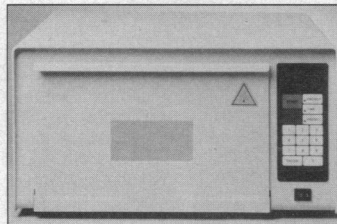


## Molecular Biology Software

The Lasergene Biocomputing Software program's capabilities include sequence assembly, database searching, multiple and pairwise sequence alignment, protein analysis, graphical sequence mapping, and primer selection and design. The Primer Select program provides computer-aided oligonucleotide design for the scientist using polymerase chain reaction or primer-based sequencing techniques. The program recommends optimal primer pairs and experimental strategies that are most likely to work in the test tube. Versions of both programs are available for both Macintosh and Windows-based computers. **DNASTAR. Circle 136.**

## UV Crosslinker

A new ultraviolet (UV) crosslinker for fixing DNA and RNA to nylon membranes completes crosslinking in 15 s, compared with 2 hours for traditional oven-



baking methods. The crosslinker features a photo-feedback system that automatically compensates for any fluctuations in the intensity of the UV light source, ensuring reproducible binding every time. **Amersham International. Circle 137.**

## Electronic Handbook of Probability

The Electronic Handbook of Probability for Microsoft Windows 3.1 replaces text-based reference material for 28 probability distributions. Output includes *p* values, percentage points, statistics, formulas, random samples, and graphics. Calculations are

more accurate than most printed tables and performed very quickly. Technical information and references are provided for all distributions. **Crunch Software Corp. Circle 138.**

## Sampling and Filtration Module

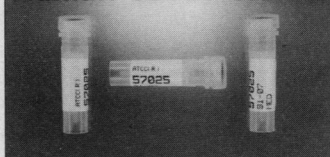
The Bio-Probe 5441 is an in situ sampling and filtration module for the sterile withdrawal of cell-free samples from fermentation vessels. This patented module provides a filtered sample (0.2  $\mu$ m pore size) at rates of 0.5 to 2.0 ml per minute for on-line monitoring or control of fermentation analytes. Sampling modules can be ordered to fit standard 19-mm or 24-mm ports on fermentation vessels from almost any manufacturer. Extension modules allow the sampling device to reach appropriate depths and sampling points in the vessel so that bottom, top, or side-mounted access is possible. It is most suitable for bacterial and yeast fermentations. **Eppendorf North America. Circle 139.**

## Lysate Ribonuclease Protection Kit

With the Lysate Ribonuclease Protection Kit for the detection and characterization of RNA from guanidine thiocyanate (GuSCN) cell lysates, purification of RNA is not required because GuSCN inhibits ribonucleases and promotes molecular hybridization. The uncertainty associated with RNA integrity and yield during RNA purification is eliminated. Also, because hybridization is accomplished with excess probe in solution, this method works well for quantitative analysis. **U.S. Biochemical Corp. Circle 140.**

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.

## Human cDNA Clones



## Human cDNA Clones

More than 7500 human cDNA brain clones have been identified by partial sequencing for use in gene sequencing, study of gene families, and other applications. The materials are supplied as either slants of uncharacterized plasmids or as frozen uncharacterized bacteriophage lysates. **American Type Culture Collection. Circle 141.**

## Cell Labeling Molecules

With a new line of cell linker molecules for stable labeling, cell membranes labeled in vitro can be tracked for up to 100 days in vivo. The labels can be followed for up to 10 cell divisions. A green and a red fluorescent dye facilitate dual labeling. The cell linkers are nontoxic and have no effects on the biological and proliferative activity of cells. The dyes can be detected through either fluorescent microscopy or flow cytometry using standard laboratory equipment. **Sigma Immunochemicals. Circle 142.**

## Silver Staining Kit

The Silver Stain Plus Kit detects proteins and nucleic acids in polyacrylamide or agarose gels faster and with higher sensitivity than traditional silver staining methods. The kit takes only 1 hour and involves just three simple steps: fixing, washing, and staining. As little as 2 ng of protein and subnanogram quantities of DNA can be detected. **Bio-Rad Laboratories. Circle 143.**

## Literature

*Disposable Devices for Reliable Small-Volume Filtration* presents a complete line of sterile and nonsterile products. **Millipore. Circle 144.**

*Scientific Software Catalog for the PC and Macintosh* offers a selection of more than 300 specialized software packages in the subjects of molecular biology, scientific word processing, drawing tools for chemists, presentation graphics, molecular modeling, mathematical modeling, statistics and data analysis, graphing and plotting, bibliography management, and translation. **es<sup>2</sup>c, Europa Scientific Software Corp. Circle 145.**

*LC Views* is a newsletter from Perkin-Elmer that features the company's new Applied Biosystems Division—the result of a merger with Applied Biosystems that provides a comprehensive line of life science systems. **Perkin-Elmer. Circle 146.**

*Keithley Introduces More New Ways to Turbocharge Your Data Acquisition* is an 18-page supplement to a catalog of personal computer-based data acquisition hardware and software products. **Keithley MetraByte. Circle 147.**

*QED* is a catalog of monoclonal antibody products, hybridoma technologies, and structural science technologies. **QED. Circle 148.**

*Shodex Packed Columns for HPLC* is a 22-page catalog that lists hundreds of columns along with selected applications in high-performance liquid chromatography (HPLC). **JM Science. Circle 149.**

*1993-94 Catalog/Handbook: Neurochemicals for the Neuroscientist* contains more than 1000 compounds, including more than 200 new products. Listings include key literature references, common and IUPAC names, molecular formulas, chemical structures, physical characteristics, and storage and disposal recommendations. **Research Biochemical International. Circle 150.**

# SCIENCE

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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

**ECOLOGIST.** The role of plants in ecosystems is the focus of a tenure-track **ASSISTANT PROFESSORSHIP** in environmental biology. The successful candidate will build our department's current aquatic ecosystems expertise, which includes microbial ecology, zooplankton ecology, and environmental physiology, and enhance or benefit from synergistic interactions with one or more related department research activities in record of environmental change (sedimentation, environmental magnetism, Quaternary studies, tectonics), aqueous and stable isotope geochemistry, and hydrology. Expertise in phytoplankton primary production/ecology, or watershed ecology desirable, but other specialties will be considered. We expect active research and teaching that contribute to our degree programs in environmental sciences (B.A./B.S., M.S., Ph.D.). Send curriculum vitae, statement of research and teaching interests, selected reprints, and 3 letters of reference to: **Craig Williamson, Department of Earth & Environmental Sciences, #31 Williams Drive, Lehigh University, Bethlehem, PA 18015.** Application review begins February 3, 1994, for position starting January 1995. *Lehigh is an Equal Opportunity/Affirmative Action Employer.*

**ASSISTANT PROFESSOR PHARMACOLOGY.** Tenure-track position, University of the Pacific School of Pharmacy; 11-month appointment. Applicant should have an understanding of basic pharmacology and a commitment to an active, independent research program. Team-teaching of human pharmacology and physiology courses to pharmacy students. Other responsibilities include graduate program (M.S., Ph.D.) and university and community service. Doctoral degree and appropriate experience essential. Applications received until position filled; however, August starting date suggested. Candidate reviews begin March 15, 1994. Submit curriculum vitae and three letters of reference to: **Dr. Robert B. Supernaw, Associate Dean, School of Pharmacy, University of the Pacific, Stockton, CA 95211.** *Equal Opportunity/Affirmative Action Employer.*

### ASSOCIATE/FULL PROFESSOR CELL BIOLOGY AND ANATOMY

The Department of Cell Biology & Anatomy, Oregon Health Sciences University, invites applications for a full-time **Assistant, Associate or Full Professor.** Departmental research is focused on molecular mechanisms of cellular control and we seek applicants with interests in the analysis of cell growth and differentiation. We are particularly interested in analysis of oncogene function, regulation of the cell cycle, the role of signal transduction in the regulation of cellular proliferation or the relationship between changes in the cytoskeleton or extracellular matrix and cell growth. Applicants with interests in other areas of cell and molecular biology will also be considered. Individuals working with either higher or lower eukaryotes are encouraged to apply. Applicants at the Associate or Full Professor level should have an established research program with extramural funding. Interested persons should send curriculum vitae, a statement of research interests and the names of three references by February 28, 1994, to: **R. Maurer, Search Committee, Department of Cell Biology and Anatomy, Oregon Health Sciences University, Portland, OR 97201.** *Oregon Health Sciences University is an Equal Opportunity/Affirmative Action Employer.*

**INVERTEBRATE ZOOLOGY:** Applications are invited for a tenure-track, **ASSISTANT PROFESSOR** position to begin August 1994. Area of specialization is open but preference given to candidates with postdoctoral experience and whose research combines methods of molecular biology with field studies. Responsibilities include teaching entomology, parasitology, and invertebrate zoology, directing Master's theses, and establishing an externally fundable research program. Involvement will be expected in the departmental biodiversity program, in an environmental education/field research program and in a planned joint Ph.D. program in organismal biology. The University of Akron is the third largest state university in Ohio with over 27,000 students. Review of applications will begin February 15, 1994. Send curriculum vitae, a statement of teaching/research interests, and three letters of reference to: **Dr. John Gwinn, Chair, Search Committee, Biology Department, The University of Akron, Akron, OH 44325-3908.** *The University of Akron is an Equal Education and Employment Institution and encourages applications from the disabled, veterans, women, and minority groups.*

## POSITIONS OPEN

**MEDICAL UNIVERSITY OF SOUTH CAROLINA** offers programs leading to Ph.D. and M.D./Ph.D. degrees in each of the basic Biomedical Sciences (Biochemistry, Microbiology/Immunology, Pathology, Pharmacology, Physiology), Biometry/Epidemiology, Pharmaceutical Sciences, and Molecular & Cellular Biology. Competitive stipends (\$10,000 to \$15,000) available. Contact: **College of Graduate Studies, MUSC, 171 Ashley Avenue, Charleston, SC 29425-2501.**

Applicants are invited for a tenure-track faculty position in the Department of Pharmacological Sciences at the **ASSISTANT PROFESSOR** level. A Ph.D. or M.D./Ph.D. degree and postdoctoral research experience are required. Applicants with appropriate experience may be considered for appointment at the Associate Professor level. The successful candidate will be expected to establish a productive, independently funded research program in biomedical research and to participate in Departmental teaching to graduate, undergraduate, medical and allied health students. Suitable areas of research interest include, but are not limited to, structural biology, DNA repair, signal transduction and molecular genetics relevant to human disease. Complete curriculum vitae, statement of research interests and names of three individuals willing to write letters of recommendation should be sent to: **Dr. Daniel Bogenhagen, Search Committee Chair, Department of Pharmacological Sciences, School of Medicine, The University at Stony Brook, Stony Brook, NY 11794-8651.** Applications must be received by March 31, 1994, to receive full consideration. *The University at Stony Brook is an Equal Opportunity/Affirmative Action Employer.*

**ASSISTANT PROFESSOR OF BIOLOGY**—Tenure-track position beginning August 24, 1994. Ph.D. degree required. Graduate training and teaching ability in plant systematics plus two of the following four areas: plant ecology, plant-population genetics, plant physiology, molecular biology of plants. Teaching responsibilities include courses in areas of expertise, introductory biology laboratories, General Education, and guidance of undergraduate research. A letter of application, curriculum vitae, transcripts, and three letters of recommendation must be sent to: **Dr. Sigurd O. Nelson, Jr., Chair of the Search Committee, Department of Biology, SUNY College at Oswego, Oswego, NY 13126.** Review of applications will begin February 18, 1994; they will be accepted, however, until the position is filled. *SUNY Oswego is an Equal Opportunity and Affirmative Action Employer.*

**VISITING ASSISTANT PROFESSOR, ANIMAL PHYSIOLOGY.** Barnard College, Columbia University, has a full-time leave replacement position available for two years starting September 1994. Teaching duties include undergraduate lecture and laboratory courses in mammalian physiology, a senior seminar and a lecture course in either animal behavior, vertebrate zoology, or endocrinology. A Ph.D. is required; teaching experience is desirable. Submit curriculum vitae, list of publications, statement of teaching and research experience, 3 representative publications, and 3 letters of recommendation by February 8, 1994, to: **Mrs. Lorrin Johnson, Department of Biological Sciences, Barnard College, 3009 Broadway, New York, NY 10027.** *An Equal Opportunity Employer. Women and members of minority groups are encouraged to apply.*

**MICROBIOLOGIST/GENETICIST.** A one-year **VISITING ASSISTANT PROFESSOR** to teach, in different semesters, a one-semester introductory **GENETICS** course and a one-semester introductory **MICROBIOLOGY** course, both with two lab sections, and a one-semester advanced undergraduate seminar each semester. Must have Ph.D. in a relevant field and have teaching experience with documentary evaluations. Candidates who have had sole responsibility for at least one of the two courses are preferred. Duties start on or about August 15, 1994. Send a résumé, a letter discussing your teaching philosophy, and have at least three references write to: **Allen Rogerson, Chair, Search Committee, Biology Department, St. Lawrence University, Canton, NY 13617-1475.** *St. Lawrence University is an Affirmative Action/Equal Employment Opportunity Employer. Women, minorities, and persons with disabilities are encouraged to apply.*

## POSITIONS OPEN

### MICROBIOLOGY PROCARYOTIC PHYSIOLOGIST

The Department of Microbiology at the University of New Hampshire invites applications for tenure-track **ASSISTANT PROFESSOR** of Microbiology, with special interests in procaryotic physiology. Teaching responsibilities include a course in general Microbiology and the development of an upper-level undergraduate course in Microbial Physiology. Active participation in the M.S. and Ph.D. graduate program is expected. Applicants must have a Ph.D. in Microbiology or a related field and at least two years of postdoctoral experience. Preference will be given to applicants having an independent, externally funded research program. To apply, please send curriculum vitae, a statement of your research interests and a list of five references by February 18, 1994, to: **Dr. Robert M. Zsigray, Search Committee Chair, Department of Microbiology, University of New Hampshire, Durham, NH 03824-3544.** Hiring is contingent on eligibility to work in the United States. Women and minorities are encouraged to apply. UNH is an Affirmative Action/Equal Employment Opportunity Employer.

### HEMATOLOGY-ONCOLOGY FACULTY POSITION

The Division of Hematology-Oncology at the San Francisco VA Medical Center is seeking applicants for a junior faculty position, with appointment at the **ASSISTANT PROFESSOR** or **ASSOCIATE PROFESSOR** level at the University of California, San Francisco. Applicants should have a strong background as a biomedical investigator in oncology, hematology or related disciplines and will have protected time to develop an independent laboratory research program. Board eligibility/certification in oncology or hematology is required. The San Francisco VA Medical Center is a UCSF teaching hospital, and opportunities exist—for participation in graduate programs in the basic sciences at UCSF. Send curriculum vitae and names of three references to: **Gordon J. Strewler, M.D., Chair, Search Committee, DVA Medical Center (111N), 4150 Clement Street, San Francisco, CA 94121.** The University of California is an Equal Opportunity/Affirmative Action Employer. Women and minorities are encouraged to apply.

### ASSISTANT PROFESSOR PLANT POPULATION BIOLOGY

The Department of Biology of Pomona College is extending the deadline for receipt of applications for a tenure-track assistant professorship in **plant population biology**, beginning fall 1994. Applicants should have broad training in biology; preference will be given to postdoctoral experience. The successful candidate will teach one upper-division course each semester, one in the area of evolution, and one in another area of interest to complement our current offerings. The successful candidate will establish an active research program involving undergraduates; start-up funds are available. *We particularly encourage applications from women and members of underrepresented groups.* The appointee will demonstrate a commitment to teaching an ethnically diverse student body in a liberal arts setting. Since file reading is already under way, applications should be sent as soon as possible and be complete by 31 January 1994. Send curriculum vitae, research plans, statement of teaching interests including specific courses to be taught, and three letters of recommendation to: **Plant Population Biology Search Committee, Department of Biology, Pomona College, Claremont, CA 91711.** Telephone: (909) 621-8555, extension 2950. FAX: (909) 621-8878.

Pomona College is an Affirmative Action/Equal Opportunity Employer.

**PLANT SYSTEMATIST: ASSISTANT PROFESSOR**, tenure-track. Qualifications: Ph.D., expertise in angiosperm systematics with field experience. Teach plant taxonomy, botany and related courses. Develop a graduate research program and strengthen herbarium. Send curriculum vitae, all transcripts, statement of teaching and research interests, reprints and three letters of reference by 1 February 1994 to: **Dr. Julia Bollinger, Chair, Search Committee, Department of Biological Sciences, P.O. Box 599, Arkansas State University, State University, AR 72467-0599.** Telephone: (501) 972-3082, FAX: (501) 972-2638. Affirmative Action/Equal Opportunity Employer. Women and minorities are encouraged to apply.

## POSITIONS OPEN

**ECOSYSTEMS TOXICOLOGIST: ASSISTANT/ASSOCIATE PROFESSOR**, tenure-track. Qualifications: Ph.D. and postdoctoral training in ecotoxicology, aquatic biology, wildlife toxicology or a similar discipline. Duties include teaching environmental core courses, developing an externally funded research program, and advising graduate and professional students. Send curriculum vitae, all transcripts, statement of teaching and research interests, reprints and three letters of reference by 15 February 1994 to: **Dr. Jerry L. Farris, Chair, Search Committee, Department of Biological Sciences, P.O. Box 599, Arkansas State University, State University, AR 72467-0599.** Telephone: (501) 972-3082, FAX: (501) 972-2638. Affirmative Action/Equal Opportunity Employer. Women and minorities are encouraged to apply.

### ASSISTANT PROFESSOR CELLULAR NEUROBIOLOGY

The Department of Biology of Pomona College is extending the period for receipt of applications for a tenure-track assistant professor beginning fall 1994. Applicant should have broad training in biology with extensive training in cellular neurobiology. He/she could use cellular and/or molecular techniques to study questions of nervous system organization, function or development. The successful candidate will teach one upper-division course in neurobiology and one in another area of cell and molecular biology to complement our current offerings. He/she will participate in interdisciplinary programs in Molecular Biology and Neuroscience and must have postdoctoral experience. The successful candidate will establish an active research program involving undergraduates for which start-up funds are available. *We particularly encourage applications from women and members of underrepresented groups.* The appointee will demonstrate a commitment to teaching an ethnically diverse student body in a liberal arts setting. Since evaluation of files is already underway, applications should be sent as soon as possible and be complete by January 31, 1994. Send curriculum vitae, research plans, a statement of teaching interests, including specific courses to be taught, and three letters of recommendation to: **Neurobiology Search Committee, Department of Biology, Pomona College, Claremont, CA 91711.** Telephone: (909) 621-8555, extension 2993. FAX: (909) 621-8878.

### BIOLOGY

The Biology Department at St. Ambrose University invites applications for a tenure-track position at the **ASSISTANT PROFESSOR** level to begin fall 1994. Teaching responsibilities will include non-majors courses and undergraduate majors courses in any of the following: molecular, developmental, or human biology. Ph.D. required. St. Ambrose University is a private Catholic institution of 2,500 students and particularly welcomes candidates who desire to work in such an environment. Please send curriculum vitae and three letters of reference to be received by February 15, 1994, to: **Director of Personnel, St. Ambrose University, 518 West Locust Street, Davenport, IA 52803.** Minorities and women are encouraged to apply. Affirmative Action/Equal Opportunity Employer.

### MICROBIOLOGIST/CELLULAR BIOLOGIST Purchase College State University of New York

The Biology Program of the Division of Natural Sciences invites applications for a tenure-track **ASSISTANT PROFESSORSHIP** available September 1994. A Ph.D., teaching experience, and research experience are required. Specialization is preferred in areas of overlap between microbiology and cell biology. The establishment of an active research program that will involve undergraduates is expected. Laboratory facilities include cell culture equipment, ultracentrifuge, isotope facility, liquid scintillation counter, HPLC, electron microscopes, etc. Teaching responsibilities will include Microbiology, Cell Biology, and participation in our freshman courses. Send curriculum vitae, graduate transcripts, summary of research plans, statement of teaching interests, and arrange for three letters of recommendation to be sent to: **Biology Search Committee, c/o Personnel Office, Purchase College, State University of New York, 735 Anderson Hill Road, Purchase, NY 10577-1400.** Review of applications will begin February 1, 1994, and continue until position is filled. Purchase College is an Affirmative Action/Equal Opportunity Employer.

## POSITIONS OPEN

### TENURE-TRACK ASSISTANT PROFESSOR

The Department of Biochemistry at the University of Kentucky has a full-time faculty position open at the **ASSISTANT PROFESSOR** level. The successful candidate will be expected to pursue independently funded research and to participate in departmental teaching activities. *Women and minorities are encouraged to apply.* Interested persons should submit curriculum vitae, a summary of research interests, and recommendation letters from at least three references to: **Faculty Search Committee, Department of Biochemistry, University of Kentucky Medical Center, Lexington, KY 40536-0084.** An Equal Opportunity/Affirmative Action Employer.

**MOLECULAR PHYSIOLOGIST.** Tenure-track **ASSISTANT PROFESSOR** position available August 1994. Preference given to applicants with postdoctoral experience and whose research employs molecular methods to address aspects of signal transduction in animal or plant systems. Teaching responsibilities include an undergraduate course in general biology and physiology, and an upper-division/graduate course in specialty area. Candidate is expected to obtain extramural research funding and supervise M.S. and Ph.D. students. Submit curriculum vitae, statement of research interests, reprints, and three letters of reference by February 7, 1994, to: **Dr. Stan Smith, Search Committee Chair, Department of Biological Sciences, Bowling Green State University, Bowling Green, OH 43403-0212.** Affirmative Action/Equal Opportunity Employer.

### RESEARCH ASSISTANT PROFESSOR (Non-tenured)

A non-tenured position is available at the University of Illinois at Chicago for a virologist with experience with hepatitis B virus (HBV). The principal responsibility of this position is to design assays to identify and characterize the anti-HBV activity of plants selected because of their ethnotherapeutic indication against viral hepatitis. Interaction and collaboration with virologists within the university as well as outside is expected. Preferred candidates will have a Ph.D. degree with at least two years of postdoctoral experience in the molecular virologic and genetic aspects of HBV replication. Experience with HBV propagation in cell culture and nucleic acid hybridization and Western blot analyses is also desirable. Please submit applications by March 1, 1994. Anticipated starting date is April 1, 1994. Send résumé with names and telephone numbers of two references to: **Dr. John M. Pezzuto, University of Illinois at Chicago, Department of Medicinal Chemistry and Pharmacognosy, College of Pharmacy, 833 South Wood Street, Chicago, IL 60612-7231.** The University of Illinois is an Equal Opportunity/Affirmative Action Employer.

**FACULTY POSITION, CARDIOVASCULAR MOLECULAR/CELLULAR BIOLOGY.** Department of Medicine, Brigham & Women's Hospital/Harvard Medical School, invites applications for a faculty member at the **ASSISTANT** or **ASSOCIATE PROFESSOR** level. Candidates will be expected to develop a strong research program in cardiovascular molecular biology and will be in a multidisciplinary program in myocardial hypertrophy, heart failure, and ischemia. *Women and members of minority groups are encouraged to apply.* Affirmative Action/Equal Opportunity Employers.

Candidates should send curriculum vitae to: **Dr. Stephen F. Vatner, Chair, Search Committee, Professor of Medicine, Harvard Medical School, Brigham & Women's Hospital, NERPRC, One Pine Hill Drive, Southboro, MA 01772.**

**ASSISTANT PROFESSOR, CARDIOVASCULAR MOLECULAR BIOLOGY.** The Cardiac Molecular and Cellular Biology Program at Wayne State University School of Medicine is seeking applications from outstanding individuals with research interests in cardiovascular gene regulation, signal transduction, gene therapy, or related areas. Excellent facilities and a stimulating environment are present in the Program. Applicants should send curriculum vitae, a brief description of present and future research directions and names of three references to: **James D. Marsh, M.D., Director of Cardiology Research, Department of Medicine, Wayne State University School of Medicine, 421 East Canfield Avenue, Detroit, MI 48201.** Wayne State University is an Affirmative Action/Equal Opportunity Employer and encourages applications from women and minorities.



# The Fellowship Program in Academic Medicine for Minority Students

Sponsored by **Bristol-Myers Squibb Company**  
Established by **The Commonwealth Fund**

## In Recognition of the 1993 Academic Medicine Fellows

**The following students were selected from a pool of applicants from 55 medical schools to receive grants for academic medicine and biomedical research.**

John F. Ansley  
Cornell '94

Lori Balestrero  
Dartmouth '94

Darnell E. Blackmon  
Meharry '95

Raquel Bolado  
Ohio College of Osteopathic  
Medicine '94

Judith D. Boston  
George Washington '95

Anthony S. Burns  
Yale '94

Darrell Calderon  
Michigan '94

Angelica Carranza  
UCLA '95

Camille G. Cash  
Baylor '95

Levi S. Downs, Jr.  
Pittsburgh '94

Nicole Evans  
Temple '95

Henry C. Flores  
Minnesota '94

Christopher R. Flowers  
Stanford '96

John Francis  
Loma Linda '95

Kathleen Gilmore  
Wayne State '95

Arlus D. Gunter  
Michigan State '95

Langston Holly  
UCLA '95

Mark D. Johnson  
Harvard '95

Michael E. Jones  
Columbia '94

Robinlyn Kagaruki  
Nebraska '95

Monica M. Lee  
Wayne State '95

Cynthia L. Long  
Case Western Reserve '95

Terry S. Lowery  
North Carolina '95

Lisa M. Maddox  
Pittsburgh '95

Kerline Marcelin  
Mt. Sinai '95

Angela B. Nahl  
Chicago '96

Jean Pierre-Louis  
New York University '95

Isaiah Pittman  
Chicago '95

Maria J. Small  
East Carolina '94

Chandrea Smothers  
Duke '95

Lori A. Smith  
Johns Hopkins '95

Darryl B. Thomas  
Johns Hopkins '95

Sharon Waters  
UMDNJ - New Jersey  
Medical School '95

Lawrence Woodard, Jr.  
Duke '94

Colby P. Young  
Ohio State '94

Sponsored by Bristol-Myers Squibb Company and established by The Commonwealth Fund, the Fellowship Program in Academic Medicine for Minority Students provides opportunities for men and women of four under-represented groups in American medicine (African-American, mainland Puerto Rican, Mexican-American and Native American) to pursue careers in academic medicine and research.

