professor and Chairman, Department of Pathology, Stanford University Medical School, Stanford University Medical Center, Stanford, CA 94305.** Stanford University is committed to increasing representation of women and members of minority groups on its faculty and particularly encourages applications from such candidates.

RESEARCH ASSOCIATE. For university in central Ohio. Participates in basic research activities of department; studies, records, and analyzes effects of various drugs including antispasmodics in the administration of barium enemas using standard radiologic techniques as well as magnetic resonance imaging; interprets radiologic studies in all modalities; makes recommendations to physicians; collaborates with faculty members on basic research, develops research projects and publishes papers in scholarly journals; acts as mentor to undergraduate medical students. No experience required in the job described but applicants will qualify with the following: M.D. in medicine and 2 years of experience with radiologic equipment including computerized scanners, nuclear magnetic resonance units, ultrasound units, and standard x-ray machines. Of the 2 years, at least 1 year of approved graduate medical experience in diagnostic radiology accredited by the American Board of Radiology. Forty hours per week, 8 a.m. to 5 p.m., Monday to Friday; \$26,280 per year. Must have proof of legal authority to work permanently in the United States. Send résumé in duplicate (no calls) to: **G. Maugans, JO#1260224, Ohio Bureau of Employment Services, P.O. Box 1618, Columbus, OH 43216.**

26 OCTOBER 1990

Postdoctoral Research Fellowships

The PARKE-DAVIS Pharmaceutical Research Division of Warner-Lambert Company has initiated a multidisciplinary postdoctoral research program which will provide excellent opportunities to conduct basic research in emerging areas of biochemistry and cell biology.

Polymorphonuclear Leukocyte Activation - Fellowship #L

This Fellow will work in the Immunopathology Department to investigate the regulation of polymorphonuclear leukocyte activation. Research will involve biochemical and molecular characterization of signal transduction mechanisms which provide for differential regulation of cellular functions.

Applicants should have a Ph.D. in Biochemistry, Cell Biology, or related field. Relevant experience is desirable.

Pharmacokinetics and Drug Metabolism - Fellowship #2790

The Fellow will assess the biological barriers to successful systemic delivery of therapeutic entities which are peptidic by nature. To accomplish these goals, a multi-faceted program will be used, beginning with a knowledge of the physicochemical properties of the molecule. Appropriate in vivo, in situ and in vitro models will subsequently be selected and employed to describe biotransformation, biological transport and metabolism processes which may be rate-limiting to systemic availability. The Fellow will concentrate on the development of in vitro systems to model drug transport and metabolism in mammalian small intestine, with comparison to and support of in situ intestinal perfusions in rats. The intent of this work is to aid in the discovery and design of therapeutic peptides and analogs which are bioavailable after oral administration.

Applicants should have a Ph.D. in Biological Chemistry, Physiology, Pharmaceutics or a related discipline. Experience with animal and/or cell culture models and a strong analytical background is desirable.

Appointments are for one year, renewable for a second year. Compensation includes \$32,000 annual salary with relocation expenses and a comprehensive benefits package.

Our modern, growing research facilities in Ann Arbor provide an outstanding working environment. Interested individuals should send their CV and references to **Mr. Jack Moyer, PARKE-DAVIS, Pharmaceutical Research Division, 2800 Plymouth Road, Ann Arbor, MI 48105.** Please refer to fellowship number when applying. "Smoke-Free Work Environment"

"Equal Opportunity in Action"



PARKE-DAVIS

A DIVISION OF **WARNER-LAMBERT**

POSITIONS OPEN



Boyce Thompson Institute
for Plant Research
at Cornell University

PLANT MOLECULAR BIOLOGIST

The Boyce Thompson Institute at Cornell University invites applications for a tenure-track assistant or associate scientist position in the Plant Molecular Biology Program. Candidates using molecular or genetic techniques to solve fundamental problems in plant development are encouraged to apply. The successful candidate will be expected to establish a vigorous, independent research program, and to collaborate with Institute and Cornell faculty. Candidates with outstanding records in postdoctoral, assistant professor, or equivalent positions will be considered. Submit curriculum vitae, statement of research goals, and three letters of reference by 7 January 1991 to: **Dr. H. Alan Wood, Chair, Search Committee, Boyce Thompson Institute, Tower Road, Ithaca, NY 14853.**

Boyce Thompson Institute is an Affirmative Action/Equal Opportunity Employer. Women and minorities are encouraged to apply.

