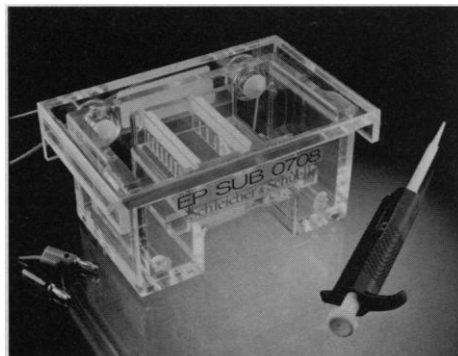


Mini Horizontal Electrophoresis Chamber

The EP Sub 0708 is an acrylic horizontal electrophoresis chamber. Its 7 cm by 8 cm minigel size offers fast resolution of restric-



tion fragments. It features an intelligent "cast and turn" gel tray with gasketed ends. The tray is ultraviolet-transparent, allowing easy viewing of bands on a transilluminator. Schleicher & Schuell. Circle 490.

DNA Sequencing Template Kit

The Dynabeads Template Preparation Kit produces a pure, single-stranded template for solid-phase DNA sequencing. The single-stranded DNA template, immobilized onto the Dynabeads M-280 Streptavidin product via the biotin linker, is prepared from an immobilized double-stranded DNA fragment. A pure template is produced from a single colony in less than 2 hours. DYNAL. Circle 491.

Pilot-Scale Chromatograph

The Proprep 300 Pilot-Scale Chromatograph is designed for optimum preparative and production-scale protein purification. The heart of the system is software that allows users to key each stage of an experiment directly into the instrument. Two configurations are available, the Proprep

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.

300 TS, which is PC-compatible and controlled by a Biotage Touch Screen, and the Proprep 300 PC, which is controlled by an IBM-compatible computer. Biotage. Circle 492.

Scientific Clip Art Software

Five Science Figure Packs contain "clip art" for use with the SlideWrite Version 4 scientific presentation software for IBM personal computers and compatibles. Each Figure Pack contains images relevant to a specific scientific area, including biological cells, drugs, human anatomy, maps, and a generalized collection of chemical and laboratory symbols. The images are in vector format and can be enlarged or reduced to any size, colored, and tilted or rotated with absolutely no loss of image resolution. Each illustration has been designed by a scientist in the field to ensure it is correct. Advanced Graphics Software. Circle 493.

Biosensor for Peripheral Tissue

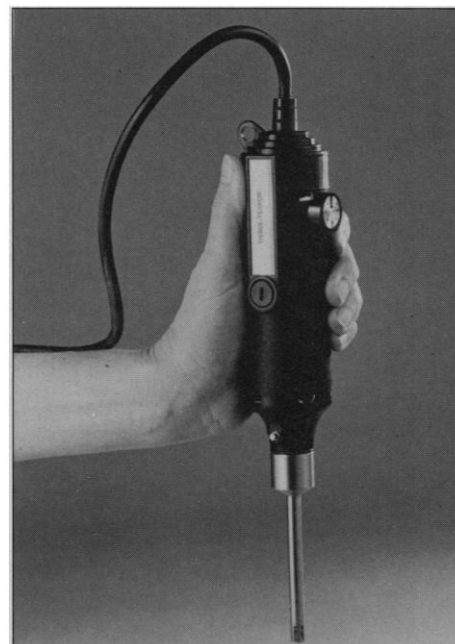
The CMA/20 Microdialysis Probe is available for continuous in vivo monitoring in peripheral tissue. Studies such as metabolism, drug distribution, and kinetics in conscious animals can be performed over hours or days. Chemical changes caused by food intake, stress, or exercise can be monitored. CMA/Microdialysis AB. Circle 494.

Automated Carbohydrate Analysis

The GlycoStation brings automated carbohydrate analysis to glycoproteins research. The GlycoStation features full automation of the high-performance anion exchange separation and pulsed amperometric detection process, complete system control through special software, and specially prepared monosaccharide, oligosaccharide, and glycoprotein standards for system characterization and calibration. Dionex. Circle 495.