Students honored as fellows receive a stipend to use for a research project under the guidance of experienced biomedical researchers. Fellows present their findings at an annual symposium, providing valuable experience in preparing and discussing research.

Bristol-Myers Squibb Company is a research-based, diversified health care organization specializing in pharmaceuticals, consumer products, nutritionals and medical devices. The Company has supported the Fellowship Program in Academic Medicine for Minority Students since 1990.

The Commonwealth Fund, a national philanthropy located in New York City, was founded in 1918 to enhance the common good. Celebrating its 75th anniversary, the Fund's major programs focus on health, aging and youth issues.

If you are approaching your second or third year of medical school and are of African-American, mainland Puerto Rican, Mexican-American or Native American descent, information can be obtained from: **The Fellowship Program in Academic Medicine for Minority Students, National Medical Fellowships, Inc., 254 West 31st Street, 7th Floor, New York, NY 10001. (212) 714-0933.**



**Bristol-Myers Squibb Company**

Bristol-Myers Squibb Company continues to show its commitment to quality education and opportunity for minorities through financial support to nonprofit institutions including scientific, medical, educational, charitable and cultural organizations.

**National Center for Supercomputing Applications, UIUC  
Applications Group  
Position Notice**

**Research Programmer—  
(Specializing in Numerical Simulation)**

Research Programmer, Numerical Simulation, Computational Biology Group at National Center for Supercomputing Applications. Develop massively parallel application codes in computational neurobiology, ecology, biomolecular structure and function. Consult with NCSA, Illinois and national community of scientists. Degree in related field and experience in parallel computing.

Salary commensurate with experience. Starting date as soon as possible.

To ensure full consideration, please send letter of application, résumé, electronic mail address, and three letters of reference by *Monday, January 31, 1994*, to:

**Human Resources Office, search #3971  
NCSA, 152 Computing Applications Building  
605 East Springfield Avenue  
Champaign, Illinois 61820  
217/333-6085**

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

**National Center for Supercomputing Applications, UIUC  
Applications Group  
Position Notice**

**Research Programmer—  
(Specializing in Biological Databases)**

Research Programmer, Biological Databases, Computational Biology Group at National Center for Supercomputing Applications. Develop multimedia server and interface for biology databases. Work with NCSA, Illinois and national community of scientists in molecular biology, cell biology, and neuroscience. Degree in related field and relevant experience in computing.

Salary commensurate with experience. Starting date as soon as possible.

To ensure full consideration, please send letter of application, résumé, electronic mail address, and three letters of reference by *Monday, January 31, 1994*, to:

**Human Resources Office, search #3972  
NCSA, 152 Computing Applications Building  
605 East Springfield Avenue  
Champaign, Illinois 61820  
217/333-6085**

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

**National Center for Supercomputing Applications, UIUC  
Applications Group  
Position Notice**

**Research Programmer—  
(Specializing in Computational Biology)**

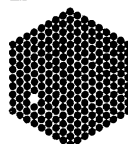
Research Programmer, Computational Structural Biology, Computational Biology Group at National Center for Supercomputing Applications. Computational enhancement of NMR and x-ray structural data. Emphasis on meeting computational needs of Advanced Photon Source at Argonne National Labs. Degree in related field and relevant experience in high performance computing.

Salary commensurate with experience. Starting date as soon as possible.

To ensure full consideration, please send letter of application, résumé, electronic mail address, and three letters of reference by *Monday, January 31, 1994*, to:

**Human Resources Office, search #3973  
NCSA, 152 Computing Applications Building  
605 East Springfield Avenue  
Champaign, Illinois 61820  
217/333-6085**

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



**EMBL  
HAMBURG OUTSTATION**

**POSTDOCTORAL EC  
RESEARCH FELLOWSHIPS**

The European Molecular Biology Laboratory, an international research organization situated in Heidelberg, Germany, has two postdoctoral fellowships available in the Laboratory's outstation at the Deutsches Elektronensynchrotron (DESY) in Hamburg. The outstation is concerned with the application of synchrotron radiation to molecular biology. There are currently five scientific groups in protein crystallography, EXAFS, small angle scattering, muscle and instrumentation. The fellowships can be held in any of these groups. The laboratory has its own beam lines for each of the applications.

**Applicants should have a Ph.D. in a relevant field and must be EC citizens.** As an inclusive international organization, EMBL encourages applications from all qualified applicants, including women and nationals of Southern European or other currently underrepresented member states.

The net salary will be equivalent to that for EMBO/EMBL postdoctoral fellows.

Informal enquiries about the posts may be made to Dr. K.S. Wilson, Tel: +49 40 899020, Fax +49 40 89902149, email: Keith@EMBL-HAMBURG.DE

The contract will be for 1 year in the first instance, renewable for a second year. Applications including a CV, previous research activities and the names and addresses of two referees should be sent to the Personnel Section by 15.02.1994, quoting ref. no: 94/PD/1.

EMBL  
Personnel Section,  
Postfach 10 22 09  
D-69012 Heidelberg  
Germany

**TENURE-TRACK FACULTY POSITION AT CARB  
COMPUTATIONAL BIOCHEMISTRY  
AND MODELING**

The Center for Advanced Research in Biotechnology (CARB) is seeking outstanding candidates for a tenure-track faculty position in computational chemistry and molecular modeling applied to problems in macromolecular structure and function. Individuals with demonstrated ability for creative research and strong interests in the broad areas of molecular dynamics, molecular recognition and docking, macromolecular structure prediction, and theoretical approaches to drug design and protein engineering are invited to apply. We are especially seeking a scientist who will develop new computational approaches using advanced high-performance computing tools including scalable parallel computer architectures. The successful candidate will be expected to develop a strong, independent, externally-funded research program, and to interact with other CARB scientists involved in macromolecular crystallography, high-field NMR spectroscopy, molecular biology, physical biochemistry, computational chemistry, and protein folding, stability, modeling and engineering. CARB is a joint research center of the National Institute of Standards and Technology and the University of Maryland Biotechnology Institute devoted to fundamental problems of macromolecular structure, function, and engineering. Interested candidates should send a curriculum vitae, three letters of reference, and a summary of research interests and plans to:

Faculty Search Committee  
Center for Advanced Research and Biotechnology  
9600 Gudelsky Drive  
Rockville, MD 20850

Review of applications will begin on February 15, 1994. CARB is an Equal Opportunity/Affirmative Action Employer. Women and minority candidates are encouraged to apply. Preference will be given to applicants who are U.S. citizens.

# DISEASE GENE DISCOVERY

Millennium is a rapidly growing biopharmaceutical company researching the genetic basis of common diseases and developing therapeutics using this understanding. This exciting approach is laying the foundation for progressive achievements in drug discovery and development.

As a privately held, start up company with outstanding resources provided by our new state-of-the-art facility in Cambridge, we are firmly positioned to become the worldwide leader in the application of modern genetic technology to the development of pharmaceuticals. Discover the rewards and realize your career goals in an environment that promotes applied science and a collaborative team approach.

Enjoy the rewards of an innovative environment, the challenge of progressive science, the incentive of stock ownership, and a generous compensation package; publications in leading scientific journals actively encouraged. Please fax or send your C.V. indicating position code to:  
**Millennium Pharmaceuticals Inc.,**  
**Human Resources, 640 Memorial Drive, 5th Floor,**  
**Cambridge, MA 02139; FAX: (617) 374-9379.**  
An Equal Opportunity Employer, M/F/D/V.

## GENE DISCOVERY/GENOMICS **SCIENTISTS**

As a scientist in our genomics group, you will participate in a multi-faceted program directed toward the identification and cloning of disease-related genes. We are looking for individuals with abilities in each of the following areas: YAC construction, gene-mapping expertise, cDNA library construction and screening, high-throughput automated sequencing, mouse genetics and human genetics. **SC94-01.**

## **RESEARCH ASSOCIATES**

In the cDNA core group, you will use your extensive knowledge of both construction and screening of cDNA libraries for the purpose of new gene discovery. You will also work to further develop and automate these technologies. BS/MS with 5+ years' relevant experience. **SC94-02.**

## **RESEARCH ASSOCIATES**

Within our genotyping group, you will have the opportunity to participate in state-of-the-art, high-throughput, mouse and human positional cloning programs. BS/MS in biological sciences. **SC94-03.**

## BIOLOGY

### **SCIENTISTS**

**Immunology, Obesity, Diabetes, Cardiovascular, Oncology, Neurobiology**

As a Ph.D. with Post Doctoral experience, you will take a lead role in exploring the molecular mechanisms of various disease states, while establishing independent research programs and collaborations. You will make extensive use of core facilities and gene discovery programs within the genomics group. You must have in-depth experience in mammalian molecular biology and cell biology. **SC94-04.**

### **RESEARCH ASSOCIATES**

BS/MS level scientist with 5 years' experience in Molecular Biology, Biochemistry or Biology. Must be flexible, and excel in some of the following areas; molecular cloning, PCR, YACs, protein chemistry, prokaryotic/eukaryotic expression systems, constructing and screening cDNA and genomic libraries, and in situ hybridization. **SC94-05.**

## GENETIC EPIDEMIOLOGIST **SCIENTIST**

We are looking for an individual with experience in modern methods of genetic epidemiology. The ideal candidate will have post-doctoral experience and research interest in analysis of complex traits in human populations. Knowledge of non-parametric methods, linkage analysis and related analytic methods is essential. The candidate is expected to assume a prominent position in the human genetics program as well as in the development of a world class bioinformatics group. **SC94-06.**

## BIOINFORMATICS

### **SCIENTIST**

Innovative individual with expertise in building and maintaining databases, database management, and maximizing user interface. Must have proven experience in C, C++ programming. A working knowledge of object oriented programming highly desirable. MS in computer science along with 3 + years of relevant experience. **SC94-07.**

## TRANSGENICS

### **SCIENTIST**

Primary responsibility will be in the establishment of transgenic and gene targeted mouse lines. Ph.D degree with outstanding molecular biology experience; 2-4 years of appropriate post doctoral experience; experience in ES Cell work. Knowledgeable in the use of homologous recombination for gene targeting. Experience in manipulation of mouse embryos, surgery and breeding. Mouse embryology experience desirable. Knowledge in the use of recombinase systems for the manipulation of gene expression is desirable. **SC94-08.**



**MILLENNIUM**  
**PHARMACEUTICALS**  
**Pathways To Discovery**

## POSITIONS OPEN

### TWO TENURE-TRACK ASSISTANT PROFESSORSHIPS UNIVERSITY OF SAN DIEGO (USD)

Department of Chemistry invites applications for two tenure-track positions at the assistant professor level effective fall 1994. Position (1): Primary teaching duties to include instrumental and quantitative analysis, with special expertise in NMR spectroscopy. Position (2): Primary responsibility for upper-division biochemistry courses and ability to teach general chemistry, lecture and laboratory. USD is an independent Catholic University with 6000 students. The chemistry program is ACS approved. Successful applicants must have a Ph.D., a strong commitment to quality undergraduate teaching, and will be expected to seek outside funding for an active undergraduate research program. Letter of application along with curriculum vitae, graduate and undergraduate transcripts, and statement of research and teaching goals should be sent to: Chemistry Search Committee, University of San Diego, Department of Chemistry, 5998 Alcalá Park, San Diego, CA 92110-2492. Indicate three people who will send reference letters to above address. Review of applications will begin immediately and continue until February 18, 1994. *Affirmative Action/Equal Opportunity Employer.*



### ASSISTANT/ASSOCIATE PROFESSOR PHARMACOLOGY

Applications are invited for a tenure-track position in the Department of Pharmacology at the State University of New York Health Science Center at Syracuse available in the spring 1994. Applicants should have an M.D. or Ph.D. degree and a minimum of 2 years of postdoctoral experience. This position is part of the Department's effort to enhance its excellence in research and teaching in cardiovascular biology and pharmacology. The successful candidate would be expected to develop a strong research program in cardiac electrophysiology, and to assume teaching responsibilities including the Pharmacology Course to MSII students, as well as supervision of graduate students and postdoctoral fellows. Applicants should send curriculum vitae, three letters of reference, a description of past experience and present and future research interests, by February 15, 1994, to: Search Committee, Department of Pharmacology, State University of New York, Health Science Center, 766 Irving Avenue, Syracuse, NY 13210. *An Affirmative Action/Equal Employment Opportunity/ADA Employer, committed to excellence through diversity.*

**BIOLOGY ASSISTANT PROFESSOR.** Southern Oregon State College has 2 tenure-track teaching positions starting September 16, 1994. (1) *Invertebrate zoology/entomology.* (2) *Vertebrate anatomy/fish biology/aquatic biology.* Ph.D. required in biological science with advanced training in specialties. Candidates with experience in environmental education at graduate level are encouraged to apply for either position.

Preference given to applications received before February 1, 1994. Send letter describing teaching interests and scholarly plans, curriculum vitae, list of pertinent courses taken and names, addresses and telephone numbers of 3 professional references to: **Biology Searches, Department of Biology, Southern Oregon State College, Ashland, OR 97520.** Indicate position of interest on the envelope.

*An Affirmative Action/Equal Opportunity Employer committed to development of an inclusive, multicultural community.*

Buena Vista College invites applications for a tenure-track position in biology at the **ASSISTANT PROFESSOR** level to begin in fall 1994. The successful candidate will be expected to develop an active research program involving undergraduate students. Training in molecular biology is highly desired. Candidates should be prepared to teach molecular biology, genetics, microbiology, introductory botany, and introductory biology to general education students. Ph.D. in some field of biology required at time of appointment.

Buena Vista College is an undergraduate institution of 1000 that seeks to attract quality students who desire professional career preparation with a strong liberal arts base. Applicants should send curriculum vitae, three letters of recommendation, and transcripts to: Benjamin B. Donath, Associate Dean of Faculty, Buena Vista College, Storm Lake, IA 50588. Review of applications will begin February 4, 1994, and continue until position is filled. *Affirmative Action/Equal Opportunity Employer.*

## POSITIONS OPEN

### MOLECULAR FOREST BIOLOGIST

**ASSISTANT/ASSOCIATE PROFESSOR.** Molecular Biology, Tenure-track. Candidates are expected to establish a research program to supplement a multidisciplinary team focused on utilizing molecular techniques for improvement of southern pines and to teach a graduate course in the area of expertise. The program is expected to use recombinant DNA technology to elucidate and manipulate genes of economic importance and to secure extramural funding. A newly equipped laboratory in a recently completed crop biotechnology facility, support staff and start-up funds are available. Ph.D. in molecular biology, plant physiology, biochemistry, forestry, genetics, or a related field is required. Salary commensurate with experience. Applicants should submit a letter of application, including a brief statement of current and future research direction, résumé, and names and addresses of three professional references to: **Ronald J. Newton, Chair, Search Committee, Department of Forest Science, Texas A&M University, College Station, TX 77843-2135; Telephone: (409) 845-8279, FAX: (409) 845-6049.** Closing date: 1 April 1994, or until a qualified candidate is identified.

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

Applications are invited for a **BIOCHEMISTRY** tenure-track position at the level of **ASSISTANT PROFESSOR**, beginning August 1, 1994. The successful candidate will be required to establish an externally funded research program and to teach introductory biochemistry and/or physical biochemistry. Preference will be given to candidates studying macromolecular interactions, *in vivo* or *in vitro*. Concordia University is an English-speaking university located in downtown Montreal. *In accordance with Canadian immigration requirements, priority will be given to Canadian citizens and permanent residents. Concordia University is committed to employment equity and encourages applications from women, aboriginal peoples, visible minorities and disabled persons.* The closing date for applications is February 1, 1994. Send applications, including curriculum vitae and statement of research interests, and three letters of recommendation to: **Dr. Judith Kornblatt, Department of Chemistry and Biochemistry, Concordia University, 1455 de Maisonneuve Boulevard, West, Montreal, Quebec, H3G 1M8 CANADA.**

### The University of North Carolina at Greensboro ASSISTANT PROFESSOR BIOPHYSICS

The Department of Physics and Astronomy has a nine-month tenure-track position (including start-up funds) beginning 1 August 1994. We seek an individual who has the Ph.D. and will: (1) develop a research program related to one of the following areas: Neurobiology, Nuclear Magnetic Resonance, Image Analysis, or Biotechnology. (2) Interact with faculty and students in physics and biology. (3) Teach undergraduate and graduate courses in physics and biophysics. Postdoctoral experience is strongly recommended. Applicants should submit a statement of research and teaching interests, curriculum vitae, reprints, and three letters of reference by 15 February 1994 to: **Professor Gaylord T. Hagefeth, Department of Physics and Astronomy, UNCG, Greensboro, NC 27412.**

*Equal Employment Opportunity/Affirmative Action; W/M/V/D.*

### ASSISTANT PROFESSOR

The Department of Food Science and Nutrition, University of Minnesota, seeks a food scientist for 12-month, tenure-track position. Ph.D. in food science, microbiology, biochemistry, or related field is required by the starting date. Prefer primary interest in microbiology/molecular biology. Candidate must establish externally funded research program focusing on molecular biology as applied to food science, complementing and diversifying work in progress in the Department; teach undergraduate microbiology and food science courses, advise undergraduates and direct M.S./Ph.D. students. Postdoctoral or industrial experience preferred. By May 1, 1994, send curriculum vitae, publication list, research interest statement, and names and addresses of three references to: **Dr. Larry McKay, Department of Food Science and Nutrition, University of Minnesota, 1334 Eckles Avenue, St. Paul, MN 55108.** Appointment available September 1, 1994. *The University of Minnesota is an Equal Opportunity Educator and Employer.*

## POSITIONS OPEN

### ASSISTANT PROFESSOR DEPARTMENT OF MEDICINE UNIVERSITY OF UTAH

Faculty position available immediately for a Ph.D.-level molecular biologist in the Division of Hematology-Oncology, Department of Medicine. The candidate must have expertise in molecular biology, particularly human gene cloning. Qualifications include a Ph.D. and at least two years of postdoctoral experience. The successful candidate will join an already functioning laboratory that is preparing to locate and clone the genes encoding the human minor histocompatibility loci. Three years of support and appropriate start-up funding will be provided. Applications will be accepted until February 1, 1994, or until a suitable candidate is identified. *The University of Utah is an Affirmative Action/Equal Opportunity Employer and encourages applications from women and minorities.* Please send a letter of interest and curriculum vitae to:

**Patrick G. Beatty, M.D., Ph.D.**  
Director, Bone Marrow Transplant Program  
Division of Hematology-Oncology  
University of Utah Medical Center  
Salt Lake City, UT 84132

The Department of Biology at Tennessee Technological University invites applications for a full-time, tenure-track position at the **ASSISTANT PROFESSOR** level beginning August 1994. The person hired will teach introductory zoology and upper-division and graduate-level invertebrate zoology courses. He/she is expected to conduct independent research and direct M.S.-level graduate students. Applicants must have a Ph.D. in Zoology or related field with a strong interest in environmental biology, experience preferred. Submit letter of application describing teaching experience and research interests, together with curriculum vitae, unofficial transcripts, and names and addresses of three references to: **Faculty Search Committee, Department of Biology, Box 5063, Tennessee Technological University, Cookeville, TN 38505.** Initial screening will begin on 15 February 1994, and will continue until the position is filled. *An Affirmative Action/Equal Employment Opportunity/ADA Employer.*

### MOLECULAR BIOLOGIST

The Biology Department of Seattle University seeks applicants for a full-time, tenure-track position at the **ASSISTANT PROFESSOR** level, to begin September 1994, contingent on budget approval. Qualifications include a Ph.D. in biological science, with expertise in **molecular biology.** Candidates should have strong interest and skill in undergraduate teaching and the ability to maintain a modest research program involving undergraduates. Teaching responsibilities include Molecular Genetics, Recombinant DNA Methodology and General Biology.

*Seattle University is a metropolitan, Jesuit, teaching university serving approximately 3,500 undergraduates, of whom more than 50% are women and more than 25% are noncaucasian. The University strives to develop a campus community in which all faculty, staff and students feel welcome, supported and valued. Additional minority faculty are especially needed to assist in making this commitment a reality.* Applicants should send curriculum vitae, transcripts and three letters of reference to: **Dr. Daniel B. Matlock, Department of Biology, Seattle University, Seattle, WA 98122-4460; Telephone: (206) 296-5490; E-Mail: matlock@bach.seattleu.edu, FAX: (206) 296-2179, by February 5, 1993.**

**IMMUNOLOGIST, ASSISTANT PROFESSOR,** tenure-track, to teach a course in Immunology and participate in the introductory course for majors. Other teaching may include one or more of the following: Cell Biology, Genetics, Parasitology, Hematology, or Urinalysis. Direction of undergraduate research is required. A Ph.D. in one of the biological sciences must be completed by September 1, 1994. A complete application will include: (1) a letter of application with a statement of teaching and research interests, (2) current curriculum vitae, and (3) three letters of reference from individuals familiar with the candidate's teaching and/or research. Send to: **Immunologist Search, Affirmative Action Office, Winona State University, P.O. Box 5838, Winona, MN 55987.** Application review begins February 21, 1994. *An Affirmative Action/Equal Employment Opportunity Employer.*

# ***Pfizer Research Awards in Synthetic Organic Chemistry***

*Pfizer is pleased to announce these awards which recognize  
excellence in synthetic organic chemistry and the central role  
of this science in biomedical research and development*

## **– Senior Faculty Awardees –**

### ***Steven D. Burke***

Professor of Chemistry  
University of Wisconsin, Madison

### ***Elias J. Corey***

Sheldon Emory Professor of Chemistry  
Harvard University

### ***Samuel J. Danishefsky***

Director of the Laboratory  
for Bioorganic Chemistry  
Sloan Kettering Institute  
and  
Professor of Chemistry  
Columbia University

### ***David A. Evans***

Abbott and James Lawrence Professor  
of Chemistry  
Harvard University

### ***Clayton H. Heathcock***

Professor of Chemistry  
University of California, Berkeley

### ***Kyriacos C. Nicolaou***

Chairman and Darlene Shiley Professor  
of Chemistry  
The Scripps Research Institute  
and  
Professor of Chemistry  
University of California, San Diego

### ***Barry M. Trost***

Job and Gertrud Tamaki Professor  
of Humanities and Sciences  
Stanford University

## **– Young Faculty Awardees –**

### ***Amir H. Hoveyda***

Assistant Professor of Chemistry  
Boston College

### ***Eric N. Jacobsen***

Professor of Chemistry  
Harvard University

### ***Andrew G. Myers***

Associate Professor of Chemistry  
California Institute of Technology

### ***Scott D. Rychnovsky***

Associate Professor of Chemistry  
University of Minnesota

### ***Scott Virgil***

Assistant Professor of Chemistry  
Massachusetts Institute of Technology





# EASTERN

EASTERN WASHINGTON UNIVERSITY

CHENEY • SPOKANE

DEAN

## COLLEGE OF SCIENCE, MATHEMATICS, & TECHNOLOGY

Eastern Washington University invites applications and nominations for the position of Dean of the College of Science, Mathematics, & Technology.

### The University:

Eastern Washington University is the comprehensive university serving eastern Washington. Established in 1882, the university is uniquely situated with a dual campus setting that provides Eastern the opportunity to tailor its baccalaureate and masters degree programs to maximize the advantages of its rural environment in Cheney with the urban and professional opportunities of Spokane, Washington. This region of the inland northwest provides a wide variety of high quality recreational, cultural, and living opportunities. EWU currently enrolls about 8,500 students, of which about 15% are graduate students and 10% are foreign and out-of-state students. The College of Science, Mathematics, & Technology consists of approximately 115 faculty and staff in the departments of Biology, Chemistry/Biochemistry, Computer Science, Geology, Mathematics, Physics, and Technology.

### Responsibilities:

The dean is the chief administrative officer of the college, reports to the Senior Vice President for Academic Affairs and Provost and is a member of the Advisory Board of the Spokane Intercollegiate Research and Technical Institute. The dean is expected to provide academic leadership and is responsible for the development of research, grants and contracts, internships, scholarship opportunities for the college, and nurturing relationships with business and industry.

### Qualifications:

- An earned doctorate in a discipline appropriate to the college;
- A record of scholarly achievement and effective teaching sufficient to achieve tenure and appointment as a full professor in a department of the college;
- A record of administrative leadership relevant to the position;
- A record which demonstrates a commitment to the recruitment and retention of a diverse, high quality faculty and student body;
- A record of success in promoting and securing external funding to support faculty, students, and college programs;
- Candidates must have the ability to communicate effectively with faculty, staff, and students within the college and university, to work creatively and effectively with the college administrators, and to be an effective advocate for the college and university to its external public.

### Salary:

The salary will be competitive and commensurate with qualifications and experience.

### Applications and Nominations:

Applicants and nominations must provide:

- A letter of application
- A current resume or curriculum vitae
- At least three letters of reference from knowledgeable individuals who can attest to the candidate's qualifications for this position.

Screening will begin February 15, 1994. The position is open until filled.

Applications and nominations should be sent to:

Dr. Richard Curry  
Chair, Dean of SM&T Search Committee  
Eastern Washington University  
MS# 174  
Cheney, WA 99004-2495

*Eastern Washington University is an  
Affirmative Action/Equal Opportunity Employer.*

# INTELLIGENT MEDIA

The MIT Program in

## Media Arts and Sciences

in conjunction with

## The Media Laboratory

seeks candidates for four  
tenure-track faculty positions,  
principally at the Assistant Professor level.

## Learning and Common Sense

reasoning in either humans or machines

## Perceptual Computing

especially auditory or multimodal

## Information and Entertainment

especially artistic, communication, and  
interactive technologies

Candidates' research should focus on the  
design and creative use of new enabling  
technologies for interaction, communication,  
expression and learning.

Applicants should have a PhD (or equivalent)  
in a relevant field, a strong record of research  
related to any of the themes described above,  
and first-hand experience in defining and  
establishing new, innovative, and controversial  
ideals. Teaching experience at the university  
level is desired. Responsibilities include  
research, teaching (graduate seminars and  
undergraduate courses), and supervision of  
students.