PLANT VIROLOGIST. To conduct research in the area of plant virology including work on developing alfalfa transgenic germplasm which is resistant to the Alfalfa Mosaic Virus; will be responsible for obtaining numerous viral antisera, and for development of new, quick ELISA field test kit; involves injection of virus into plant tissue and isolation and purification of viruses using various techniques; involves isolation of genes to genetically develop resistant factors; involves use of radioactive isotopes to "label" antibodies; use statistics to develop experimental design so data can be statistically analyzed. M.S. in plant pathology or related field with major concentration in plant virology plus experience using ELISA, dot blot, hybridoma fusion, antibody isotyping, antibody labeling, immunoblotting, epitope competition assays, immunoaffinity purification technology, and handling of radioactive isotopes. Must have some statistics coursework. Forty hours per week; \$28,000 per year. Send résumé to: **Job Service of Iowa, 150 Des Moines Street, Des Moines, IA 50309.** Refer to: **Job Order Number IA0333709.**

CANCER CELL BIOLOGY. The Department of Surgery, Cornell University Medical College, invites applications for the position of **RESEARCH ASSOCIATE** in a laboratory studying site-specific metastasis. The position is available immediately. Informal inquiries should be directed to: **Dr. Giles Whalen, Department of Surgery, telephone: 212-746-5434.** Applicants should send curriculum vitae with the names of at least two references to: **Veronica Johannesson, Department of Surgery, 525 East 68th Street, Room F-739, New York, NY 10021.**

The U.S. Environmental Protection Agency (EPA), Environmental Research Laboratory (ERL), Duluth, Minnesota, is determining the availability of a **RESEARCH ECOLOGIST** with wetlands experience to fill an expected vacancy. The exact date of hire is not yet determined although the target date is early 1991. Responsibilities will include the continued development of an on-going experimental program investigating the effects of wetlands on water quality and water quality effects on wetland integrity. The goal is to establish a scientific basis for water quality standards to protect wetlands. Results from these studies will be expected to be applicable to EPA's regulatory role and contribute to basic wetland science.

A Ph.D. with a major degree in ecology or a related field will be considered although postdoctoral candidates with wetland research experience will also be evaluated. Salary range (\$29,891 to \$38,855) will be commensurate with experience.

For further information, contact **William Sanville, telephone: 218-720-5723**, or write:

U.S. Environmental Protection Agency
6201 Congdon Boulevard
Duluth, MN 55804
Attention: Sherry Linder

to request application forms. Inquiries will be accepted and a copy of the official vacancy announcement will be forwarded to interested applicants.

The U.S. EPA is an Equal Opportunity Employer.

POSITIONS OPEN

FLUORESCENCE EXPERT

The Department of Physiology and Biophysics at the University of Illinois, College of Medicine at Chicago, invites applications for the position of **RESEARCH ASSISTANT PROFESSOR**. Applicants should have a Ph.D. degree and documented skills and productivity in the area of optical spectroscopy, fluorescence labeling of proteins, imaging, and stopped flow kinetics. Salary is dependent upon background and experience. Please send résumé and references to: **Dr. R. John Solaro, Department of Physiology and Biophysics, M/C 901, University of Illinois at Chicago, Box 6998, Chicago, IL 60680.** *The University of Illinois at Chicago is an Affirmative Action/Equal Opportunity Employer.*

