

# Bronchial Pack<sup>®</sup>

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PRODUCT!**  
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BronchialPack<sup>®</sup>, Normal Human Bronchial/Tracheal Epithelial Cells (NHBE) in BEGM<sup>®</sup>

## Normal Human Bronchial/Tracheal Epithelial Cells in Serum Free Medium, BEGM<sup>®</sup>

Each BronchialPack<sup>®</sup> is a complete cell system containing either cryopreserved or proliferating cells, optimized serum free medium and the necessary reagents for subculture and propagation of the cells *in vitro*. BronchialPacks<sup>®</sup> are routinely used in respiratory research, toxicity testing, drug discovery and basic research.

BronchialPack<sup>®</sup> is just one in our product line which has grown to 13 complete cell systems providing skin, vascular and airway cells. All systems are performance and virus tested. You may also purchase each component from any system separately. For more information, in the US & Canada call (800) 852-5663 (voice) or (619) 541-0823 (fax).



**NORMAL HUMAN CELL SYSTEMS<sup>®</sup>**

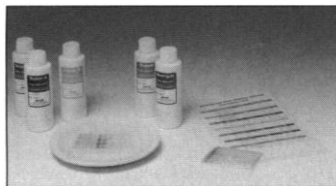
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## Silver Staining Kit

The SilverXpress Silver Staining Kit features ammoniacal silver chemistry and a seven-step stain-



ing procedure to provide a highly sensitive silver stain with little or no background in just over an hour. With minimal effort, nanogram levels of protein and nucleic acid can be detected. **Novex. Circle 138.**

## Electrophoresis Components Cleaner

Mimax converts an existing vertical gel electrophoresis tank into an automatic sandwich component cleaner. The product displaces the conventional method of washing electrophoresis plates and components by hand. Mimax reduces the user's contact with hazardous reagents and prevents chipping and breakage of glass plates. Mimax fits inside the tank of a vertical gel unit and holds four glass plates plus clamps and spacer. **Research Products International. Circle 139.**

## Red Flashlight

Hypertorch is a red light emitting pocket flashlight for use in dark rooms with autoradiography films and emulsions. Hypertorch allows the minimum safelight exposure when handling sensitive emulsions. It also aids in locating equipment in the darkroom in areas that the safelight does not illuminate. **Amersham International. Circle 140.**

## Particle Removal and Sample Concentration

New Micropure inserts for Microcon microconcentrators allow simultaneous particle removal

and sample concentration in a single step, providing faster sample processing, simpler protocols, and higher recovery. Micropure offers 0.22- or 0.45- $\mu$ m filtration combined with a choice of Microcon's 3-, 10-, 30-, 50-, or 100,000-MW cut-off ultrafiltration. Simultaneous clarification and concentration of samples up to 350- $\mu$ l speeds and simplifies extraction of DNA or protein from excised electrophoresis gel slices or fermentation broths. **Amicon. Circle 141.**

## Protein and Antibody Recovery System

Activated ACT-MOD purification cartridges help the user separate and capture proteins and antibodies from crude stocks such as cell culture media, cell lysates, and fermentation broths via adsorption. The cartridges can reduce the need for centrifugation and ultrafiltration as a first capture step. They are available in various ion exchange chemistries as well as affinity protein A, protein G, heparin, hydrazide, silica, and amino activated chemistries. The cartridges can combine clarification, concentration, and capture in one step. The process is scalable from lab unit to large size production, from a few liters to thousands of liters. **FMC. Circle 142.**

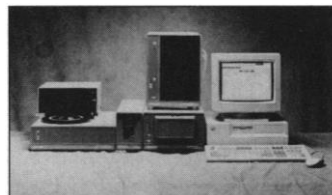
## Repetitive Element and Vector Primers

Nine repetitive element primers and nine vector primers are now available. The repetitive element primers consist of six Alu primers, one long interspersed repeat element primer, and two telomere primers. The vector primers consist of M13 forward and reverse sequencing primers, Lambda gt 10 and gt 11 forward and re-

verse primers, T7 promoter primer, SP6 promoter primer, and T3 promoter primer. **BIOS Laboratories. Circle 143.**

## Automated Amino Acid Analysis

Ion exchange chromatography and ninhydrin derivatization are combined in this system to offer automated quantitative amino acid analysis. Proven methods are provided on diskette and reagents and columns are available to guarantee protein hydrolysate



results to be accurate and reproducible. The binary solvent delivery module generates precise step gradients with one liquid while the other delivers reagent to the post-column reactor. **Beckman Instruments. Circle 144.**

## Airborne Microbe and Virus Detector

A disposable gelatin membrane filter is designed for detection of airborne microbes and viruses. The user simply removes the disposable membrane from its package and places it on the Sartorius MD8 Air Sampler's aluminum ring. The disposables eliminate the need for cleaning, sterilizing, and preparing reusable filter holders. **Sartorius. Circle 145.**

## Gel Cassettes

Empty Snap-A-Gel plastic cassettes are available for researchers who prefer to pour their own

mini gels for protein and DNA electrophoresis. These cassettes save the time and effort involved in cleaning and assembling glass and spacers. The cassettes are leak-tight and will not break like glass. Simply pour acrylamide solutions into the cassettes, allow for polymerization, load samples, and run. **Julie. Circle 146.**

## Literature

*Supelco Chromatography Products 1994* contains almost 900 pages of columns and accessories for chromatography and capillary electrophoresis, chemical standards, and equipment for sample preparation, including supercritical fluid extraction and solid phase micro extraction. **Supelco. Circle 147.**

*Calbiochem 1994/95 Catalog* features more than 300 products, including anti-cyclic AMP, anti-cyclic GMP, anti-opioid receptor, apolipoprotein E, isoforms E3 and E4, casein kinase II, G-subunit antibodies and recombinant controls, protein phosphatase 2A<sub>1</sub> and 2A<sub>2</sub>, and protein tyrosine phosphatase. **Calbiochem-Novabiochem International. Circle 148.**

*1994-95 Product Selection Guide* describes instruments and materials for ion chromatography, high-performance liquid chromatography, capillary electrophoresis, supercritical fluid extraction and chromatography, and laboratory automation. It includes decision trees to help in the selection of separation mechanisms, columns, and detectors for each application. **Dionex. Circle 149.**

*1994 Cytokine Research Products* catalog offers a complete line of more than 150 mouse and human cytokine products, including cytokines, growth factors, receptor reagents, cell adhesion products, paired antibodies, and rapid, sensitive enzyme-linked immunosorbent assay kits. **Genzyme. Circle 150.**

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.

# SCIENCE

## PERSONNEL PLACEMENT

### LINE CLASSIFIED ADVERTISEMENTS

• **Deadlines:** Ads are due by Thursday, 10 a.m., 2 weeks prior to the issue date. *Science* is published each Friday, except the last Friday of the year. Call for holiday deadlines. Advertisements must be submitted in writing.

• **How to Submit a Classified Ad:** Prepare double-spaced typewritten copy. Do not include any abbreviations. *Science* will edit and typeset ads according to *Science* guidelines. Include billing information, and desired publication date. Available categories: Positions Open, Meetings, Announcements, Courses and Training.

• **Mail, FAX, or E-Mail materials to:**  
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 Telephone: 202-326-6555  
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• **Rates:** Ads are \$43 per line; \$430 minimum. One line equals 52 characters and spaces; centered headings equal 32 characters and spaces. A 3% cash discount is granted to all prepaid ads.

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• **Credit Cards:** *Science* accepts MasterCard and VISA. Discount does not apply to credit cards.

• **Cancellations:** Deadline for cancellation is 10 a.m., Tuesday, 10 days prior to issue date.

### DISPLAY PERSONNEL ADVERTISEMENTS

For rates and info. about fractional display ads (all ads 1/4 page and larger), contact:

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 Deborah Cummings  
 Telephone: 202-326-6541

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**CONDITIONS:** Personnel advertising is accepted only with the understanding that the advertisers do not discriminate among applicants on the basis of race, sex, religion, age, color, handicap or sexual preference. The AAAS encourages employers to actively recruit and employ underrepresented minority groups. *Science* reserves the right, at its discretion, to decline to publish advertisements submitted to it.

## POSITIONS OPEN

### TENURE-TRACK POSITION

The University of Missouri Department of Physiology in the Medical School will fill a tenure-track position at the **ASSISTANT** or **ASSOCIATE PROFESSOR** level with emphasis on Neurophysiology relative to established programs in cardiovascular physiology and molecular membrane biophysics. The department is very active in training cardiovascular physiology professionals. A campus-wide program in molecular biology provides state-of-the-art facilities. The successful applicant will be expected to establish an independent neurophysiology laboratory and to teach neuroscience in the medical curriculum and at the advanced graduate level. A Ph.D., M.D., or D.V.M. and at least 2 years of postdoctoral experience are required. Salary and start-up funds are competitive. Send current curriculum vitae and list of references by July 1, 1994, to: **Dr. Allan W. Jones, Chair, Department of Physiology, University of Missouri, MA415 Medical Sciences, Columbia, MO 65212.**

*Missouri University (MU) is an Equal Opportunity Employer with special initiatives to recruit and develop women and minorities. MU complies with guidelines of the Americans with Disabilities Act of 1990 making reasonable accommodations upon request. Contact Dr. Allan Jones, 314-882-4957.*

### ASSISTANT/ASSOCIATE PROFESSOR

One Long-Term-Track Faculty Position. Begin August 1994. Ph.D. required, teaching experience—**NEUROANATOMY/NEUROSCIENCE/NEUROPATHOLOGY**. Expected to teach undergraduate and graduate students in a weekend Physical Therapy Program. Expectation to conduct research. Experience in small college setting preferred. Liberal arts environment. Letter stating interests, complete résumé, transcripts and three letters of reference due prior to May 15, 1994. To: **Dr. Luis G. Vargas, Director, Program in Physical Therapy, Barry University, 11300 Northeast 2nd Avenue, Miami Shores, FL 33161.**

**VISITING INSTRUCTOR/ASSISTANT PROFESSOR BIOLOGICAL SCIENCES.** Ohio Northern University (ONU), a Methodist church-related institution of 2,900 students, invites applications for an excellent teacher for courses in introductory biology and zoology during the 1994-95 academic year. The applicant should have the Ph.D. The ABD will be considered. The position will begin September 1, 1994, and conclude May 31, 1995. Send a letter of application, résumé, transcripts, a statement of teaching philosophy, and three letters of recommendation to: **Terry Keiser, Chair, Department of Biological Sciences, Ohio Northern University, Ada, OH 45810.** *ONU is an Affirmative Action/Equal Opportunity Employer and encourages applications from minorities and women.*

### BIOMEDICAL ENGINEERING CENTER THE OHIO STATE UNIVERSITY

Biomedical Engineering Center is seeking a faculty member (**ASSISTANT, ASSOCIATE or FULL PROFESSOR**) with expertise in **Biomedical Imaging**. This faculty position is made possible by a recently funded **WHITAKER FOUNDATION** Special Opportunity Award. The applicants will have a doctorate in engineering and demonstrated expertise in biomedical image capture, processing or display. The successful candidate will work as part of a multidisciplinary team of engineers, scientists, and clinicians, and conduct basic and applied research and development in the area of biomedical imaging. The new faculty member will participate fully in the development of the new graduate curriculum in biomedical imaging, teach courses, advise graduate students, and develop independent research projects and secure extramural funding to support these activities. This position is a tenure-track appointment. The Biomedical Engineering program at Ohio State currently has over 90 graduate students, a third of whom are working in biomedical imaging. Applicants should send résumé and three letters of reference in confidence to: **Dr. J. Fredrick Cornhill, The Ohio State University, Biomedical Engineering Center, 1080 Carmack Road, 270 Bevis Hall, Columbus, OH 43210-1002. Telephone: (614) 292-1285; FAX: (614) 292-7301.** *The Ohio State University is an Equal Opportunity/Affirmative Action Employer. Women, minorities, Vietnam-era veterans, disabled veterans and individuals with disabilities are encouraged to apply.*

## POSITIONS OPEN

### RESEARCH SCIENTIST, PH.D., DIVISION OF NEPHROLOGY: RHODE ISLAND HOSPITAL/ BROWN UNIVERSITY SCHOOL OF MEDICINE

Rhode Island Hospital seeks a Research Scientist with a Ph.D. in Molecular and/or Cell Biology with a minimum of 2 years of postdoctoral research experience to join the full-time faculty staff. Candidates must qualify for appointment as **INSTRUCTOR/ASSISTANT PROFESSOR** of Medicine (Research) at Brown University School of Medicine. The incumbent will participate in the educational and training programs of the Division. Individual must function as an independent but collaborative investigator with other scientists in the Nephrology Research Laboratory.