Qualified candidates should submit a resume,  
representative materials, the names of three  
references, and a concise summary of  
research directions and teaching interests.

Inquiries or electronic submissions should be  
sent to: [search@media.mit.edu](mailto:search@media.mit.edu).

Documents must be received by March 1:  
Professor Whitman Richards, Chair  
Faculty Search Committee  
MIT Media Laboratory, E15-416  
20 Ames Street  
Cambridge, Massachusetts 02139-4307

Qualified women and minority candidates  
are especially encouraged to apply. MIT is an  
equal-opportunity/affirmative-action  
employer.

Massachusetts Institute of Technology

Scientific excellence in a progressive, collaborative research environment is a valued part of Amgen's corporate culture. As a global leader in biotechnology, our substantial investment in R&D provides outstanding resources for innovative, self-motivated scientists. Amgen's commitment to significantly expand efforts in developing novel, breakthrough therapeutics has created numerous career opportunities in our

## ***Inflammation Research Group***

Research Scientists - (PhD) plus Postdoctoral experience.

Research Associates - (BS/MS) plus Laboratory experience.

### **Molecular Biology**

Experience in PCR, cDNA cloning, hybridization and library construction is required. Knowledge of expression in mammalian cells or *E. coli* and subsequent gene product characterization is desired. (Job Code OA-SC-MZ-001)

### **Cell Biology**

Experience in cell culturing, hybridoma generation, characterization of monoclonal antibodies or adhesion and lymphocyte proliferation assays is required. (Job Code OA-SC-MZ-002)

### **Biochemistry**

Experience in purification, characterization and identification in one or more of the following areas: protein chemistry, carbohydrate chemistry or lipid chemistry is required. (Job Code OA-SC-MZ-003)

### **Biomolecular Assays**

Experience in microplate assays, antibody purification and tissue culture. Knowledge of mammalian cell expression and molecular biology is desired. (Job Code OA-SC-RN-003)

### **Cell-based Assays**

Experience in mammalian cell adhesion assays, cell separations, cell culture and transfection required. Must have experience in state-of-the-art molecular biology techniques, including PCR, Northern blotting and site-directed mutagenesis. (Job Code OA-SC-RN-002)

### **LIMS and Robotics**

Database and programming expertise and experience commensurate with information management in a highly automated laboratory setting required. (Job Code OA-SC-RN-005)

### **Assay Automation Development**

Substantial experience in assay design and development (ELISA, RIA, cell activation, cell adhesion). Experience in assay automation and high-throughput assay systems highly desirable. (Job Code OA-SC-RN-006)

Please FAX OR mail your resume/curriculum vitae 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. Please, principals only.

The Amgen logo consists of the word "AMGEN" in a bold, sans-serif, uppercase font. A registered trademark symbol (®) is located at the bottom right of the letter "N".

We are an equal opportunity employer M/F/D/V.

## POSITIONS OPEN

### ASSISTANT PROFESSOR

Department of Microbiology and Immunology

Applications are invited for a three-year non-tenure-track appointment as an Assistant Professor in the Department of Microbiology and Immunology effective July 1, 1994. Duties involve teaching introductory biochemistry and sections of introductory microbiology. There will be an opportunity for research. Applicants should have a Ph.D. and be effective at teaching large introductory lecture courses.

In accordance with Canadian Immigration requirements, priority will be given to Canadian citizens and permanent residents of Canada. The position is subject to final budgetary approval. Please submit application, together with the names of three references to: Dr. Julian E. Davies, Head, Department of Microbiology and Immunology, University of British Columbia, #300-6174 University Boulevard, Vancouver, B.C. CANADA V6T 1Z3. Applications should be received by May 15, 1994.

The University of British Columbia welcomes all qualified applicants; especially women, aboriginal people, visible minorities, and persons with disabilities.

### ENVIRONMENTAL SCIENCE/STUDIES

Occidental College invites applications for a tenure-track position in Environmental Science and Studies at the ASSISTANT or ASSOCIATE PROFESSOR level. Occidental is a liberal arts institution strongly committed to multicultural education, excellent teaching, and undergraduate research. Duties will include directing a new interdisciplinary program in Environmental Science/Studies; teaching in the candidate's area of specialization and in an introductory environmental science/studies course; and developing a rigorous research program involving undergraduates. Candidates should hold a Ph.D. in environmental science or a related area. We prefer an individual with demonstrated excellence in teaching and research in his/her field; interest in one or more other environmental areas (such as aesthetics, economics, ethics, or law) is desirable. Applicants should send curriculum vitae, statement of research and teaching interests, copies of significant publications, and three letters of reference (sent independently by persons familiar with their work) to: John Swift, Associate Dean of the Faculty, Occidental College, 1600 Campus Road, Los Angeles, CA 90041, by January 28, 1994. Occidental College is an Affirmative Action and Equal Opportunity Employer; women and minorities are strongly encouraged to apply.

### RESEARCH FACULTY

The Department of Psychiatry at Northwestern University is recruiting for an endowed faculty position at ASSISTANT/ASSOCIATE PROFESSOR level. Candidates must have capabilities in basic research relevant to neurobiology of bipolar disorder. Range of research interests considered if focused on affective disorders. Applications accepted from Ph.D.'s/M.D.'s. Northwestern University is Affirmative Action/Equal Opportunity Employer. Hiring contingent on eligibility to work in United States. Send curriculum vitae to: Bill McKinney, M.D., Department of Psychiatry, Northwestern University, Passavant 554, 303 East Superior, Chicago, IL 60611.

ASSISTANT PROFESSOR OF BIOLOGY. Applications are invited for a one-year sabbatical replacement position anticipated to begin September 1994. Ph.D. required. Salary competitive and consistent with level of experience. Teaching responsibilities will include cell biology and immunology. Kalamazoo College is a highly selective, nationally known liberal arts college that takes pride in its tradition of outstanding undergraduate science education. Candidates are expected to have high aptitude and interest in undergraduate teaching, a commitment to the liberal arts, and a desire to involve undergraduates in scholarship both inside and outside the classroom. Completed applications received by February 15, 1994, will receive full consideration, with later applications reviewed as needed until the position is filled. Send letter of application, curriculum vitae, undergraduate and graduate transcripts (unofficial accepted), statement of teaching philosophy and research interests, and three letters of recommendation to: Dr. Carolyn R. Newton, Department of Biology, Kalamazoo College, Kalamazoo, MI 49006-3295. To ensure that its searches consider women and minority candidates, the College especially invites such qualified individuals to apply, and to identify themselves if they wish. Equal Opportunity Employer.

## POSITIONS OPEN

### ASSISTANT/ASSOCIATE PROFESSOR TENURE-TRACK

Applications are invited for a tenure-track position at the level of Assistant Professor, or, exceptionally, Associate Professor in the Department of Pharmacology. Candidates should have a Ph.D., M.D. or equivalent degrees, and excellent research credentials. Candidates using cellular, molecular and/or physical/chemical techniques in areas that complement current strengths of Department faculty are of particular interest. The Department has notably strong research in neuropharmacology, molecular and cellular aspects of alcohol and drug abuse, transmembrane signaling, and molecular genetics.

Send curriculum vitae, research plans and the names of three references by February 28, 1994, to: Faculty Search Committee, Department of Pharmacology, Box C236, University of Colorado Health Sciences Center, 4200 East 9th Avenue, Denver, CO 80262. The University of Colorado is an Affirmative Action/Equal Opportunity Employer.

### TENURE-TRACK FACULTY POSITION Providence College

Applications are invited for a position in Physics at the ASSISTANT PROFESSOR level beginning September 1994. The applicant will be expected to teach introductory and intermediate courses and laboratories in physics and engineering and to develop and teach courses for non-majors who are fulfilling their natural sciences general degree requirement. Research involving undergraduate students is encouraged. Providence College is a Roman Catholic four-year liberal arts college conducted under the auspices of the Dominican Friars. A Ph.D. in Physics is required. Applicants should send curriculum vitae, transcripts, a brief statement on teaching philosophy especially as it relates to introductory courses for majors and non-majors, and three letters of recommendation by February 14, 1994, to: Dr. Robert LaMontagne, Chair, Department of Engineering-Physics-Systems, Providence College, Providence, RI 02918-0001. Providence College is an Affirmative Action/Equal Opportunity Employer.

The newly established Division of Circulatory Physiology at Columbia University College of Physicians and Surgeons invites applications for its growing biomedical research program. Plans for expansion are aimed at the creation of a world class research effort in the area of heart failure research. Basic scientists with expertise in the areas of molecular and cellular biology and basic pharmacology who have demonstrated excellence in conducting independent research are encouraged to apply. Candidates should be able to compete for extramural research support and possess either M.D. or Ph.D. in relevant field. Several positions will be available at the ASSISTANT PROFESSOR, ASSOCIATE RESEARCH SCIENTIST and ASSOCIATE PROFESSOR level. Academic appointment and compensation will be commensurate with experience. We take Affirmative Action toward Equal Opportunity. Please submit curriculum vitae, a brief statement of research interest, copies of representative publications and the names of three references to: Milton Packer, M.D., Chief, Division of Circulatory Physiology, Columbia University, College of Physicians and Surgeons, 630 West 168th Street, New York, NY 10032.

### ASSISTANT PROFESSOR, BIOLOGY DEPARTMENT COLLEGE OF SAINT BENEDICT AND SAINT JOHN'S UNIVERSITY

The College of Saint Benedict, a women's college, and Saint John's University, a men's college, are accepting applications for a tenure-track position to begin fall 1994 in the Joint Biology Department. We seek candidates with a broad botanical training and expertise in aquatic and/or wetland systems. Our campus includes 3,000 acres of forest, field, wetland and lakes. Qualifications for the position include a Ph.D., demonstrated interest and ability in teaching and a desire to participate in research with undergraduates. Annual duties include teaching upper-division botany, aquatic ecology, and introductory biology. Applicants should submit a letter of application, curriculum vitae and three letters of recommendation to: Kathy Flynn, Human Resource Coordinator, College of Saint Benedict, 37 South College Avenue, St. Joseph, MN 56374. Applications received after February 11, 1994, cannot be guaranteed consideration. Women and minorities are encouraged to apply.

## POSITIONS OPEN

### ASSISTANT PROFESSOR—BIOCHEMISTRY:

The Department of Chemistry and Biochemistry, California State University, Los Angeles (CSULA), invites applications for one tenure-track faculty appointment in biochemistry. A Ph.D. is required and postdoctoral experience is strongly preferred. Candidates should submit curriculum vitae, a research plan, and arrange for three supporting letters to be sent to: Professor Joseph Casanova, Acting Chair, Department of Chemistry and Biochemistry, California State University, Los Angeles, Los Angeles, CA 90032-8202. Deadline for receipt of application and all supporting material is January 24, 1994. CSULA is an Affirmative Action/Equal Opportunity Employer.

### ENVIRONMENTAL TOXICOLOGIST

The Department of Biological Sciences, Wichita State University (WSU), invites applications for a tenure-track position with the rank of ASSISTANT or ASSOCIATE PROFESSOR. We seek an individual with broad training in ecotoxicology and environmental biology. The applicant must possess significant postdoctoral training, a record of productive research, and the ability to interact collegially. Appointment at the Associate level requires a record of funded research activity. Expectations also include teaching at both the undergraduate and graduate levels and participation in training in multidisciplinary environmental sciences at the graduate level. Wichita is the largest urban area in Kansas and offers a variety of opportunities for research in environmental biology. Deadline for applications is March 1, 1994, or the first of the month until the position is filled. Send curriculum vitae, statement of research and teaching goals, and three names of references to: Chairperson, Environmental Toxicologist Search Committee, Department of Biological Sciences, Wichita State University, Wichita, KS 67208. WSU is an Affirmative Action/Equal Opportunity Employer.

### ASSISTANT PROFESSOR OF BIOLOGY

Assistant Professor, tenure-track. Teaching duties will include courses in Plant Biology, Introductory Biology, and courses in the candidate's area of specialty. Specialties may include ecology, conservation biology, environmental remediation or other areas that complement those of present faculty members. Candidates must possess a Ph.D. in an appropriate discipline. Send letter of application, transcripts, curriculum vitae and three letters of recommendation to: Dr. Dennis M. McNair, Chairperson, Biology Search Committee, University of Pittsburgh at Johnstown, Johnstown, PA 15904. Reviews will begin after February 1, 1994. UPJ is an Equal Opportunity/Affirmative Action Employer.

CHAIRPERSON AND PROFESSOR. The East Carolina University School of Medicine invites nominations and applications for the position of Professor and Chairperson of the Department of Physiology. The candidate should possess a distinguished record in teaching and research in physiology or related discipline, proven skills in leadership, and experience in administration. Applicants should have an M.D. or Ph.D. degree. Salary and benefits are nationally competitive. Interested parties should submit curriculum vitae and three references to: Alvin Volkman, M.D., D.Phil., Chairman; Physiology Search Committee; Brody 2W-33; East Carolina University School of Medicine; Greenville, NC 27858-4354. Closing date: January 31, 1994. East Carolina University School of Medicine is an Equal Opportunity/Affirmative Action Employer. Federal law requires proper documentation of identity and employability prior to final consideration for this position.

### DIRECTOR, PROGRAM IN DIABETES

Department of Medicine at Case Western Reserve University (CWRU), University Hospitals of Cleveland and the V.A. Medical Center seek an outstanding investigator (M.D. or M.D./Ph.D.) active in Diabetes Research to develop and direct a program in Diabetes encompassing research, teaching, and patient care. Appointments will be at the Associate or Professor level. Resources to recruit 2 to 3 additional faculty will be available. Applicants should submit curriculum vitae and three references to: F. Ismail-Beigi, M.D., Ph.D.; Chair, Program in Diabetes Search Committee, Case Western Reserve University, 10900 Euclid Avenue, Cleveland, OH 44106-4951. CWRU is an Equal Opportunity/Affirmative Action Employer. Applications from women and minority groups are encouraged.

# ROBERT J. AND CLAIRE PASAROW FOUNDATION

## 1993 MEDICAL RESEARCH AWARDS

### Cancer, Cardiovascular Disease, Neuropsychiatry

The Foundation has established three yearly medical prizes for distinguished accomplishment in research in order to increase public awareness of vital areas of investigation. This is the seventh year of the awards program. Each award is for \$35,000, presented directly to the awardee.

The three prizes-one in each of the three fields-are given for basic and/or clinical research.

- **Cancer:** including basic cellular processes and the various forms of cancer.
- **Cardiovascular Disease:** including disorders of the heart and vascular system.
- **Neuropsychiatry:** including neuroscience of neurologic and mental disorders.

The criterion for the Pasarow Medical Research Awards is evidence of substantive accomplishment and the likelihood of continuing outstanding achievement in biomedical science.

Nominators for the 1993 Award should provide a letter of no more than one page stating the rationale for the nomination and should include the nominee's curriculum vitae and bibliography.

Applications will be reviewed by the Board of Directors in consultation with various medical scholars.

Members of the Board of Directors are:

Robert J. Pasarow, President  
Claire Pasarow, Chief Financial Officer  
Brian E. Henderson, M.D., Salk Institute  
Jerome H. Kay, M.D., Los Angeles  
Susan Adele Pasarow, Lake Oswego

Charles E. Rickershauser, Jr., Los Angeles  
Kenneth I. Shine, M.D., Institute of Medicine  
Joseph P. Van Der Meulen, M.D., University of Southern California  
Jack D. Barchas, M.D., Secretary, New York Hospital-Cornell

Nominations should be sent by March 10, 1994 to:

Robert J. and Claire Pasarow Foundation  
c/o Joseph P. Van Der Meulen, M.D.  
1985 Zonal Avenue  
PSC 100  
Los Angeles, California 90033

#### CURATORIAL POSITION IN HERPETOLOGY

Carnegie Museum of Natural History seeks an **ASSISTANT CURATOR** (entry level) for the Section of Amphibians and Reptiles. Candidates are expected to: have a recent Ph.D. degree; initiate a strong research program; contribute to the Museum's public programs in exhibits and education; and administer the Section's curatorial responsibilities, which include supervision of a collection manager, a preparator, a part-time assistant, and a research collection of 180,000 specimens. Submit by 25 February 1994: curriculum vitae, three letters of reference, and a letter describing research and curatorial experience, plans and goals to: **Dr. Leonard Krishtalka, Assistant Director for Science, Carnegie Museum of Natural History, 4400 Forbes Ave., Pittsburgh, PA 15213.** EOE-m/f/d/v.

#### REA POSTDOCTORAL FELLOWSHIP IN ORNITHOLOGY

Carnegie Museum of Natural History invites applications for the **Rea Postdoctoral Fellowship** in ornithology for collection-based research in one or more of the following areas: phylogenetic systematics, historical biogeography, ontogeny, morphometrics, functional morphology. Candidates are expected to have a Ph.D. degree on appointment (1 September 1994) and strong research credentials. The fellowship is for one year and may be renewed for a second year. Submit by 25 February 1994: curriculum vitae, reprints, three letters of reference, and a letter describing research experience, plans and goals to: **Dr. Leonard Krishtalka, Assistant Director for Science, Carnegie Museum of Natural History, 4400 Forbes Ave., Pittsburgh, PA 15213.** EOE-m/f/d/v.

THE



MISSION

Biogen is a dynamic young biotechnology company principally engaged in developing genetically engineered human pharmaceuticals. Now in our 16th year, we are one of the few profitable biotech companies in the U.S. Revenues come from five products -- including Intron (R)A alpha interferon and hepatitis B vaccines and diagnostics -- sold throughout the world by licensees or affiliates. Current research is directed toward the discovery and development of proprietary products to treat inflammation, cardiovascular disease, AIDS and certain cancers.

#### Research Scientists - Immunology

The Department of Immunology at Biogen is a dynamic group of investigators exploring basic immunology to discover new therapeutics and immune intervention in disease. We are seeking two scientists to augment our existing strengths in T and B lymphocyte biology. Current needs are for a scientist with experience in the role for cytotoxic T lymphocytes in viral disease models, and for a scientist with a background in B lymphocyte growth and differentiation. Successful candidates should have a PhD or MD degree and postdoctoral work in the area of immunology and demonstrate a record of scientific excellence and creativity.

**Biogen offers what few companies in our industry can - Scientific Challenge, Stability, Profitability, and Growth. In addition, our compensation and benefits package, which includes relocation assistance, is one of the best in the industry, and is designed to attract and retain the finest talent available. If you are one of the best, you have an opportunity to join us now.**

**We encourage your immediate response. Please forward your resume, to Human Resources, Biogen, Inc., 14 Cambridge Center, Cambridge, MA 02142; FAX# (617) 252-9595. Biogen is an Equal Opportunity Employer.**

BIOGEN



## THE ROCKEFELLER UNIVERSITY

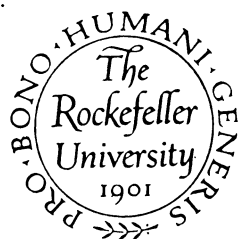
### CHEMISTRY, BIOCHEMISTRY & STRUCTURAL BIOLOGY

A number of new appointments are intended to be made in chemistry, biochemistry and structural biology as independent heads of laboratory. The University is especially interested in candidates who would contribute to, and benefit from, the biological/biomedical environment of the University. This search is focused at the Assistant Professor level, but more senior appointments are also contemplated.

Specific areas of interest include:

- Bioorganic Chemistry
- Biochemistry
- NMR of biological macromolecules
- Theory (especially in the areas of macromolecular structure and folding)

Applicants should send their CV and a description of their research interests to the Chemistry Search Chair at:



**Rockefeller University**  
Box 80, 1230 York Ave.  
New York, NY 10021

The Rockefeller University is an equal opportunity employer and has an affirmative action program to increase the employment of women and members of protected groups at all job levels.

### Gene Therapy Cancer Prevention and Treatment

The following Assistant, Associate Professor or Full Professor level positions will be available as part of a new Gene Therapy Initiative at the Bowman Gray School of Medicine at Wake Forest University and the North Carolina Baptist Hospital.

**Biochemist/Molecular Biologist:** This person should have a primary interest in the mechanisms and pathways of cytotoxicity, apoptosis and/or toxin mediated cellular killing.

**Immunologist/Cytokine Biologist:** This person will have an interest in the local stimulation of the immune system via the transfection of immunomodulatory or immunoregulatory molecules which would enhance tumor cell killing.

**Cancer Biologist/Virologist:** This person will have an interest in tumor targeting with viruses and/or viral related peptides.

**Pharmacologist/Clinical Pharmacologist:** This person will have an interest in mechanism of DNA delivery to target cells.

**Transgenic Biologist:** This person should have expertise in transgenic/knock-out models of important cancer related genes.

**Bone Marrow Transplantation/Stem Cell Biologist:** This M.D. or M.D./Ph.D. candidate should lead the clinical efforts in the use of bone marrow stem cells as a target or vehicle for gene therapy.

This multi-departmental recruitment involves the Departments of Biochemistry, Cancer Biology, Microbiology/Immunology, Physiology/Pharmacology, the Section of Hematology/Oncology in the Department of Internal Medicine and the Comprehensive Cancer Center of Wake Forest University. Please send C.V. to Frank M. Torti, M.D., Director, Comprehensive Cancer Center of Wake Forest University, Bowman Gray School of Medicine, Medical Center Blvd., Winston-Salem, NC 27157-1082.

AA/EEO

## ENDOWED CHAIR IN NATURAL SCIENCE

Muhlenberg College seeks applicants for the Dr. David and Donna Long Professorship in Natural Science. The individual, to be appointed at the associate or full professor rank, would administer the newly established Environmental Science major, develop and participate in an introductory environmental science course, guide and coordinate student research and internships, initiate grant proposals to provide additional support for the major, and offer upper-level courses. The committee welcomes applicants from varied scientific disciplines. A college-owned field station and several nationally known wildlife sanctuaries nearby provide for long-term environmental research projects. The campus is located in the Lehigh Valley, conveniently located within easy driving distance of Philadelphia and New York City. Submit resume, three reference letters and a statement of your personal perspective on the place of an interdisciplinary science major at a liberal arts college to Dr. Carl S. Oplinger, Search Committee Chair, Biology Dept., Muhlenberg College, Allentown, PA 18104. Review of applicants will begin February 1, 1994 and continue until the position is filled. Muhlenberg College is an equal opportunity employer.

**MUHLENBERG**  
COLLEGE

## New Opportunities for Graduate Study in Molecular Biosciences

### At Rutgers University and UMDNJ-Robert Wood Johnson Medical School

Graduate programs in Biochemistry, Microbiology, and Molecular Genetics at **Rutgers University** and the **UMDNJ-Robert Wood Johnson Medical School** are jointly recruiting students for Ph.D. study. Opportunities are available to carry out Ph.D. dissertations with an extensive group of faculty working in a wide range of exciting fields including:

- |                            |                       |
|----------------------------|-----------------------|
| • Biochemistry             | • Molecular Biology   |
| • Biotechnology            | • Molecular Genetics  |
| • Macromolecular Structure | • Molecular Virology  |
| • Microbiology             | • Protein Engineering |

State-of-the-art equipment and resources are available for graduate research. Competitive stipends and tuition remission will be provided to all students.

Requests for application materials and more detailed information, including descriptions of faculty research interests, should be addressed to:

Joint Graduate Admissions Committee [1], Rm. 309  
Center for Advanced Biotechnology and Medicine  
679 Hoes Lane  
Piscataway, New Jersey, 08854  
Phone: 908-235-5375  
E-mail: pirrello @ mbcl.rutgers.edu

Applications received by March 1, 1994 will receive first consideration. Applications received after this date will also be considered based on availability of funds.





Salem-Teikyo University, a unique university with a multi-cultural student body and a mission to educate global citizens is establishing a graduate program in Molecular Biology/Biotechnology to be implemented for the 94-95 academic year. Salem-Teikyo University is now inviting applications for two positions in Plant Molecular Biology/Biotechnology.

The focus of research will be in the areas of genetic engineering in plants and the biology of stress. This includes research concerning molecular mechanisms of photosynthesis, plant signal transduction, enzyme isolation and characterization and cell to cell communication.

Responsibilities include teaching, conducting and supervisory research at both the undergraduate and graduate level. Those with an established program are encouraged to apply.

Interested applicants holding a Ph.D. or equivalent should send curriculum vitae, list of publications, a short statement of research achievements and names and addresses of three references to: Dr. Wayne H. England, Chair of Search Committee, Salem-Teikyo University, 223 W. Main Street, Salem, WV 26426-0500. Search will continue until positions are filled. E.O.E./A.A.

## SENIOR SCIENTIST — PHARMACOKINETICS

Genentech's commitment to science is a critical component to our success in the biotechnology industry. Our leadership position and rich product pipeline create an opportunity for a Senior Scientist to support research and development in pre-clinical and clinical pharmacokinetics/pharmacodynamics of recombinant proteins and small molecule therapeutics.



You'll design, monitor and analyze data from pharmacokinetic studies, and provide input to other departments including Regulatory Affairs, Clinical Research and Product Development. You'll also communicate findings in scientific meetings, seminars and publications.

The position requires a PhD, MD or equivalent with strong clinical pharmacokinetics experience. Familiarity with the design, execution and analysis of data from clinical PK/PD studies is also required. Post-doctoral training and 2+ years' industry experience is preferred. Experience in endocrinology and/or with growth factors and other protein therapeutics would be a plus, as would experience with PK/PD modeling and population pharmacokinetics.

Genentech offers an excellent salary and benefits package which includes child care facilities, free health club membership and fully paid medical/dental/vision coverage. For immediate consideration, please send your resume to Genentech, Inc., Human Resources, Dept. NS-SB, 460 Point San Bruno Blvd., South San Francisco, CA 94080. We actively support and promote affirmative action and equal opportunity employment. Women and minorities are encouraged to apply.

**Genentech, Inc.**

Department of Psychobiology  
University of California,  
Irvine

### Neurobiologists

Two tenure-track assistant professor positions are available for neurobiologists working at the molecular, cellular, systems, or behavioral levels whose research emphasizes plasticity with a focus on a problem within the areas of learning and memory, integrative neuroscience, or aging/neurodegeneration. Preference will be given to candidates whose research interests mesh with current Departmental research programs and whose research has a manifest relationship to some behavioral endpoint. Send resume, research plans, and the names of three potential referees to Dr. Herbert P. Killackey, Chair, Department of Psychobiology, University of California, Irvine, CA 92717-4550. Applications will be reviewed continuously beginning February 15, 1994.