RESEARCH ASSOCIATE, INSECT-PLANT INTERACTIONS. For university in central Ohio. Conducts scientific research in insect-plant interactions to elucidate behavioral mechanisms and chemical cues mediating this interaction. Emphasis on the chemical identification of plant compounds responsible for insect host plant finding and selection. Attends scientific meetings; presents and publishes papers. Writes grant proposals. No experience required in the job described but applicants will qualify with the following: Ph.D. in entomology and 1 year of research experience in chemical identification of plant products using gas chromatography, mass spectrometry, and high-performance liquid chromatography; development of behavioral and nutritional bioassays for insect-plant interactions and insect electroantennographic techniques; application of personal computers to statistics (SAS), biological modeling, and word processing. Experience can be gained concurrent with earning degree. Forty hours per week, 8 a.m. to 5 p.m., Monday to Friday; \$24,840 per year. *Must have proof of legal authority to work permanently in the United States.* Send résumés in duplicate (no calls) to: **G. Maugans, JO#1270527, Ohio Bureau of Employment Services, P.O. Box 1618, Columbus, OH 43216.**

TOXICOLOGISTS

The California Department of Food and Agriculture seeks staff toxicologists and associate toxicologists in its pesticide regulatory program. Incumbents will evaluate toxicology studies and/or conduct risk assessments. Positions exist for individuals with master's and/or doctorate degrees in toxicology pharmacology or a closely related field with suitable experience in animal toxicology. Salary ranges begin at \$4398 per month for staff toxicologist (minimum: Ph.D. and 3 years of experience) and \$3320 per month for associate toxicologist (minimum: M.S. and 4 years of experience or Ph.D.). Comprehensive benefits package. Continuous testing, oral exam required. Submit résumés to:

Department of Food and Agriculture
Examinations Unit
1220 N Street, Room 154
Sacramento, CA 95814

New Mexico State University (NMSU) Primate Research Institute (PRI) position available: **VETERINARY PATHOLOGIST.** Salary: \$65,000 to \$85,000 (DOE).

Qualifications: D.V.M. with specialization in pathology, Board certification is preferred, Board eligibility is acceptable. Board certification must be completed within 12 months of hire. Preference for Ph.D.

Experience: Candidates are sought with a minimum of 5 years of experience in viral pathology and/or comparative toxicological pathology. A strong research interest with evidence of productivity required.

Responsibilities: Establish an independent, funded research program in collaboration with the Veterinary Sciences and Virology/Immunology Divisions at PRI. Supervision of pathology and necropsy laboratories. Coordination of the pathology aspects of GLP safety studies. Provision of support to the PRI primate colonies in general and systemic pathology and in comparative and diagnostic clinical pathology. *NMSU is an Equal Opportunity/Affirmative Action Employer. Offer of employment contingent upon verification of individual's eligibility of employment in the United States and PRI's health standards.* Position contingent on external funding. Deadline for applications: 26 November 1990. Reply to: **Dr. Preston A. Marx, Director, Primate Research Institute, New Mexico State University, P.O. Box 1027, Holloman AFB, NM 88330.** Telephone: 505-479-6101.

Senior Development Scientist

CHOLESTECH is a growing San Francisco Bay area pharmaceutical company focusing on both diagnosis and treatment of hyperlipidemia. A challenging opportunity now exists within our aggressive, hands-on development team for a Senior Development Scientist.

In this new position, you will apply your creativity and initiative to the development of diagnostic assays and controls suitable for physician office use. Requires a PhD in Chemistry/Life Sciences and a minimum of 2 years related experience or a BS/MS with 5+ years experience. Ideal candidates will have a background in clinical chemistry assay R&D and knowledge of control material evaluation/preparation/value assignment procedures.