Tissue Homogenizer

The Tissue-Tearor is a small volume rotor and stator tissue homogenizer that can rapidly homogenize, disperse, and emulsify samples in less than 0.5 ml of liquid. During operation, the suspended material is actively drawn up into the core of the homogenizer by a patented screw-shaped ro-



tor. There it is repeatedly cycled through six narrow slots in the stator 28,000 times per minute. Complete homogenization of tissues is usually achieved in 1 min or less. Midwest Scientific. Circle 496.

Endotoxin Remover

ACTICLEAN Etox is an effective tool for removing endotoxin from biological materials. The product has a higher capacity than other products on the market, according to the manufacturer. In its proprietary linkage chemistry, the ligand responsible for the affinity to the endotoxin is securely bound to the resin. It is nontoxic and stable. Sterogene. Circle 497.

Literature

Model 250 LC Pumps is a four-page data sheet that describes a line of pumps for liquid chromatography. Perkin-Elmer. Circle 498.

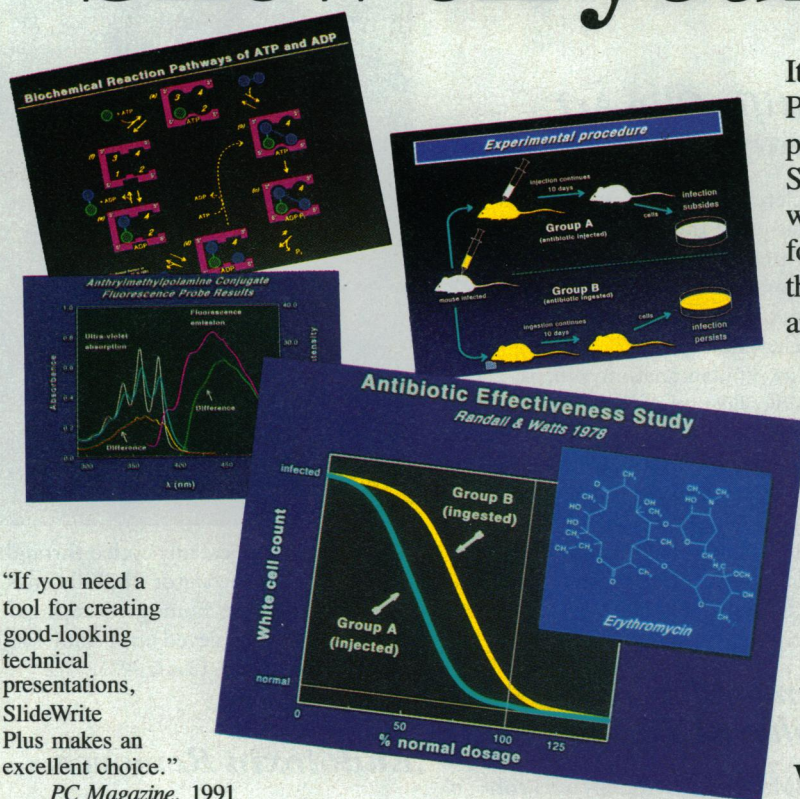
Unisphere Media and Columns is a brochure on products for liquid chromatography. Biotage. Circle 499.

Research Microscopes is a brochure that lists the features and applications of the Jena line of microscopes. Seiler Instrument. Circle 500.

The PPI Guide to Mixing describes the advantages of a line of magnetic mixers over mechanical drives. Pressure Products Industries. Circle 501.

SpectraSYSTEM LC...from sample prep to your answer is a color brochure on a line of liquid chromatography stand-alone modules and integrated systems. Spectra-Physics. Circle 502.

Show off your results!



"If you need a tool for creating good-looking technical presentations, SlideWrite Plus makes an excellent choice."

PC Magazine, 1991

It's easy with SlideWrite Plus version 4 – the PC presentation software that supports all popular printers, plotters, and film recorders. SlideWrite Plus gives you technical graphing, word charting, science figure packs, scalable fonts, plus freehand drawing. No wonder it's the perfect presentation tool for the scientific and technical community! If you want to turn your data into powerful presentations that get noticed and remembered, you need SlideWrite Plus!