*UCI is an Equal Opportunity/Affirmative Action Employer committed to excellence through diversity.*

## UNIVERSITY OF WISCONSIN MADISON

Dean  
School of Veterinary Medicine  
University of Wisconsin-Madison

The University of Wisconsin-Madison invites applications and nominations for the position of Dean, School of Veterinary Medicine. The school offers a unique environment through its close ties and physical proximity to the many outstanding programs in the biological sciences at UW-Madison. We seek exceptional individuals who can provide leadership for the continuing excellence and development of instructional, research, clinical and outreach programs. The Dean serves as a representative of the school in its fund raising efforts and in its interactions with other schools and colleges, the public, and the veterinary medical community. The dean is the chief executive officer of the school and is responsible to the provost and the chancellor for the general administration of the school.

The school consists of four academic departments, a modern Veterinary Medical Teaching Hospital, and excellent instructional, research and animal facilities. The School has approximately 76 ranked faculty, 215 support staff, and 80 graduate students and residents. The veterinary medical student program enrolls 320 students.

#### Qualifications:

Doctor of Veterinary Medicine degree (or its equivalent); significant administrative experience including fiscal and personnel management; and strong interpersonal skills. Candidates must have demonstrated excellence in research, teaching and/or outreach to meet the requirements for appointment at the rank of professor with tenure in one of the four academic departments of the school.

Under Wisconsin Statutes, the names of nominees and applicants who explicitly request confidentiality will not be made public, although the university is required to release the names of the finalists who will be interviewed by the UW-Madison Chancellor. The position is available July 1, 1994.

Applications and nominations are requested by March 1, 1994 and should be sent to:

Dr. Ronald D. Schultz, Chair  
Search and Screen Committee  
Dean of the School of Veterinary Medicine  
University of Wisconsin-Madison  
c/o Office of the Secretary of the Faculty  
500 Lincoln Drive  
134 Bascom Hall  
Madison, Wisconsin 53706-1102

*UW-Madison is an Equal Opportunity, Affirmative Action Employer. Women and members of minority groups are especially encouraged to apply.*

## POSITIONS OPEN

The University of Virginia is seeking applicants for a **CHAIR-level**, professorial appointment in Organic Chemistry. The successful candidate would be expected to possess extensive experience in teaching and research in organic synthesis as well as a demonstrated record of funding commensurate with an appointment at this level. Letters of application and nomination accompanied by curriculum vitae and a list of references should be addressed to: **B. Milligan, Department of Chemistry, University of Virginia, McCormick Road, Charlottesville, VA 22901. The University of Virginia is an Affirmative Action/Equal Opportunity Employer.**

### DNA/RNA PURIFICATION HEAD

Requires extensive experience in DNA, S-DNA, and RNA HPLC purification at the preparative level. GMP experience an asset. Hands-on self-starter with ability to interact well critical. Profitable small Northwest biotech company. Curriculum vitae/references to: **P.O. Box 45, Science Classified Advertising, 1333 H Street, N.W., Room 814, Washington, DC 20005.**

**RESEARCH/TECHNICAL DIRECTOR** for company that exports U.S. manufactured chemicals, biochemical reagents and plastic resins. Will coordinate with suppliers and customers on appropriate products for customers' requirements in setting up and operating biomedical research laboratories. Duties include: (1) conducting laboratory analysis of chemical properties of materials proposed for use by customers; (2) reviewing product specification data from customers with suppliers' research and development scientists for determining appropriate chemical products; (3) developing and demonstrating experimental and testing procedures to customers; (4) evaluating applicability of suppliers' new products for customers' research operations; and (5) assisting customers to evaluate chemical, biochemical reagent and equipment needs for medical and biomedical laboratory research. Customers are primarily in China. Must have M.S. in biological sciences and three years of experience conducting biochemistry laboratory research. Must have appropriate graduate course work, including biochemistry and molecular biology. Experience requirements may be concurrent. Must be fluent in Mandarin. Salary \$50,000 per annum. Forty hours per week. *Must have proof of legal authority to work in United States.* Position located in Seattle, Washington, and requires extensive travel (employer will reimburse travel expenses). Please send résumé by February 6, 1994, to: **Employment Security Department, E & T Division, Attention: JO# 398984, P.O. Box 9046, Olympia, WA 98507-9046.**

**CHIEF, ENDOCRINE SECTION.** SUNY Health Science Center at Syracuse is seeking a Chief for the Endocrinology Section in a Department of Medicine being reinvigorated under new leadership. Candidates should have demonstrated talent in and enthusiasm for research, patient care, teaching and administration, and ideally might have scientific interests that would take advantage of the section's current strengths in diabetes, bone and mineral metabolism, or hypertension. Interested candidates should submit curriculum vitae and names of three references to: **Steven J. Scheinman, M.D., Department of Medicine, SUNY Health Science Center, 750 East Adams Street, Syracuse, NY 13210. Equal Opportunity Employer.**

**DEPARTMENT HEAD,** Oregon State University, Corvallis, Oregon. Nominations and applications are invited for Head of the Department of Fisheries and Wildlife. An earned doctorate and a national/international reputation for excellence as a scientist in a field of fisheries, wildlife, conservation biology, or resource ecology required. Applicants must have superior leadership qualities and administrative ability, and understand budget management, and the budget process. Applicants should have a record of demonstrated professional excellence in research, teaching and extended education, including graduate education. Initial applicants include only a statement of intent and a complete curriculum vitae. Names of references may be requested from candidates following the initial, confidential screening. Closing date is March 31, 1994. Applications and inquiries should be addressed to: **Dr. J. L. Fryer, Department of Microbiology, Chairman, Search Committee, Nash Hall 220, Oregon State University, Corvallis, OR 97331-3804; Telephone: (503) 737-1833, FAX: (503) 737-0496. Oregon State University is an Affirmative Action/Equal Employment Opportunity Employer and is responsive to dual-career needs.**

## POSITIONS OPEN

### DIRECTOR Environmental Studies Program

The University of Kansas seeks a director of its Environmental Studies Program at the **ASSOCIATE PROFESSOR** level beginning fall 1994, contingent upon final budgetary approval. Duties include coordinating the program's interdisciplinary curriculum, advising students, teaching two courses a year, and maintaining an active research program.

Candidates must have a Ph.D., with teaching and administrative experience in resource and/or environmental studies, or related programs. They must offer evidence of strong leadership skills and a substantial, active research record. Open to any area of expertise, but preferred research interests include: the science of global change or the social science of resource economics and/or policy studies with international perspective. Appointment will be shared between ESP and one of the cooperating departments.

Application deadline is **February 11, 1994** (postmarked), or until the position is filled. Send a letter of application, curriculum vitae, names of three references, and a sample of research work to: **Donald Worster, Search Committee Chair, Hall Center for the Humanities, 211 Watkins House, University of Kansas, Lawrence, KS 66045-2967; Telephone: (913) 864-4798, FAX: 913-864-3884. The University is committed to increasing the ethnic and gender diversity of its faculty. We strongly encourage female and minority applicants to apply. Affirmative Action/Equal Opportunity Employer.**

**BIOLOGY.** Clarke College seeks a **TENURE-TRACK ZOOLOGIST** with expertise in ecology and evolution for fall 1994. Candidates must have a Ph.D. in a biology area and be committed to excellence in teaching undergraduates in a liberal arts college. Postdoctoral experience preferred. Responsibilities include teaching ecology/evolution, zoology structure, biology seminar, and subtropical biology, and supervision of some undergraduate research. Application review begins February 25, 1994, position open until filled. Submit letter of application, résumé, transcripts (unofficial), and three letters of recommendation to: **Mary Murphy, BVM, Ph.D., Clarke College, 1550 Clarke Drive, Dubuque, IA 52001-3198. Equal Opportunity Employer/Affirmative Action.**

**INSTRUCTOR OF BIOLOGY:** Master's degree plus college-level teaching experience or a Ph.D. degree in biology science. Salary is regionally competitive. Submit letter of application to: **Personnel Office, Southwestern Oklahoma State University, 100 Campus Drive, Weatherford, OK 73096. SWOSU is an Affirmative Action/Equal Employment Opportunity Employer.** Consideration of applications will begin March 1, 1994, and will continue until the position is filled. Position begins August 22, 1994.

The Delaware Museum of Natural History invites applications for an **ASSISTANT CURATOR IN MALACOLOGICAL**. Responsibilities include conduction of collection-oriented research on molluscan systematics, collection management, departmental administration, and participation in the museum's public programs. Applicants must have a doctorate or equivalent experience. Curatorial experience desired. Position available immediately. Send résumé, brief statement of research interest, and three letters of reference by 15 February 1994 to: **Malacology Search Committee, Delaware Museum of Natural History, P.O. Box 3937, Wilmington, DE 19807.**

**CHEMISTRY**—The Ouachita Baptist University Department of Chemistry invites applications for a fall 1994 entry-level or higher **TENURE-TRACK POSITION**. The successful applicant must have a Ph.D. in chemistry and a strong commitment to liberal arts education, to teaching courses for science and non-science majors, and to directing undergraduate research. Applicants with backgrounds in inorganic chemistry with an interest in environmental chemistry/toxicology are most desirable. Established analytical lab includes AA, GC, GC/MS, ICP, Hg analyzer, and field equipment. Salary and rank are commensurate with experience. Review of applications begins February 1, 1994. Send résumé and arrange for three letters of recommendation to be sent to: **Joe Jeffers, Chair, Department of Chemistry, Ouachita Baptist University, Arkadelphia, AR 71998-0001.**

## POSITIONS OPEN

### MICROBIAL ECOLOGIST

The University of Maryland Center for Environmental and Estuarine Studies, Horn Point Environmental Laboratory, invites applications for a tenure-track **FACULTY POSITION** in microbial ecology. We seek a colleague who has experience in marine bacterial processes who would complement our present programs in planktonic food-web interactions, nutrient cycling, biogeochemical fluxes and coastal physical oceanography. The successful candidate is expected to participate in an externally funded research program and to participate in our graduate education program. A Ph.D. in biological oceanography or microbiology is required with postdoctoral experience. Applicants should send a cover letter, a statement of research interests, curriculum vitae and the names of four references by 1 March 1994 to: **Michael Roman, Chairman, Microbial Ecologist Search, Horn Point Environmental Laboratory, P.O. Box 775, Cambridge, MD 21613; Telephone: (410) 228-8200. Affirmative Action/Equal Opportunity Employer.**

The Department of Pathology and Laboratory Medicine, Texas A&M University College of Medicine, invites applications for **TENURE-TRACK POSITIONS** from individuals with teaching, research and clinical interests. A background in pathology is sought in addition to the M.D./Ph.D., M.D. or Ph.D. degree. The location of the department on a main university campus provides close interaction with other disciplines. The present experimental interests include endothelial cell function, oncogenes, mechanisms of malignant transformation, cell adhesion receptors, anti-tumor drugs, and mechanisms of metastasis. We are seeking applicants who can build an independent research program and contribute to our pathology teaching directed toward medical students and graduate students. Financial support is available for young investigators to establish a research program. Individuals may send curriculum vitae, any recent reprints, and a brief description of their research interests to: **Dr. Julius A. Gordon; Head, Department of Pathology and Laboratory Medicine; Room 208, Reynolds Medical Building; Texas A&M University College of Medicine; College Station, TX 77843-1114.**

An entry-level position for a **PHARMACOLOGIST, TENURE-TRACK**, is available at the University of Chicago, in the Department of Pharmacological & Physiological Sciences. Applicants should have an M.D. and/or Ph.D. degree, 3 years of postdoctoral experience with a general interest in topics related to CNS pharmacology including neuropharmacology, psychopharmacology and molecular neurobiology. *The University of Chicago is an Equal Opportunity Employer.* Applicants should provide a brief statement of research interests and plans, curriculum vitae and bibliography, and the names of three individuals who are willing to write letters of recommendation to:

**Dr. Lewis S. Seiden  
The University of Chicago  
Department of Pharmacological  
& Physiological Sciences  
947 East 58th Street  
Chicago, IL 60637**

**FACULTY POSITION.** The Department of Biochemistry and Molecular Biology in the College of Medicine solicits applications for a tenure-track (12-month) position at any level. Applicants at the Assistant Professor level should have a Ph.D. and/or M.D. degree, postdoctoral experience, and demonstrated excellence in research. Applicants at the Associate/Full Professor level should have a nationally recognized research program. The successful candidate will join a department undergoing significant expansion and will occupy laboratories in the recently completed Biomedical Research Building. He/she will be expected to have or develop a funded research program that utilizes modern techniques to address problems in the area of enzymology and protein structure/function relationships, train Ph.D. candidates, and contribute to teaching graduate and medical students. Applicants should submit curriculum vitae, a brief statement of proposed research, and the names, addresses and telephone numbers of three references to: **Gary A. Bannon, Department of Biochemistry and Molecular Biology, Slot 516, University of Arkansas for Medical Sciences, 4301 West Markham, Little Rock, AR 72205, by 15 February 1994. UAMS is an Equal Opportunity/Affirmative Action Employer.**

**GRADUATE FELLOWSHIPS**  
**CENTER FOR THE STUDY OF EVOLUTION AND THE ORIGIN OF LIFE**  
**UCLA**

ORIGIN OF THE UNIVERSE...  
FORMATION OF THE EARTH...  
BEGINNINGS OF LIFE...  
EVOLUTION OF THE BIOSPHERE...  
ADVENT OF HOMO SAPIENS...

CSEOL invites applications for five graduate fellowships for 1994-95. In addition to support provided Fellows by UCLA departments, CSEOL will grant each Fellow a stipend of \$5,000 per year, for each of the first two years of graduate study, with no teaching or other duties. Stipends may be used for any purpose the Fellow deems appropriate - travel, lodging, attendance at scientific meetings, purchase of books, computers, research equipment - for any purpose, without restriction. Fellows are included in a select group of graduate students invited to interact with Center faculty in a weekly dinner/seminar/discussion series. Applicants should be planning to carry out doctoral research under the direction of a CSEOL faculty member in a subject area relating to virtually any aspect of evolution - of the cosmos, of the solar system, of Earth, of the environment, of life, of humans. Areas of particular interest for 1994-95 include (1) planetary evolution and exobiology; (2) origin and early evolution of life; and (3) biochemical evolution and molecular phylogeny. Faculty are members of the UCLA Departments of Anthropology, Astronomy, Atmospheric Sciences, Biology, Chemistry & Biochemistry, Computer Science, Earth & Space Sciences, Geography, and Microbiology; the School of Medicine; the School of Public Health; the Institute of Geophysics and Planetary Physics; and the Molecular Biology Institute. Fellowship applicants must apply (preferably, by 21 February 1994) both to an appropriate academic department and to CSEOL. For application forms and a list of CSEOL members, contact:

CSEOL Fellows Committee  
Geology Building, Room 5687  
University of California, Los Angeles  
Los Angeles, CA 90024-1567  
Telephone: (310) 825-1170  
FAX: (310) 825-0097

**Director of Research Resources Center (RRC)**  
**University of Illinois at Chicago**

The University of Illinois at Chicago (UIC) invites applications and nominations for the position of Director of the Research Resources Center (RRC).

The Research Resources Center provides support for research at UIC through its 12 instrumentation facilities, laboratories, computer workstation and shops. Its primary functions and services include: management of centralized, major research equipment; design, construction, maintenance and repair of electronic and mechanical equipment; providing current protein, nucleic acid and other data-bases; providing laboratory services such as flow cytometric analysis/sorting of cells, the sequencing/synthesis of peptides, and spectroscopy; and technical consultation in experimental design and data analysis, and the on-line use of computers.

Candidates must have a doctorate in either the biological-health or chemical-physical sciences, with 5 to 10 years experience conducting and directing laboratory research programs. Skills in management and knowledge of high technology instrumentation and experimental design are required. The Director will be expected to have a strong commitment to maintaining and expanding the existing service support function of the Center. To assure the future level of this service, it will be necessary for the Director to participate in the development and submission of multi-user requests for external funding to support the acquisition and maintenance of core equipment for the Center.

Nominations and applications accompanied by a complete curriculum vitae and the names and addresses of five references should be sent to:

**Dr. B. Taylor Bennett, Chairperson**  
**Search Committee for the RRC Director**  
**c/o Linda Williams, Search Coordinator**  
**Office of the Vice Chancellor for Research**  
**1737 W. Polk Street (M/C 672)**  
**Chicago, IL 60612-7227**

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

# MOLECULAR DIAGNOSTICS AND GENETICS

SmithKline Beecham Pharmaceuticals, a worldwide leader in pharmaceutical research, has a number of challenging opportunities for scientists with expertise in the areas of molecular genetics and protein biochemistry. The successful candidates will have responsibility for new and ongoing research initiatives in the context of multidisciplinary/multinational activities in human gene sequencing.

## Molecular Diagnostics

Two positions are available for molecular biologists who will be responsible for identifying and developing novel gene targets for the diagnosis of human diseases. Qualified candidates will have an M.D. or Ph.D. in a biological science with 2-5 years postdoctoral experience and expertise in molecular techniques, including gene cloning and gene expression. Experience in the molecular biology of human diseases is required and knowledge of human genetic disorders is highly desirable. Experience in the area of cancer therapeutics/diagnostics would be preferred. Refer to Job #H0372/H0373.

A third position is available for a protein biochemist who will have responsibility for purification and characterization of novel protein markers of human disease. Qualified candidates shall have a Ph.D. in biochemistry with 2-5 years experience in protein purification and characterization. Skills in micro-isolation of cytokines, receptors, or effector polypeptides is highly desirable, as is experience in devising functional assays. Refer to Job #H0371.

## Molecular Genetics

A position is available for a molecular biologist who will be responsible for applying gene cloning and sequencing to the identification of novel human genes that are differentially expressed in diseased vs. normal tissues. Qualified candidates will have a Ph.D. in a biological science with 2-5 years postdoctoral experience and expertise in molecular genetics techniques, especially gene cloning. The candidate will actively participate in research efforts centered in laboratories at sites located in the Philadelphia and Washington, D.C. areas. Refer to Job #H0369.

We offer a competitive compensation/benefits/relocation package as well as the opportunity for growth in a scientifically intense environment structured on creativity, teamwork, and commitment. SmithKline Beecham has a dynamic group of scientists whose activities encompass basic and applied research in a broad spectrum of therapeutic areas including hematopoiesis, bone, cardiovascular, pulmonary, renal, CNS, and infectious diseases.

Please send your CV, indicating desired position job # and three references, to: SmithKline Beecham Pharmaceuticals, Job #\_\_\_\_, Employment Administrator, PO Box 1539, King of Prussia, PA 19406-0939. We are an Equal Opportunity Employer, M/F/D/V.



**SmithKline Beecham**  
Pharmaceuticals

Challenging the natural limits.





**Wellcome**

## DIVISION DIRECTOR

Burroughs Wellcome Co. is a world leader in pharmaceutical research, production, and marketing. Our solid reputation for success translates into exceptional opportunities for professionals with the vision and determination to make a difference.

This position will offer an opportunity to lead a group of 20-30 scientists and support staff in an effort to discover and develop novel and medically significant therapies in oncology. Qualified candidates major area of expertise should be in the application of molecular immunology or gene therapy in oncology. Candidates must have an eight to ten year record of outstanding and innovative research, strong interpersonal skills as well as demonstrated leadership and organizational skills. This position will require at least **two years directing a research group in the biotechnology industry**. This position reports directly to the Vice President for Research.

At Burroughs Wellcome Co., you will enjoy a compensation and benefits package that is among the best in the pharmaceutical industry, along with the advantages of being part of an innovative pharmaceutical leader. Please send your resume, indicating POS. #65356-29 in your cover letter, by **February 14, 1994**, to: Burroughs Wellcome Co., Human Resources—RD&M, 3030 Cornwallis Road, Research Triangle Park, NC 27709.

For information on other job opportunities with Burroughs Wellcome Co., call our Job Information Line at (919) 315-8347.



**Wellcome**

**BURROUGHS WELLCOME CO.**

An Equal Opportunity Employer

### TENURE-TRACK FACULTY POSITIONS IN BIOCHEMISTRY, MOLECULAR BIOLOGY AND CANCER BIOLOGY

Faculty members at the rank of **ASSISTANT, ASSOCIATE OR FULL PROFESSOR** will hold academic appointments in the Department of Biochemistry and Molecular Biology and membership in the Center for Excellence in Cancer Research, Treatment and Education. The Department, other basic science departments, and the Center are undergoing a major expansion in both faculty size and research space. A ten-story biomedical research institute is currently under construction adjacent to the medical school. The Department and Center will assist new faculty appointees in developing a vigorous independent research program with technical researchers and start-up funds. Applicants should have a Ph.D. or M.D. degree, postdoctoral research experience, and a commitment to excellence in both teaching and research. Faculty members are expected to develop funded research programs and teach both medical and graduate students. Applications are especially encouraged in areas of signal transduction, developmental biology, receptors, oncogenes, cell cycle regulation and related areas. Send c.v., a brief statement of current and future research interests and the names of three referees to:

**Robert E. Rhoads, Ph.D.,**  
Professor and Head  
Department of Biochemistry  
and Molecular Biology  
Louisiana State University Medical Center  
1501 Kings Highway  
Shreveport, LA 71130-3932

LSUMC is an Equal Opportunity/Affirmative Action Employer.



### DIRECTOR VIRGINIA COAST INSTITUTE NORTHAMPTON COUNTY, VIRGINIA

Old Dominion University and The Nature Conservancy are establishing the Virginia Coast Institute as an independent, non-profit 501(c)(3) educational and research organization to study and demonstrate ways for a community to preserve its ecosystem and promote development in harmony with nature. The Institute will provide applied research, education, training, and evaluation to help create a world-model sustainable ecosystem, economy and community.

The Director will be an experienced individual with a proven record in interdisciplinary applied research, education, community outreach and fund-raising. He or she will:

- work to create a research agenda for the Institute;
- develop cooperative relationships with a wide range of researchers at Old Dominion University and other institutions;
- identify sources of potential funding for priority research projects;
- develop major Institute programs for education, training, and evaluation;
- promote the Institute to local, regional, and global audiences using a variety of promotional and public relations methods; and
- recommend and help secure facilities and infrastructures of the Institute programs.

#### QUALIFICATIONS

- Proven experience in administration and fund-raising;
- Proven and substantial experience in applied multidisciplinary research;
- PhD or equivalent experience in one of the ecological or socio-economic sciences, but also strong multidisciplinary skills and orientation;
- Ability to work with diverse constituencies;
- Willingness to be located on the Virginia Eastern Shore; and
- Commitment to the goals of environmental protection and sustainable economic and community development.

Interested candidates should forward a letter of application, resume, and the names and addresses of three references to: John Hall, Director, Virginia Coast Reserve, The Nature Conservancy, P.O. Box 158, Nassawadox, Virginia 23413.

Application review will begin February 1, 1994 and continue until the position is filled.

Old Dominion University and The Nature Conservancy are affirmative action, equal opportunity employers and require compliance with the Immigration Reform and Control Act of 1986.



### CAREER RESEARCH POSITION MARINE LIFE RESEARCH GROUP SCRIPPS INSTITUTION OF OCEANOGRAPHY

The Marine Life Research Group (MLRG) of Scripps Institution of Oceanography, University of California at San Diego, invites applications for a full or part-time, career-track but non-tenured research position. We seek someone interested in the recent past record of living species, and in the use of the sedimentary record (or other proxy measures) for modern studies of variability in marine populations and their environments. MLRG is an interdisciplinary research division cooperating with state and federal agencies in studying the pelagic ecology of the California Current. Priority will be given to applicants whose research is directly relevant to the organisms of the California Current and whose expertise complements our present research strengths. The applicant must have a Ph.D. or equivalent. We anticipate a background in marine paleoecology or biological oceanography, but other fields may be considered. Appointment may be made at any level, but priority will be given to candidates at the assistant or associate level. Salary will be commensurate with experience and based on UC salary scales. MLRG may provide a minimum of 50% support for the first two years for research directed toward the California Current. Thereafter, the appointee will be expected to maintain an externally supported research program. The University of California, San Diego, is an Equal Opportunity/Affirmative Action Employer. Applications must be received by 1 February 1994. Interested parties should send a statement of research interest, curriculum vitae and the names and addresses of at least five references to:

University of California, San Diego  
Professor Michael M. Mullin  
Director, Marine Life Research Group, 0227  
Scripps Institution of Oceanography  
9500 Gilman Dr.  
La Jolla, CA 92093-0227

## HEALTH SCIENTIST ADMINISTRATOR (HSA)

GS-601-12/13/14

The National Institute of General Medical Sciences, National Institutes of Health, Bethesda, MD is seeking a HSA, responsible for managing the programming and evaluation of a portfolio of research and research training grants that support work in the fields of biorelated chemistry, particularly where the emphasis of research is on synthetic organic chemistry, bio-organic chemistry, bio-inorganic chemistry, medicinal chemistry, pharmaceutical chemistry, or biotechnology. In addition, the incumbent provides scientific expertise in the above mentioned specialized areas and advises grantees and professional staff members regarding research aspects of grants within these areas of expertise and serves as a source of technical knowledge.

Applicants must possess specific knowledge, skills and abilities (KSAs) in order to qualify for this position. In addition to the KSAs, there are a number of documents that must be submitted when applying for this position. Applicants who fail to submit all of the required documents will not be considered for the position; therefore, it is crucial that applicants call to obtain this information. For information regarding the qualifications and application requirements, please call the NIGMS Personnel Office on (301) 594-7767. TDD Number is (301) 594-8884. Announcement closes February 7, 1994. U.S. Citizenship is required.