CHOLESTECH offers an excellent compensation package that includes stock option plan eligibility. For immediate, confidential consideration, please mail or FAX your resume to: **Susan Smith, Cholestech Corp., Dept. S1026, 3347 Investment Blvd., Hayward, CA 94545-3877. FAX # (415) 732-7227.** We are an Equal Opportunity Employer

CHOLESTECH



Sloan-Kettering Institute for Cancer Research Immunology Program

Postdoctoral position available to study molecular and cellular aspects of T cell development. Specific experiments involve studying molecular requirements for positive and negative selection, control of T cell receptor, CD8 and CD4 expression and signaling via these molecules at different stages of intrathymic development. Generation and analysis of transgenic mice using intrathymic injections, fetal thymic organ culture and other molecular and cellular techniques are going to be used to answer these questions. Experience in molecular techniques is an asset. Memorial Sloan-Kettering Cancer Center is an excellent intellectual environment, conducive to productive research.

Applications consisting of a cv, list of publications and at least two letters of recommendation should be submitted to:

Dr. Janko Nikolic-Zugic
Head, T Cell Development Laboratory
Memorial Sloan-Kettering Cancer Institute
1275 York Avenue
New York, NY 10021
(212) 639-2387

SKI is committed to equal opportunity through affirmative action and therefore, members of minority groups are encouraged to apply.

USDA NATIONAL NEEDS GRADUATE FELLOWSHIPS

University of Missouri

Highly qualified candidates seeking the Ph.D. degree are invited to apply for these prestigious fellowships within the Food for the 21st Century Program at the University of Missouri-Columbia. These awards provide \$15,000 per annum plus tuition waivers in the following areas:

Animal Reproductive Biology

Dr. R. Michael Roberts
158 Animal Science Research Center
Tel: 314-882-7957
Fax: 314-882-6827

Plant Biotechnology

Dr. Doug Randall
117 Schweitzer
Tel: 314-882-4847
Fax: 314-882-5635

Food Engineering

Dr. Fu-Hung Hsieh
248 Ag Engineering
Tel: 314-882-2444
Fax: 314-882-1115

Send letter stating interest, resumé, three letters of reference and transcript to appropriate person listed above.



University of Missouri
Columbia, Missouri 65211

The University of Missouri is an Equal Opportunity Employer

USDA NATIONAL NEEDS GRADUATE FELLOWSHIPS

CELL SCIENCES

POSTDOCTORAL SCIENTIST

SmithKline Beecham Pharmaceuticals, a worldwide leader in pharmaceutical research, has a challenging opportunity for a postdoctoral scientist to join its Immunology Section in the Department of Cell Sciences. The successful candidate will investigate the pharmacological manipulation of suppressor-cell induction for the treatment of autoimmune disease. Applicants should have experience in *in vitro* and *in vivo* immunological techniques including suppressor-cell induction/evaluation and phenotyping, antigen presentation, antibody synthesis, and delayed-type hypersensitivity, suppressor factor isolation and purification. The role of colony stimulating factors in suppressor-cell induction will also be investigated.

Qualified candidates will have a Ph.D. in Immunology, Microbiology, Biochemistry, or related field; experience in immunological techniques; knowledge and experience in biochemical purification techniques; and experience in evaluation of colony stimulating activity (soft agar techniques) is highly desired.

Our state-of-the-art research facility is located in suburban Philadelphia near Valley Forge, PA. We offer a competitive compensation/benefits package as well as the opportunity for growth in a scientifically intense environment structured on creativity, teamwork and commitment. Please send your C.V. to: Nancy Hasson, Employment Administrator, H0146A, SmithKline Beecham Pharmaceuticals, P.O. Box 1539, King of Prussia, PA 19406-0939. We are an Equal Opportunity Employer, M/F/H/V.



SmithKline Beecham
Pharmaceuticals

MARKETING MANAGER DNA BUSINESS UNIT

Marketing manager sought by the industry leader in the design, manufacturing, and sales of sophisticated instrument/reagent systems for life science research. The candidate must have extensive experience managing creative marketing professionals in a leading edge, high-technology based organization.

As a marketing professional, the candidate should have demonstrated success in the development and implementation of comprehensive marketing programs, including the analysis and prediction of market needs, design of product strategies to meet these needs, and development of marketing communications tools to position the company's regional marketing and sales groups to effectively promote and sell the products. Sales and international experience, as well as an understanding of the fundamentals of molecular biology, are desirable attributes.