Order SlideWrite Plus for just \$445, satisfaction guaranteed, or get a FREE working demo.

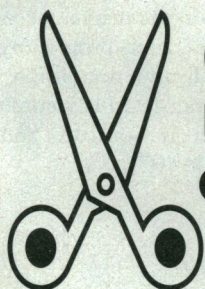
(619) 931-1919

FAX (619) 931-9313

Advanced Graphics Software, Inc.
5825 Avenida Encinas, Suite 105, Carlsbad, CA 92008

SlideWrite Plus™
We make your data look terrific.

Circle No. 315 on Readers' Service Card



SCIENCE

CLIP AND FAX CLASSIFIED AD ORDER FORM

To: Science Classified Advertising

From: _____ Phone: (____) _____

Please publish attached ad in

☐ Next available issue ☐ The issue(s) of _____
(give date or dates)

Send invoice to:

Name _____

Organization _____

Address _____

City _____ State _____ Zip _____

Purchase Order Number _____

Simply send completed form and ad text to be published
(double-spaced without abbreviations, please) to:

FAX NUMBER 202-682-0816

Science

PERSONNEL PLACEMENT

LINE CLASSIFIED ADVERTISEMENTS

- **Deadlines:** Ads are due by Thursday, 10 a.m., 2 weeks prior to the issue date. *Science* is published each Friday, except the last Friday of the year. Advertisements must be submitted in writing.
- **How to Submit a Classified Ad:** Prepare double-spaced typewritten copy. Do not include any abbreviations. *Science* will edit and typeset ads according to *Science* guidelines. Deadline for applications stated in ad must be at least 2 weeks after date of publication. Include billing information, and desired publication date.
- **Mail or FAX materials to:**
Science Classified Advertising
1333 H Street, N.W., Room 940
Washington, DC 20005
Telephone: 202-326-6555
FAX: 202-682-0816
- **Rates:** Ads are \$41 per line; \$410 minimum. One line equals 52 characters and spaces; centered headings equal 32 characters and spaces. A 3% cash discount is granted to all prepaid ads. If you would like *Science* to give estimated cost, indicate on letter.
- **Ads from Outside the U.S.:** Prepayment made in U.S. dollars by checks drawn on U.S. banks is required.
- **Credit Cards:** *Science* accepts MasterCard and VISA. Discount does not apply to credit cards.
- **Cancellations:** Deadline for cancellation is 10 a.m., Tuesday, 10 days prior to issue date.

DISPLAY PERSONNEL ADVERTISEMENTS

For rates and information about fractional display ads (all ads 1/2 page and larger) and all Marketplace listings, contact:
Daniel Moran
Science Classified Advertising
Telephone: 202-326-6541
FAX: 202-682-0816

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, national origin, 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

ASSISTANT PROFESSOR REPRODUCTIVE BIOLOGY

Applicants are sought for a tenure-track position in the Division of Reproductive Biology, Johns Hopkins University. We are particularly interested in applicants who use cellular and molecular approaches to study basic reproductive processes. However, all excellent candidates with interests in any area of reproductive biology are encouraged to apply. Applicants must have a Ph.D. or M.D. or equivalent degree and at least 2 years of postdoctoral training. A faculty member is expected to maintain a well-funded research program, to advise graduate and postgraduate students and to teach at the graduate level. Application deadline is 2 January 1992; starting date is negotiable. Please send curriculum vitae, a description of proposed research and names of four references to: **Dr. William W. Wright, Chairman, Search Committee, Division of Reproductive Biology, Department of Population Dynamics, Johns Hopkins University School of Hygiene and Public Health, 615 North Wolfe Street, Baltimore, MD 21205.** The Johns Hopkins University is an Equal Opportunity/Affirmative Action Employer. Applications are encouraged from women and minority groups.