NIH is an Equal Opportunity Employer

## Postdoctoral Fellowships

The UNC Lineberger Comprehensive Cancer Center of the University of North Carolina at Chapel Hill will have openings in 1994-95 for persons completing graduate studies to train with excellent investigators in basic research in tumor virology, molecular carcinogenesis, molecular therapeutics, cancer cell biology, genetics, and tumor immunology. Training is available in recombinant DNA technology, gene expression, DNA replication, mutagenesis, regulation of cellular proliferation, growth factors, molecular immunology, molecular genetics of cancer, and combined programs. Unique training resources and core facilities are supported by the NCI-designated UNC Lineberger Comprehensive Cancer Center.

Preceptors are: Steven Bachenheimer, Albert Baldwin, Keith Burridge, Stephen Chaney, David Clemmons, Marila Cordeiro-Stone, Channing Der, H. Shelton Earp, Jeffrey Frelinger, Frank French, Jack Griffith, Stephen Haskill, Geoffrey Haughton, Brian Herman, Clyde Hutchinson III, Eng-Shang Huang, Kenneth Jacobson, Rudolph Juliano, David Kaufman, Shannon Kenney, Ryszard Kole, Steven Leadon, David Lee, Edison Liu, Patricia Maness, William Marzluff, Beverly Mitchell, Joseph Pagano, Nancy Raab-Traub, James Raleigh, R. Jude Samulski, Aziz Sancar, Ronald Swanstrom, Ronald Thurman, Jenny Ting, Thea Tlsty, Michael Topal, Terry Van Dyke, Jean-Michel Vos, Elizabeth Wilson, Bernard Weissman, and Yue Xiong.

Candidates must be U.S. citizens or permanent residents. Send for brochure listing faculty and apply with curriculum vitae, three letters of recommendation, a statement of research interests and graduate school records to:

Joseph S. Pagano, M.D.  
CB# 7295

UNC Lineberger Comprehensive Cancer Center  
School of Medicine  
University of North Carolina at Chapel Hill  
Chapel Hill, NC 27599-7295

UNC's Comprehensive Cancer Center is an Affirmative Action/Equal Opportunity Employer. Minority applicants are encouraged voluntarily to identify themselves.



University of Alberta  
Edmonton

## Dean Faculty of Medicine

The University of Alberta invites applications and nominations for the position of Dean of Medicine. The Faculty of Medicine is one of the largest in Canada and, with the support of the Alberta Heritage Foundation for Medical Research, has established a strong international reputation in research. The following programs are offered: a four-year program leading to the degree of Doctor of Medicine; an additional program in which students in the MD program may receive the degree of Doctor of Medicine with Honors in Research; an MD/PhD program; a four-year program leading to the degree of Bachelor of Science in Medical Laboratory Science; a program leading to the degree of Master of Health Service Administration or Diploma in Health Service Administration; 38 post-graduate clinical training programs; graduate programs (MSc and PhD) in basic and medical sciences; and an extensive program of Continuing Medical Education for physicians practising in northern Alberta and the Western Arctic.

The Faculty is affiliated with three major urban hospital groups as well as numerous community hospitals and agencies for the purpose of clinical teaching and research. In addition to excellent clinical teachers and related resources, the Faculty of Medicine houses strong basic science departments and researchers who have successfully garnered over \$43 million annually in external funding for the Faculty.

The Dean is responsible to the Vice-President (Academic) for the administration and supervision of the academic program, budget and all activities of the Faculty. As a full member of the Edmonton Region Health Facilities Planning Council, the Dean has an active role in the organization of all components of the health care delivery system in Alberta. He or she must have the ability to create a vision and to lead the Faculty into bringing that vision into being. The Dean should have previous administrative/managerial experience, proven leadership ability, a strong academic background, and a commitment to innovation in academic medicine and the promotion of excellence in teaching, research, and health care delivery to Albertans.

The appointment will take effect July 1, 1994 or at a mutually-agreeable date. Written nominations or applications, accompanied in the latter case by a resume of qualifications and experience, should be submitted by February 28, 1994 to:

Dr. W. John McDonald  
Vice-President (Academic)  
Third Floor, University Hall  
University of Alberta  
Edmonton, Alberta, Canada  
T6G 2J9

*The University of Alberta is committed to the principle of equity in employment. The University encourages applications from aboriginal persons, disabled persons, members of visible minorities and women.*

## POSITIONS OPEN

Tenure-track appointment in **ENVIRONMENTAL PLANNING**. Candidate should have strengths in theoretical and applied aspects of environmental field and hold Ph.D. degree in natural or engineering sciences or planning or geography with science background. Must be capable of immediate involvement in doctoral program. Special interest in areas such as urban hydrology, land use planning, environmental assessment and monitoring, or conservation and resource management. Should be well-grounded in theoretical aspects of discipline and demonstrate an interest in applications of professional practice in environmental planning. Successful candidate will have access to wetlands and ecology laboratories, advanced computing facilities in computer aided design, visual simulations, geographic information systems and remote sensing. Appointment is for September 1, 1994, and is subject to availability of funds. *In accordance with Canadian immigration requirements, this ad is directed to Canadian citizens and permanent residents. The university encourages applications from qualified women and men, members of visible minorities, native peoples, and persons with disabilities.* Letter of application, curriculum vitae, and names of three referees should be sent by January 31, 1994, to: **Dr. L. Martin, School of Urban and Regional Planning, University of Waterloo, Waterloo, Ontario, Canada N2L 3G1.**

The Department of Biochemistry at Baylor College of Medicine (BCM) invites applications for two **TENURE-TRACK FACULTY POSITIONS**; one in X-ray crystallography and one in computational biology. This research-oriented department is seeking outstanding scientists who are committed to establishing productive research programs in an expanding structural biophysics group. BCM provides a unique and interactive community of researchers with strengths in structural, molecular, and cellular biology and in molecular medicine. Applicants should send curriculum vitae, a research plan and three letters of recommendation to: **Professor Wah Chiu, Faculty Search Committee, Department of Biochemistry, Baylor College of Medicine, One Baylor Plaza, Houston, TX 77030, USA. BCM is an Equal Opportunity Employer.**

### FACULTY POSITION

The University of North Carolina at Chapel Hill invites applications for a junior or senior tenure-track **FACULTY POSITION** in the Department of Cell Biology and Anatomy. Appointee must have a Ph.D. or M.D. degree and will be expected to establish or have a funded research program in a modern area of cellular, molecular or developmental biology and to participate in teaching first-year medical and doctoral students. Starting date negotiable. *Women and minorities are encouraged to identify themselves.* Send curriculum vitae, a description of current and future research plans, and have three letters of recommendation sent independently by March 1, 1994, to: **Dr. Charles R. Hackenbrock, Chair, Department of Cell Biology and Anatomy, School of Medicine, 108 Taylor Hall, CB# 7090, University of North Carolina at Chapel Hill, Chapel Hill, NC 27599-7090. AN EQUAL OPPORTUNITY/AFFIRMATIVE ACTION EMPLOYER.**

### FACULTY POSITIONS IN MOLECULAR BIOLOGY AND MOLECULAR PHARMACOLOGY

The Department of Pharmacology and Molecular Biology at the Chicago Medical School is initiating the third phase of faculty recruitment for tenure-track positions at all levels. Only those with an ongoing, funded research program or assurance of research support need apply. Preference will be given to those experienced in molecular/biochemical pharmacology and any aspect of gene expression. Attractive benefits and start-up funds are available. The school is located in a modern facility adjacent to the very pleasant North Shore community of Lake Bluff, 38 miles from downtown Chicago with proximity to forest preserves and Lake Michigan. The department under new leadership has already recruited several faculty of high caliber. Excellent core facilities and strong graduate program (Ph.D. and M.D./Ph.D.) are available. Please send curriculum vitae, research plans and three names for reference to: **Dr. Samson T. Jacob, Chairman, Department of Pharmacology and Molecular Biology, The Chicago Medical School, 3333 Green Bay Road, North Chicago, IL 60064. The Chicago Medical School is an Equal Opportunity/Affirmative Action Employer.**

## POSITIONS OPEN

### ENDOWED PROFESSORSHIP X-RAY CRYSTALLOGRAPHY TEXAS A&M UNIVERSITY

The Department of Biochemistry and Biophysics is seeking applications and nominations for the position of Professor and holder of the R. J. Wolfe-Welch Chair in Science. Applicants should have a Ph.D. and a record of significant research accomplishments, supported by competitive funding, in the area of X-ray crystallography.

Applicants should send curriculum vitae, list of publications, a brief description of current and future research directions, and have 3 letters of reference sent to: **Dr. Thomas O. Baldwin, Department of Biochemistry and Biophysics, Texas A&M University, College Station, TX 77843-2128.**

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

**FAIRMONT STATE COLLEGE:** Anticipated **TENURE-TRACK FACULTY POSITIONS:** Biologists (2), Physical Chemist (1), and Physicist (1). Ph.D. preferred for all positions. Preference will be given to candidates with postdoctoral, teaching and computer experience. Review of applications will begin March 1, 1994, and continue until positions are filled. Send curriculum vitae and letter of application, which includes your personal philosophy of education, unofficial undergraduate and graduate transcripts, and arrange for three letters of recommendation to be sent to: **Dr. Albert Magro, Chair, Division of Science, Mathematics and Health Careers, Fairmont State College, 1201 Locust Avenue, Fairmont, WV 26554. Equal Opportunity/Affirmative Action Institution.**

**TWO POSTDOCTORAL or TECHNICIAN POSITIONS** with experience in molecular cloning, cell culture and transfection, preparation and screening of cDNA libraries, nucleotide sequence analysis, and purification of transcription factors. Salary \$20,000 to \$30,000 per year. Please send curriculum vitae and names of three references to: **Dr. Ashok Kumar, Department of Cell Biology and Anatomy, Box 5, SUNY Health Science Center, 450 Clarkson Avenue, Brooklyn, NY 11203.**

**POSTDOCTORAL POSITION** available at the University of California, San Diego, to investigate the neuroanatomy of the mammalian gustatory system. Funded projects concern neurotrophism in the taste periphery, and the synaptic organization of the central taste system. Techniques include high voltage EM autoradiography, EM-immunocytochemistry, and neuronal tract tracing. Send curriculum vitae and a statement of research interests to: **Mark C. Whitehead, Ph.D., Division of Anatomy, 0604, Department of Surgery, UCSD, La Jolla, CA 92093-0604.**

### POSTDOCTORAL POSITION IN VASCULAR AND MOLECULAR BIOLOGY STANFORD UNIVERSITY

Our laboratory is pursuing the cellular and molecular mechanisms by which the endogenous anti-atherogenic factor nitric oxide mediates endothelial-monocyte interactions.

Available projects include regulation by nitric oxide of monocyte chemotactic proteins; regulation of endothelial and monocyte glycoprotein adhesive molecules; and lipoprotein- and flow-induced alterations in the expression and activity of endothelial and monocyte NO synthase.

Background in cellular and molecular biology and U.S. citizenship are required.

Send curriculum vitae and reprints to: **John P. Cooke, M.D., Ph.D., Division of Cardiovascular Medicine, Stanford University School of Medicine, 300 Pasteur Drive, Stanford, CA 94305-5246.**

**POSTDOCTORAL POSITION** to study transcriptional control of hematopoietic proliferation and differentiation. Focus of laboratory has been erythropoietin signal transduction with emphasis on ion channel regulation. Strong background in molecular biology required. Send curriculum vitae and names of reference to: **Barbara A. Miller, Division of Pediatric Hematology/Oncology, Box 850, Hershey Medical Center, Hershey, PA 17033. The Pennsylvania State University is an Equal Opportunity/Affirmative Action Employer. Women and minorities are encouraged to apply.**

## POSITIONS OPEN

### POSTDOCTORAL POSITIONS University of Southern California Transcriptional Regulation of RNA-dependent RNA Synthesis

Postdoctoral positions are available to study the transcriptional factors involved in converting the template specificity of pol II in RNA-dependent RNA synthesis of hepatitis delta Virus and in viral polymerase-directed RNA transcription of mouse hepatitis virus. Background in gene regulation studies or molecular virology is desirable. Please send curriculum vitae to: **Dr. Michael Lai, Department of Microbiology, University of Southern California, School of Medicine, 2011 Zonal Avenue, HMR-401, Los Angeles, CA 90033. (FAX: 213/342-9555). University of Southern California is an Equal Opportunity Employer.**

**POSTDOCTORAL POSITIONS**—Two positions to study the structure and function of the cardiac sodium-calcium exchanger (e.g., *PNAS* 90:3870-3874, 1993). One position requires conventional patch clamp experience and will involve training in the use of the giant excised patch technique for detailed analysis of mutant exchangers (in collaboration with **Dr. James Weiss**). The second position requires biochemical or molecular biological experience to examine the mechanism, regulation, and expression of wild-type and mutant sodium-calcium exchangers. Please submit curriculum vitae and names of three references to: **Dr. Kenneth D. Philipson, Cardiovascular Research Laboratory, MRL 3-645, UCLA School of Medicine, Los Angeles, CA 90024-1760.**

**POSTDOCTORAL POSITION.** Research on aerial dispersal of microorganisms to help develop and field test a quantitative epidemiological model for plant disease infection. Ph.D. in the physical or biological sciences with experimental or modeling experience. Available immediately; duration two years. Send curriculum vitae, transcripts, examples of writing, and three letters of reference to: **Dr. Donald E. Aylor, The Connecticut Agricultural Experiment Station, Box 1106, New Haven, CT 06504. An Equal Opportunity/Affirmative Action Employer.**

### POSTDOCTORAL POSITION

Available March 1, 1994 (negotiable), to identify and characterize adhesion molecules involved in ovarian cancer cell metastasis. Major focus involves the role of CD44 isoforms in ovarian cancer cell implantation using a nude mouse model. Knowledge of molecular biological techniques is required, and experience in protein chemistry and monoclonal antibody production is preferred. Send curriculum vitae and 3 letters of recommendation by February 1, 1994, to: **Dr. Stephen A. Cannistra, Dana-Farber Cancer Institute, 44 Binney Street, Boston, MA 02115. An Equal Opportunity Employer.**

**POSTDOCTORAL POSITION** in Computational Biophysics. To study proton uptake in electron transfer proteins. Candidate should be interested in extending methods for calculating intra-protein pKa's using continuum electrostatics. The focus is on rapidly optimizing water and proton positions and treating multiple protein conformers. Send curriculum vitae by February 1, 1994, to: **Marilyn Gunner, Physics Department, City College of New York, 138th Street and Convent Avenue, New York, NY 10031. An Affirmative Action/Equal Opportunity Employer, M/F.**

**TWO POSTDOCTORAL POSITIONS.** Available immediately, renewable up to three years, to study molecular biology of airway epithelial cell proteins. Basic techniques in molecular biology required. Send a résumé and names of three references to: **K. C. Kim, Ph.D., Department of Pharmaceutical Sciences, University of Maryland School of Pharmacy, 20 North Pine Street, Baltimore, MD 21201. FAX: 410-706-2973. An Equal Opportunity Employer.**

### POSTDOCTORAL POSITION

Available now to conduct structure/function studies on an allosteric, multifunctional enzyme. Applicants should have experience in studies related to protein purification and characterization, protein chemistry, and/or molecular biology. U.S. citizen or permanent resident preferred. Send curriculum vitae and names of 3 references to: **Dr. Thomas Traut, Department of Biochemistry & Biophysics, University of North Carolina School of Medicine, Chapel Hill, NC 27599-7260.**

**Department of Biology  
Assistant Professor  
Tenure Track Positions**

The following positions are available in August 1994.

**Microbiologist** - Ph.D. in Microbiology or related field, postdoctoral experience desirable. Teaching and research in microbiology with classes in general microbiology, microbial physiology and some general biology.

**Botanist** - Ph.D. in botany or related field with postdoctoral experience desirable. Teaching of plant systematics, anatomy/morphology, and some general biology. Prefer research interests in evolutionary/ecological aspects of vascular plants.

**Animal Physiologist** - Ph.D. in Animal Physiology or related field with postdoctoral experience desirable. Teaching of animal physiology, cell biology, and some general biology. Research interests in animal physiology.

**Vertebrate Zoologist** - Ph.D. in Biology with postdoctoral experience desirable. Teaching in vertebrate biology, ornithology, mammalogy, and some general biology. Research interests in birds and/or mammals preferred.

Successful candidates are expected to develop strong research programs with undergraduate and graduate (M.S.) students and solicit external funding. Applicants with **marine-related** research interests are encouraged to apply. The university, located in suburban Los Angeles, has a multicultural enrollment of 27,000 and is an Equal Opportunity/Affirmative Action/Title IX/Section 504 Employer. Minority and women candidates are encouraged to apply. Send a letter of application, curriculum vitae, and 3 reference letters by February 1, 1994 to:

Chair, Department of Biology  
California State University Northridge  
18111 Nordhoff Street  
Northridge, CA 91330-8303

**Work With World-Class Research Scientists**

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At Lederle Laboratories, a subsidiary of American Cyanamid's Medical Research Division we're meeting the challenges of a new decade and the next century by building upon our strengths and creating an environment that fosters a more dynamic Research and Development organization. As a leader in the research and development of therapeutic compounds, our drugs have been instrumental in the treatment of infectious diseases, cancer, cardiovascular and central nervous system diseases. We currently have an opening for a Research Scientist.

**Research Mycologist Natural Products Section**

A position for a Mycologist is available. This individual will conduct research to isolate unusual fungi from diverse environmental niches and to characterize conditions for their growth and production of secondary metabolites. The goal of this program is the discovery of novel, bioactive natural products for medical and agricultural applications. Candidates should have a Ph.D. degree in Microbiology or a related discipline with at least two years of postdoctoral experience. Specific background in the application of fungi for the production of useful metabolites, enzymes, etc. is desirable.

This position emphasizes strong interactions with a staff of highly experienced research scientists and presents a valuable opportunity to acquire a broad background in a multi-disciplinary pharmaceutical discovery environment.

We offer a competitive salary and benefits package. Applicants should send their resume and salary requirements to: Lederle Laboratories, Dept. 9746, Medical Research Division, 401 N. Middletown Road, Pearl River, NY 10965. We are an equal opportunity employer.



*Discover the spirit of innovation.*

**Immunologist  
Interdepartmental Immunobiology Program  
Northwestern University Medical School**

As part of an ongoing recruiting effort The Immunobiology Program of the Northwestern University Medical School seeks applicants at the Assistant Professor level. The Program is committed to promoting immunobiology research across both basic science and clinical departments. The Program is interested in applicants applying cellular and/or molecular biological approaches to examine the pathogenesis of immune-mediated diseases and/or to examine basic immune mechanisms such as immune regulation, signal transduction, gene regulation, or antigen processing. Current areas of immunology research at Northwestern include autoimmunity, neuroimmunology, lymphocyte development, immunogenetics, transplantation, T cell activation and regulation, and antigen presentation. Candidates are expected to have a doctoral degree, to have completed appropriate post-doctoral training, and to have a demonstrated record of significant research accomplishments. The position will carry a full-time, tenure-track appointment in the Department of Microbiology-Immunology. Laboratory space will be located in newly renovated space within the Department of Microbiology-Immunology. To ensure full consideration, applications must be received by March 1, 1994. Applications including curriculum vitae, bibliography, a statement of future research interests, and the names of three referees should be submitted to: **Dr. Stephen D. Miller, Director, Interdepartmental Immunobiology Program, Northwestern University Medical School, 303 E. Chicago Avenue, Chicago, IL 60611.** Northwestern University is an Affirmative Action/Equal Opportunity Employer. Hiring is contingent upon eligibility to work in the United States.

**HEALTH SCIENTIST  
ADMINISTRATOR (HSA)  
GS-601-12/13/14**

The National Institute of General Medical Sciences, National Institutes of Health, Bethesda, MD is seeking a HSA, responsible for performing a variety of management functions associated with the scientific and technical merit review of research and research support, research center grant, program project grant, and research training grant award applications concerned with the physical, biochemical, and cellular and molecular aspects of biology, and with the techniques and methods used in modern basic research. The incumbent will work closely with the Minority Biomedical Research Support (MBRS) Program to coordinate the evaluations of applications from institutions seeking support from this program. The incumbent provides guidance on the Institute's program guidelines and initiatives and on policies and procedures of the NIH peer review system. The incumbent participates in site visits, attends meetings of study sections and review committees, prepares summary statements of review committee findings and recommendations, and attends Council meetings to provide information concerning the review of applications.

Applicants must possess specific knowledge, skills and abilities (KSAs) in order to qualify for this position. In addition to the KSAs, there are a number of documents that must be submitted when applying for this position. Applicants who fail to submit all of the required documents will not be considered for the position; therefore, it is crucial that applicants call to obtain this information. For information regarding the qualifications and application requirements, please call the NIGMS Personnel Office on (301) 594-7767. TDD Number is (301) 594-8884. Announcement closes February 7, 1994. U.S. Citizenship is required.

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## SENIOR SCIENTIST

We currently have an opportunity for an individual to perform research leading to novel pharmaceutical agents based on the three-dimensional structures of proteins.

Specific responsibilities include determination of three-dimensional structures of relevant proteins such as receptor-ligand complexes, cell adhesion molecules and a variety of enzymes; and contributing to the analysis of these structures and their exploitation for drug design. The successful candidate will join a dynamic multi-disciplinary research team, the Macromolecular Structure Group, which includes existing laboratories in protein crystallography, biomolecular NMR, protein expression, purification and characterization, and molecular modeling.

Qualifications include a Ph.D. in Biochemistry, Chemistry or a related field, a strong record of accomplishment in macromolecular crystallography, knowledge of protein structure and function, and the ability to perform collaborative research. Postdoctoral research experience is also required.

We offer a competitive salary, a bonus program and a comprehensive benefits package. To apply, send resume with salary history/requirements to: **Ms. Eleanor Malone, Staffing Department EM014VM, Hoffmann-La Roche Inc., Nutley, New Jersey 07110-1199.** We are an equal opportunity employer.

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### MARIST COLLEGE ASSISTANT PROFESSOR OF ENVIRONMENTAL SCIENCE/BIOLOGY TENURE TRACK—FALL 1994

Marist College is a four year independent, private liberal arts institution located in New York's Hudson Valley, which is 70 miles north of New York City and 70 miles south of Albany.

The Marist College Division of Science invites applications for a tenure track position at the level of Assistant Professor beginning in the fall of 1994. Qualified candidates must have completed a Ph.D. degree and have a strong interest in undergraduate education. Candidates are expected to have a commitment to excellence in teaching and to establish a program of research involving undergraduate students. Preference will be given to candidates with previous college level teaching experience.

Responsibilities include: Teaching an introductory course in environmental issues for majors and a similar course for an honors section of nonmajors; teach freshman level introductory biology courses and associated labs; ability to teach upper level courses in ecology, environmental assessment; development of upper level courses in area of specialization.

Please submit a resume, a description of teaching goals and research plans, and three letters of recommendation by February 15, 1994. Credentials will continue to be accepted until the position is filled. Please address to: **Dr. Andrew Molloy, Chair, Division of Science, Marist College, MPO Box 905, SCIENSCI, Poughkeepsie, NY 12601.**

Marist College is an Equal Opportunity/Affirmative Action Employer.

## MOLECULAR BIOLOGIST

The Department of Biology at East Carolina University (ECU) announces a vacancy for a nine-month, tenure-track Assistant Professor beginning August 22, 1994. We seek a PhD molecular biologist with 2-5 years postdoctoral experience and an established publication record. Departmental programs and facilities support molecular biology research/training and graduate studies at the master's level. The thirty plus faculty include a strong contingency conducting research in biochemistry, microbiology, systems ecology and population genetics. ECU's proximity to the N.C. coast provides excellent access for molecular/ecological studies of coastal microbial systems. Teaching duties include participation in the undergraduate program and graduate course(s) in area of specialty. ECU is a rapidly growing regional university offering competitive salaries. A letter of application describing qualifications and interests, curriculum vita, recent reprints, official transcripts and the names, addresses and telephone numbers of 3 to 5 references should be sent. To: **Dr. Wendall E. Allen, Department of Biology, East Carolina University, Greenville, NC 27858-4353.** Application deadline is March 18, 1994. *ECU is an Equal Opportunity/Affirmative Action University. Applicants must comply with provisions of the Immigration Reform and Control Act.*

## MOLECULAR BIOLOGIST/BIOCHEMIST

Non-tenure-track Lecturer—Annual appointment beginning August 22, 1994. The Biology Department at East Carolina University seeks a broadly trained Ph.D. to teach and coordinate undergraduate and graduate labs/courses in molecular biology/biochemistry. Collaborative research with existing faculty is encouraged in the areas of biochemistry, molecular genetics, immunology or population genetics.

A letter of application, curriculum vita and names, addresses, and telephone numbers of three references should be sent to: **Dr. Robert R. Christian, Department of Biology, East Carolina University, Greenville, NC 27858-4353.** Screening of applications will begin on March 18, 1994 and continue until the position is filled. Official transcripts required at time of employment. *An Equal Opportunity/Affirmative Action University. Applicants must comply with provisions of the Immigration Reform and Control Act.*



### FACULTY POSITION IN THE DEPARTMENT OF NEUROSCIENCES CLEVELAND CLINIC FOUNDATION RESEARCH INSTITUTE

#### Molecular Biology of Myelination

The newly established Department of Neurosciences seeks an outstanding candidate to fill a faculty position at the Assistant, Associate, or full Staff level. Applicants must have a Ph.D. and/or M.D. and an active independent research program. Individuals must utilize state-of-the-art techniques to investigate cellular and molecular aspects of myelination in the central and peripheral nervous system with a focus on axon/glia signalling, transcriptional factors, transgenic technology, dysmyelination, and demyelinating diseases. Excellent departmental facilities and generous start-up funds are available. The Department of Neurosciences is housed in the Health Sciences Building, along with the Departments of Cell Biology and Molecular Biology. Opportunities for interaction with clinical Neuroscience departments are plentiful. Candidates should submit a curriculum vitae, a list of publications, a brief statement of research interests, and three letters of reference to: **Search Committee, Department of Neurosciences-NC30, Cleveland Clinic Foundation, 9500 Euclid Avenue, Cleveland, OH 44195.** *The Cleveland Clinic Foundation is an Equal Opportunity/Affirmative Action Employer.*



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### Research Scientist III/IV

This position will conduct research in the area of heterologous gene expression in bacteria, yeast, or higher eucaryotes.