As part of the senior management team of the business unit, the marketing manager must work effectively with managers in other functions, including R & D, manufacturing, service, sales, and finance. The candidate should have experience championing the role of marketing in a high-technology environment, as well as analyzing the contributions of all company functions to product profitability.

As a team leader, the marketing manager should be highly skilled at mentoring the business unit product managers and marketing communications manager. With them, the marketing manager will be responsible for developing and managing the marketing resources and budget necessary to meet the business unit goals.

We offer competitive salaries and benefits, including relocation assistance. For immediate consideration, please send your resume indicating Reference # 0550 to ABI, Human Resources Dept., 850 Lincoln Centre Drive, Foster City, CA 94404. We are an equal opportunity employer m/f/h/v.



POSITIONS OPEN

INTERESTED IN SPACE BIOLOGY?

The advent of the shuttle program has produced a new era for space biology that offers exceptional opportunities for research. NASA is offering several **RESEARCH ASSOCIATE AWARDS** for scientists to work in laboratories capable of providing scientific advice and facilities relevant to space biology. The awards vary from \$18,000 to \$22,000 based on experience. They are for a 12-month period with the possibility of renewal. Proposals are due 15 February 1991. The funding will begin any time from 1 June to 1 October 1991. Eligible are postdoctoral U.S. citizens. For information, contact: **Dr. X. J. Musacchia, Chairman, NASA Award Committee, Department of Physiology and Biophysics, School of Medicine, Room 1115A, Health Sciences Center, University of Louisville, Louisville, KY 40292**, or **Dr. Thora W. Halstead, Research Associate Program, Life Sciences Division, NASA Headquarters, Washington, DC 20546**. For application forms, contact Dr. Musacchia at the address above or call him at 502-588-5564.

RESEARCH ASSOCIATE. For university in central Ohio. Sets up oxygen and hydrogen stable isotope preparation system, operates and supervises mass spectrometer system, conducts routine analysis of samples, interprets isotope data, sets up strontium and neodymium isotope chemistry lab. Experience with precision work necessary for ice core analysis. No experience required in the job described but applicants will qualify with the following: Ph.D. in isotope geochemistry and at least 2 years of research experience in stable isotope (oxygen and hydrogen) and/or radiogenic isotope (strontium and neodymium) study, design and installation of oxygen and hydrogen preparation system and strontium and neodymium isotope preparation system, and analyzing water samples for oxygen and hydrogen. Experience can be gained concurrent with degree. Forty hours per week, 8 a.m. to 5 p.m., Monday to Friday; \$28,080 per year. *Must have proof of legal authority to work permanently in the United States.* Send résumés in duplicate (no calls) to: **C. Bussard, JO#1260220, Ohio Bureau of Employment Services, P.O. Box 1618, Columbus, OH 43216.** *Equal Opportunity Employer.*

SENIOR RESEARCHER. For producer of biological compounds. Develops new products and methodologies, conducts research, tests chemicals, organizes and prepares data, and reports and advises laboratory technicians. Must know how to use TLC, HPLC, NMR, GC, NMR, and optical meter and mass spectrum. Must possess knowledge in biological activity tests and enzyme mechanisms. Minimum requirements: Ph.D. in organic chemistry and 1 1/2 years of experience or 2 years as chemical laboratory researcher. Salary: \$3317 per month; 40 hours per week. *If offered employment, must show legal right to work.* Job site and interview: Belmont, California. Send this ad and résumé or letter stating your qualifications to: **Job # WS 18962, P.O. Box 9560, Sacramento, CA 95823** not later than 9 November 1990.