Interested candidates should send curriculum vitae to: **Lance Dworkin, M.D., Chair, Search Committee, Rhode Island Hospital, 593 Eddy Street, Providence, RI 02903** by June 15, 1994. Screening of applicants will begin at that time and continue until a successful candidate is identified or the search is terminated. *Rhode Island Hospital is an Equal Opportunity/Affirmative Action Employer and actively solicits applications from minority and protected groups.*

**ASSISTANT/ASSOCIATE PROFESSOR.** Teaching and research (60/40) faculty position employing a basic scientific approach to postharvest physiology of fresh horticultural crops. Requires participation on a multi-commodity and interdisciplinary education and research team. Ph.D. in plant science or allied field, strong background in plant physiology and superior communication skills required. Postdoctoral and teaching experience and a record of scholarly and academic achievement preferred. Salary commensurate with training and experience. Submit résumé, statement of goals, official transcripts and four letters of reference to: **Lisa Washburn, Department of Horticulture and Landscape Architecture, Washington State University, Pullman, WA 99164-6414. (Telephone: 509-335-9502).** Deadline for application is July 1, 1994, or until position is filled. *Equal Opportunity Employer/Affirmative Action/ADA.*

**ASSISTANT PROFESSOR BIOLOGY.** Non-tenure-track positions, with possibility of renewal, beginning August 1994. To teach introductory Biology (major or non-majors) and/or upper-level courses. Strong commitment to teaching excellence and research. Ph.D. preferred, bilingual (Spanish/English). Submit curriculum vitae, statement of teaching and research interests, and three letters of recommendation by May 20, 1994, to: **Dr. Carmen Umpierre, Chairperson, Biology Department, University of Puerto Rico, Cayey, Puerto Rico 00736. Telephone: (809) 738-2161, Extension 2036 or FAX: (809) 263-6426.** *UPR is an Equal Opportunity/Affirmative Action Employer.*

**ASSISTANT PROFESSOR or ASSOCIATE PROFESSOR** expert in cellular and molecular biology. Applicant should have independent program and cooperate with colleagues within and outside the department. Send curriculum vitae to: **Dr. Dale E. Bockman, Department of Cellular Biology and Anatomy, Medical College of Georgia, Augusta, GA 30912-2000.** *MCG is an Equal Opportunity Employer. Women, minorities and the disabled are encouraged to apply.*

### IMMUNOLOGIST

University of Massachusetts Medical School  
(UMMC)

The Department of Molecular Genetics and Microbiology invites applications for a tenure-track position at the **ASSISTANT or ASSOCIATE PROFESSOR** level in molecular or cellular immunology. Ability to establish an externally funded research program and to teach graduate and medical students is expected. Applications should include curriculum vitae, a brief statement of research accomplishments and interests, reprints of selected publications (not to exceed 3), and the names, addresses and telephone numbers of 3 individuals whom the applicant has asked to send letters of recommendation. Send applications to: **Immunology Search Committee, Department of Molecular Genetics and Microbiology, University of Massachusetts Medical School, 55 Lake Avenue North, Worcester, MA 01655.**

*UMMC is an Equal Opportunity/  
Affirmative Action Employer.*

# SANDOZ RESEARCH INSTITUTE

## PUT YOUR CAREER ON THE FRONTIER OF SCIENTIFIC RESEARCH

**A**t Sandoz Pharmaceuticals Corporation, research is the tool by which we gain the knowledge needed to improve the lives of countless thousands across the country and around the world. That is why we have committed substantial resources to expanding our research institute, which now includes a wealth of state-of-the-art technologies and brand new laboratory facilities. If your career belongs on the leading-edge of scientific research, you belong at Sandoz. We currently have immediate openings available for the following research professionals:

### **Associate Fellow - Diabetes**

Ph.D. or equivalent in Physiology or a related discipline with outstanding practical laboratory experience to direct a laboratory dedicated to the physiological evaluation of potential hypoglycemic agents. The incumbent will also assist in the development and assessment of novel animal models of insulin resistance and diabetes. Knowledge of carbohydrate and fat metabolism, insulin resistance and diabetes would be a definite plus. Applicant should possess strong oral and written communication skills, and be able to interact with other scientists congenially and successfully. **(Position #2889).**

### **Postdoctoral Fellow - Diabetes**

Recent Ph.D. or equivalent in a life science to work on a project involving the activation of glucose transport. The ideal candidate would possess a strong background in biochemistry of signal transduction and whole-animal or isolated organ physiology. Applicant should possess strong written and oral communication skills. **(Position #PD-019).**

### **Postdoctoral Fellow - Diabetes**

Recent Ph.D. or equivalent to work on a project concerned with the regulation of expression of genes relevant to the development and/or treatment of insulin resistance and non-insulin-dependent diabetes mellitus. The ideal candidate will have a recent Ph.D. or equivalent in Biochemistry, Molecular Biology or a closely related subject, with a background and interest in hormone action, signal transduction or the regulation of gene expression. **(Position #PD-023).**

### **Postdoctoral Fellow - NMR Applications In Biology**

The Central Technologies Department seeks a highly motivated individual with a Doctoral degree in the Life Sciences. This position will provide postdoctoral training in the application of nuclear magnetic resonance methodology to problems of intermediary metabolism in disease, drug therapy, metabolism and toxicity. The successful candidate will have broad training in the life sciences, a working knowledge of NMR and the desire to exploit new technologies to address issues in drug discovery and development. He or she will pursue collaborative research in a multidisciplinary environment. Tissue culture and/or organ perfusion expertise is desirable. **(Position #PD-013).**

### **Postdoctoral Fellow - Biomedical Mass Spectrometry**

This position will provide qualitative and quantitative mass spectrometric support of Drug Metabolism research. The successful candidate will be the prime operator of a state-of-the-art EC/ESI/MS system. Activities will include quantitative feasibility studies for new drug candidates and MS support of drug metabolite identification work from both in-vitro and in-vivo systems. Strong electromechanical skills and experience with Finnigan mass spectrometers would be advantageous. A Ph.D. or equivalent in Analytical Chemistry, Pharmaceutical Science or related field and a background in mass spectrometry is required. **(Position #PD-022).**

Postdoctoral appointments are for one year but are renewable for a second year by mutual agreement. Sandoz Research Institute provides our scientists with an environment that encourages creative thinking and ample opportunities for publication and research presentations.

Sandoz offers comprehensive health, dental, and savings plans as well as an attractive location in northern New Jersey. For consideration, please specify the number of the position you are responding to and forward your curriculum vitae and the names and addresses of three references to:

**SANDOZ PHARMACEUTICALS CORP**  
SRI Human Resources  
Building 122/1  
East Hanover, NJ 07936  
An Equal Opportunity Employer M/F/D/V



**SANDOZ**  
*bringing research to life*

## POSITIONS OPEN

### ASSISTANT PROFESSOR PHYSIOLOGY

The Department of Physiology and Neurobiology, University of Connecticut, Storrs, invites applications for an anticipated full-time tenure-track position at the Assistant Professor level. Applicants must have a doctoral degree with broad training in physiology and at least two years of postdoctoral experience. The candidate will be expected to maintain an independent research program supported by extramural funding, directed towards understanding epithelial membrane transport mechanisms using cellular and molecular approaches. Applicants with an interest in comparative physiology are encouraged to apply. Participation in teaching of both graduate and undergraduate courses is required. Start-up funds and salary are competitive. Existing faculty interests include neurobiology, endocrinology, membrane transport and muscle physiology. Send curriculum vitae, a brief statement of research direction, and the names of three references to: **Professor Guillermo Pilar, Department of Physiology and Neurobiology, University of Connecticut, Box U-42, Storrs, CT 06269-3042.** We encourage applications from underrepresented groups, including minorities, women and people with disabilities. (Search #4A301).

### VERTEBRATE BIOLOGIST CARLETON COLLEGE

Applications are invited for a one-year leave replacement beginning September 1, 1994, at the rank of **ASSISTANT PROFESSOR** in the Department of Biology. Teaching responsibilities include a course in vertebrate biology, a course in animal behavior, a seminar in area of special interest, and participation in laboratory instruction for introductory courses. Ph.D. preferred—ABD considered. *Women and minority candidates are strongly encouraged to apply.* Send application, curriculum vitae, undergraduate and graduate transcripts, a statement of teaching philosophy, a summary of research and three letters of reference to: **G. E. Wagenbach, Department of Biology, Carleton College, Northfield, MN 55057-4025** by June 1, 1994. Carleton College is an Equal Opportunity/Affirmative Action Employer.

### FACULTY POSITIONS IN DRUG ABUSE AND ALCOHOLISM

The University of Arkansas for Medical Sciences (UAMS) is seeking a full-time faculty member with interests in drug abuse and alcoholism. The position is for a basic scientist at the **ASSISTANT** or **ASSOCIATE PROFESSOR** level with a strong record of research productivity in cellular or molecular aspects of alcoholism, drug abuse, or neuropharmacology. This position is in the Department of Pharmacology and Toxicology. Adequate laboratory space is available in a new research building. The position is in the tenure track. Interested applicants should send a letter of interest and curriculum vitae to: **Dr. D. E. McMillan, Department of Pharmacology and Toxicology, University of Arkansas for Medical Sciences, 4301 West Markham Street, Little Rock, AR 72205.** UAMS is an Equal Opportunity/Affirmative Action Employer.

### ASSISTANT PROFESSOR— PLANT ECOLOGIST

The faculty of the University of Mississippi Department of Biology invites applications for a tenure-track, nine-month appointment. Duties: Conduct research in specialty area; develop an extramurally funded research program; excel in undergraduate and graduate teaching, including introductory and specialty courses; direct graduate students; professional service; advise undergraduates. Research and teaching opportunities exist at the U.M. Biological Field Station. Qualifications: Doctoral degree; research experience and publications in plant ecology; evidence of ability to obtain extramural funding. Applications reviewed beginning May 1994, until position is filled. Position available: August 1994 or January 1995. Send a letter of application; description of current research and future plans, including teaching experience and interests; curriculum vitae; and the names, addresses, and telephone numbers of at least three references to: **Dr. James Kushlan, Chair, Department of Biology, University of Mississippi, University, MS 38677; Telephone: 601-232-7204.**

*Women and minorities are particularly encouraged to apply. The University of Mississippi is an Affirmative Action/Americans with Disabilities Act/Equal Opportunity Employer.*

## POSITIONS OPEN

### ORTHOPAEDIC RESEARCH ASSISTANT PROFESSOR

The Department of Orthopaedic Surgery is seeking applications for a tenure-track Assistant Professor with at least 3 years of postdoctoral research experience to join the Musculoskeletal Research Laboratory. Candidates should have a funded research program in skeletal biology with expertise in cell biology, and/or bone histomorphometry. Faculty rank will be determined by academic credentials and experience. Submit curriculum vitae and names of three references to: **G. Paul DeRosa, M.D., Chairman, Department of Orthopaedic Surgery, Indiana University School of Medicine, 541 Clinical Drive, Room 600, Indianapolis, IN 46202-5111.** Application deadline is May 20, 1994. *Affirmative Action/Equal Opportunity Employer, M/F.*

**ASSISTANT PROFESSOR HEMATOLOGY/ONCOLOGY**—The VA Medical Center and affiliated University of Arkansas for Medical Sciences/Arkansas Cancer Research Center are searching for a physician with demonstrated research and clinical expertise in Hematology/Oncology, multiple myeloma, and bone marrow transplantation for joint appointment with assistant professor rank. Significant clinical research background in cytokines and Phase II/III range in protocols and clinical trials desired. Applications should be directed to: **Bart Barlogie, M.D., FACP, Medical Service (111/LR), VA Medical Center, 4300 West 7th Street, Little Rock, AR 72205; Telephone: 501-660-2029; FAX: 501-660-2052.** Equal Opportunity Employer.

**ASSISTANT PROFESSOR** in Vertebrate Biology with interests in tropical biodiversity. **FLORIDA INTERNATIONAL UNIVERSITY (FIU)** seeks to fill a tenure-track position based at the North Miami campus to start in August 1994. The successful applicant will teach human anatomy and majors introductory biology, plus courses in his/her specialty. A Ph.D. is required and postdoctoral experience preferred. To apply send curriculum vitae, representative publications, and three letters of reference to: **Dr. Joel Trexler, Chair Vertebrate Biology Search, Department of Biological Sciences, Florida International University, Miami, FL 33199; FAX: 305-348-1986.** Applications must be postmarked on or before May 27, 1994. *FIU is an Equal Access/Affirmative Action/Equal Opportunity Employer and a member of the State University System of Florida.*

Molecular Geneticist. **ASSISTANT PROFESSOR**, tenure-track. Experience in mammalian genetics and molecular biology is required and animal science background preferred. Candidates should be prepared to teach animal breeding and genetics at all levels. The candidate should develop a strong research program in beef cattle molecular genetics to supplement the current research team within the Department and on campus. Some beef industry liaison will be required. Applicants should send curriculum vitae, relevant reprints, transcripts, and the names, addresses and telephone numbers of 3 professional references, by June 30, 1994, to: **Dr. B. Laarveld, Department of Animal and Poultry Science, University of Saskatchewan, Saskatoon, Canada S7N 0W0; FAX: 306-966-4151.** Applications are invited from qualified individuals regardless of immigration status in Canada. *The University of Saskatchewan is committed to the principles of Employment Equity.*

### RANCHO SANTA ANA BOTANIC GARDEN EXECUTIVE DIRECTOR

Rancho Santa Ana Botanic Garden, located in Claremont, California, seeks an Executive Director. *Women and members of underrepresented groups are strongly encouraged to apply.* Send résumé to: **Morris & Berger, 201 South Lake Avenue, Suite 700, Pasadena, CA 91101.** Rancho Santa Ana Botanic Garden is an Affirmative Action Employer.

**CHAIR, DEPARTMENT OF BIOLOGICAL SCIENCES.** Starting Date: August 1995. Deadline for applications: September 1, 1994. Ph.D. required. Salary: Commensurate with experience, regionally competitive. Submit letter of application, résumé, official transcripts, three references with addresses and telephone numbers to: **Personnel Office, Southwestern Oklahoma State University, 100 Campus Drive, Weatherford, OK 73096.** SWOSU is an Equal Employment Opportunity/Affirmative Action Employer.

## POSITIONS OPEN

### BOTANIST

The Academy of Natural Sciences of Philadelphia

**ASSISTANT CURATOR OF BOTANY** to start January 1995. The Academy has strong collections in all areas of botany and strong programs in systematics and in general aquatic ecology. Applicants with expertise in cryptogamic botany (particularly freshwater phycology, mycology, and bryology) and aquatic vascular plant systematics are especially encouraged to apply, although all areas of systematic botany will be considered. Requirements: (1) Ph.D. in botany or related discipline; (2) demonstrated research skills in systematics or evolutionary biology of plants; (3) ability to establish, maintain, and obtain grant funding for an independent research program; (4) experience and interest in curation of botanical collections; and (5) willingness to participate in the institution's public programs. Opportunities exist for adjunct appointments at area universities. Send curriculum vitae, statement of research and curatorial interests and goals, and the names, addresses, and telephone numbers of three references to: **Botany Search Committee, The Academy of Natural Sciences of Philadelphia, 1900 Benjamin Franklin Parkway, Philadelphia, PA 19103-1195.** Applications should be received by 15 July 1994.

*The Academy of Natural Sciences is an Equal Opportunity/Affirmative Action Employer.*

### MANAGER REPRODUCTIVE BIOLOGIST/ TOXICOLOGIST

**BIOQUAL, Inc.** is seeking a Ph.D. or M.S. with 5 to 15 years of experience to supervise laboratories conducting *in vivo* endocrine, antifertility and toxicology studies in rodents, rabbits, and monkeys. This R&D effort is funded by the Contraceptive Development Branch, NICHD. Experience with personal computers, biostatistics, and FDA GLP's desirable. Salary commensurate with experience. Full-time, full benefits. Submit curriculum vitae to: **Human Resources Manager, BIOQUAL, Inc., 9600 Medical Center Drive, Rockville, MD 20850.** Equal Opportunity Employer.