**Research Scientist III:** Candidates need a B.S. in microbiology, genetics, biochemistry, cell biology, or immunology plus 6 years of related experience; OR an M.S. in microbiology, genetics, biochemistry, cell biology, or immunology, plus 4 years of related experience; OR a Ph.D. in microbiology, genetics, biochemistry, cell biology, or immunology.

**Research Scientist IV:** Candidates need a B.S. in microbiology, genetics, biochemistry, cell biology, or immunology plus 7 years of related experience; OR an M.S. in microbiology, genetics, biochemistry, cell biology, or immunology, plus 5 years of related experience; OR a Ph.D. in microbiology, genetics, biochemistry, cell biology, or immunology plus 1 year of related experience.

Other factors to be considered include experience with enzyme kinetics, intron/exon splicing, gene rearrangement, transposition, recombination, monoclonal antibodies, combinatorial libraries and gene expression in yeast or higher eucaryotes.

Candidates selected for an interview at either level will take an on-site Scientific writing assessment.

At Burroughs Wellcome Co., you will enjoy a compensation and benefits package that is among the best in the pharmaceutical industry, along with the advantages of being part of an innovative pharmaceutical leader. Please send your resume, indicating POS. #65337-29 in your cover letter, by February 7, 1994, to: Burroughs Wellcome Co., Human Resources RD&M, 3030 Cornwallis Road, Research Triangle Park, NC 27709.

For information on other job opportunities with Burroughs Wellcome Co., call our Job Information Line at (919) 315-8347.



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## WORLD AIDS FOUNDATION

The World AIDS Foundation (WAF) announces its intent to support research and education relating to AIDS in the developing world. The goal of the WAF is to facilitate information exchange and to assist developing countries to respond to the AIDS pandemic.

The main area of interest of the WAF is education for health professionals in developing countries, especially in-country training. This includes highly focused workshops which enhance the scientific process and transfer knowledge needed in the effort against HIV infection and AIDS.

The Foundation is particularly interested in projects that are catalytic, and once in place could have a multiplicative effect. Projects that involve collaboration with the WHO Global Programme on AIDS are of particular interest. The WAF is also interested in applications that originate from developing countries and which emphasize collaboration between and among scientists, physicians and public health workers from developed and developing countries. Of special interest are projects which respond to the anticipated increase in HIV infection in South-East Asia and Western Pacific.

**The limit of any single funding request to the Foundation is \$200,000.**

### Application Procedures:

Concept letters and applications may be prepared in either English or French. Applicants should submit concept letters for initial consideration. Following review of concept letters, applicants may be invited to submit complete proposals. The annual deadline for receipt of concept letters is February 1, 1994. However, applicants are encouraged to submit their concepts as soon as possible to assure the greatest amount of time to develop their full proposal.

Concept letters and inquiries should be directed by mail or by fax to either:

**World AIDS Foundation  
Assistant Secretary for Health  
c/o Director,  
Fogarty International Center  
National Institutes of Health  
Building 31, Room B2C02  
9000 Rockville Pike  
Bethesda, Maryland 20892 U.S.A.  
Fax: (301) 402-2056**

or

**Fondation Mondiale SIDA  
c/o Directeur de l'Institut Pasteur  
28 rue du Docteur Roux  
75724 Paris, Cedex 15 FRANCE  
Fax: 0033-1-45688938**

## POSITIONS OPEN

### POSTDOCTORAL POSITION in Ion Channel Research

The mechanism of ion permeation through voltage-dependent Na-channels is being pursued by mutagenesis and single-channel recording. Ongoing studies are focused on interactions of toxins with channels in planar bilayers. Recent Ph.D. graduates with a background in electrophysiology, biophysics or molecular biology are welcome to apply. Direct inquiries and applications to: Dr. Edward Moczydlowski, Yale University School of Medicine Department of Pharmacology, Sterling Hall of Medicine, P.O. Box 3333, New Haven, CT 06510-8066. E-mail: moczydlo@yalemed.bitnet.

**Medicine—POSTDOCTORAL POSITION—CARDIAC PHYSIOLOGY.** A Postdoctoral position is immediately available for research in cardiac function, metabolism and oxygen recovery. The research will involve changes in functional efficiency brought about by myocardial ischemia. Applicants should have a Ph.D. and experience in any aspect of cellular control of myocardial function. Send curriculum vitae, reprints and names of three references to: Harvey R. Weiss, Ph.D., Department of Physiology and Biophysics, University of Medicine and Dentistry of New Jersey, Robert Wood Johnson Medical School, 675 Hoes Lane, Piscataway, NJ 08854-5635. UMDNJ is an Affirmative Action/Equal Opportunity Employer, m/f/d/v, and a member of the University Health System of New Jersey.

**POSTDOCTORAL POSITION** available immediately to study (1) recombinant mutated crystallins of the eye lens produced in a bacterial expression system and (2) tissue-specific expression of crystallin genes. Experience in protein characterization and molecular biology is desirable. Send curriculum vitae and names of three references to: Dr. E. C. Abraham, Department of Biochemistry and Molecular Biology, Medical College of Georgia, Augusta, GA 30912.

MCG is an Equal Opportunity/Affirmative Action Employer.

### POSTDOCTORAL POSITION

Available immediately. To study the regulation of eukaryotic DNA replication using SV40 origin-containing DNA as a model system. Experience in nucleic acid enzymology and general molecular biology preferred. Send curriculum vitae and the names of three references to: Dr. Suk-Hee Lee, Department of Virology & Molecular Biology, St. Jude Children's Research Hospital, 332 North Lauderdale, P.O. Box 318, Memphis, TN 38101-0318; FAX: (901) 523-2622.

Equal Opportunity/Affirmative Action Employer.

**POSTDOCTORAL POSITION, MOLECULAR GENETICS.** To develop novel technologies for DNA diagnostics; skills in biotechnology, computers, and molecular techniques required. Send letter, curriculum vitae, and references to: Dr. Sue Richards, Kleberg DNA Diagnostic Laboratory T536, Baylor College of Medicine, Houston, TX 77030. Telephone: 713-798-6528; FAX: 713-798-6584. Equal Opportunity Employer/Affirmative Action.

**POSTDOCTORAL POSITION** available immediately to study molecular mechanisms underlying the development of hormone-independent, antiestrogen-resistant breast cancer. Studies involve identification of variant steroid receptors and transcriptional regulation of steroid receptor genes. Experience in molecular biology, specifically eucaryotic transcriptional regulation preferred. Send curriculum vitae and 3 letters of reference to: Steven M. Hill, Ph.D., Department of Anatomy/Tulane Cancer Center, Tulane University School of Medicine, 1430 Tulane Avenue, New Orleans, LA 70112. Telephone: (504) 587-7696. Tulane is an Equal Opportunity/Affirmative Action Employer.

**MOLECULAR BIOLOGY POSTDOCTORAL POSITIONS (2)** available to study gene expression involving growth factors, cytokines, steroidogenesis and lipid peroxidation enzymes in multidisciplinary projects. Experience in above areas with strong molecular biology expertise required. Send curriculum vitae to: Dr. S. Parthasarathy, Department of Gynecology and Obstetrics, Emory University, P.O. Box 21246, Atlanta, GA 30322. An Equal Opportunity/Affirmative Action Employer.

## POSITIONS OPEN

**POSTDOCTORAL POSITION.** Department of Neurosciences, Cleveland Clinic Foundation. Postdoctoral Fellow will join ongoing NIH-funded studies investigating the cellular and molecular biology of myelination and the pathogenesis of dysmyelinating and demyelinating diseases. Experience in cellular and molecular biological techniques required. Please send curriculum vitae, names of three references, and statement of research interests to: Bruce D. Trapp, Ph.D., Chairman, Department of Neurosciences, NC-30, Cleveland Clinic Foundation, 9500 Euclid Avenue, Cleveland, OH 44195. The Cleveland Clinic Foundation is an Equal Opportunity/Affirmative Action Employer.

**POSTDOCTORAL POSITION.** Department of Neurosciences, Cleveland Clinic Foundation. Postdoctoral Fellow will join ongoing NIH-funded studies investigating the function of the amyloid precursor protein in normal development, normal ageing, and in Alzheimer diseased brains. Experience in cellular and molecular biological techniques required. Please send curriculum vitae, names of three references, and statement of research interests to: Bruce D. Trapp, Ph.D., Chairman, Department of Neurosciences, NC-30, Cleveland Clinic Foundation, 9500 Euclid Avenue, Cleveland, OH 44195. The Cleveland Clinic Foundation is an Equal Opportunity/Affirmative Action Employer.

### POSTDOCTORAL POSITION Available Spring 1994

Projects will involve the molecular, genetic and cell biological analysis of human proteins that coordinate stress signaling pathways and control of cell morphology during cell differentiation and carcinogenesis. Applicants should have a strong background in molecular biology, biochemistry or yeast genetics. Please send a brief summary of research interests, curriculum vitae and names and addresses of three references to: Dr. E. A. Golemis, c/o Human Resources Department—MAS, Fox Chase Cancer Center, 7701 Burholme Avenue, Philadelphia, PA 19111. Equal Opportunity Employer.

**A POSTDOCTORAL POSITION** is available immediately to study the function of steroid hormone receptors during early embryonic development of the sea urchin. Experiments will examine maternal and embryonic mRNA localization and expression in normal and manipulated embryos. Preference will be given to applicants with strong background in developmental biology and experience with molecular biology techniques. Send curriculum vitae and the names of three references to: Dr. Constantin N. Flytzanis, Department of Cell Biology, Baylor College of Medicine, Houston, TX 77030. BCM is an Equal Opportunity/Affirmative Action Employer. Women and minority candidates are encouraged to apply.

**POSTDOCTORAL POSITION** available immediately to assist in studies in molecular genetics of mammalian development and oncogenesis. Ph.D. in Cell, Molecular or Developmental Biology. Strong background in genetics and molecular biology essential. Send curriculum vitae and names of three references by February 10, 1994, to: Dr. Paulette J. McCormick, Department of Biological Sciences, University at Albany, SUNY, 1400 Washington Avenue, Albany, NY 12222. Equal Opportunity/Affirmative Action Employer.

### POSTDOCTORAL POSITION MOLECULAR IMMUNOLOGY/ CELL BIOLOGY

A position for a postdoctoral fellow is available in cellular/molecular immunology with an emphasis on the interface between T cell signal transduction events and T cell adhesion receptor biology (see *Nature* 345:250, 1991, *J. Exp. Med.* 177:207, 1993, *J. Immunol.* 151:4106, 1993 for related work in the lab). Candidates must possess solid Ph.D. training and high scientific standards. While prior training and experience in molecular biology or biochemistry is preferable, the most important requirement is enthusiasm for the scientific project.

Send curriculum vitae, summary of research experience, and the names and addresses of three references to: Dr. Yoji Shimizu, The University of Michigan Medical School, Department of Microbiology and Immunology, 6620 Medical Science Building II, Ann Arbor, MI 48109-0620.

The University of Michigan is an Equal Opportunity/Affirmative Action Employer and encourages the application of qualified women and underrepresented minorities.

## POSITIONS OPEN

### MEMORIAL SLOAN-KETTERING CANCER CENTER SPECIAL FELLOWSHIP IN MEDICAL ONCOLOGY-HEMATOLOGY

The Department of Medicine at Memorial Sloan-Kettering Cancer Center is offering Special Fellowship training positions in medical oncology for physician scientists committed to an academic research career that is based in laboratory investigation. The fellowship positions will focus on intensive training in laboratory investigation, and will also provide the level of clinical experience required for board certification in medical oncology (and/or hematology). Successful candidates will have the opportunity to select from a large number of outstanding research laboratories in the Sloan-Kettering Institute and the Department of Medicine at the Center. The faculty includes investigators in areas with potential or direct application to the diagnosis and therapy of cancer, including genetics and genetic engineering, gene therapy, molecular biology, structural biology, growth regulation and signal transduction, oncogenesis, immunology and immunotherapy, and molecular pharmacology. Interested individuals should apply to: John Mendelsohn, M.D., Chairman, Department of Medicine, Memorial Sloan-Kettering Cancer Center, 1275 York Avenue, New York, NY 10021. Telephone: 212-639-5851. Applications from minorities are encouraged. Please enclose a copy of your curriculum vitae, a brief statement of your research interests, and the names of three individuals who can evaluate your potential for a successful career in laboratory investigation.

**POSTDOCTORAL POSITION** available immediately to study RNA in postischemic brain for a 5-year NIH-funded project in progress. Experience in molecular biology techniques, e.g., Northern blot, *in situ* hybridization or immunohistochemistry desired. Send curriculum vitae and names and telephone numbers of 3 references to: Kusum Kumar, M.D., Michigan State University, Department of Pathology, 532 East Fee, East Lansing, MI 48824 or FAX to: 517-336-1053, attention Dr. Kumar. MSU is an Affirmative Action/Equal Opportunity Institution.

**POSTDOCTORAL POSITION** available for an Organic, Medicinal, or Biochemistry Ph.D. to develop techniques to sequence polysaccharides and to understand carbohydrate-protein interactions. Background in carbohydrate chemistry, electrophoresis/biopolymer sequencing, enzymology and NMR desirable. Ability to work across disciplines essential. Women and minorities are encouraged to apply. Salary \$24,000 plus fringe benefits. Send résumé and two letters of reference to: Professor Robert J. Linhardt, Division of Medicinal and Natural Products Chemistry, College of Pharmacy, University of Iowa, Iowa City, IA 52242. The University is an Equal Opportunity/Affirmative Action Employer.

### NRL POSTDOCTORAL FELLOWSHIP PROGRAM

Joint Oceanographic Institutions, Inc. is pleased to announce the Naval Research Laboratory Postdoctoral Fellowship Program in Ocean and Atmospheric Science and Technology. Research opportunities are currently available in marine meteorology, remote sensing, ocean acoustics, and physical, chemical, and biological oceanography. Participants must be U.S. citizens. For more information please contact: NRL Postdoctoral Fellowship Program, JOI, Inc., 1755 Massachusetts Avenue, NW, Suite 800, Washington, DC 20036-2102; Telephone: (202) 232-3900; ckappel@brook.edu.

### POSTDOCTORAL FELLOW

Carolinas Medical Center, an 843-bed teaching, trauma and major referral center, is currently recruiting for a Postdoctoral Fellow. Works on the effects of stress on immune responses and resistance to infection. Ph.D., M.D., D.M.D., or D.V.M. or equivalent doctoral degree and experience working on research in immunology/infectious disease required. Project will focus on development of models for stress and immunity, with a goal of developing basic science systems that may prove to be of eventual clinical significance. Send a copy of your curriculum vitae and 3 references to: Human Resources, Charlotte-Mecklenburg Hospital Authority, P.O. Box 32861, Charlotte, NC, 28232-2861 or call (704) 355-2101 or (800) 942-6898. Equal Opportunity Employer.

PROVOST OF THE COLLEGE OF LETTERS  
AND SCIENCE  
UNIVERSITY OF CALIFORNIA  
SANTA BARBARA

The University of California, Santa Barbara invites applications and nominations for the position of Provost of the College of Letters and Science. The College is the largest academic unit within UCSB and consists of the Divisions of Humanities and Fine Arts, Social Sciences, Mathematical, Life and Physical Sciences, and Student Academic Affairs. The College has approximately 750 faculty, over 1,600 graduate students, and more than 15,000 undergraduates in 80 majors within 45 academic departments and interdisciplinary programs.

The Provost serves as the chief academic and executive officer of the College with responsibility for staffing, budget, curriculum, student academic affairs, and space management. Primary qualifications for the position include a successful record of administrative experience and leadership in higher education; academic accomplishments as a scholar and teacher that meet the standards for a tenured appointment at the rank of full professor in the University of California; a commitment to the diverse mission of a major public university, including undergraduate and graduate instruction, research, public service, and outreach to the diverse constituencies that the University serves; and the ability to relate to external constituencies.

The desired starting date is on or before July 1, 1994. Review of candidates will begin March 1, 1994 and continue until the position is filled. Inquiries, nominations, and applications should be addressed to:

Professor Charles Samuel, Chair  
Provost's Search Committee  
c/o Office of Academic Personnel  
University of California  
Santa Barbara, CA 93106-2030  
Phone: (805) 893-2010  
FAX: (805) 893-4445

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**B**ecton Dickinson & Company currently has the following position available at our Research Triangle Park facility:

**NUCLEIC ACIDS DIAGNOSTIC POSITION**  
**Becton Dickinson Research Center**

**W**ill support our effort in nucleic acid-based diagnostics. Must be a qualified Ph.D. in chemistry, biochemistry or biophysics with 1-5 years of relevant post-doctoral experience. Requires extensive research experience in dynamic and polarization fluorescence and ligand binding interactions. Knowledge of nucleic acid structure or experience with solid phase biosensors is a plus. Applicants must have strong interpersonal and communication skills.

**F**or immediate consideration, please send your resume to: **Human Resources, Becton Dickinson & Company Research Center, 21 Davis Drive, Research Triangle Park, NC 27709. AA/EO Employer.**

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**Pharmacologist:**

We are seeking a scientist with a PhD in pharmacology or related fields to study the metabolism/pharmacology of our new anti-inflammatory drugs. The candidates should have 4-5 years of pharmaceutical experience and scientific publications in this area. An interest and background in drug metabolism and inflammation is desirable.

**Molecular Biologist:**

BS/M.Sc. level scientist with 2-5 years of industrial or academic experience and expertise in mammalian cell culture and molecular biology techniques including vector construction, DNA transfection, measurement of RNA and protein expression levels, DNA sequence analysis, electrophoresis, and PCR required. Experience with transforming genes and cell transformation is desirable.

**Biochemist/Enzymologist:**

B.S. or M.Sc. level scientist with at least two years of experience in an academic or industrial laboratory to perform in vitro and ex vivo enzyme assays precisely and to purify and characterize enzymes of interest. The ideal candidate has experience in computerized instrumental analysis (HPLC, FPLC, spectrophotometry, fluorometry), SDS-PAGE, and protein assays.

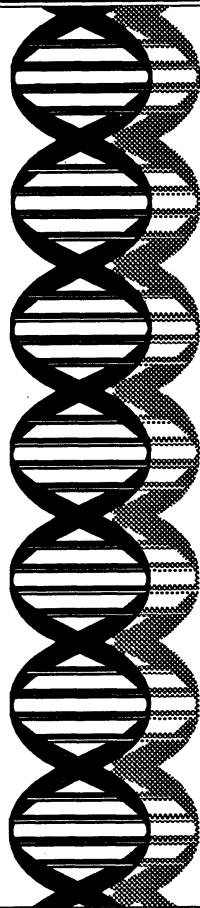
**Synthetic Chemists/Medicinal Chemists:**

PhD, BS or MS level synthetic chemists with 0 to 5 years experience in pharmaceutical research. The ideal candidates should be motivated to demonstrate their experimental skills in the lab.

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**385 Oyster Point Blvd., Suite 3**  
**South San Francisco, CA 94080**  
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P.O. Box 7451  
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FAX (805) 494-1870



## FACULTY POSITIONS

The Department of Botany and Plant Pathology at Oregon State University has two tenure-track, 9-month ASSISTANT PROFESSOR positions available September 16, 1994.

**MYCOLOGY:** Teaching responsibilities include introductory and advanced mycology and contributions to the general biology curriculum. Areas of research may include, but are not limited to, evolutionary biology, population genetics and systematics of fungi. The mycologists will have responsibility for oversight of the mycological collection. A Ph.D. in mycology, or related field, and evidence of training in fungal systematics is required.

**PHYCOLOGY/CELL BIOLOGY:** Teaching responsibilities include a graduate course in area of specialization, contributions to the general biology curriculum and to curriculum in phycology and the morphology of non-vascular plants. Areas of research specialization in algal cell biology include, but are not limited to, signal transduction mechanisms, protein trafficking, cellular responses to environmental changes and cellular differentiation and morphogenesis in algal systems. A Ph.D. in phycology or closely related area is required.

Both positions required establishment of an extramurally-funded research program and a commitment to teaching excellence. Teaching and postdoctoral research experience and willingness to participate in interdisciplinary studies are preferred.

Applicants should send a curriculum vitae, statement of research interests, statement of teaching interests and philosophy, copy of transcripts or other evidence of training appropriate to teaching duties, reprints of representative publications, and three letters of reference by February 28, 1994 to Mycology OR Phycology/Cell Biology Search Committee, Department of Botany and Plant Pathology, Oregon State University, Cordley Hall 2082, Corvallis, OR 97331-2902.

OSU is an AA/EEO employer and is responsive to dual-career needs.

NYU  
Medical  
Center

## RESEARCH POSITIONS

NYU Medical Center currently has openings in the lab of Dr. Leslie Gold, Department of Pathology.

Two Postdoctoral Fellowship or Research Associate positions are available to investigate mechanisms of TGF- $\beta$  action 1) carcinogenesis and 2) inflammation. The first position involves the study of TGF- $\beta$  in certain aspects of growth control and cytokine interaction in certain carcinomas. The effects of TGF- $\beta$  on integrin expression and signal transduction pathways involved in matrix interaction of transformed cells will also be studied. Molecular Biology experience as well as tissue culture experience is necessary. The second position concerns the role of TGF- $\beta$  in inflammation, wound repair and the process of fibrosis, especially with respect to scarring after wounding. In situ hybridization, Immunohistochemistry, and knowledge of protein chemistry techniques are desirable for both programs. These candidates should demonstrate the ability to work independently. We are interested in both first year post-doctoral fellows as well as more senior scientists seeking academic advancement.

In addition, another Postdoctoral position is available for a candidate with both a strong background in Molecular Biology and Protein Chemistry to study the structure function relationship of fibrin binding activity of fibronectin. This study involves cloning and expressing cDNAs of fibronectin, protein purification, Scatchard analysis (by surface plasmon resonance, BIA-core), and use of ELISA. An exciting new application for this project in medical science will also be tested.

We offer an excellent salary commensurate with experience. Send c.v. and the names of 3 references to Maha Singh, Human Resources Dept., NYU Medical Center, 550 First Ave., New York, NY 10016. C.V.s must be received by Jan. 31. EOE, M/F.



C.R. Bard is an established leader in the development and manufacture of high quality medical devices and biotech products. Continued growth and the introduction of new products have created a need for a:

### SR. PROJECT SCIENTIST/ENGINEER

This position, located at our Urological Division headquartered in Covington, GA (Metro Atlanta), will have responsibility for the development of innovative and improved continence and biotech products from idea/concept to product release for commercialization.

The ideal candidate will have a B.Sc, M.S. and/or Ph.D degree in Biochemical, Biomedical, Chemical, Physical, Biological Sciences, or Engineering or equivalent and 12+ years of industrial Applied Research/Product development experience in the medical device, biotechnology and/or pharmaceutical field. Knowledge of domestic and international regulatory requirements on medical devices, biotech products and/or pharmaceuticals and experience in GLP and GMP required. Excellent verbal and written communication skills essential.

If you consider yourself a talented individual with a high performance orientation, you are encouraged to forward a current resume including salary requirements to: Human Resources Department, Bard Urological Division, 8195 Industrial Blvd., Covington, GA 30209. An EOE, M/F/D/V.

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# RESEARCH & DEVELOPMENT POSITIONS

We are currently increasing efforts involving the non-radioactive detection of macromolecules by fluorescent-based detection systems and are in need of expertise in this area to successfully expand novel products and external research collaborations in the field. As a result, the following positions are available:

## SCIENTISTS:

- **Bioanalytical-11100A.** M.S./B.S. with 3-5 years experience in molecular biology; experience in analytical techniques applied to isolation, purification and detection of nucleic acids; and experience with fluorescence spectroscopy and its application toward molecular biology.
- **Detection-Purification-11100B.** M.S. with 3-5 years' experience; extensive experience with routine molecular biology methods; and expertise with fluorescent *in situ* hybridization or other *in situ* hybridization methods is a requirement.
- **Genetic Analysis-11100C.** B.S. in molecular biology or related area. Minimum 2 years' lab experience with molecular biology of nucleic acids.
- **Molecular Biology-11100D.** M.S./B.S. with 3-5 years experience in molecular biology; experience in routine molecular biology techniques; and experience with fluorescence techniques applied to molecular biology. Prefer experience with fluorescent-based instrumentation.

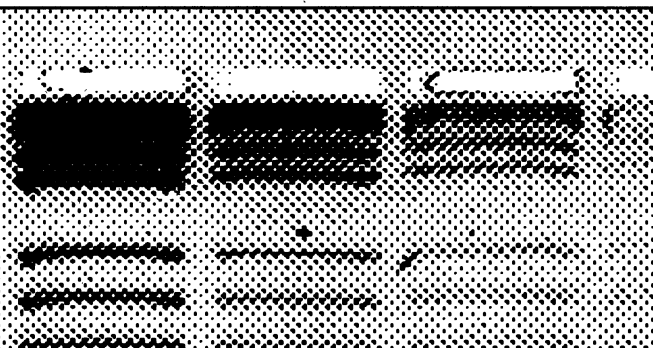
## SENIOR SCIENTISTS:

- **Complex Genome Analysis-11104B.** Ph.D. in molecular biology with 2 years' post-doc experience; significant experience with DNA analysis techniques; and experience with non-radioactive nucleic acid detection techniques. Prefer experience with fluorescent DNA detection instrumentation and HPLC and capillary electrophoresis instrumentation.
- **Detection-Purification-11104C.** Ph.D. with 3-5 years' post-doc experience; extensive experience in yeast genetics and expression of heterologous proteins in yeast or other eukaryotic expression systems; and experience with routine molecular biology methods.
- **Genetic Analysis-11104D.** Ph.D. in molecular biology or related area and minimum of 5 years' lab experience. Prefer 2 years' experience in an industrial setting; experience with nucleic acid purification and amplification methods, linkage analysis, fluorescent *in situ* hybridization and/or non-isotopic detection methods; experience handling clinical or forensic materials; and facility with computer based analyses, especially national genome databases and DNA analysis software.

We are a world leading biotechnology company offering competitive salary, comprehensive benefits and an innovative environment in the city that Money Magazine rated as 2nd best in the U.S. in 1993. If you qualify for the above positions, please send resume with salary requirements to: **PROMEGA CORPORATION, Human Resources/(Position Title/Code #), P.O. Box 7879, Madison, WI 53711-7879.** Equal Opportunity Employer. No agency solicitation accepted.