STAFF SCIENTISTS BOSTON BIOMEDICAL RESEARCH INSTITUTE

Applications are invited from scientists to conduct independent research programs in the broad areas of molecular or cellular biology. Rank will be commensurate with experience and achievements. Candidates must be able to obtain extramural funding. The institute is an independent nonprofit research organization with excellent research facilities and a stimulating scholarly environment. Interested candidates should send their curriculum vitae, statement of research interests, and names of three references to: **Dr. Terence Tao, Boston Biomedical Research Institute, 20 Staniford Street, Boston, MA 02114.** *Boston Biomedical Research Institute is an Equal Opportunity Employer.*

SCIENTIST

A major sunbelt cardiovascular prosthesis manufacturer seeks Ph.D.'s in biochemistry or biomechanics with several years of experience. Will be involved in the research, development, and characterization of collagen containing biomaterials emphasis on biomechanics and calcification. We offer competitive salary and a wide range of benefits. Please forward résumé to: **Box 117, SCIENCE.**

POSITIONS OPEN

ACADEMIC MEDICAL RESEARCHER. The Portland Veterans Affairs Medical Center (PVAMC) and the Oregon Health Sciences University (OHSU) seek an accomplished biomedical scientist with M.D. or Ph.D. degree for the position of **ASSOCIATE CHIEF OF STAFF FOR RESEARCH** at the PVAMC. He/she will be responsible for administering the PVAMC research program, coordinating the relationship between research at the PVAMC and OHSU, and representing the PVAMC's research program to VA Central Office. This position will have significant program and faculty development responsibilities. The successful candidate will be expected to continue his/her own research program. The individual should have the qualifications for appointment as an associate or full professor in the appropriate department in the School of Medicine. Send curriculum vitae, including bibliography and the names of at least three references, by 25 November 1990, to: **John Crabbe, Ph.D., Chair, Search Committee Research Service (151), VA Medical Center, P.O. Box 1034, Portland, OR 97207.** *An Equal Opportunity Employer.*

RESEARCH SCIENTIST. Ph.D. in biophysics or related fields, with research experience in the physical properties of membrane lipids. Should have working knowledge in electron microscopy, x-ray diffraction, fluorescence spectroscopy, NMR, transport and fusion assays for membranes, protein and lipid purification, analysis, and reconstitution. Good writing skills. Publications. Send résumé in duplicate to: **New York State Job Service, Int. #50, Order #0703341, 68 West Huron Street, Buffalo, NY 14202.** *Equal Opportunity/Affirmative Action Employer.*

MEDICAL MARKETING RESEARCHERS

Analytically creative and articulate Ph.D.'s/M.A.'s in natural sciences or psychology needed for entry level positions in health care marketing research/consulting (starting salary: high \$20,000's to mid \$30,000's). Requires strong conceptual ability, analytic problem-solving skills, comfort in leading group discussions with M.D.'s, excellent writing (beyond journal articles), some statistics. Send résumé to: **Alfred E. Goldman, Ph.D., Senior Vice President, National Analysts, Division of Booz, Allen and Hamilton, Inc., 1700 Market Street, Philadelphia, PA 19103.** *An Affirmative Action Employer.*

LABORATORY SCIENTIST III. Full-time position in the Nutrition Laboratory is available at the University of Maryland Eastern Shore (UMES), Princess Anne, Maryland. Applicants must have knowledge of field and desire to conduct research in the areas of nutrition and metabolism. Ph.D. preferred; will consider lower degrees with research experience. Starting salary is \$25,937 per year. Letters of application, including three letters of reference and curriculum vitae, should be sent to: **Director of Personnel, University of Maryland Eastern Shore, Princess Anne, MD 21853.** Closing date for applications is 15 November 1990. Candidates must be prepared to demonstrate that they may legally accept employment in the United States. *UMES is an Affirmative Action/Equal Opportunity Employer.*

COURSES AND TRAINING

CAREER CHANGE OPPORTUNITY

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

TOOLS FOR A NEW BIOLOGY. A 1-week **COURSE** (6 to 11 January 1991) focusing on an integrated, multidisciplinary approach to the development of procedures for the separation, detection, and microcharacterization of complex mixtures of proteins and nucleic acids. Includes the role of novel computer hardware/software in the analysis of biological data. Sponsored by the NSF Center for Molecular Biotechnology. Director: **Leroy Hood.** For information, contact: **Karen Thompson, Caltech, Division of Biology, 139-74, Pasadena, CA 91125.** Telephone: 818-397-2765. FAX: 818-793-4627.