### RESEARCH MANAGER—BIOLOGICALS

Kemin Industries, Inc., a leading manufacturer of animal feed ingredients, has an immediate opening in its Research and Development Department for a Research Manager who would oversee research on its digestive enzyme additives and edible antimicrobials. The Research Manager will report directly to the Director of R&D and will have principal responsibility for the invention of enzyme products to increase the digestibility of animal feeds as well as products to protect feeds from molds and bacterial contamination (e.g., *Salmonella*). Major job functions include direction of laboratory personnel, data analysis and interpretation, writing technical reports and peer-reviewed scientific publications, and laboratory research on developing particular enzymatic assays. Ph.D. in biochemistry or microbiology is required. Preference will be shown to those with previous industrial/supervisory experience and will be especially shown to those with an agricultural background. Job offer is conditional on passing a medical examination including a drug screen. *No smoking is allowed on premises.* Kemin Industries is an Equal Opportunity Employer. Please forward your résumé along with the names of three references to: **Dr. Rodney L. Ausich, Director of Research and Development, P.O. Box 70, Des Moines, IA 50301.**

**THE DELLA MARTIN CHAIR IN PSYCHIATRY.** Candidates are sought for the Della Martin Chair in the Department of Psychiatry and Biobehavioral Sciences at UCLA. Interested parties should have established national and/or international reputations for active basic or clinical research on severe psychiatric disorders of adolescence and young adulthood. The endowed professorship provides funds to support the incumbent's research activities. Demonstrated ability to attract extramural funding required. Excellent teaching skills and an ability to mentor junior faculty essential. Past Della Martin Professors have included **Drs. Philip May and Barbara Fish.** Please send curriculum vitae, a statement of research interests, and names and complete addresses of three references to: **Gary L. Tischler, M.D., UCLA School of Medicine, Neuropsychiatric Institute, 760 Westwood Plaza, Los Angeles, CA 90024-1759.** UCLA IS AN AFFIRMATIVE ACTION/EQUAL OPPORTUNITY EMPLOYER.

Research

## Director Mathematical Sciences

The National Research Council (NRC) is seeking a Director for its Board on Mathematical Sciences. Responsibilities include directing a professional staff, conducting a diverse set of studies in the mathematical sciences, and implementing those studies in concert with university, governmental, and industrial sectors.

The position requires a Ph.D. or equivalent in a directly relevant field, 6 or more years relevant professional experience, extensive working familiarity with research in pure and applied mathematics and statistics, experience with administration and/or study project management, and excellent management and communication skills.

Please submit a resume and recent salary history to: **NRC/CPSMA (NM), NAS 285, 2101 Constitution Avenue, NW, Washington, DC 20418** by regular mail; by email to [nmetzger@nas.edu](mailto:nmetzger@nas.edu); or by fax to **(202)334-2154**. No phone calls, please. Applications should be received by May 30, 1994. EOE.



# Protein Chemistry

At Amgen, you'll discover a research environment that emphasizes collaboration, intellectual honesty, scientific integrity, and a supportive culture. This unique approach has helped us grow into a global biotechnology leader in just thirteen years.

The Protein Chemistry Department seeks the following professionals to work on the purification and characterization of natural and recombinant proteins.

## RESEARCH SCIENTISTS

Requires a Ph.D. in Biochemistry, Biophysics, or a related field with 2-5 years' postdoctoral experience in chromatography, biophysics, and electrophoretic techniques. Knowledge of FTIR spectroscopy is desirable for one of the positions. (Job Code: OA-SC-TA-001)

## RESEARCH ASSOCIATES

Requires a BS in Biochemistry or a related field and familiarity with chromatographic and electrophoretic techniques. (Job Code: OA-SC-TA-002)

At Amgen, you'll find our approach to scientific research as rewarding as it is effective. We offer a highly competitive compensation and benefits package that includes a retirement and savings plan, an on-site fitness center, and three weeks' vacation. Please FAX/mail your resume/c.v. to: FAX: (805) 447-1985. Amgen Inc., Staffing, Job Code (see above), Amgen Center, Thousand Oaks, CA 91320-1789. For additional information regarding Amgen's recruitment process, please call (805) 447-4150. Principals only, please. EEO-Affirmative Action Employer M/F/D/V. We recognize that diverse perspectives are a key factor in the process of discovery.



## SANDOZ CHAIR in NEUROSCIENCE THE OHIO STATE UNIVERSITY MEDICAL CENTER

The Neuroscience Program announces the continuation of its search for a senior investigator to assume the Sandoz Chair in the College of Medicine. We seek a highly qualified molecular or cellular neuroscientist (M.D. or Ph.D.) who will serve as an interface between strong basic and clinical neuroscience groups at Ohio State. This position is a fully endowed Chair; the successful candidate can expect to receive substantial space and a very generous start-up and research support package.

Neuroscience has been designated as a Center of Excellence in the Medical Center Strategic Plan. Neurobiotechnology is one of three major thrust areas in the University's Biotechnology Program. Already in place are well funded programs in CNS neoplasia, neurotrauma and spinal cord repair, neuroimmunology, neuromuscular disease, psychiatric disorders, developmental neurobiology, autonomic and enteric neurobiology, and molecular neurobiology. An interdisciplinary Ph.D. Program in Neuroscience, and a Medical Scientist Program (M.D./Ph.D.) provide campus-wide support for graduate education in neurobiology.

The Ohio State University is a comprehensive research University with all of the health science colleges located on the same campus with the Biotechnology Center and Colleges of Biological Sciences, Mathematical and Physical Sciences, and the Social and Behavioral Sciences. Opportunities for collaboration and interaction are extensive and diverse. The city of Columbus is the state capital and a major economic center which provides rich cultural and recreational opportunities to a metropolitan region of more than 1.4 million people.

Nominations are welcomed; applications should include a C.V., statement of research experience and interests and the names of three references, and should be sent to:

**Michael S. Beattie, Ph.D.**  
Sandoz Chair in Neuroscience Search Committee  
Department of Cell Biology, Neurobiology, and Anatomy  
The Ohio State University Medical Center  
333 West 10th Avenue  
Columbus, Ohio 43210

Telephone: (614) 292-1781; e-mail: [beattie.2@osu.edu](mailto:beattie.2@osu.edu)

Review of applications will begin June 15, 1994, and will continue until the position is filled.

The Ohio State University is an Equal Opportunity/Affirmative Action Employer. Qualified women, minorities, Vietnam-era Veterans, disabled veterans and the disabled are encouraged to apply.

## Associate Director Toxicology

Wyeth-Ayerst Research, a Division of Fortune 100 American Home Products Corporation, has an opportunity for an Associate Director, Toxicology, at our Drug Safety and Metabolism facility in Chazy, New York.

Direct the activities of Ph.D. level Toxicologists, assuring that studies are designed appropriately, conducted according to all applicable guidelines and regulations (GLPs, SOPs, and regulatory requirements), interpreted correctly and reported accurately. Studies include acute through chronic/carcinogenicity studies, and a variety of special studies. You will serve on the Protocol Review Committee and the Senior Management Committee for the Drug Safety and Metabolism Department.

Requirements include a Ph.D. in Toxicology or related field with a minimum of 8 years related experience, with at least 5 in an industrial/pharmaceutical environment. Demonstrated skills in management and scientific leadership are a must.

In addition to an excellent compensation and benefits package, we offer a choice location in the scenic Adirondack Mountain/Lake Champlain region of New York State. Please respond by sending your resume with salary requirements to: **Wyeth-Ayerst Research, Human Resources, Position #SCL-TOX, CN 8000, Princeton, NJ 08543-8000**. Equal Opportunity Employer. M/F/D/V.





## POSITIONS OPEN

**JUDSON BRAUN CHAIR IN BIOLOGICAL PSYCHIATRY.** The Department of Psychiatry and Biobehavioral Sciences at UCLA seeks a senior research scientist to fill the Judson Braun Chair in Biological Psychiatry. The endowed professorship supports research related to the causes of mental and emotional illness, with special attention to biological factors. Applicants should possess a record of substantial research, the ability to develop a strong integrative research program, and demonstrated facility for attracting extramural funding. The successful candidate will be expected to play an integrative role between basic and clinical scientists within the Department. Former holder of the Braun Chair was **Dr. Daniel X. Freedman**. Please send curriculum vitae, a statement of research interests, and names and complete addresses of three references to: **Gary L. Tischler, M.D., UCLA School of Medicine, Neuropsychiatric Institute, 760 Westwood Plaza, Los Angeles, CA 90024-1759. UCLA IS AN AFFIRMATIVE ACTION/EQUAL OPPORTUNITY EMPLOYER.**

### FACULTY POSITION

**Materials Department  
University of California, Santa Barbara**

The Department of Materials at the University of California, Santa Barbara, invites applications for a tenure-track faculty position available January 1, 1995, in the area of synthetic polymer chemistry. The Materials Department has a multidisciplinary focus on: macromolecular materials; electronic materials; materials processing; structural materials and inorganic materials. Applicants should have a desire to pursue interdisciplinary research within the framework of the Department and in the context of the Materials Research Laboratory's initiatives. Individuals are encouraged to apply who have interests in such areas as: synthesis of biopolymers; synthesis of electronic and optical polymers; novel polymers for bio-electronics; synthesis of high performance polymers.

Responsibilities include teaching both undergraduate and graduate courses and developing a strong research program. A Ph.D. or an equivalent degree and evidence of excellence in research are required. Assistant or Associate-with-tenure level appointments may be made based on an outstanding record of research. Joint appointments with other Departments at UCSB are also possible.

To ensure full consideration, applications should be received by the Department by June 15, 1994. Candidates should send a résumé containing teaching and research accomplishments and the names (not actual letter) of at least three references to: **Professor David R. Clarke, Chair, Department of Materials, University of California, Santa Barbara, Santa Barbara, CA 93106-5050.**

*An Equal Opportunity/Affirmative Action Employer.*

### FACULTY POSITIONS

**THE DEPARTMENT OF CELL BIOLOGY, UMDNJ SCHOOL OF OSTEOPATHIC MEDICINE** seeks outstanding candidates for tenure-track faculty positions (rank open). Individuals with strong training in Cell Biology, Molecular Biology or Neurosciences are encouraged to apply. Preference will be given to applicants with research background and interests in protein biochemistry, lipid mediators, receptor regulation, signal transduction, and cytokine regulation, but serious consideration will be given to talented and highly motivated applicants working in other areas of cell biology. The successful candidate will be expected to develop an independent, extramurally funded research program and be prepared to participate in a vigorous program for teaching Osteopathic Medical Students. Applicants should submit: curriculum vitae, a statement of future research interests and objectives and three letters of recommendation to: **Patrick Y.-K. Wong, Ph.D., Professor and Chairman, Department of Cell Biology, UMDNJ-School of Osteopathic Medicine, Stratford, NJ 08084. UMDNJ is an Affirmative Action/Equal Opportunity Employer, m/f/d/v, and a member of the University Health System of New Jersey.**

**BIOLOGY—CELL/MOLECULAR.** Full-time, nine-month leave replacement, begin September 1, 1994. Teach introductory majors and non-majors courses, cell, molecular, specialty courses, undergraduate and graduate. Doctorate and teaching experience preferred. Send letter, curriculum vitae, 3 references, to: **Dr. Sidney L. Beck, Department of Biological Sciences, DePaul University, 1036 West Belden, Chicago, IL 60614. DePaul is an Equal Opportunity/Affirmative Action Employer.**

## POSITIONS OPEN

**UNIVERSITY OF PENNSYLVANIA  
Departments of Medicine and Pharmacology**

Faculty are being recruited for a new **CENTER FOR EXPERIMENTAL THERAPEUTICS**. A particular emphasis for initial recruitments is in the area of cardiovascular disease, particularly vascular biology and thrombosis. Research interests of applicants might include the receptor biology and enzymology of systems relevant to cardiovascular disease, arachidonic acid, and related lipid mediators; the role of inflammation in vascular disease and thrombosis; cardiovascular genetics; disorders of lipid metabolism; adhesins; gene therapy in cardiovascular disease; cardiovascular pharmacokinetics and pharmacogenetics and structural biology. Faculty positions are available in the tenure and research tracks at **ASSISTANT, ASSOCIATE or FULL PROFESSORIAL** levels and include start-up funds. Applicants should have postdoctoral research experience and the ability to develop a strong extramurally funded research program. *Women and minorities are especially encouraged to apply.*

Applications, including curriculum vitae, selected reprints, a statement of research interests, and name and address of three references, should be sent to: **Dr. Garret A. FitzGerald, Department of Pharmacology, University of Pennsylvania, Philadelphia, PA 19104-6084. The University of Pennsylvania is an Equal Opportunity/Affirmative Action Employer.**

### Massachusetts Institute of Technology ENVIRONMENTAL CHEMIST

The Department of Civil and Environmental Engineering seeks an environmental chemist for a tenure-track **FACULTY APPOINTMENT** at a junior or senior level in the Ralph M. Parsons Laboratory. The candidate should have a strong background in the inorganic chemistry of natural waters. Specialization in such areas as metal and nutrient cycling, chemical-biotic interactions, ground and soil water chemistry, humic-metal interactions, photochemistry, or surface chemistry is welcome. The candidate should have an interest in multidisciplinary work and in collaborating with other faculty members, both within the Department and the greater M.I.T. community, on problems that involve the interaction of aquatic chemistry with fluid dynamics, hydrology, microbiology, soils remediation, ecology, and human health studies.