**Promega**



Molecular Dynamics, the company that brought the life science research community the PhosphorImager™, has recently introduced a new innovative instrument for the detection and quantitation of bio-molecules in gels, microtiter plates, and other samples generated in molecular biology laboratories. The model 575 FluorImager™ is a laser optics based instrument that generates digital images from fluorescently labeled biomolecules. It's sensitive, quantitative, and eliminates the need for radioactive labels.

## Field Applications Specialists

The positions we seek will be responsible for instrument installation, customer training, and field applications support. Qualifications include BS/MS (life sciences), 2+ years of laboratory research experience in molecular biology or biochemistry, willingness to travel, and enthusiasm for the opportunity to be an important player on the Molecular Dynamics team. You don't have to be a programmer but computer skills (Windows and/or Mac) are important.

We offer a competitive compensation and benefits package including sabbaticals, equity in the company, but some long hours, and lots of travel. These are career opportunities only a fast growing company can provide. Our Field Applications Support positions are designed to be a training ground for our sales and marketing organizations.

We provide the opportunity for you to make a difference. You provide the drive and skills to continue our progress. We offer an environment that nurtures innovation and excellence. Please send a letter of introduction and your resume to: **John Gordon, V.P. Human Resources, Molecular Dynamics, 928 E. Arques Avenue,**

**Sunnyvale, CA 94086.** We are an equal opportunity employer.



**Molecular Dynamics**

## POSITIONS OPEN

### HIGH RESOLUTION NMR SPECTROSCOPY POSTDOCTORAL POSITION

National High Magnetic Field Laboratory/  
Florida State University NMR Program

The National High Magnetic Field Laboratory at Florida State University has an opening for a postdoctoral appointment in high resolution NMR spectroscopy to study peptide solvent interactions. Studies of lipid soluble peptides are underway, and data showing that a variety of stable conformations in both membrane and organic solvent environments has been achieved. This is a recently funded NIH study to ascertain how solvent dependent conformations are stabilized and/or trapped. Deadline for applications is February 28, 1994.

Applications should include a résumé and list of at least three references. Applications should be sent to: **Prof. Timothy A. Cross, National High Magnetic Field Laboratory, 1800 East Paul Dirac Drive, Tallahassee, FL 32306-4005.**

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

### POSTDOCTORAL POSITION IN GENE REGULATION

The American Health Foundation, a leading nonprofit scientific research foundation, offers an excellent opportunity to study the regulation of UV-inducible genes in normal and transformed melanocytes. A strong background in molecular biology with experience in kinase and/or phosphatase characterization 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, M/F/H/V.*

**BIOCHEMICAL ENDOCRINOLOGIST—POSTDOCTORAL POSITION.** Research focus on mechanism of action of gonadotropic hormones, synthesis and testing of peptide agonists and antagonists, receptor biochemistry, signal transduction. Strong biochemistry background and familiarity with field desirable. Send curriculum vitae to: **Dr. Leo E. Reichert, Jr., Department of Biochemistry and Molecular Biology (A-10), Albany Medical College, Albany, NY 12208.**

### POSTDOCTORAL TRAINING IN VASCULAR BIOLOGY AT THE UNIVERSITY OF VIRGINIA

Applications are being accepted for postdoctoral training in basic vascular biological research. The training program involves an interdisciplinary group of mentors involved in several areas of research in cell biology, pharmacology, and physiology. Studies on cell signaling and second messenger function in vascular smooth muscle cells, endothelial cells, and white cells are ongoing, as well as investigations into the processes of cell-cell communication between and among those cell types in the vessel wall. Experimental approaches include a wide range of molecular biological techniques, as well as measurements of molecular and cellular function and *in vivo* physiology and pharmacology. Interested candidates should have excellent records in graduate education, and must possess either U.S. citizenship or a green card. Applications should include a résumé, listing relevant courses taken, dissertation plans, and two letters of recommendation from advisors and other supervisors. Send applications to: **Brian R. Duling, Ph.D. Department of Molecular Physiology and Biological Physics; Box 449; University of Virginia School of Medicine; Charlottesville, VA 22908. THE UNIVERSITY OF VIRGINIA IS AN EQUAL OPPORTUNITY EMPLOYER.**

**POSTDOCTORAL FELLOWSHIP** using the yeast retrotransposon Ty1 to study host genes that influence the rate of retroviral integration and the choice of integration sites. Effects of altered chromatin structure on integration will also be examined.

Available after January 1, 1994, for 2 to 4 years. Competitive salary and benefits. Applicants with experience in yeast genetics and/or molecular biology are preferred. Send curriculum vitae with names of 3 references or inquire to: **Dr. Susan Liebman, Department of Biological Sciences, University of Illinois at Chicago, 845 West Taylor Street, Chicago, IL 60607-7060; Telephone: 312-996-4662, FAX: 312-413-2691. UIC is an Affirmative Action/Equal Opportunity Employer.**

## POSITIONS OPEN

### POSTDOCTORAL FELLOWS CENTER FOR NEUROSCIENCE UNIVERSITY OF CALIFORNIA, DAVIS

The Center for Neuroscience at UC Davis has positions available for postdoctoral research and training in Cognitive Neuroscience. Persons holding Ph.D. or M.D. degrees who are interested in the brain bases of cognitive function are encouraged to apply. The recently established Center serves as a focus for the continuing development of the neurosciences at UC Davis. Faculty members in the cognitive neuroscience group have active research programs in various areas of cognition including, studies of attention, learning, memory, language, visual and auditory perception, hemispheric specialization and cortical function. Research in healthy persons and well-defined patient populations is conducted using behavioral, electrophysiological, and metabolic and structural imaging methods. Studies are also conducted in animals including non-human primates, the latter being facilitated by the California Primate Research Center at UC Davis. Send curriculum vitae, statement of interests and the names, telephone numbers and addresses of three references to: **Dr. Michael Gazzaniga, Director, Center for Neuroscience, University of California, Davis, CA 95616. UCD is an Equal Opportunity/Affirmative Action Employer.**

**POSTDOCTORAL FELLOWSHIPS in Molecular Neuroimmunology and Neuroimmunomodulation at the University of Alabama at Birmingham (UAB)** are available July 1, 1994, supported by an NIH Training Grant for basic scientists or clinicians to conduct research on the molecular basis of neuroimmunology, neuroimmunomodulation and the bidirectional communication between the nervous and immune systems. Applicants must be U.S. citizens or permanent residents of the United States. Preceptors and areas of interest are as follows: **S. R. Barnum, Ph.D.** (production and regulation of complement components); **E. N. Benveniste, Ph.D.** (cytokines and glia); **J. E. Blalock, Ph.D.** (neuroimmunomodulation: lymphocyte derived hormones); **E. J. Dropcho, M.D.** (paraneoplastic neurological disorders); **M. L. Egan, Ph.D.** (immunoregulation and natural killer cells); **G. Y. Gillespie, Ph.D.** (immune response to glial tumors); **R. D. LeBoeuf, Ph.D.** (molecular biology of the immune network); **J. D. Neill, Ph.D.** (neuro-endocrinology); **D. A. Weigent, Ph.D.** (growth hormone and the immune system); and **J. N. Whitaker, M.D.** (immunochromatin and idiosyncratic related to myelin basic protein). Interested applicants should submit a letter stating their specific interests, curriculum vitae and names of three references by **February 14, 1994**, to: **John N. Whitaker, M.D., Department of Neurology, University of Alabama at Birmingham, Birmingham, AL 35294; (Telephone: 205/934-2402). UAB is an Affirmative Action/Equal Opportunity Employer.**

**A POSTDOCTORAL FELLOWSHIP** at the Medical University of South Carolina is available immediately to study the mechanisms for G-protein coupled receptor stimulated proliferation in vascular smooth muscle. Requirements include a Ph.D. in Physiology or Pharmacology with experience in cell culture, signal transduction, regulation of gene expression or animal models of disease desired. Please send curriculum vitae and the names of three references to: **Thomas A. Morinelli, Ph.D., Department of Cell and Molecular Pharmacology and Experimental Therapeutics, MUSC, 171 Ashley Avenue, Charleston, SC 29425. FAX (803) 792-0816.**

### NATIONAL NEEDS FELLOWSHIPS IN MOLECULAR CROP PROTECTION NORTH CAROLINA STATE UNIVERSITY

Graduate fellowships for research leading to a Ph.D. degree in Botany, Entomology, Genetics, or Plant Pathology will be awarded to highly qualified applicants interested in the utilization of biotechnology approaches for protection of crop plants against pests and pathogens. Research areas include: (1) identification and characterization of genes from plants, insects, and microorganisms; (2) development and analysis of transgenic plants; and (3) the ecological consequences of transgene deployment. Applications from U.S. citizens and residents should be received by **15 February 1994**. For information and application forms, contact: **Dr. Charlie Opperman, Department of Plant Pathology, Box 7616, North Carolina State University, Raleigh, NC 27695-7616; Telephone: (919) 515-6699; FAX: (919) 515-7716.**

## POSITIONS OPEN

### ECOLOGICAL SUMMER RESEARCH FELLOWSHIP

The Institute of Ecosystem Studies (IES) will award a three-month fellowship for summer 1994 to conduct ecological research as part of the program of IES at the Cary Arboretum in Millbrook, New York. The award carries a small summer stipend and research allowance. Candidates (Ph.D. required) must have the sponsorship of one of the members of the Institute's scientific staff. To obtain information or to submit a letter of application, curriculum vitae and names of three references, contact: **Dr. Peter M. Groffman, Institute of Ecosystem Studies, Box AB, Millbrook, NY 12545-0129 by 1 March 1994. An Equal Opportunity Employer.**

**NIH and Institutional PREDOCTORAL and POSTDOCTORAL FELLOWSHIPS** in cardiovascular and neurophysiology at the University of California, Davis. Preceptors (16) will direct individualized training programs to develop knowledge and technical skills required to become independent investigators. Candidates for postdoctoral fellowships must have M.D. or Ph.D.; M.D.'s must have completed all clinical training. Submit curriculum vitae to: **John Longhurst, M.D., Ph.D., Cardiovascular Medicine, TB172, University of California, Davis, CA 95616.** Review of applications is ongoing. *The University of California is an Equal Opportunity/Affirmative Action Employer.*

**POSTDOCTORAL FELLOWSHIP** available immediately, to study the mechanisms by which xenobiotics (particularly peroxisome proliferators) induce or promote hepatic carcinogenesis using whole animal, cell culture and transgenic models. Background in molecular biology is desirable. *This NIH-sponsored fellowship is open only to U.S. citizens or permanent residents.* Please send curriculum vitae and the names of 3 references to: **Dr. Howard P. Glauert, University of Kentucky, 219 Funkhouser Building, Lexington, KY 40506-0054; FAX: 606-257-3707. Equal Opportunity Employer.**

### POSTDOCTORAL FELLOWSHIP

The University of Florida, Department of Medicinal Chemistry is in search of a Pharmacologist. The candidate should have experience in Enzymology. Send statements of research and research interests, curriculum vitae, and three letters of reference to: **Dr. R. J. Bergeron, University of Florida, Department of Medicinal Chemistry, Box 100485 JHMC, Gainesville, FL 32610.**

**POSTDOCTORAL POSITION** available in Microbial Ecology for an individual interested in the development of *in vitro* models for human microbial ecosystems. The proposed research deals with the use of both continuous culture and mathematical models of complex microflora. Emphasis will be placed on understanding factors associated with both health and disease. Background in bacterial physiology and/or pathogenesis is desirable. Send curriculum vitae and list of references to: **DR. ANDREW ONDERDONK, CHANNING LABORATORY, HARVARD MEDICAL SCHOOL, BRIGHAM AND WOMEN'S HOSPITAL, 180 LONGWOOD AVENUE, BOSTON, MA 02115. Equal Opportunity/Affirmative Action Employer. Women and minorities are encouraged to apply.**

### SENIOR DATABASE ANALYST

The South Florida Water Management District has an opening in our Everglades Systems Research Division, Department of Research. The ideal candidate will have at least a B.S. in computer sciences, two years of experience managing large environmental databases (e.g., hydrology, biology or chemistry) using Oracle within a UNIX environment, and excellent written/oral communication skills. Additional programming experience with FORTRAN, C, SAS and/or ARCInfo is desirable.

We offer a competitive salary and a comprehensive, flexible benefits program. *Pre-employment drug screening is required.* For additional information, please contact: **Dr. Michael Chimney, Telephone: (407) 686-8800, extension 6523.** Submit résumé with social security number to: **Human Resources, South Florida Water Management District, Reference #SCILS7140, 3301 Gun Club Road, West Palm Beach, FL 33406. Equal Opportunity Employer, M/F/D/V.**

## COLD SPRING HARBOR LABORATORY POSTDOCTORAL POSITIONS IN CELLULAR AND MOLECULAR BIOLOGY

Positions starting April 1994 to investigate the function and mechanism of action of the "non-essential" nef gene of immunodeficiency viruses are available. Projects focus on: 1) the effects of nef on the normal function and survival of T cells, 2) the biochemical and genetic analysis of nef interaction with CD4, 3) structure-function analysis of nef. We use a combination of genetic, immunologic and biochemical techniques in vitro, and in vivo in transgenic mice. Strong background in T cell biology and/or recombinant and protein techniques required.

Interested candidates should send a curriculum vitae and arrange to have three letters of reference sent to: **Dr. Jacek Skowronski, Cold Spring Harbor Laboratory, P.O. Box 100, Cold Spring Harbor, NY 11724.**

*Equal Opportunity Employer M/F*



## Meeting Announcement

### Workshop on HIV/SIV Pathogenesis and Mucosal Transmission AIDS Postdoctoral Fellows Meeting

March 14-17, Bethesda, Maryland

The purpose of the Workshop is to identify research priorities in the area of pathogenesis and mucosal transmission and to promote collaboration between investigators in basic biological research, in clinical/epidemiological research and in non-human primate models of HIV disease. Topics will include biology of mucosal transmission, host factors affecting susceptibility to infection and/or rates of progression, animal models of HIV pathogenesis, and HIV/SIV-related neuropathogenesis. The NIAID anticipates additional funding in FY95 for collaborative multidisciplinary research in HIV/SIV Pathogenesis and in Sexual/Mucosal Transmission.

A concurrent AIDS Postdoctoral Fellows Meeting will provide opportunities for postdoctoral fellows to network with AIDS investigators. The Fellows Meeting will include additional topics (e.g., neuro-AIDS, pharmaconeuroimmunology, and strategies to prevent HIV infection and transmission), posters, short talks and tutorial sessions. Funds will be provided to a limited number of minority scientists to attend the meeting in order to encourage participation of minority groups that are underrepresented in AIDS research.

For registration, abstract submission, or further information contact:



Mary Novak  
HIV/SIV Pathogenesis and Mucosal Transmission  
AIDS Postdoctoral Fellows Meeting  
ATLIS Federal Services, Inc.  
6011 Executive Boulevard  
Rockville, Maryland 20852  
Telephone: (301) 816-4221; FAX: (301) 468-6759

Sponsored by the National Institute of Allergy and Infectious Diseases (NIAID), National Institute on Drug Abuse (NIDA), National Institute of Mental Health (NIMH), and NIH Office of AIDS Research.

**Deadline for Application and Abstract Submission March 1, 1994**



## L.C. Smith College of Engineering THE NIAGARA MOHAWK PROFESSORSHIP

The L.C. Smith College of Engineering and Computer Science is seeking to appoint a distinguished scholar as the Niagara Mohawk Professor. Candidates should have broadly based interests in energy production and utilization, the environmental impact of energy use and delivery, and the strategic planning and modeling activities needed. The appointee will have a distinguished record of achievement in at least one of those areas. In addition to the duties of a tenure Professor in the most appropriate Program of the College (e.g. Chemical Engineering, Computer Science, Civil Engineering, Environmental Engineering, Electrical Engineering, Computer Engineering, or Mechanical Engineering), the Niagara Mohawk Professor will serve as the Director of the new Center for Environmental Science and Engineering (CESE). In that capacity, he or she will be charged with building an active and integrated research and academic program based on the strengths of the College in environmental engineering and science and computer modelling. The Center will work cooperatively with faculty outside the College, in biology, geology, and public policy, with faculty at the SUNY College of Environmental Science and Forestry and with government organizations and industry including the Niagara Mohawk Power Corporation of New York which supports the Chair.

Applications and nominations should be submitted to Dr. Karen Hilemae, Chair, Search Committee, Niagara Mohawk Professorship, Room 329, Link Hall, Syracuse University, Syracuse NY 13244-1240 (E-mail: karen\_hilemae@isr.syr.edu or njmereau@suvn.syr.edu) from whom further information can be obtained. The Search Committee will begin its review of applications on March 1, 1994. Syracuse University is an Affirmative Action/Equal Opportunity Employer and encourages applications from women and members of other under-represented groups.

Research

## Senior Program Officer International Health

The INSTITUTE OF MEDICINE of the National Academy of Sciences is seeking a Senior Program Officer for an 18-month study on applications of biotechnology to contraceptive development for the developing world. Incumbent will plan, organize, and manage study programs and meetings; maintain active liaison with sponsors; oversee project staff and budget; and be responsible for report production. Requires a M.A./M.S. or equivalent in science and/or public health and at least 8 years related experience, or Ph.D. or equivalent with at least 4 years related experience. Requires excellent analytical, oral, and written communication skills and demonstrated ability to interact effectively with expert committee of senior scientists and policy analysts. Experience with and knowledge of international public health, relevant science base, and public- and private-sector R&D process and policy issues highly desired. Please send resume/cv in confidence to:  
**NRC/IOM, FO 3076  
(PH), 2101 Constitution  
Avenue, NW,  
Washington, DC  
20418. EOE**



## FACULTY POSITION IN PHARMACOLOGY UNIVERSITY OF NORTH CAROLINA AT CHAPEL HILL SCHOOL OF MEDICINE

The Department of Pharmacology invites applications for a tenure-track position at the Assistant Professor level. Qualified candidates will be considered at the Associate Professor level. Applicants must have a relevant Ph.D. or M.D. degree and at least two years of postdoctoral training. Preference will be given to individuals with demonstrated competence in applying modern techniques of molecular biology, biochemistry, or biophysics to fundamental problems in the broad areas of signal transduction or ion channel biology. The successful candidate will be expected to establish a well-funded, independent research program and to participate in the graduate and professional educational activities of the Department.

The strengths of the Department include active research programs in a) membrane receptor and ion channel biology, b) neuropharmacology and intracellular signalling, c) nucleic acid biochemistry and molecular mechanisms of resistance to anticancer drugs, d) cell adhesion mechanisms, and e) membrane protein structure/function. The Department faculty interact extensively with basic and clinical scientists in other departments and with academic and industrial scientists throughout the Research Triangle. The Department conducts a strong graduate program supported by a NIH training grant.

The University of North Carolina is committed to increasing representation of women and members of minority groups on its faculty and particularly encourages applications from such candidates. Applicants should send a curriculum vitae, a statement of research plans, and the names of at least three referees to: **T.K. Harden, Ph.D., Faculty Search Committee Chairman, Department of Pharmacology, CB#7365, University of North Carolina, Chapel Hill, NC 27599-7365.** UNC-CH is an Equal Opportunity/Affirmative Action Employer.

## POSITIONS OPEN

**POSTDOCTORAL FELLOW** needed January 1, 1994, to develop new HPLC supports and columns applicable to molecular biology. Ph.D. in chemistry, biochemistry or biology, and HPLC experience are required. Postdoctoral experience helpful. Send curriculum vitae along with names and telephone numbers of three references to: **Harry W. Jarrett, Department of Biochemistry, University of Tennessee, 800 Madison Avenue, Memphis, TN 38163.** The University of Tennessee is an Equal Employment Opportunity/Affirmative Action/Title IX/Section 504/ADA Employer.

**POSTDOCTORAL ASSOCIATE: ECOTOXICOLOGIST—IMMEDIATE HIRE.** Applications are invited for a Postdoctoral Research Associate to participate in an ecotoxicology project involving mercury uptake and bioaccumulation at the Sulphur Bank Mercury Mine Superfund Site at Clear Lake, California. Duties include field studies, laboratory analysis, report writing, personnel management and some administration. Contact: **Dr. Thomas H. Suchanek, Environmental Studies, University of California, Davis, CA 95616.** Telephone: (916) 752-9035.

### MOLECULAR BIOLOGY OF BREAST CANCER

Positions are available for a **POSTDOCTORAL FELLOW** and a **RESEARCH ASSOCIATE** to engage in independent research projects that include the identification and characterization of molecular alterations during breast cancer progression. We are looking for highly motivated individuals who have experience in molecular techniques, including PCR, Northern and Southern blotting, molecular cloning and DNA sequencing. Previous experience in the culture of mammalian cell lines is helpful. We offer highly competitive salaries and benefits packages not contingent on grants. Please send curriculum vitae and names of two references to: **Scott Shepard, Ph.D., Pathology Department, Faulkner Hospital, 1153 Centre Street, Boston, MA 02130.** Tufts University School of Medicine is an Equal Opportunity/Affirmative Action Employer.

### POSTDOCTORAL/RESEARCH ASSOCIATE POSITIONS

Positions are immediately available in NSF- and NIH-funded programs for training and research in functional analysis of developmentally or hormonally regulated promoters, and isolation of operative transcription factors. Applicants with Ph.D. experience in DNA and RNA techniques, or purification of low abundance proteins, are preferred. Send curriculum vitae and names of three references to: **Dr. Grace Jones, Molecular and Cell Biology Section, University of Kentucky, Lexington, KY 40506-0225.** An Equal Opportunity/Affirmative Action Employer.

### MOLECULAR REPRODUCTIVE BIOLOGY

**POSTDOCTORAL RESEARCH ASSOCIATE** positions are available to work on endocrine regulation of human fetoplacental unit, reproductive tract, brain, nuclear receptors for protein hormones and nuclear eicosanoid biosynthetic enzymes. Candidates with working experience in cell culture, various blotting techniques, nuclear run on transcription, *in vitro* transcription and translation, mRNA stability measurements, RT-PCR, construction of antisense expression vectors, transfections, deletion, gel shift and DNase I footprinting analyses of 5'-flanking region of genes are encouraged to apply. **Dr. C. V. Rao, Department of Ob/Gyn, 438 MDR Building, University of Louisville Medical Center, Louisville, KY 40292.** FAX: (502) 588-0881.

### POSTDOCTORAL RESEARCH ASSOCIATE Department of Microbiology and Immunology Virginia Commonwealth University

Postdoctoral research position available immediately to study the role of SCF/c-kit and Fc receptors in hematopoietic differentiation using the mast cell as a model. Background in standard molecular procedures desirable. Send curriculum vitae and names and addresses of three references to: **Thomas F. Huff, Ph.D., Department of Microbiology and Immunology, Medical College of Virginia Campus, Virginia Commonwealth University, Box 980678, Richmond, VA 23298-0678,** by March 7, 1994. Virginia Commonwealth University is an Equal Employment Opportunity/Affirmative Action Employer. Women, minorities, and persons with disabilities are encouraged to apply.

## POSITIONS OPEN

**POSTDOCTORAL RESEARCH FELLOW:** Position available for up to three years for an individual to study the molecular epidemiology and evolution of human paramyxoviruses. Opportunities are available for work on molecular pathogenesis, rapid viral diagnostics, and vaccine development. Candidates should be highly motivated and possess a strong background in basic and molecular virology. Send cover letter with curriculum vitae to: **K. J. Henrickson, M.D., MEDICAL COLLEGE OF WISCONSIN, Department of Pediatrics/Infectious Disease, MFRC, 8701 Watertown Plank Road, Milwaukee, WI 53226.** Equal Opportunity/Affirmative Action Employer, M/F/D.

### POSTDOCTORAL RESEARCH POSITIONS The Johns Hopkins University School of Medicine

Postdoctoral positions are available to investigate humoral and cellular immune responses to STD's, including human papillomavirus, *Chlamydia trachomatis*, and human immunodeficiency virus. Investigative focus is on immune responses in human subjects. Experience in cellular or molecular immunology, biochemistry, or molecular biology required. Send curriculum vitae, brief description of prior research, preferred area of interest, names, addresses and telephone numbers of three references to: **Raphael P. Viscidi, M.D., The Johns Hopkins Hospital, Blalock Room 1111, 600 North Wolfe Street, Baltimore MD 21287;** (FAX: 410-614-1491). The Johns Hopkins University is an Equal Opportunity/Affirmative Action Employer.

### MOLECULAR PARASITOLOGY

**POSTDOCTORAL RESEARCH FELLOW** to work on gene regulation in protozoa, particularly antigenic variation in trypanosomes, and differentiation in *Toxoplasma gondii*. Molecular biology experience essential, but no experience with parasites required. Please send curriculum vitae, and names of three references to: **Dr. Keith Gottesdiener, P&S 8-402, Columbia University, 630 West 168 Street, New York, NY 10032.** Affirmative Action/Equal Opportunity Employer.

**POSTDOCTORAL RESEARCH ASSOCIATE,** Brookhaven National Laboratory. The Medical Department has a position available for a recent Ph.D. trained in pharmacological or biochemical science. Experience in drug distribution and pharmacokinetics in animal tumor models is preferred. The task is to oversee a drug screening program in which compounds to be evaluated *in vitro* and *in vivo* will include (1) boron-containing pharmaceuticals for use in boron neutron capture therapy; and (2) gadolinium-containing compounds as magnetic resonance image contrast agents.

Candidates may apply by sending curriculum vitae, publications list, and names of three references to: **Dr. J.A. Coderre, Medical Department, Building 490, Brookhaven National Laboratory, Associated Universities Inc., P.O. Box 5000, Upton, Long Island, NY 11973-5000.** Equal Opportunity Employer.

**RESEARCH STAFF ASSOCIATE:** The Department of Neurology at Columbia University College of Physicians and Surgeons is seeking qualified applicants for a new research associate position. Candidates should have a Bachelor's or higher degree and at least four years of professional experience. Required skills include small animal surgery, tissue culture, electrophysiological techniques, and computer systems. Send curriculum vitae, references, and a statement of research interests and goals to: **Arnold Kriegstein, M.D., Ph.D., 630 West 168th Street, Box 31, New York, NY 10032.** Columbia University is an Affirmative Action/Equal Opportunity Employer.