ANNOUNCEMENTS

GREAT LAKES GRADUATE FELLOWSHIP AWARDS

The International Association for Great Lakes Research (IAGLR), supported by funding from the C. S. Mott Foundation, annually awards fellowships to each of three Canadian (one Ph.D.; two M.Sc.) and three U.S. students (one Ph.D.; two M.Sc.). The program supports high-quality research on toxic contaminants of North America's Laurentian Great Lakes (e.g., the study of transport, fate, and management of toxics and/or their impact on human and environmental health). *Candidates must be Canadian or U.S. citizens and must be enrolled in recognized Canadian or U.S. universities supporting active Great Lakes research programs.* The awards provide \$17,000 (U.S.) to each doctoral candidate and \$8,500 (U.S.) to each master's degree candidate. For more information and application materials, contact: **IAGLR Business Office, University of Michigan, 2200 Bonisteel Boulevard, Ann Arbor, MI 48109.** Application deadline is 1 January 1991.

SITUATIONS WANTED

BIOCHEMIST with 20 years of experience in computer modeling and simulation of chemical and biological systems seeks research position or consulting. **Box 114, SCIENCE.**

BIOLOGIST with 1 1/2 years of postdoctoral experience seeks health-related biomedical research and/or teaching. Experience: DNA damage, tissue culture, molecular biology, computers. **Box 97, SCIENCE.**

CONSERVATION BIOLOGIST. Highly motivated, enterprising, published individual seeking a postdoctoral position in field/laboratory research. All areas are of interest. **Scott R. Campbell, 16 East 36th Street, Reading, PA 19606.** Telephone: 215-779-1511.

MOLECULAR BIOLOGIST, Ph.D. (1981). Virology, gene expression, recombinant DNA. Seeking industrial/academic research position in United States or Europe. **Box 56, SCIENCE.**

Ph.D. expert in risk communication, risk perception, technological hazard management, environmental policy, academic/government experience, seeks senior research or teaching position. **Box 118, SCIENCE.**

VIROLOGIST, 23 years of experience in food and water virology. Research, administration, publications. Seeking challenging research/administrative position. B.S. degree. **Box 119, SCIENCE.**

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CUSTOM OLIGOS

European Opportunities for Ph.D. Environmental Scientists

THE OPENINGS

Procter & Gamble has several entry-level openings for environmental scientists with Ph.D. or postdoctoral training in the following disciplines:

<i>Biochemistry</i>	<i>Microbiology</i>	<i>Toxicology</i>
<i>Chemistry</i>	<i>Biology</i>	<i>Sanitary Engineering</i>
<i>Soil Sciences</i>	<i>Ecology</i>	<i>Agricultural Engineering</i>

THE POSITIONS

The openings for these disciplines are in environmental toxicology and chemistry in our Research and Development locations in Brussels, Belgium and Schwalbach, (*near Frankfurt*) Germany.

THE CANDIDATES

The candidates will have excellent academic records, good communication skills and a good command of English. Applicants must be fluent in at least one of the following languages: Dutch, French, German, Italian, Spanish or Greek.

The candidates should be free of military service obligations.

Employment is contingent upon possession of citizenship or immigration visa for European Community or Scandinavian countries, Austria or Switzerland.

THE COMPANY

Procter & Gamble is a research and development-based international corporation with more than \$24 billion in worldwide sales in household consumer products and an R&D budget of just under \$700 million.

In Europe, the Middle East and North Africa, Procter & Gamble is engaged in the research and development, manufacture and sale of a wide range of household consumer products including detergents, fabric-care products, toilet soaps, beauty and health-care products, disposable personal hygiene products, household care products and beverages.