The candidate should be capable of developing a strong, sponsored research program, and teaching basic and advanced courses in the area of aquatic chemistry. Responsibilities will also include advising students and supervising thesis research. Applicants should send curriculum vitae, description of teaching and research interests, and a list of references to: **Professor Harold F. Hemond, Faculty Search Committee, 48-419, Massachusetts Institute of Technology, Cambridge, MA 02139. M.I.T. is an Equal Opportunity/Affirmative Action Employer.**

### WOMEN'S NSERC FACULTY AWARD COMPETITION UNIVERSITY OF REGINA

The Department of Biology, University of Regina, welcomes applications from women eligible for sponsorship for a Women's NSERC Award, for the fall 1994 competition. We invite applications in several areas that are complementary to our present strengths. These are: invertebrate animal physiology, animal developmental biology, mycology and virology. Applicants should send a letter of application, curriculum vitae, and research outline, along with the names of three referees, to: **Dr. Diane Secoy, Head, Department of Biology, University of Regina, Regina, SK S4S 0A2. Telephone: (306) 585-4145, FAX: (306) 585-4894. Deadline for receipt of letters of application: 30 June 1994.**

### POSTDOCTORAL POSITION McGill University

Two positions available to study cell and molecular aspects of axonal growth. One position is to study integrin receptor interactions with the growth cone cytoskeleton. Another position is the characterization of a novel axon growth inhibitory molecule. Experience in cell culture, molecular biology, or protein chemistry is required. Please send curriculum vitae and names of three references to: **Dr. L. McKerracher, Centre for Research in Neuroscience, Montreal General Hospital, Room L7-136, 1650 Cedar Avenue, Montreal, Quebec, Canada H3G 1A4.**

## POSITIONS OPEN

**FACULTY POSITIONS  
Department of Physiology and Biophysics  
University of Mississippi Medical Center**

Applications are invited for tenure-track positions in the Department of Physiology and Biophysics. Candidates must have a Ph.D. or an M.D. and postdoctoral training and are expected to maintain an independent research program with a strong commitment to teaching. Special consideration will be given to candidates with a background in molecular and/or cellular physiology, regulation of extracellular matrix, or an interest in renal tubular transport or vascular smooth muscle mechanisms. Faculty rank and salary will be commensurate with credentials. Interested applicants should send curriculum vitae, an indication of past and current research funding, a statement of research interests and the names of at least 3 references to: **Dr. John Hall, Department of Physiology and Biophysics, University of Mississippi Medical Center, Jackson, MS 39216. Equal Opportunity Employer/M/F/D/V.**

### JUNIOR FACULTY TENURE-TRACK POSITION

Those with experience in molecular approaches applied to Gerontology including but not limited to Alzheimer's Disease and Neurobiology should send curriculum vitae and references to: **Caleb E. Finch, Ph.D., Chair, Search Committee, University of Southern California, Ethel Percy Andrus Gerontology Center, 3715 McClintock Avenue, Los Angeles, CA 90089-0191. If you have any questions please contact Amy Weinstein at (213) 740-1757.**

### INSTRUCTOR—BIOTECHNOLOGY

Anticipated vacancy for fall 1994. Madison Area Technical College, Madison, Wisconsin. Qualifications: Bachelor's in Biotechnology-related field; 4000 hours of related work experience. Closing date: June 3, 1994. For application information call (608) 246-6900. *Equal Opportunity Employer.*

**POSTDOCTORAL POSITION** for a two-year period available immediately for an oligonucleotide chemist with interest in membrane transport and understanding in various endocytic processes. Experience in methylphosphonate/PNA chemistry is desirable. Willingness to collaborate with cell biologists is essential. Send curriculum vitae and names of three references to: **Dr. M. J. Cho, School of Pharmacy, Beard Hall, CB# 7360, University of North Carolina at Chapel Hill, Chapel Hill, NC 27599-7360. FAX: (919) 966-7778. E-mail: M-J-Cho@UNC.EDU. An Affirmative Action/Equal Opportunity Employer.**

**POSTDOCTORAL POSITIONS** available immediately to study alterations in embryonic gene expression following *in utero* exposure to teratogenic agents. Strong background in molecular biology is required for collaborative study with Prof. Heinz Nau of the Free University, Berlin, Germany. Send curriculum vitae, names and telephone numbers of 3 references to: **Dr. Richard Finnell, College of Veterinary Medicine, Texas A&M University, College Station, TX 77843. 409-847-8652 (telephone); 409-847-8675 (FAX).**

**POSTDOCTORAL POSITION** available to study neural regeneration, axonal cytoskeleton and axonal transport. New Ph.D. in Neuroscience, Molecular Biology, Biochemistry. Experience in subcloning, expression vectors, RNA/DNA techniques, transfections, histology, SDS-PAGE, microsurgery. Send résumé, thesis abstract, statement of career goals, salary requirements, references to: **Dr. I. McQuarrie, Department of Neuroscience, Case Western Reserve University, 2074 Abington Road, Cleveland, OH 44106.**

**POSTDOCTORAL POSITIONS** are available in the area of membrane protein overexpression, purification, and tertiary structural characterization by means of solution/solid state NMR and by genetic site-directed cross-linking approaches. While the ideal candidates should have strength in molecular biology, all brave inquirers with experience in any of the above areas will be considered. Send curriculum vitae and names of 3 references to: **Dr. Charles Sanders, Department of Physiology and Biophysics, Case Western Reserve University, 10900 Euclid Avenue, Cleveland, OH 44106-4970. CWRU is an Equal Opportunity/Affirmative Action Employer.**

## Research Scientist Drug Safety Pharmacology

The Upjohn Company, a recognized leader in pharmaceutical research and development, is seeking a qualified candidate for our Drug Safety Pharmacology unit.

Primary responsibilities include designing, implementing, analyzing and communicating animal studies as part of the overall preclinical drug development process. The incumbent is expected to function effectively as a team member with discovery, preclinical and clinical scientific staff personnel; strong interpersonal skills are required.

The successful candidate will have a Ph.D. degree in pharmacology plus three years experience in the interpretation of pharmacology data, experimental design and execution of pharmacology studies.

Upjohn offers a stimulating, multi-disciplinary research environment at our headquarters in Kalamazoo (a southwestern Michigan community located midway between Detroit and Chicago). An excellent salary and benefits package is provided. For confidential consideration please submit your resume to **The Upjohn Company, Corporate Recruiting, Ad #208, 7000 Portage Road, Kalamazoo, Michigan 49001**. We are an Equal Opportunity Employer with a commitment to workplace diversity.

**Upjohn**

Advancing Science...  
Enhancing Life

### SUPEROXIDE DISMUTASE AND FREE RADICALS IN ALS AND NEURODEGENERATION

September 9-11, 1994

Harrison Conference Center - Lake Bluff, Illinois

This meeting was initiated because of the identification of mutations in the Cu, Zn superoxide dismutase gene (SOD-1) in patients with familial amyotrophic lateral sclerosis (FALS). The conference will focus on the role of SOD and free radicals in the central nervous system and in the pathogenesis of familial and sporadic ALS. The topics covered will include the structure and biochemistry of SOD, SOD mutations, SOD transgenic mice, the relationship of SOD to excitatory neurotoxins, SOD in neurodegeneration, and therapeutic approaches in ALS.

#### Organizers:

Raymond P. Roos, M.D., *University of Chicago*  
Teepu Siddique, M.D., *Northwestern University*  
John A. Tainer, Ph.D., *The Scripps Research Institute*

M. Aoki (Sendai, Japan)	N.G. Laing (W. Australia)
J. Beckman (Birmingham, AL)	S. Marklund (Umea, Sweden)
R.H. Brown (Boston, MA)	J. McCord (Denver, CO)
C.J. Epstein (San Francisco, CA)	M. Pericak-Vance (Durham, NC)
D. Figlewicz (Rochester, NY)	J.P. Phillips (Guelph, ONT)
I. Fridovich (Durham, NC)	D.L. Price (Baltimore, MD)
E. D. Getzoff (LaJolla, CA)	J.D. Rothstein (Baltimore, MD)
Y. Groner (Rehovot, Israel)	N. Taniguchi (Osaka, Japan)
M. Gurney (Chicago, IL)	S. Tsuji (Niigata, Japan)
R.A. Halliwell (London, UK)	H. Utsumi (Fukuoka, Japan)
E.J. Kasarkis (Lexington, KY)	J. Valentine (Los Angeles, CA)
S.J. Korsmeyer (St. Louis, MO)	R.H. Weiss (St. Louis, MO)

#### For further information contact:

The University of Chicago, Center for CME  
6019 South Kimbark, Box 129, Chicago, IL 60637  
tel: 312-702-1056, fax: 312-702-1736

National Cancer Institute • National Institutes of Health  
Public Health Service

## Cancer Prevention Fellowship Program

The Division of Cancer Prevention and Control (DCPC), NCI, is accepting applications for the Cancer Prevention Fellowship Program (CPFP). The purpose of this program is to train individuals from a multiplicity of health science disciplines in the field of cancer prevention and control. The program provides for: Master of Public Health training (at accredited university programs); Participation in the DCPC Cancer Prevention and Control Academic Summer Course (open to all physicians and scientists interested in learning the principles and practice of cancer prevention and control); Working at DCPC directly with individual preceptors on cancer prevention and control projects; Brief field assignments in cancer prevention and control programs at other institutions. Funding permitting, as many as ten Fellows will be accepted for up to three years of training, beginning July 1, 1995. Benefits include selected relocation and travel expenses, paid federal holidays, and participatory health insurance.

### Eligibility

M.D., D.D.S., or D.O. from a U.S., territorial, or Canadian Medical School. Foreign medical graduates must have current ECFMG/FMGEMS or USMLE certification and appropriate experience, e.g., one year residency in a training program approved by the Accreditation Council for Graduate Medical Education.

Or

Ph.D., Dr.P.H. or other doctoral degree in a related discipline (epidemiology, biostatistics, and the biomedical, nutritional, public health or behavioral sciences). Foreign education must be comparable to that received in accredited U.S., territorial, or Canadian institutions.

### Plus

U.S. citizenship or resident alien eligible for citizenship within four years.

For details and an application catalog either call, fax or send a postcard or letter with your name and home address to:

**Douglas L. Weed, M.D., M.P.H., Ph.D.**  
**Director**

**Cancer Prevention Fellowship Program**  
**Division of Cancer Prevention and Control**

**National Cancer Institute**  
**Executive Plaza South, T-41**  
**Bethesda, MD 20892**

**Further Inquiries: Mrs. Barbara Redding**  
**TELEPHONE(301) 496-8640**  
**FAX(301) 402-4863**

**Deadline for receipt of applications:**  
**September 1, 1994**



NIH is an Equal Opportunity Employer



## POSITIONS OPEN

**TWO POSTDOCTORAL POSITIONS** available immediately—one to study structure-function relationships in blood coagulation factors IX and VII and the second to study tissue factor pathway inhibitor gene regulation. Applicants should have strong background in protein chemistry and/or molecular biology. *Since one of these positions may be supported by an NIH training grant, U.S. citizenship or permanent resident visa is required for that position.* Submit curriculum vitae, a brief summary of prior research and three references to: **S. Paul Bajaj, Ph.D., Saint Louis University Health Sciences Center, 3635 Vista Avenue, St. Louis, MO 63110. FAX: (314) 773-1167. St. Louis University is an Equal Opportunity Employer.**

### POSTDOCTORAL POSITION CANCER MOLECULAR IMMUNOLOGY

Position is available for a postdoctoral fellow interested in cytotoxic T cell responses to mutant oncogene products in tumors and acquired molecular mechanisms of escape from this response. We have an active program studying both animal and human systems, as well as a human therapeutic trial involving vaccination of cancer patients with peptides corresponding to mutant epitopes in their tumor's oncogene products. A background in molecular or cellular immunology is preferred. Please send curriculum vitae, a letter describing your research experience, and names of three references to: **David Carbone, M.D., Ph.D., Simmons Cancer Center, University of Texas Southwestern Medical Center, 5323 Harry Hines Boulevard, Dallas, TX 75235-8593. Equal Opportunity/Affirmative Action Employer.**

### POSTDOCTORAL POSITION

Available immediately to study antimicrobial mechanisms of exocrine proteins. Experience in protein chemistry and molecular biology required. Send curriculum vitae and three references to: **Dr. Frank Oppenheim, Boston University Medical Campus, 100 East Newton Street, Room G-217B, Boston, MA 02118. Affirmative Action/Equal Opportunity Employer.**

**POSTDOCTORAL POSITIONS** available immediately to study the molecular mechanisms that inhibit the terminally differentiated cardiac muscle cell from re-entering the cell cycle and dividing. Studies involve regulation of the cell cycle and tumor suppressor genes. Experience in cellular and molecular biology preferred. Send curriculum vitae and 3 letters of reference to: **William C. Claycomb, Ph.D., Department of Biochemistry and Molecular Biology, LSU Medical Center, 1901 Perdido Street, New Orleans, LA 70112; Telephone: (504) 568-4737, FAX: (504) 568-7649. LSU Medical Center is an Equal Opportunity/Affirmative Action Employer.**

### ASSOCIATE

Applications are invited for a **POSTDOCTORAL POSITION** as an Associate to work in the laboratory of **Dr. Merchant**, whose current research involves studies of Transcriptional mechanisms of growth in the gastrointestinal tract.

Qualified candidates should possess either an M.D. or Ph.D., or both, in molecular biology or biochemistry. Proficiency in subcloning, DNA-protein interactions, e.g., gel shift assays, footprinting, methylation interference, and cell transfections is required.

Please forward curriculum vitae and three letters of recommendation to: **Dr. Merchant, University of Michigan, MSRB II Room 4544, Department 817, 1150 West Medical Center Drive, Ann Arbor, MI 48109-0650. An Equal Opportunity Employer.**

### POSTDOCTORAL POSITION BROWN UNIVERSITY DIVISION OF BIOLOGY AND MEDICINE

Position available for individual interested in areas of protein structure-function, gene structure and regulation, protein-nucleic acid interactions, or molecular mechanisms of recombination. Previous experience with (or desire to learn) protein chemistry, nucleic acid biochemistry, DNA cloning, genetics or *in vitro* systems.