**RESEARCH ASSOCIATES (2).** UMDNJ—Medical School in Newark. One position requires expertise in histology and electron microscopy for studies on retinal pigment epithelium. Duties involve fluorescein angiography and work-ups. Able to perform *in situ* hybridization, fluorescence microscopy, immunocytochemistry and morphometric analysis. Second position requires experience in cell culture and sterile techniques, radioactive labeling and preparation of media. Duties include establishing and maintaining ocular cell cultures; performing experiments with cultured cells; preparing ocular cells for transplantation studies. Ph.D. in relevant science and two years of related research experience required for both openings. Competitive salary and benefits. Forward résumé to: **Lew Castiglia, UMDNJ, 30 Bergen Street, Newark, NJ 07107-3000.** Equal Opportunity Employer/MF.

## POSITIONS OPEN

### NMR/MRI AND COMPUTATIONAL CHEMISTRY SCIENTISTS

Several positions are available immediately in all areas of biomedical applications of NMR spectroscopy, magnetic resonance imaging (MRI) and computational chemistry of macromolecules at the Institute of Biomedical Sciences (IBMS), Academia Sinica, Taipei, Taiwan. The rank will be commensurate with qualifications and ranges from **POSTDOCTORAL FELLOW, LABORATORY MANAGER to RESEARCH FELLOW.** We will also consider supporting established scientists in these areas for temporary visits of more than three months. The NMR Center at IBMS has a Bruker AMX600, a Bruker AMX400WB with solid state and microimaging capabilities, and a BIOSPEC 47/40 animal imaging system. Excellent in-house molecular modeling and computational facilities are available. Successful candidates will be supported with adequate funding and technical support. Applicants should send curriculum vitae, list of publications, summary of research interests, a research proposal, and three letters of recommendations to: **Dr. Cheng-Wen Wu, Director, Institute of Biomedical Sciences, Academia Sinica, Nankang, Taipei 11529, Taiwan, Republic of China.**

**RESEARCH SCIENTIST** positions available in Immunology to join a group studying the basis of immunity and molecular pathogenesis of bacterial infections. The program is focused on the nature and characterization of immunity and vaccine development against plague and anthrax. Experience in immunochemistry, protein chemistry and molecular immunology, or cellular immunology and cell biology is required. Interested applicants should send curriculum vitae, reprints of representative publications, and names of three references to: **Dr. Arthur M. Friedlander, Chief, Bacteriology Division, U.S. Army Medical Research Institute of Infectious Diseases, Fort Detrick, Frederick, MD 21702-5011.** Telephone: (301) 619-7341. FAX: (301) 619-2152.

EnSys Environmental Products, Inc. is the leader in advanced field testing products for environmental applications. We are pioneering the introduction of a new generation of immunoassays products that are reducing the time and cost of environmental restoration and protection activities. **PRODUCT DEVELOPMENT; RESEARCH CHEMISTS.** Several positions are available for applicants with a Bachelor's degree in a related field and a minimum of two years of experience developing commercial immunoassays. Experience with hapten assays, 510k validations, SOP generation, and supervision is desirable. EnSys offers professional opportunity, competitive compensation package, including a stock option plan. For consideration please send your résumé to: **Dr. Jim Mapes, EnSys, Inc., P.O. Box 14063, Research Triangle Park, NC 27709.** FAX: 919-941-5519.



### MOLECULAR BIOLOGISTS

Ambion, Inc. develops innovative products and kits for molecular biology research. We are seeking **SENIOR SCIENTISTS** for Research and Development. Candidates should have a Ph.D. in molecular biology or related field, a strong publication record and an entrepreneurial spirit. Candidates with strength in prokaryote molecular genetics or RNA analysis are especially encouraged to apply. Ambion is in Austin, location of the University of Texas and the state capital, on the edge of the Texas hill country with nearby lakes and rivers that provide abundant recreational opportunities.

Ambion offers competitive salaries, benefits and employee stock option plan. Reply to: **Ambion, Inc. 2130 Woodward Street, Austin, TX 78744.** Equal Opportunity Employer.

### BOTANIST

Fairchild Tropical Garden seeks a Ph.D.-level researcher with a present or potential specialization in **biology of cycads**; who could work with our large living collection of cycads and tropical flowering plants; do field work in the tropics; and cooperate with our Horticulture and Education Departments and local universities. Available in summer 1994. Send résumé, statement of research interests, and names and telephone numbers of three references by March 1, 1994, to: **Dr. J.B. Fisher, Fairchild Tropical Garden, 11935 Old Cutler Road, Miami, FL 33156;** FAX: (305) 665-8032.





**UNIVERSITY OF  
PENNSYLVANIA  
SCHOOL OF MEDICINE**

**Departments of Physiology and  
Molecular and Cellular Engineering**

We seek to recruit a Full Professor of Physiology, with secondary appointment in Molecular and Cellular Engineering. Applicants must have an established track record of successful research in epithelial physiology in general, and Cystic Fibrosis Transmembrane Conductance Regulator (CFTR) physiology in particular. The successful candidate will be expected to direct the ion transport core laboratory within the Institute for Human Gene Therapy and play an active role in the recruitment of additional junior faculty in the area of epithelial cell biology. Please send (before February 15, 1994) a curriculum vitae and three representative publications to:

Dr. Paul De Weer  
Department of Physiology  
B400 Richards Bldg.  
University of Pennsylvania School  
of Medicine  
Philadelphia, PA 19104-6085

*The University of Pennsylvania is an  
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**Plant Biology  
Swarthmore College**

Applications are invited for two positions in plant biology in the Department of Biology, starting September 1994.

**Plant Evolutionary Biology**

This three-year, non-tenure track position involves teaching an intermediate-level course in plant biology related to evolution (e.g. plant systematics or plant reproductive biology), another plant biology courses, and participating in the Department's introductory biology sequence. Ability to teach in some area of applied plant biology, such as agricultural botany or ethnobotany, would be desirable.

**Plant Ecology**

This is a one-year leave-replacement position that involves teaching an intermediate-level course in ecology and an advanced-level seminar in some area of plant ecology, and participating in the Department's introductory biology sequence.

To apply for either position, send curriculum vitae, a statement of teaching and research interests, and have three letters of recommendation sent to Jacob Weiner, Department of Biology, Swarthmore College, 500 College Avenue, Swarthmore, PA 19081-1397. Closing date for application is February 15, 1994. Swarthmore College is an equal opportunity employer.

**UNIVERSITY OF CALIFORNIA  
DIRECTOR  
ENERGY INSTITUTE**

Applications and nominations are invited for the position of Director of the University of California Energy Institute (UCEI), headquartered on the Berkeley campus, which will be available on July 1, 1994.

UCEI was established in 1980 to provide leadership in University of California energy research and education activities. The program awards faculty grants on technical and policy-related energy research projects. The California Institute for Energy Efficiency (CIEE) is a branch of UCEI. There is a small professional and administrative staff on the Berkeley campus that supports the Institute and the Director. The annual budget is approximately \$1 million (excluding CIEE).

The role of the Director is to promote growth in energy research that serves the faculty interests and instructional needs of the University. The Search Committee is seeking a candidate who has a strong general knowledge in technical and policy issues related to energy matters, understands how the various disciplines inform energy policy, and brings to the Institute outstanding energy-related research capabilities relevant to California and the nation.

The UCEI Director is not a full time position. The candidate must have at least a half-time tenured position at a University of California campus at the time of appointment. The central office will remain on the Berkeley campus. The Director may be located on any University of California campus, but candidates will be required to outline to the Search Committee how the program administration would function.

A letter of applications, curriculum vitae, and names and addresses of five referees should be submitted by March 1, 1994 to:

Vice Provost for Research  
(UCEI Director Search)  
University of California  
300 Lakeside Drive, 18th Floor  
Oakland, CA 94612-3550

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**UWA**

**The University of Western Australia**

Perth

**ASSOCIATE PROFESSOR/SENIOR LECTURER  
(CLINICAL NEUROSCIENTIST)**

**Department of Psychiatry and Behavioural Science**

(Ref: A64/93)

A 5 year fixed-term (renewable) appointment. Applications are invited for this newly created academic position, located in the Psychiatric Research Unit at Graylands Hospital, Perth. The unit is being restructured under the honorary directorship of Professor A Jablensky and will have a major focus on neuroscience and biobehavioural research into schizophrenia and other major psychiatric disorders. The appointee will be Deputy Director of the unit and will be expected to develop and manage, within the framework of the research programme of the Department, specific projects including genetic, neurophysiological and neurophysiological/information processing components. Applicants may be medically or non-medically (eg psychology, human biology) qualified. They should have well-established research experience and output in one or more of the following areas: neuropsychiatry, neurophysiology, genetics, neuropsychology or clinical psychology. Academic qualifications are required, as well as evidence of relevant research experience and achievement, eg publications in refereed journals, successful grant applications, participation in collaborative research, and supervision of postgraduate research projects. Previous experience in research involving psychiatric clinical populations would be an advantage. Further information may be obtained from Professor A Jablensky (tel. (61 9) 224 0286; fax (61 9) 224 0285).

**SALARY RANGE** per annum: Associate Professor Level D: A\$60,475 - A\$66,625 plus, if medically qualified, a clinical loading of A\$13,484 and supplementary clinical allowance of A\$5,771; Senior Lecturer Level C: A\$50,225 - A\$57,913 plus, if medically qualified, a clinical loading of A\$13,484 and supplementary clinical allowance of A\$5,443.

Benefits include superannuation, fares to Perth for appointee and dependent family (if applicable), removal allowance (if applicable), study leave and long service leave. Conditions of appointment will be specified in any offer of appointment which may be made as a result of this advertisement.

Written applications quoting reference number, telephone number, qualifications and experience, and the names, addresses and fax/telephone numbers of three referees should be sent to the Director, Human Resources, The University of Western Australia, Nedlands, WA6009, Australia (fax (61 9) 380 1036) by **4 February 1994**.

The University is an equal opportunity employer and promotes a smoke-free work environment.

# Type II Diabetes Research Sabbatical Year (extendable)

Applications are invited from diabetes researchers of international standing, for this attractive and unusual opportunity – to work closely with drug discovery scientists in this challenging field of research, at well-equipped and well-staffed laboratories on the outskirts of Paris.

The successful applicant will have the facilities to explore goal-oriented topics of personal research interest, to publish widely, and to enhance academic and/or Government research contacts in this specialist field – both in France and internationally.

In return, the Research Director of these laboratories will expect a rapid and highly pro-active working relationship to be established with multi-disciplinary project teams of drug discovery scientists. The major emphases will be to fine-tune the early identification of

novel therapeutic agents, and actively to develop new models which will more accurately reflect the pathophysiological condition of insulin-resistant diabetes in man.

Additionally, during this sabbatical year, the Researcher appointed would have the opportunity to organise an international symposium in Paris, and be the prime mover at other scientific/medical 'brain storming' sessions, on the future treatment of Type II diabetes.

In addition to the provision of first-class research facilities, an attractive remuneration package is envisaged for this sabbatical year, which could be renewable, subject to mutual agreement.

*In the first instance, please write or 'phone our International Recruitment Adviser in strict confidence, to learn more about this opportunity.*

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**Call for Abstracts**

**Deadline: 28 February 1994**

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We are expecting presentations of the highest scientific quality and integrity in all relevant disciplines, including the biomedical, public health, epidemiological, behavioral, social, ethical, legal, educational, and economic aspects of HIV infection and AIDS. We are planning 24 plenary sessions, 108 oral abstract sessions and approximately 4,000 poster presentations. Round-tables, meet-the-experts, and other sessions will be included in the program.

*The Organizing Committee is chaired by Professor Yuichi Shiokawa*

**For information: Contact  
Secretariat, AIDS/STD 1994 c/o Congress Corporation  
Namiki Bldg., Kamiyama-cho, Shibuya-ku, Tokyo 150, Japan  
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THE UNIVERSITY  
OF ADELAIDE  
SOUTH AUSTRALIA

Applications are invited from both  
women and men for this position:

## PROFESSOR OF ANTHROPOLOGICAL AND COMPARATIVE ANATOMY (TENURABLE)

(Ref: 7098) The University is seeking to appoint a scientist of international standing to the newly created **Wood Jones Chair of Anthropological and Comparative Anatomy** within its **DEPARTMENT OF ANATOMY AND HISTOLOGY**. It is intended that the appointment will strengthen and complement research in the Department. The successful candidate will have a distinguished record of research within the fields of physical anthropology, comparative anatomy or evolutionary biology. Persons with expertise incorporating molecular approaches are particularly encouraged to apply. The appointee will be expected to introduce and participate in research programmes, and to develop relevant undergraduate and postgraduate teaching, in the area encompassed by the title of the Chair. The Department undertakes substantial teaching in the faculties of Medicine, Science and Dentistry of this University, and in the Schools of Physiotherapy and Occupational Therapy of the University of South Australia. This includes an existing course in comparative vertebrate morphology in the Bachelor of Science degree. The Department hopes to expand teaching in the human biology area at both undergraduate and postgraduate levels in the Bachelor of Health Sciences degree offered by the Faculty of Medicine, including the introduction of a component of physical anthropology at third year level. It is expected the new subjects will also be available to students in the Faculty of Science. The position is available for immediate appointment. **Further information** concerning the duties of the position may be obtained from the Head of the Department of Anatomy and Histology, telephone (61 8) 303 5998, facsimile (61 8) 223 2076.

It is University policy to encourage women to apply for appointment to tenurable academic appointments. Holders of full-time tenured or tenurable academic appointments have the opportunity to take leave without pay on a half-time basis for a specific period of up to ten years when this is necessary for the care of children.

**INFORMATION** about the general conditions of appointment and selection criteria may be obtained from the Director, Personnel Services at the University. **SALARY per annum:** A\$77,900 (A pre-clinical loading of A\$6,751 may be applicable). **APPLICATIONS, IN DUPLICATE**, quoting reference number 7098 and giving full personal particulars (including whether candidates hold Australian permanent residency status), details of academic qualifications and names and addresses of three referees, should reach the Director, Personnel Services at the University of Adelaide, South Australia 5005, Telex UNIVAD AA 89141, Facsimile (61 8) 303 4353 **not later than 31 March 1994**. The University reserves the right to make enquiries of any person regarding any candidate's suitability for appointment, not to make an appointment or to appoint by invitation. **THE UNIVERSITY OF ADELAIDE IS AN EQUAL OPPORTUNITY EMPLOYER.**

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## Joint Position in Biology

Collaboration between the Museum and the College offers a new and exciting opportunity in evolutionary biology. The post will combine research and teaching duties in the Department of Biology at the College with systematic research at the Museum.

The successful applicant will be expected to:

- develop a research programme involving modern molecular techniques to explore the evolution and systematics of a group of organisms
- collaborate with research teams of systematics and population biologists in both organisations

The appointment will be made at the Lectureship or Senior Lectureship/Reader level scale (£19,513 - £31,922) depending on the experience and track record of the successful applicant. Salary scales include London Allowance. A professorial appointment may be made for outstanding applicants.

**Further details are available by writing to Mrs Jennifer Wilner, Academic Administrator, Department of Biology, Imperial College, South Kensington, London SW7 2BB. (Fax 071-225 1234). Applications, which should contain eight copies of CV, publication list and application form, should be addressed to Professor Michael Hassell FRS, by 11 February 1994.**

*School of Biological and Environmental Sciences*

## SECOND CHAIR IN ENVIRONMENTAL SCIENCE

**Ref: EN1471A01**

Applications are invited for appointment to a Second Chair in Environmental Science at Murdoch University. This new position has become available through the expansion of the Environmental Science Programme, and will be made in a physical field complementary to the more biological interests of the present Professor in Environmental Science, Professor A.J. McComb.

The Environmental Science programme pursues an integrated, scientific approach to understanding the environment and solving environmental problems. It currently has research and teaching programmes in atmospheric science, environmental physics, environmental assessment and policy, land management and rehabilitation, air pollution, water quality, plant ecology, wind erosion, waste management and appropriate technology.

The programme has developed excellent relations with industry, government and the wider community, and is actively expanding its interactions with institutions in Southeast Asia.

Applications are invited from environmental scientists who have teaching and research interests in an aspect of the physical environment consistent with the current directions of the programme. They are expected to have an international research reputation, including a strong record of external research support. They should also have a commitment to teaching in an interdisciplinary context, management skills and a proven capacity for leadership and collaboration.

This position is available from 1 May 1994. Applicants are invited in the first instance to contact Professor A.J. McComb 61-9-360 2191 for details about courses, an annual report of the Institute for Environmental Science, and other relevant information.

### *Generic Selection Criteria*

**Essential:** • PhD or professional experience and an outstanding reputation for scholarship • Evidence of leadership and academic management skills appropriate to a senior position in a University environment • A high level of written and oral communication skills.

**Highly Desirable:** Evidence of • A strong commitment to, and expertise in, teaching at all levels • Demonstrated capacity to develop a research team, supervise staff and postgraduates and generate research funding • Planning and policy development skills • Professional and community activities relevant to the discipline.

### *Job-Specific Criteria*

**Essential:** • An outstanding research reputation in one of the more physical aspects of environmental science.

**Highly Desirable:** • Demonstrated ability to interact with industry and/or management agencies.

### *Salary Range*

Level E \$A77,900 per annum.

Conditions include superannuation, long service leave, outside studies programme, payment of fares to Perth for appointees and dependent families, removal and settling-in allowance.

### *Method of Application*

**AN ORIGINAL PLUS TWO COPIES** of an application stating appropriate reference number, including full personal particulars, details of tertiary qualifications and experience, academic transcript, research interests, current salary and the names and addresses, including telephone and fax numbers of three professional referees to reach Mr. Ben Ballantyne, Senior Personnel Officer, Murdoch University, WA 6150, **not later than 4.30 pm Friday 18 February 1994**. Late applications will not be accepted.

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Murdoch



University

## POSITIONS OPEN

A **STAFF ASSOCIATE** position is immediately available to work on ion channel expression in heterologous systems and site-directed mutagenesis on ion channels. Prior experience in molecular biology, preferably in the area of structure-function relationships of K channels, is necessary. Send curriculum vitae to: **Dr. Gea-Ny Tseng, Department of Pharmacology, Columbia University, 630 West 168th Street, New York, NY 10032.** *Columbia University is an Equal Opportunity/Affirmative Action Employer.*

**BACTERIAL GENETICISTS** are invited to apply for a position to work on UVM, a novel inducible mutagenic phenomenon in *Escherichia coli*. Rank, postdoctoral fellow through adjunct assistant professor) and salary are open and commensurate with qualifications. The Department of Microbiology at UMD-New Jersey Medical School, a leading research department in the metropolitan New York area, is located in a new dynamic campus within easy reach of major cultural and recreational centers, as well as pleasant residential communities. Please send résumé, two publications, and a list of three referees to: **M. Zafri Humayun, Professor of Microbiology & Molecular Genetics, UMD-New Jersey Medical School, 185 South Orange Avenue, MSB F607, Newark, NJ 07103.** [E-mail: humayun@umdnj.edu]. *UMDNJ is an Affirmative Action/Equal Opportunity Employer.*

Environmental Defense Fund, a national not-for-profit advocacy organization, seeks **HYDROLOGIST** to work on wetland and water resources issues from New York office. Ideal candidate has Ph.D. in a hydrological field, strong technical skills, interest in policy, and talent for communicating complex technical issues to policy- and opinion-makers. Negotiable salary. Candidates considered with range of experience. Academic faculty interested in spending a sabbatical year in this position also considered. *Equal Opportunity Employer. Women and persons of color encouraged to apply.* Curriculum vitae to: **TDS, c/o EDF, 257 Park Avenue South, New York, NY 10010.**

## ANNOUNCEMENTS

### DOCTORAL PROGRAM IN MOLECULAR & CELLULAR BIOLOGY AND PATHOBIOLOGY

Interdisciplinary program in fundamental molecular and cellular biology and its application to disease. Competitive stipends of \$10,000 to \$15,000 available. Contact: **Director, MCBP Program, College of Graduate Studies, Medical University of South Carolina, 171 Ashley Avenue, Charleston, SC 29425-2501.**

### RFP AVAILABLE

The NCI is soliciting proposals for the preparation of preclinical- and clinical-grade immunoconjugates of monoclonal antibodies and/or other genetically engineered targeting molecules that are linked to chelating agents. The NCI will provide purified GLP/GMP-grade targeting molecules to the contractor for chemical conjugation to chelating agents using published or proprietary methods of the Offeror or government. It is anticipated that the offeror will be required to prepare approximately 50 to 1000 milligrams of each immunoconjugate. Deadline for receipt of applications is approximately January 4, 1994. For more information on the deadline for receipt of proposals and a copy of the RFP, contact: **Ms. Patricia Lightner, NCI at 301-496-8620 or FAX: 301-480-0309.**

### RESEARCH GRANTS

As part of its efforts to encourage the utilization of alternatives to traditional uses of laboratory animals, the Alternatives Research and Development Foundation (formerly the Demeter Fund) is soliciting research proposals to develop such methods. Funding up to \$40,000 each is available to support individual projects at U.S. universities and research institutions. Special attention will be given to proposals that focus on the use of human tissues and/or the production of monoclonal antibodies through *in vitro* systems. Deadline for application is 30 April 1994, with recipients announced on 15 July 1994. For further information and application instructions contact (mail or FAX only): **The ARDF, Suite 204 Noble Plaza, 801 Old York Road, Jenkintown, PA 19046-1685.** (FAX: 215-887-2088).

## POSITIONS OPEN

### RESEARCH SCIENTIST

Position is immediately available to study B cell lymphokine secretion and B cell lymphokine receptor expression at the cellular and molecular levels. Specific requirements include strong background in molecular biology and cellular immunology. Send résumé, names and addresses of three references and salary requirements to:

**David Benjamin M.D.**  
1232 James Cancer Hospital and Research Institute  
The Ohio State University  
300 West 10th Avenue  
Columbus, OH 43210-1228  
Telephone: (614) 293-3716,  
FAX: (614) 293-3112

### PHYSICIAN-SCIENTIST: HEMATOPOIESIS-BONE MARROW TRANSPLANTATION

The Department of Pediatrics and the Mary Babb Randolph Cancer Center, at the Robert C. Byrd Health Sciences Center of West Virginia University, are seeking a physician-scientist who is Board-eligible or certified in Pediatric Hematology/Oncology to become an independent member of an established group of basic and clinical investigators in the field of hematopoiesis and bone marrow transplantation. This is primarily a research position with 80% protected time guaranteed, excellent new laboratory space, and start-up funds available.

Please contact: **A. Kim Ritchey, M.D., Chief, Pediatric Hematology/Oncology, WVU Health Sciences Center, Morgantown, WV 26506.** Telephone: (304) 293-1217. *WVU is an Affirmative Action/Equal Opportunity Employer.*

### SCIENTIST OR PHYSICIAN SPEAKERS

Biomed International, a noncommercial scientific research corporation, is seeking scientist or physician speakers to give lectures nationwide on topics of interest to audiences composed of health professionals. Biomed is especially interested in lectures on the following topics: neuropharmacology; women's health issues; dermatology; mental disorders; and nutrition. Applicants must have Master's or doctoral degrees in their respective scientific disciplines. Each position requires a record of scientific publications, excellent speaking skills, and a thorough knowledge of the relevant scientific literature. Clinical experience is helpful. Each speaker should be available one to two days per week and be willing to travel. Compensation is excellent. Please send résumé, cover letter, and list of speaking topics to: **Biomed International, 2425-B Channing Way, Suite 457, Berkeley, CA 94704.** FAX: (510) 652-1859. *Women and minorities are strongly encouraged to apply.*

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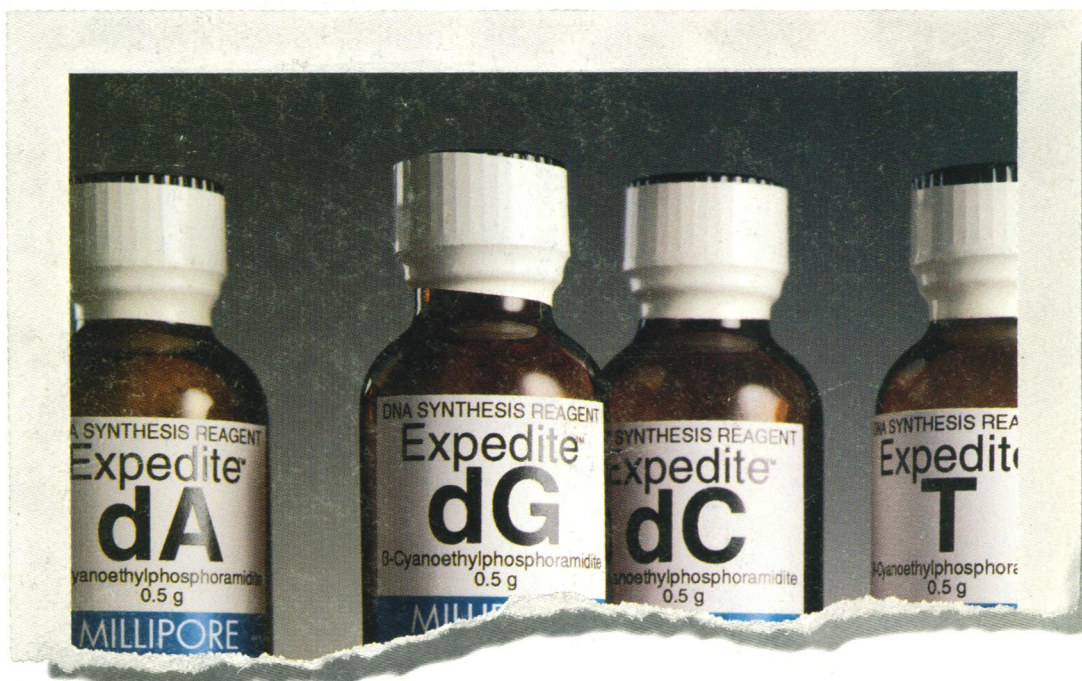
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