THE OFFER

We offer starting positions for a research and development career in a successful, strong, and growing company and in an environment which will stimulate personal and professional growth. We have a policy of 'promotion from within' based on contribution and potential. Salaries are highly competitive and coupled with an excellent benefits package which provides for pensions, health care and paid relocation.

APPLICATIONS

To apply, please send your resume and publication list to:

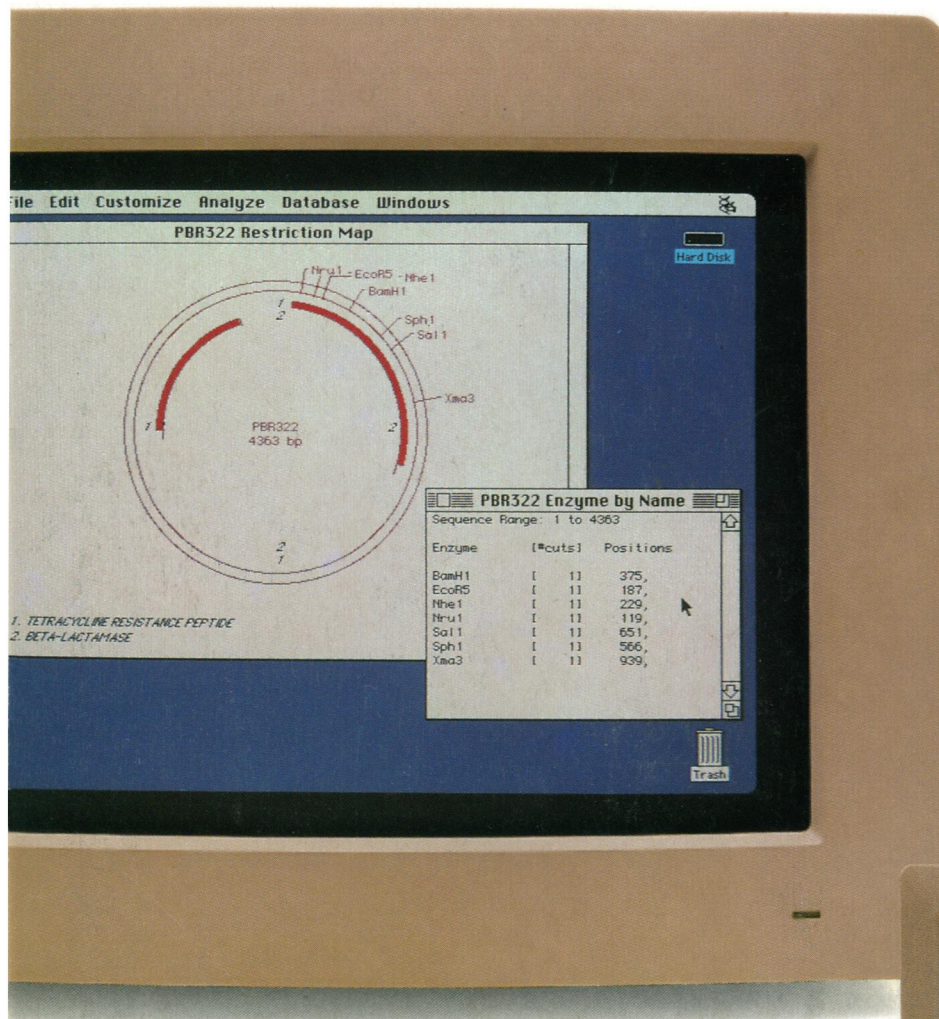
Dr. T. J. Logan, Manager
Ph.D. Recruiting
European Environmental Scientists
THE PROCTER & GAMBLE COMPANY
Miami Valley Laboratories
P.O. Box 398707, Cincinnati, Ohio 45239-8707

Allow 6-8 weeks for response

No agency referrals, please.

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