Please send résumé with desired starting date and list of three references to: **Arthur Landy, Brown University, Box G-J360, Providence, RI 02912.**

*Brown University is an Equal Opportunity/Affirmative Action Employer.*

## POSITIONS OPEN

**POSTDOCTORAL POSITION** in molecular genetics of autoimmune diseases is available for an individual with a strong background in molecular biology or molecular genetics, interested in participating in a research program aimed at understanding the genetic basis of complex neuroimmune disorders such as multiple sclerosis. Experience with genetic linkage mapping, YACS and cosmids is preferred. Please forward curriculum vitae, brief statement of research experience and names and telephone numbers of three references to: **Dr. J. R. Oksenberg, Department of Neurology, University of California San Francisco, 505 Parnassus Avenue, San Francisco, CA 94143-0114. FAX: (415) 476-3428. E-mail: oksen@itsa.ucsf.edu.**

**POSTDOCTORAL POSITION.** Division of Trauma, Department of Surgery, invites applications for a research fellowship in cellular and molecular immunology. Ph.D. and/or M.D. degree required. A postdoctoral position is immediately available to study the pathogenesis of trauma and age-induced immune suppression and effects on inflammation and sepsis. Experience in basic cellular and molecular biological techniques, and animal models is desired, with specific training in cytokines, ELISA's, recombinant DNA, Polymerase Chain Reaction, *in situ* hybridization, protein electrophoresis, cell culture, and/or flow cytometry. Send curriculum vitae and names and addresses of three references to: **Dr. Charles W. Hewitt, Surgical Research, UMDNJ/Robert Wood Johnson Medical School, Cooper Hospital/University Medical Center, Three Cooper Plaza, Suite 411, Camden, NJ 08103. Equal Opportunity Employer.**

**POSTGRADUATE RESEARCHERS** at the Center for Coastal Studies, Scripps Institution of Oceanography (CCS/SIO).

Applications are invited for postdoctoral positions from new or recent Ph.D.'s in the following areas of research conducted at CCS: nearshore hydrodynamics, sediment transport and fluid-sediment interactions, physical oceanography of coastal and marginal seas, estuarine hydrodynamics, and coastal meteorology. An interest exists to develop modeling capabilities in these areas, but successful applicants will be given considerable flexibility in working out their research objectives. Awards are for a two-year period with salary commensurate with experience and based on UC salary scales, plus benefits. A small budget for travel and publications will be available. Renewals for a third year, depending upon performance, are possible. Letters of application should include complete graduate transcripts, curriculum vitae, addresses and telephone numbers of at least three (3) references, and a concise synopsis of the applicant's (a) doctoral research and (b) research interests to be pursued at CCS/SIO. All application materials must be received by June 15, 1994. Awards will be announced in August 1994. A letter of application and questions about this advertisement should be mailed to: **Director, Center for Coastal Studies-S, Mellon Post-Doc Committee, 0209 La Jolla, CA 92093-0209.**

*The University of California, San Diego, is an Equal Opportunity/Affirmative Action Employer.*

**POSTDOCTORAL SCHOLAR** positions available to conduct basic research on gene regulation involving the following areas: cholinergic specific gene transcription, neuropeptidase gene expression (**L. Hersh**) or steroid hormone gene expression (**D. Noonan**). Applicant should have a Ph.D. with experience in molecular biology. Send curriculum vitae and letters of recommendation to: **Dr. Louis Hersh or Dr. Daniel Noonan, Department of Biochemistry, MS607 Medical Center, University of Kentucky, Lexington, KY 40536-0084. An Equal Opportunity/Affirmative Action Employer.**

**POSTDOCTORAL POSITION** available immediately to assist in characterization of a family of recently cloned melatonin receptor subtypes. Prior experience in molecular biology or cell culture work required; experience in neurobiology, signal transduction and/or chimeric receptors preferred. Submit curriculum vitae, a description of research experience, and names, addresses, and telephone numbers of three references to: **Steven M. Reppert, M.D., GRJ 1226, Massachusetts General Hospital, Boston, MA 02114; FAX: (617) 726-1694.**

## POSITIONS OPEN

**POSTDOCTORAL POSITION** available immediately to join an NSF-funded project to study lysosomal proteinase and endocytic packaging mechanisms. Skills required include cell culture, protein chemistry, peptide chemistry and enzymology. Experience in one or more of these areas would be an advantage. This position will have technical support and is in a multidisciplinary research group exploring the function of lysosomal proteins. Send applications to: **Dr. Robert W. Mason, Associate Research Scientist, Department of Medical Cell Biology, Nemours Research Programs, P.O. Box 269 Wilmington, DE 19899, or FAX to (302) 651-6888. An Equal Opportunity Employer.**

### POSTDOCTORAL POSITION Department of Molecular/Cancer Biology

A postdoctoral position is available to study signal transduction mediated by formation of native Ras/Raf complexes in mammalian cells including activation of Raf-1. Candidates should have a strong background in signal transduction. Experience in molecular biological techniques and/or protein purification is preferred. Please mail or FAX curriculum vitae, summary of research experience and 2 to 3 letters of reference indicating position number **BF594B** to: **Human Resources, Cell Therapeutics, Inc., 201 Elliott Avenue West, S400, Seattle, WA 98119. FAX: 206-284-6206. An Equal Opportunity Employer.**

### POSTDOCTORAL POSITION

To study the regulation of UV-inducible genes in normal and transformed melanocytes. A strong background in molecular biology with experience in protein phosphorylation is required. Send curriculum vitae, and three references to: **Ze'ev Ronai, Ph.D., Molecular Carcinogenesis Program, American Health Foundation, 1 Dana Road, Valhalla, NY 10595. Equal Opportunity Employer.**

**POSTDOCTORAL POSITION** available immediately to study the physiology of *Listeria monocytogenes*, with emphasis on carbohydrate transport and metabolism, bioenergetics, and membrane biology. Experience in microbial physiology and molecular biology is essential. Applicants should send curriculum vitae and the names of 3 references postmarked by July 1, 1994, (or until a suitable candidate is found thereafter) to: **Dr. Robert Hutkins, Department of Food Science and Technology, University of Nebraska-Lincoln, Lincoln, NE 68583-0919. UNL is committed to a pluralistic campus community through Affirmative Action and Equal Opportunity and assures reasonable accommodation under the Americans With Disabilities Act. Contact Dr. Hutkins for information.**

**POSTDOCTORAL TRAINING IN CLINICAL CHEMISTRY.** One position available on July 1, 1995, for basic scientist or physician interested in career as laboratory director in academic Laboratory Medicine. Our two-year program provides practical experience in clinical chemistry laboratories and extends relevant basic scientific knowledge. Deadline: 1 October 1994. WRITE TO: **Margaret A. Kenny, Ph.D., Co-Director, Chemistry Postdoctoral Program, Department of Laboratory Medicine SB-10, University of Washington, Seattle, WA 98195. The University of Washington is an Equal Opportunity/Affirmative Action Employer.**

**POSTDOCTORAL POSITION** available July 1, 1994, investigating signal transduction mediated by SH2 domain tyrosine phosphatases. Ph.D. applicants should have a background in signal transduction and experience in molecular and cellular biology. Please send curriculum vitae and names of 2 references to: **Dr. Steven Reeves, Massachusetts General Hospital, Molecular Neuro-oncology Laboratory, Charlestown, MA 02129. Equal Opportunity/Affirmative Action Employer.**

**POSTDOCTORAL FELLOWSHIPS,** molecular genetics and expression of human genes related to lysosomal and skeletal disorders. Studies include site-directed mutagenesis, developmental gene expression of lysosomal and collagen/extracellular matrix genes. Strong background in gene transfer, molecular biologic techniques, protein biochemistry and/or bone cell biology. Send curriculum vitae and three references to: **Gregory A. Grabowski, M.D., Director, Division of Human Genetics, Children's Hospital Research Foundation, 3333 Burnet Avenue, Cincinnati, OH 45229.**

## INDUSTRIAL BIOTECHNOLOGY R&D PERSONNEL

Energy BioSystems is a well-funded, industrial biotechnology corporation specializing in the application of biotechnical systems to the chemical and energy industries. The company is expanding its R&D laboratories in the northern Houston suburb of The Woodlands, and has opportunities in the following areas:

### SR. RESEARCH SCIENTIST - FERMENTATION MICROBIOLOGIST

Experienced fermentation microbiologist for development and scale-up of bacterial enzyme fermentations. Will lead a team of 4-6 Ph.D. and BS Microbiologists in the testing of prototype production bacteria and the development of improved strains and fermentations. Will be responsible for the development of in-house fermentation capacity (small scale experimental fermentation and recovery equipment) and the transfer of the technology to production.

#### Required Qualifications

1. Experience with:
  - Classical strain improvement methods.
  - Lab Scale fermentation techniques.
  - Scale-up of fermentation to commercial levels.
  - Media optimization programs.
  - Computer aided experimental design.
  - Concepts and application of rDNA technology.
  - Culture screening methods.
2. Ph.D. in microbial physiology/microbiology.
3. 5-10 years experience.
4. Supervisory experience.
5. Must be willing to travel.

### RESEARCH SCIENTIST - MICROBIOLOGIST

This person will spear head an interdisciplinary research and development effort to develop a program for the desulfurization of specific refinery streams. Needs to be able to develop an independent research program, formulate an in-depth research and experimental plan and execute it. One direct report initially with part-time assignments from process research, analytical chemistry, microbiology and molecular biology.

#### Required Qualifications

1. Ph.D. with 2-5 years of experience or no Ph.D. with extensive, current experience.
2. Background in microbiology and strain isolation, scale up and process development.
3. Familiar with molecular genetics and classical routes of strain improvement.
4. Project management skills.
5. Must be able to use excellent communication skills in a multidisciplinary team effort.

Salaries commensurate with experience. Excellent company benefits. Energy BioSystems is an equal opportunity employer. Please send resume along with a cover letter identifying which position you are applying for, to:

**Manager, Human Resources**  
Energy BioSystems Corporation  
4200 Research Forest Drive  
The Woodlands, TX 77381

*No Phone Calls/No Recruiters*



National Institutes of Health  
National Institute of Child Health and Human Development  
Division of Intramural Research

## Chief

### Developmental Endocrinology Branch

The National Institute of Child Health and Human Development is recruiting for the key position of Chief of the Developmental Endocrinology Branch, Division of Intramural Research. Applicants must have an M.D. or equivalent degree and experience in research in the fields of clinical, cellular, and molecular endocrinology.

The Chief, Developmental Endocrinology Branch, will have the major responsibility for administering a program in clinical and basic research. Specifically, the incumbent 1) conducts research in the area of his/her choice (within the broad framework of endocrine research and 2) administers eight independent research groups focused on developmental endocrinology, medical and pediatric endocrinology, endocrine physiology, gynecologic research, reproductive biology, endocrine growth factors, and glycobiology.

Applicants must have an established record of excellence in the field of endocrine research and must specifically provide evidence of their capacity to meet the following criteria:

- 1) **Ability to supervise and coordinate a large and highly specialized clinical and laboratory program for the investigation of human endocrine disorders;**
- 2) **Knowledge of advanced aspects of cellular and molecular endocrinology, as well as clinical research;**
- 3) **Ability to conduct a personal research program of high impact.**

The base salary ranges up to \$91,029, depending on qualifications. Applicants will also be eligible for a physician's allowance up to \$20,000 as well as other bonuses and awards (with a current maximum of \$148,400).

**Please submit curriculum vitae and bibliography by June 30, 1994 to:**

**Dr. Kevin Catt**  
**Search Committee Chair**  
**National Institutes of Health**  
**Building 49, Room 6A36**  
**9000 Rockville Pike**  
**Bethesda, MD 20892**



Under the Affirmative Employment Program, minorities, women and persons with disabilities that meet the eligibility criteria are especially encouraged to apply.

NIH is an Equal Opportunity Employer

## POSTDOCTORAL ASSOCIATE POSITIONS THE UNIVERSITY OF IOWA

Please contact the appropriate department to express your specific interest:

**ANATOMY:** Dr. J. P. Long, Interim Head, Bowen Science Building.

**ANESTHESIA:** John H. Tinker, M.D., Professor and Head.

**BIOCHEMISTRY:** Alan G. Goodridge, Professor and Head, Bowen Science Building.

**DERMATOLOGY:** John S. Strauss, M.D., Professor and Head; or Kenzo Sato, M.D., Professor; 2 Boyd Tower, General Hospital. A postdoctoral research associate for the study of electrophysiology of cultured cells.

**INTERNAL MEDICINE:** Openings available in all disciplines in the Internal Medicine Department, College of Medicine, The University of Iowa. Contact Francois M. Abboud, M.D., Professor and Head; or Personnel Department of Internal Medicine, SE322 GH, Phone 319/356-4380.

**MICROBIOLOGY:** Dr. Michael Apicella, Professor and Head, Bowen Science Building.

**PATHOLOGY:** Kent Bottles, M.D., Professor and Interim Head, 144 Medical Laboratories. Research activity in all areas of pathology.

**PEDIATRICS:** Dr. Frank H. Morriss, M.D., Professor and Head.

**PHARMACOLOGY:** Dr. P. Michael Conn, Chairman and Head, Bowen Science Building. Openings in all areas of pharmacology and toxicology.

**PHYSIOLOGY & BIOPHYSICS:** Robert E. Fellows, M.D., Ph.D., Professor and Head, Bowen Science Building.

A Ph.D. or equivalent is required. Desirable qualifications are based on Project Investigator's interest for research. Women and minorities are encouraged to apply. The University of Iowa, College of Medicine, Iowa City, Iowa, 52242, is an Equal Opportunity / Affirmative Action Employer.

## Faculty Position Gene Transfer-Immunotherapy University of Miami School of Medicine

The Department of Microbiology and Immunology and the Sylvester Comprehensive Cancer Center invite applications for two tenure track faculty positions, one **Assistant Professor** and/or **Associate Professor** level. Candidates are expected to develop a strong program in basic research in gene transfers, virology, apoptosis, gene regulation, gene therapy or related areas applicable to our cancer programs. We offer integration into a stimulating, research oriented faculty in immunology and microbiology and participation in an existing funded gene therapy program conducted together with the Division of Oncology under the umbrella of the Sylvester Comprehensive Cancer Center. All applicants who wish to be considered for the position at the level of **Associate Professor** should have an established, funded research program.

Interested applicants should send a current Curriculum Vitae, a statement describing research achievements and future research goals, and names and addresses of three references to:

**Eckhard R. Podack, M.D., Ph.D.**  
Chairman

Search Committee

Department of Microbiology and Immunology  
University of Miami School of Medicine  
P.O. Box 016960 (R-138)  
Miami, FL 33101

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

## RESEARCH SPECIALIST (Pollen Cryopreservation)

ICI Seeds is continuing to expand its breeding and biotechnology center located in Slater, Iowa. A vacancy has opened in the area of Applied Plant Physiology to join a team developing techniques to identify and manipulate agronomically important genes in maize. The successful candidate will be expected to assist in the development and eventual management of a long term storage system for maize pollen. Preference will be given to those applicants with a strong background in plant biology, botany, plant breeding, agronomy or plant physiology. The successful candidate will be expected to work both individually, and as part of a multidisciplinary research team.

**Qualifications:** BS/MS degree preferably in Biology, Plant Physiology, Agronomy or Plant Breeding.

**Salary:** This is a full-time salaried position with full company benefits. Compensation will be commensurate with experience and qualifications. Interested applicants should send a complete resume to: **Dr. John A. Greaves, ICI Seeds, Research Department, 2369 330th Street, Slater, Iowa. E.O.E.**



**Seeds**

## Scientist

Somatogen, a biopharmaceutical company currently engaged in clinical trials of a recombinant human hemoglobin, has an exciting opportunity available in our Process Sciences Group.

This is a technically challenging, senior leadership position reporting to the Director of Process Sciences. Responsibilities will include management of *E. Coli* strain development program to enhance expression of recombinant hemoglobin using state-of-the-art Genetic and Biochemical approaches. Requires a Ph.D. in Microbiology, Biochemistry, Genetics, Molecular Biology, Microbial Physiology or a related field plus a minimum of 5 years of relevant post-degree industrial experience, or academic experience beyond post-doctoral studies.

A competitive salary, relocation and benefits package complement this offer. Interested candidates should submit their resume to:

**SOMATOGEN**

Dept. 709

2545 Central Avenue  
Boulder, CO 80301

*Somatogen is an equal opportunity employer*

**SOMATOGEN**

## New York University DENTAL SCIENTIST ORAL MEDICINE & PATHOLOGY

New York University College of Dentistry is inviting applications for a full-time tenure track position in the Division of Basic Sciences. Applicants should possess a dental degree and a doctorate in basic science as well as postdoctoral research training using molecular techniques and advanced training in either oral medicine and/or general/oral pathology. The candidate chosen will be expected to develop an active, externally funded, dentally relevant research program as well as participate in the teaching of oral medicine and/or pathology.

Academic rank and salary will be commensurate with credentials and experience. Please send curriculum vitae and letter of interest to: **Barry R. Rifkin, D.D.S., Ph.D., Head, Division of Basic Sciences, New York University College of Dentistry, David B. Kriser Dental Center, 345 East 24th Street, 8th Floor, New York, NY 10010.**

NYU encourages applications from women and members of minority groups.



**Postdoctoral Position  
Stanford Biochemistry Department**

The Department of Biochemistry is seeking a Postdoctoral Fellow to investigate the use of oligonucleotide arrays and sequencing by hybridization to increase the accuracy of conventional linear sequencing. The project will be carried out as a collaboration between Affymetrics and the Stanford DNA Sequencing and Technology Center. The primary work environment will be at Stanford University with Dr. Ronald W. Davis, although the project will also involve close interaction with the scientists and engineers at Affymetrics.

The Center consists of an interdisciplinary team of 25 scientists and engineers committed to improving efficiency of sequencing and sequence analysis. Presently the group is focusing on finishing the sequence of yeast chromosome V and initiating the sequence of chromosome IV.

Qualifications include: The ideal candidate will have a wide ranging interest in biochemistry and the development of technology, and experience in the biochemistry or physical chemistry of nucleic acids. Must work effectively as a team member and enjoy interaction with a diverse group of dedicated scientists and engineers. Must comply with government regulations and university policies and procedures regarding health and safety procedures. Send curriculum vitae and references to: **Ronald W. Davis, Ph.D., Stanford Center for DNA Sequence and Technology, Department of Biochemistry, 855 California Avenue, Room 173, Palo Alto, CA 94304.**

## Science At Synergen

Synergen, Inc., a research based biopharmaceutical company focused on the discovery, development, and production of protein-based human pharmaceuticals for the treatment of serious human diseases, seeks the following professionals:

### Postdoctoral Fellow - Pharmacology

You will develop new gene-therapy related methodologies, using whole animal systems, for the use of neurotrophic factors in the treatment of neurodegenerative diseases. Requirements include a Ph.D. in neuroscience, experience with rodent neurosurgical techniques, brain neurochemical analysis, including the catecholamines, and behavioral testing.

### Scientist or Postdoctoral Fellow - Toxicology

You will investigate the actions of therapeutic cytokine inhibitors on innate and acquired immune function in lab animals and humans. Requirements include a Ph.D. in pharmacology, toxicology, and/or immunology, with experience in immune function assays in rodents, host resistance models, and cytokine biology. Experience with cell culture, drug development and neurobehavioral toxicology a plus.

### Scientist - Biochemistry

You will develop, or participate in, a variety of projects that will further our drug development efforts. Requirements include a Ph.D. in Biochemistry, and 2-3 years postdoctoral experience in the isolation of native proteins, and in the purifications of recombinant proteins. Tissue culture experience is helpful.

Synergen offers a competitive compensation package, generous benefits, and an open, non-traditional workplace. Please send your resume to: **Human Resources Dept., Box DM, Synergen, Inc., 1885 33rd Street, Boulder, CO 80301.** We are an Equal Opportunity Employer.



## ECOLOGIST LANDSCAPE ECOLOGIST WATERSHED MODELER

**ManTech Environmental Technology, Inc.** is recruiting three senior-level scientists, **Ecologist, Landscape Ecologist and Watershed Modeler**, to join an interdisciplinary team which will provide technical and scientific support to the multi-agency Pacific Northwest Ecosystem Management Research Program. This Program will develop and demonstrate ecological risk assessment approaches and methods in watersheds and ecoregions of the Pacific Northwest to generate the information and tools needed for the management of long-term sustainable use of the region's natural resources.

Using a holistic landscape approach and considering complex ecosystem interactions, uses and stressors, the team will develop: watershed and ecoregion-scale models; methods to characterize regional aquatic biological and environmental diversity; a synoptic approach for assessing ecological conditions at watershed and ecoregion scales; landscape classification systems for watershed and ecoregion applications; decision support systems.

Minimum qualifications include: Ph.D. degree or equivalent experience in ecology, environmental statistics or closely aligned discipline; 2-5 years' applied ecological research experience at watershed, landscape and/or regional scales. The **Ecologist** position also requires 2 years' experience in project leadership.

Interested individuals should contact the Human Resources Department for a more detailed job description, qualification statement and application procedures. Initial review of applications will begin May 18, 1994 and the positions will remain open until June 10, 1994.



**MANTECH  
TECHNOLOGY**

ManTech Environmental  
Technology, Inc.  
Human Resources Department  
1600 SW Western Boulevard  
Corvallis, OR 97333  
(503) 753-6221 Ext. 311  
An Equal Opportunity Employer



## PRINCIPAL & VICE-CHANCELLOR

The Principal of UMIST, Professor H C A Hankins, FEng, will retire in August 1995. UMIST is seeking to appoint as his successor an individual of outstanding calibre who will provide strategic leadership in developing UMIST's existing reputation and taking it forward into the next century.

UMIST is one of the UK's major research-based universities specialising in engineering, science, technology, management and related disciplines. It has well developed links with industry and commerce both for research and continuing education and is a major provider of qualified graduates for industry and commerce at the Bachelor, Master and Doctoral levels. UMIST has a strong international reputation and a long-standing tradition of attracting high quality students from the UK and from a wide variety of overseas countries.

Men and women interested in being considered for the post or who wish to suggest names for consideration are invited to write in confidence, by no later than 27th May 1994, to Mr J B Heron, Chairman of Council, c/o the Secretary and Registrar, UMIST, PO Box 88, Manchester M60 1QD. Please quote reference VC/58/S.

Further information may be obtained from the Secretary and Registrar, Mr P C C Stephenson, telephone: 061 200 3990, fax: 061 200 4008.



## PROGRAM LEADER DEVELOPMENTAL THERAPEUTICS

The H. Lee Moffitt Cancer Center & Research Institute and the University of South Florida College of Medicine are seeking applicants at the Associate or Full Professor level to lead a Cancer Center Program in Developmental Therapeutics.

The individual sought should hold a Ph.D. or M.D. in a discipline related to the broad field of developmental therapeutics and have demonstrated scientific productivity and the ability to lead a group of investigators with diverse scientific backgrounds. The position may be tenured or tenure-earning, depending on the applicant's background. Academic appointments will be in the appropriate department.

The applicant will be asked to bring together existing programs in biologic therapy, pharmacokinetics, radiobiology and phase I-II clinical trials with new expertise in pharmacology, molecular biology and gene or growth factor therapy. Laboratories, faculty lines, a phase I clinical unit and a largely competitive salary and start-up package are available.

Send current curriculum vitae, the names, addresses and telephone numbers of three references to Warren J. Pledger, Ph.D., Associate Director for Basic Research, or Ken Zuckerman, M.D. Office of Faculty Recruitment, Moffitt Cancer Center, 12902 Magnolia Drive, Tampa, Florida 33612. Applicants who need a reasonable accommodation in order to participate in the selection process must notify Jody Swanson in the Office of Faculty Recruitment, (813) 975-7894, forty-eight hours in advance. Applications must be postmarked by deadline of June 16, 1994.

The H. Lee Moffitt Cancer Center & Research Institute is a rapidly growing research facility, adjacent to the Health Sciences Center on the University of South Florida campus in Tampa. The Center includes a 162-bed inpatient and ambulatory cancer facility for children and adults, a 20-bed bone marrow transplantation program, a recently established high volume screening program including a fixed site and a mobile unit.



**H. LEE MOFFITT CANCER CENTER  
& RESEARCH INSTITUTE**  
University of South Florida College of Medicine

Moffitt Cancer Center is an Equal Opportunity Employer.  
The University of South Florida is an Equal Opportunity/Equal Access/Affirmative Action Employer.

## Pharmacologist/Scientist

NeoRx Corporation develops targeted biopharmaceuticals that detect and treat human diseases with an initial focus on cancer.

We currently have an opening for an experienced scientist who will design, execute, and interpret in vivo experiments. The individual will perform animal experiments using AALAS approved methods and techniques plus provide scientific insight into biological results based on an understanding of pharmacokinetics, chemistry, and experimental oncology.

The selected candidate will have:

- a university degree, preferably Ph.D., in a life science such as pharmacology, biology, or biochemistry;
- demonstrated ability to design, execute, and analyze in vivo pharmacology experiments using animal models; and
- at least two years experience working with radioactivity.

Special consideration will be given to those candidates with experience in oncology research, especially using monoclonal antibodies to target drugs to tumors.

For consideration, forward resume and a one page cover letter to:

Human Resources  
NeoRx Corporation  
410 West Harrison Street  
Seattle, Washington 98119-4007

*We are an equal opportunity employer  
m/f/d/v.*

## Research & Development Engineer II Stanford Biochemistry Department

We are seeking an engineer to develop instrumentation for the Stanford Sequencing and Technology Center within the Department of Biochemistry. This position involves developing methods and instruments for the automation of large-scale sequencing of DNA. The engineer will be involved in the design specifications of both the hardware and software of the instruments and will work closely with other members of an interdisciplinary group, including molecular biologists and other engineers. The candidate will be expected to take a lead and independent role in instrument specification, design, and implementation. Finally, the candidate will be expected to interact with outside members of the Human Genome Community by attending conference meetings.

Qualifications include: BS/MS in Electrical Engineering, Mechanical Engineering, Chemical Engineering, Applied Physics or related field. We are seeking an engineer with a broad range of interests and areas of expertise. Knowledge in mechanical design, motion control and robotics, and an understanding of fluidic systems is highly desirable. Proficiency in C and familiarity with the UNIX and Macintosh computer environment is highly desirable. Demonstration of completed projects involving the development of instrumentation is required. A good foundation in physics and physical chemistry is desirable. Interest in genetics and molecular biology is highly desirable. Demonstrated ability to work independently and to take initiative is essential. Must comply with government regulations and university policies and procedures regarding health and safety procedures. Send curriculum vitae and references to: Ronald W. Davis, Ph.D., Stanford Center for DNA Sequence and Technology, Department of Biochemistry, 855 California Avenue, Room 173, Palo Alto, CA 94304.

NYU  
Medical  
Center

## Research Position

NYU Medical Center, one of the nation's leading research institutions, has a postdoctoral position available in Protein Crystallography at the Skirball Institute of Biomolecular Medicine. You'll work in the laboratory of Dr. Rashmi Hegde studying proteins involved in the regulation of transcription and replication in papillomaviruses.

The preferred candidate will have a background in molecular biology and experience working with proteins and nucleic acids. Prior experience in protein crystallography is desired but not required.

We offer an excellent salary commensurate with experience. Send c.v. and the names of three references to William Kelley, Human Resources Dept., Area - SIBM, NYU Medical Center, 550 First Avenue, New York, NY 10016. CVs must be received by May 30th. EOE, M/F.

**FACULTY POSITION IN  
RADIATION BIOLOGY**

**University of Florida  
College of Medicine**

The Department of Radiation Oncology in conjunction with the University of Florida Cancer Center is seeking highly qualified applicants for a tenure track position at the level of Assistant/Associate or Full Professor. Preference will be given to investigators specializing in radiation biology with experience in apoptosis or molecular repair mechanisms as well as a strong interest in developing interdisciplinary research projects. The successful candidate will assist in teaching a course in Radiation Biology and also supervise graduate research projects. As a member of the Radiation Oncology Department, the individual will attend clinical conferences and endeavor to link relevant research to new cancer therapies. The appointee will have excellent laboratory facilities, access to molecular biology core facilities, a competitive salary and an attractive start-up package.

Candidates should have a Ph.D. or M.D./Ph.D. degree, at least three years of post-doctoral training and a record of accomplishments indicating potential for developing a strong, independent research program. The anticipated start date is 12-1-94. Applicants should provide a brief statement of research interests and plans, curriculum vitae, bibliography and three letters of recommendation by June 15, 1994 to:

**Gall Zavelson, Administrator  
Health Science Center  
P.O. Box 100277  
Gainesville, Florida 32610-0277**

*The University of Florida is an Equal Opportunity/Affirmative Action Employer and specifically encourages applications from qualified women and minorities.*

**RESEARCH OPPORTUNITIES IN ANALYTICAL BIOCHEMISTRY**

The Analytical Biochemistry Group is seeking applicants for our ongoing program of crop improvement. Pioneer offers competitive salaries, excellent facilities and a highly cooperative research environment.

**RESEARCH ASSOCIATE/PROTEIN ANALYSIS (JOB #1390-A-MEYER)**—This position will join a laboratory that is responsible for analysis of transgene expression in transgenic plants. The successful candidate will be interacting with several research groups and will participate in the planning and implementation of experiments. **EDUCATION/EXPERIENCE:** MS degree in molecular biology, biochemistry, or related field (or BS degree plus 2 years of relevant experience) is required. Experience in protein biochemistry/analysis (including immunoassays) is desired and experience with analysis of transgenic plants and statistical analysis is preferable.

**SENIOR RESEARCH ASSOCIATE, NUCLEIC ACID ANALYSIS (JOB #1386J)**—Primary responsibilities of this position will be to work with other researchers to determine the appropriate nucleic acid analysis for transgenic plants from various projects. This person will conduct the needed techniques, supervise research associates involved in the same types of analysis, and communicate the results. Trouble-shooting and development/testing of new techniques is also important. **EDUCATION/EXPERIENCE:** MS degree or equivalent in molecular biology, biochemistry, or related field plus 2 years of relevant research experience are required. Applicants should have experience in nucleic acid analysis (Southern, PCR, RNA analysis), preferably in transgenic plants, along with experience with computers and statistical analysis. Strong communication skills are essential, and supervisory experience is preferred.

Applications received by May 25, 1994 will be assured of consideration. However, applications will be considered until the positions are filled.

Pioneer Hi-Bred International, Inc. is an Equal Opportunity employer. Please send TWO complete sets of resume/application information for each position for which you are applying. Indicate in your correspondence the JOB #, and the names, addresses and telephone numbers of three references to:



**PIONEER HI-BRED INTERNATIONAL, INC.**

Trait and Technology Development  
Analytical Biochemistry  
Attn: Dawn M. Meyer,  
JOB # (Please indicate)  
7300 NW 62nd Ave., P.O. Box 1004  
Johnston, IA 50131-1004



DEPARTMENT OF BIOLOGICAL SCIENCES

**DEPARTMENT CHAIR**

The Department of Biological Sciences at Northern Arizona University is initiating a search for a Chair. Applications are invited and nominations are solicited for this position. Candidates are sought who have superior records of teaching, research and grant support, and have demonstrated leadership and administrative experience and ability. The successful candidate will be expected to maintain a research program and contribute to the teaching program of the department. Candidates must hold a doctoral degree and qualify for the academic rank of Full Professor with tenure. Research specialty is open and should be complementary with the goals of the department. Salary, rank, and support will be competitive.

Northern Arizona University has approximately 18,500 students. The department consists of 38 faculty members with a strong commitment to excellence in education and scholarship. Undergraduate programs include biology, botany, microbiology, and zoology. Graduate offerings include the M.S., M.A.T., and Ph.D. in biology. Review of applications will begin 1 Oct. 1994 and will continue until the position is filled. Starting date is negotiable.

Applications should include current resume, concise statement of professional goals and philosophy, and names, addresses and phone numbers of three referees. Send to:

**BIOLOGY CHAIR SEARCH  
Office of the Dean  
College of Arts and Sciences  
Box 5621  
Northern Arizona University  
Flagstaff AZ 86011**

Northern Arizona University is an Equal Opportunity/Affirmative Action Employer.

*Medical*

**EXECUTIVE OFFICER  
Institute of Medicine**

The Institute of Medicine (IOM) is a national institution which addresses matters effecting the advancement of health science and education and the improvement of health care, in conjunction with the National Academy of Sciences (NAS) and the National Research Council (NRC). The IOM is a major resource of expertise and analysis of issues and problems in these areas. It has a staff of approximately 120, including 75 professionals supporting the work of its volunteer committees and national membership of approximately 1,000.

The Executive Officer implements the policies of IOM's elected officials and the NRC through management of all IOM operations, including scientific, financial, administrative, and membership matters. Through coordination and supervision of Division Directors, the Executive Officer manages IOM's human resources, identifies emerging problems and opportunities for policy analyses, responds to public and private requests for studies, enforces IOM and NRC policies, and ensures compliance with contracts.

Applicants should have a M.D./Ph.D. or equivalent, preferably in a medical or health science field, and at least 10 years of highly substantive related experience, or M.A./M.S./M.B.A./M.P.A. or equivalent and approximately 15 years of experience. Qualifications also include recognized expertise in relevant areas of health care or medicine, demonstrated effectiveness in management of major programs of research or policy analyses, and demonstrated oral and written communication ability with staff and a broad constituency of research, government, academic, and committee members.

Applicants are invited to submit a cv/resume in confidence to: **Director of Personnel and Appointments, GR 146 - EO (SC), National Research Council - Institute of Medicine, 2101 Constitution Avenue, NW, Washington, DC 20418.** EOE. Resumes should be received by June 15, 1994.





## POSITIONS OPEN

**POSTDOCTORAL POSITIONS** in molecular-cellular biology and drug discovery available immediately. Challenging working environment and competitive salaries. Send curriculum vitae and three references to: **James W. Larrick, M.D., Ph.D., Palo Alto Institute of Molecular Medicine, 2462 Wyandotte Street, Mountain View, CA 94043. FAX: 415-851-3959.**

### KEELE UNIVERSITY Department of Communication and Neuroscience POSTDOCTORAL RESEARCH FELLOW (REF: RE94/04)

Neurophysiologist, ideally with postdoctoral experience of mammalian visual physiology and application of computer technology, for SERC-funded investigations of spatial characteristics of visual cortical suppression under the direction of Dr. P. Hammond. Duration: three years commencing 1 July 1994 or after. Salary up to £15,186, according to age, qualifications and experience, together with National Insurance and US\$ benefits.

Please WRITE for application forms and further particulars to the **Personnel Department, Keele University, Keele, Staffordshire, ST5 5BG, England, or FAX your request (0782) 583471.** Closing date of applications: 18 May 1994.

*AN EQUAL OPPORTUNITIES EMPLOYER.*

### POSTDOCTORAL FELLOWSHIP

Position available for an M.D. or Ph.D. to study the pathogenesis of virus-induced demyelination as a model of multiple sclerosis. Research projects involve investigations of the immunopathogenesis of Theiler's virus infection and the role of Class I and Class II-MHC-restricted immune responses. Related studies utilize the generation of transgenic mice. A good background in immunology, virology or molecular biology is desirable. Send curriculum vitae to: **Moses Rodriguez, M.D., Department of Immunology, Mayo Clinic, Guggenheim 4th Floor, Rochester, MN 55905.** Mayo Foundation is an Affirmative Action and Equal Opportunity Educator and Employer.

**CLINICAL CHEMISTRY POSTDOCTORAL FELLOWSHIPS** at Mayo Clinic. Seeking applicants for two-year ComACC-approved fellowship directed toward qualified individuals (Ph.D. or M.D. required) pursuing careers in clinical chemistry. Individuals completing the program are eligible for certification by the American Board of Clinical Chemistry. Applications on file by October 31, 1994, will be considered for appointment beginning in July 1995. Contact: **Mary F. Burritt, Ph.D., Division of Clinical Biochemistry, Mayo Clinic, Rochester, MN 55905,** for more information. Mayo Foundation is an Affirmative Action and Equal Opportunity Educator and Employer.

### POSTDOCTORAL FELLOWSHIP IN MOLECULAR ECOLOGY OF THE HUMAN GUT

A 2-year fellowship position in the Division of Infectious Diseases at Duke University is available starting summer 1994. The laboratory uses molecular methods to identify unculturable pathogens and study the composition of human colonic flora. Send résumé to: **Dr. Ken Wilson, Infectious Diseases Section, VA Medical Center, 508 Fulton Street, Durham, NC 27705.** E-mail: wilso003@dukemc.mc.duke.edu. FAX: (919) 286-6895.

**RESEARCH FELLOW** with a Ph.D. and/or M.D. with specialization in systems and organ cardiovascular physiology. Expertise in animal surgery and data acquisition systems an asset. The person will be involved in research projects for the Department of Thoracic and Cardiovascular Surgery and will be required to develop an independent research program. Position to begin July 1, 1994. Send letter of application, curriculum vitae, three current publications, and names and addresses of three references to: **Lynn B. McGrath, M.D., Chairman, Department of Thoracic and Cardiovascular Surgery, Deborah Heart and Lung Center, 200 Trenton Road, Browns Mills, NJ 08015-1799.** An Equal Opportunity Employer.

## POSITIONS OPEN

### POSTDOCTORAL FELLOWSHIP

Position available for an M.D. or Ph.D. to study promotion of remyelination in the central nervous system. Research projects involve investigations of the immunopathogenesis of virus-induced demyelination as a model for multiple sclerosis. Related studies utilize the characterization of monoclonal antibodies that promote remyelination. A good background in glial biology, immunology, or molecular biology is desired. Send curriculum vitae to: **Moses Rodriguez, M.D., Department of Immunology, Mayo Clinic, Guggenheim 4th Floor, Rochester, MN 55905.** Mayo Foundation is an Affirmative Action and Equal Opportunity Educator and Employer.

**RESEARCH FELLOW** with a Ph.D. and/or M.D., or equivalent degree in the field of medical biology with background and training in morphology. Experience with immunocytochemistry, *in situ* hybridization, electron microscopy, and molecular biology is preferred. The selected candidate will join an active morphological research team conducting research on the cardiovascular system. Good writing and communication skills are essential. Position will commence in mid-June. Please send curriculum vitae, cover letter indicating research interests, three current publications, names and addresses and telephone numbers of three references: **C. David Ianuzzo, Ph.D., Director, Deborah Research Institute, Trenton/Pine Mill Roads, Browns Mills, NJ 08015-1799.** An Equal Opportunity Employer.

### POSTDOCTORAL FELLOW IN TANDEM MASS SPECTROMETRY CLINICAL PHARMACOLOGY REQUIRED

A postdoctoral fellow is required to participate in a number of clinical pharmacology and drug metabolism projects utilizing state-of-the-art mass spectrometry, and on-line HPLC-MS and capillary electrophoresis-MS, and tandem mass spectrometry. Equipment available includes a MAT-900 with a scanning array detector, a MAT-95Q hybrid tandem mass spectrometer, an Ion Trap-MS, and a matrix-assisted LD-TOF instrument. Qualifications necessary include either a Ph.D. or M.D.; experience in analytical techniques such as HPLC, CE, and MS would be of benefit. Must be a U.S. citizen or permanent resident to apply. Please contact: **Dr. Stephen Naylor, Biomedical Mass Spectrometry Facility, Guggenheim, CL, C009B, Mayo Clinic, Rochester, MN 55905, USA.** Mayo Foundation is an Affirmative Action and Equal Opportunity Educator and Employer.

### POSTDOCTORAL ASSOCIATE MCLAUGHLIN RESEARCH INSTITUTE

Position for molecular geneticist to study mouse models for neurodegenerative diseases. Potential topics, depending on interest and expertise, include: prion diseases, cloning and analysis of neurologic mutations, and transgenic modeling. The Institute is housed in a spacious new building that includes a large mouse colony and transgenic facility. Send curriculum vitae with names and addresses of three references to: **George A. Carlson, Ph.D., McLaughlin Research Institute, 1520 23rd Street South, Great Falls, MT 59405.** An Equal Opportunity/Affirmative Action Employer.

**POSTDOCTORAL ASSOCIATE, DEPARTMENT OF BIOCHEMISTRY, UNIVERSITY OF VERMONT.** Research involving the enzymology of complex protease-membrane assemblies in blood coagulation and fibrinolysis. This research involves design and synthesis of substrates and inhibitors with specificities to the serine proteases and their use in analyses of the formation of protease complexes. Applicants should have 7 or more years of postdoctoral experience in the design and synthesis of original and specific substrates, and inhibitors for serine proteases. The applicant must also have a strong background in protein separation, purification and enzymology. The position pays \$40,000. Send curriculum vitae, selected papers and names of three references to: **Jobs and Training Division, Vermont Department of Employment and Training, P.O. Box 488, Montpelier, VT 05601-0488,** reference job order #528369. Application deadline: June 6, 1994.

## POSITIONS OPEN

### POSTDOCTORAL/RESEARCH ASSOCIATE

A postdoctoral fellowship is available immediately for a molecular/cell biologist with recent Ph.D./M.D. degree to work as part of an interdisciplinary team investigating the molecular mechanism(s) of human cancer, (prostate in particular) development and progression. Applicant should have experience in molecular cloning techniques, PCR, gene expression, and DNA-protein interaction study. Send letter of intent and curriculum vitae to: **Dr. Fazlul Sarkar, Department of Pathology, Wayne State University, 9374 Scott Hall, Detroit, MI 48201.** Equal Opportunity Employer/Affirmative Action.

**RESEARCH ASSOCIATE POSITIONS IN SIGNAL TRANSDUCTION.** Two Research Associate positions are available now to study kinase cascades in growth factor signaling. Experience and interest in protein kinases, protein phosphatases, protein chemistry, Ras, lipids, and/or signal transduction preferred for one position; background in signaling and molecular biology for the other. Initial application by FAX with statement of interest, 3 references, and curriculum vitae to: **804/982-3830. Tom Sturgill, M.D.-Ph.D., Markey Center for Signal Transduction, Box 419, University of Virginia Health Sciences Center, Charlottesville, VA 22908.** An Equal Opportunity Employer.

The Department of Neurology at the University of Rochester is recruiting a tenure-track SCIENTIST with major interest in molecular medicine/gene therapy. M.D., Ph.D. or M.D./Ph.D. trained individuals may apply. The University of Rochester is an Equal Opportunity Employer. Inquiries to: **Leon G. Epstein, M.D., Division of Child Neurology, University of Rochester Medical Center, 601 Elmwood Avenue, Box 631, Rochester, NY 14642.**

### CENTRIFUGATION SCIENTIST

Beckman Instruments, Inc., the world's leading producer of centrifuges, is seeking a research scientist to help develop new instrumentation based upon centrifugation. Identify new opportunities for the use of centrifugal fields in separating or manipulating macromolecules and cells, perform exploratory research to validate these concepts, and support the marketing effort with applications expertise. A Ph.D., 3 to 5 years of experience in molecular or cell biological techniques, excellent interpersonal skills, and the ability to establish external collaborations in addition to performing in-house research required. For consideration, please send or FAX your résumé to: **Staffing, Beckman Instruments, Inc., 1050 Page Mill Road, Palo Alto, CA 94304; FAX: 415-859-1526.** Equal Opportunity Employer. Principals only, please.

**SCIENTIST**—Research hematologist. To work on a challenging sample preparation project. Small, fast-moving company, planning to expand a project in automated cytometry, is looking for a multidisciplinary scientist with at least five years of postdoctoral experience in two or more of the following fields: Microscopic Hematology, FISH, Density Gradients, Enzymology, Cytochemistry, Cytogenetics. A very focused project will lead to future opportunities for more independent product innovation. We offer competitive salaries and benefits. Send letter of interest and résumé to: **Ruth White, Applied Imaging Corporation, 2380 Walsh Avenue, Building B, Santa Clara, CA 95051.**

### WEYERHAEUSER COMPANY DEVELOPMENTAL BIOLOGIST

Weyerhaeuser Strategic Biological Sciences is looking for a **Developmental Biologist.**

#### Requirements:

Ph.D. in developmental: biology, botany, biochemistry, molecular biology or related scientific discipline with emphasis on plant propagation via tissue culture techniques. Lab experience essential with exposure to the development of somatic embryogenesis methods. Strong written and oral technical communication skills. Demonstrated ability to plan experiments following good techniques. Ability to work in a team environment. Computer literacy and ability to work accurately with research data. Strong safety ethic. Experience using immunochemical stains to evaluate protocol or developmental changes. Desire: Experience planning and analyzing experiments with SAS software.

Please send cover letter and résumé by May 31, 1994, to: **Weyerhaeuser Company, Search 9435, CH 1J26, Tacoma, WA 98477.**

*Equal Opportunity Employer/d.*

## FACULTY POSITION DEPARTMENT OF PHARMACOLOGY AND TOXICOLOGY UNIVERSITY OF UTAH

Applications are invited for a tenure-track position in the Department of Pharmacology and Toxicology at the Assistant Professor level. Applicants must have a doctoral degree, significant postdoctoral research experience, and demonstrated ability to be productive in an academic setting; salary will be commensurate with experience. Current areas of strength in the department include neuropharmacology, neurotoxicology, human and biochemical toxicology, drug metabolism, cardiovascular pharmacology, molecular pharmacology and molecular biology. We are seeking a candidate who either has expertise in one of these fields or can augment the department's areas of expertise. Successful applicants will be expected to develop a strong, independent research program with external funding as well as participate in teaching at both graduate and professional levels. The department particularly encourages applications from women and minorities for this position.

Candidates should submit a letter of application, a brief statement of research objectives, curriculum vitae, and at least three letters of recommendation. Please submit responses to Douglas E. Rollins, M.D., Ph.D., Search Committee Chair, Department of Pharmacology and Toxicology, 112 Skaggs Hall, University of Utah, Salt Lake City, UT 84112. (801) 581-5117. Applications should be submitted by July 1, 1994, but later applications may be considered if no suitable candidates have been identified by the deadline. The University of Utah is an Equal Opportunity/Affirmative Action Employer.

## STAFF SCIENTISTS CELL BIOLOGY

*Stratagene is expanding its program in the area of cell biology. Candidates should have a Ph.D. and a significant publication record in one of the following fields of study: signal transduction, cell cycle, programmed cell death, or cellular differentiation.*

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## DEAN & DIRECTOR COLLEGE OF AGRICULTURAL AND ENVIRONMENTAL SCIENCES THE UNIVERSITY OF GEORGIA

The University of Georgia seeks the application or nomination of persons qualified to provide leadership as Dean and Director to further enhance the national prominence of the College of Agricultural and Environmental Sciences. The College offers the full range of academic degrees in agricultural and environmental sciences at the undergraduate and graduate levels and provides state, regional, national and international research and extension programs in agriculture. The Dean and Director is responsible for (a) the leadership of these programs; (b) cooperative relations with other schools and colleges in the University, other educational institutions, public and commercial agricultural organizations and enterprises, and public officials; and (c) all budget authority of the College.

**Qualifications:** The Dean and Director should have an earned doctorate and at least one degree from an accredited school or college of agriculture; significant accomplishments in teaching, research, or extension; demonstrated leadership ability; and successful experience with the public and commercial sectors associated with agriculture, and administration of agriculturally related activities.

**Salary:** Commensurate with background and experience.

All applications or nominations received by June 15, 1994, are assured of full consideration.

**Deadline for application or nominations to be received:** June 15, 1994

Send letter of application, including curriculum vitae and names and addresses of five references, or letters of nomination including names and complete addresses of nominees to: Dr. Arnett C. Mace, Jr., Chairman, Search Committee; c/o Office of the Dean; Daniel B. Warnell School of Forest Resources; The University of Georgia; Athens, Georgia 30602-2152; Phone: 706-542-4741; FAX: 706-542-8356. The University of Georgia is an Equal Opportunity/Affirmative Action Institution.



The University of Georgia

## BIOLOGIST University of Evansville

The University of Evansville invites applicants for a tenure-track faculty position as an Assistant Professor to begin August, 1994. Applicants should have a strong commitment to teaching and the independent university tradition. We seek a biologist well-acquainted with modern biology to teach introductory biology and zoology for majors, a non-majors biology course, evolution and an upper level course in the candidate's specialty, and develop an active undergraduate research program. In addition, the candidate will serve as a biology student advisor and engage in professional development and University service. A Ph.D. is required and teaching experience is expected. Pay will be commensurate with education and experience.

Applicants should send curriculum vitae, official transcripts, a statement describing their commitment to undergraduate teaching, and three letters of reference to: Karen Ott, Chair, Department of Biology, University of Evansville, Evansville, IN 47722. Applications must be received by May 31, 1994.

The University of Evansville is an independent, church-related, selective admissions University located in a city of 135,000 in southwestern Indiana. It offers a comprehensive program of instruction including liberal arts, science, engineering, business, nursing and education. Enrollment numbers 2,460 full-time students. The University also includes a major campus in England, Harlaxton College.

The University of Evansville operates under a non-discriminatory policy with regard to race, color, age, religion, handicap and national origin.

## Postdoctoral Position Stanford Biochemistry Department

The Department of Biochemistry is seeking a Postdoctoral Fellow to investigate the use of oligonucleotide arrays and sequencing by hybridization to increase the accuracy of conventional linear sequencing. The project will be carried out as a collaboration between Affymetrix and the Stanford DNA Sequencing and Technology Center. The primary work environment will be at Stanford University with Dr. Ronald W. Davis, although the project will also involve close interaction with the scientists and engineers at Affymetrix.

The Center consists of an interdisciplinary team of 25 scientists and engineers committed to improving efficiency of sequencing and sequence analysis. Presently the group is focusing on finishing the sequence of yeast chromosome V and initiating the sequence of chromosome IV.

**Qualifications include:** The ideal candidate will have a wide ranging interest in biochemistry and the development of technology, and experience in the biochemistry or physical chemistry of nucleic acids. Must work effectively as a team member and enjoy interaction with a diverse group of dedicated scientists and engineers. Must comply with government regulations and university policies and procedures regarding health and safety procedures. Send curriculum vitae and references to: **Ronald W. Davis, Ph.D., Stanford Center for DNA Sequence and Technology, Department of Biochemistry, 855 California Avenue, Room 173, Palo Alto, CA 94304.**

## POSITIONS OPEN

**BIOLOGY LABORATORIAN.** New 12-month, staff position. Salary low 30's. Oversee teaching labs, coordinate with faculty, help design lab exercises, supervise TA's, stockroom, purchasing; serve as safety officer, etc. Teach 4 quarter-courses per year and lab sections as appropriate and needed. Doctorate and teaching experience preferred. Send letter, curriculum vitae, 3 references, to: **Dr. S. L. Beck; Department of Biological Sciences; DePaul University; 1036 West Belden; Chicago, IL 60614.** *Equal Opportunity/Affirmative Action Employer.*

## ANNOUNCEMENTS

**PRE-PROPOSALS**—Deadline: 1 August 1994. International Foundation for Ethical Research (IFER) has grants available for research into alternatives to the use of live animals in research, testing and teaching. Projects must take into account the three R's: Refinement, Reduction, and Replacement plus a fourth R: Responsibility. For information and format write: **IFER, 53 West Jackson Boulevard, Chicago, IL 60604**, or call: 312-427-6025.

## COURSES AND TRAINING

### APPLIED MOLECULAR BIOLOGY

The University of Maryland Baltimore County is accepting applications for its unique 2-year M.S. Program in Applied Molecular Biology. Through 3 hands-on intensive laboratory courses, research internships off and on campus, and 6 companion lecture courses, this comprehensive program prepares students for research positions in industry or academia. Information and applications: **Department of Biology, U.M.B.C., Baltimore, MD 21228-5398.** Telephone: (410) 455-3669.

### WORKSHOP ON MOLECULAR EVOLUTION

August 7-19, 1994, plus extended  
special topics session  
August 21-28

A series of lectures and discussions exploring multiple approaches to molecular evolution, with a computer laboratory for phylogenetic and sequence analysis. Current topics in molecular evolution including the theoretical basis for comparative sequence analysis and phylogenetic tree construction will be addressed. Enrollment limited to 60 students.

**DIRECTOR:** Mitchell Sogin, Marine Biological Laboratory.

**FACULTY:** Dan Davison, University of Houston; Joseph Felsenstein, University of Washington; Walter Fitch, University of California, Irvine; George Fox, University of Houston; Robin Gutell, University of Colorado; David Hillis, University of Texas; Rick Hudson, University of California, Irvine; Laura Landweber, Harvard University; David Maddison, University of Arizona; Saira Mian, University of California, Santa Cruz; Roger Milkman, University of Iowa; Stephen O'Brien, National Cancer Institute; Gary Olsen, University of Illinois; Norman Pace, Indiana University; Peg Riley, Yale University; Monica Riley, Marine Biological Laboratory; Terry Speed, University of California, Berkeley; David Swofford, Smithsonian Institution; Bruce Walsh, University of Arizona. **TUITION:** \$675 (including room and board). **APPLICATION DEADLINE:** June 1, 1994.

For information and application forms contact: **Admissions Coordinator, Marine Biological Laboratory, Woods Hole, MA 02543; Telephone:** (508) 548-3705; **Internet:** admissions@mbi.edu.

## MEETINGS

### PROTEIN STABILITY CONFERENCE

Presented by the University of Colorado School of Pharmacy on July 17-20, 1994, in Breckenridge, Colorado. Plenary lectures and posters will be given on theory, applications and analysis of protein/peptide structural and chemical stability. Contact **John Carpenter** or **Mark Manning; Telephone:** 303-270-5055, **FAX:** 303-270-6281, **E-Mail:** Carpenter.J@Apothecary.hsc.colorado.edu.

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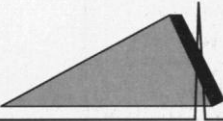
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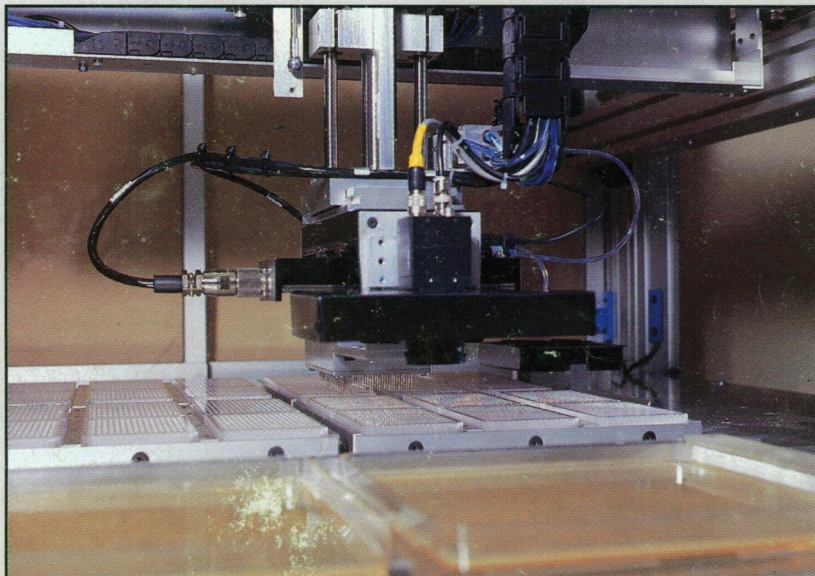
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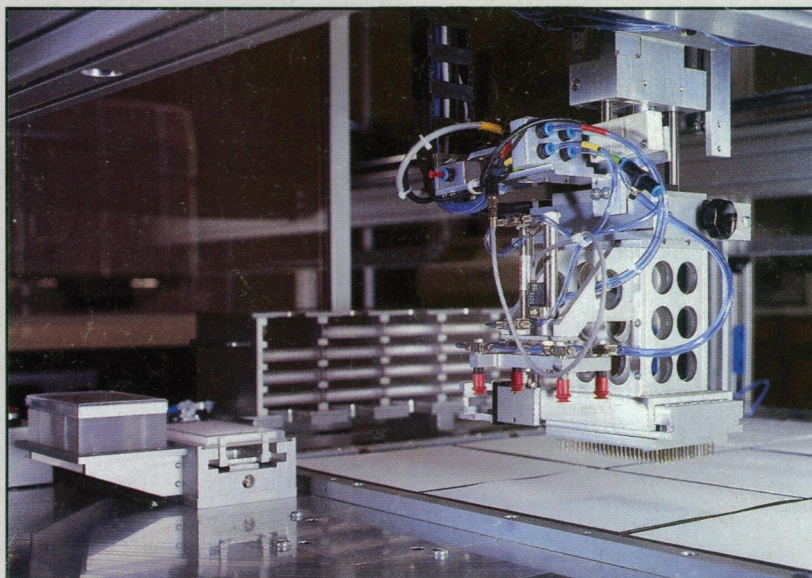


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