FACULTY POSITION DEPARTMENT OF MOLECULAR BIOLOGY UNIVERSITY OF WYOMING

Applications are invited for a tenure-track faculty position in the department of molecular biology at the level of **ASSISTANT PROFESSOR**. We seek an individual with a strong experimental background in molecular biology whose research interests may include molecular aspects of microbial pathogenesis or virology. A number of other areas of research interests, however, could complement existing programs and aid the department's continuing development. The successful candidate will be expected to develop or transfer an active research program, be committed to excellence in teaching at the undergraduate and graduate levels, and to interact with other faculty in a vigorous research environment. Only applicants with a strong research record and the ability to develop extramurally supported research programs will be considered. The department has excellent facilities and is planning to add a number of new faculty during the next several years. Start-up funds are available and salary will be competitive. Laramie is located in the Rocky Mountains and affords easy access to a number of outdoor activities.

Screening of candidates will begin 2 January 1992. Applicants should submit curriculum vitae, bibliography, statement of research and teaching interests and plans, as well as have three letters of reference sent to: **Chairman, Department of Molecular Biology, University of Wyoming, Laramie, WY 82071-3944.** The University of Wyoming is an Affirmative Action/Equal Opportunity Employer.

BIOCHEMISTRY/MOLECULAR BIOLOGY FACULTY POSITION UNIVERSITY OF MISSOURI-KANSAS CITY

Applications are invited for an **ASSISTANT** or **ASSOCIATE PROFESSOR** in the School of Basic Life Sciences at the University of Missouri-Kansas City. The successful candidate will be expected to have several years of postdoctoral experience with strong research credentials to be able to develop a strong research program in x-ray crystallography of macromolecules and macromolecular complexes. Duties include teaching at the graduate level and for the health sciences professions and training of graduate and postdoctoral students. Competitive salaries, start-up funds, laboratory space and associated research facilities are available in an emerging academic unit developing a major program in molecular recognition including molecular basis of sensory perception and aging. This faculty addition will complement the 20 new faculty members hired in the last 5 years for the program of eminence in basic life sciences. Applications, including curriculum vitae and a minimum one-page description of future research, as well as three letters of recommendation, should be sent to: **M. Martinez-Carrion, Dean, School of Basic Life Sciences, University of Missouri-Kansas City, Kansas City, MO 64110.**

Applications will be analyzed beginning 1 December 1991 and will continue to be screened until a suitable candidate is found. The university is an Affirmative Action, Equal Opportunity Employer.

POSITIONS OPEN

University of Oregon. **BIOCHEMISTRY FACULTY POSITION.** The Department of Chemistry invites applications for a tenure-track faculty position in the division of biochemistry, beginning fall 1992 at the anticipated rank of **ASSISTANT PROFESSOR** of Chemistry with membership in the Institute of Molecular Biology. Applicants with research interests in molecular and cell biology who could interact with the multidisciplinary programs in the Institute of Molecular Biology which have been funded, in part, by the Markey Charitable Trust, are especially encouraged to apply. The potential for a vigorous research program in modern molecular biology and biochemistry and active participation in the teaching program of the Chemistry Department will be the most important criterion for selection. To assure full consideration applicants should submit by 1 December 1991 curriculum vitae and a statement of research plans and objectives, and arrange for three letters of recommendation to be sent to: **Chair Biochemistry Search Committee, Department of Chemistry, University of Oregon, Eugene, OR 97403.** The University of Oregon is an Affirmative Action/Equal Opportunity Institution committed to cultural diversity.

BIOPHYSICS AND MOLECULAR BIOLOGY UNIVERSITY OF OREGON FACULTY POSITION

The Physics Department and the Institute of Molecular Biology at the University of Oregon have an opening at the **ASSISTANT PROFESSOR** level for an individual working in the area of biophysics and molecular biology. The appointment has been made possible by a grant from the Lucille P. Markey Charitable Trust to create a program in macromolecular assemblies. The successful candidate will be expected to teach physics and biophysics at the undergraduate and graduate levels and to conduct a vigorous research program. This is a tenure-track appointment with preferred starting date during the 1992-93 academic year. Applications from both experimentalists and theoreticians are encouraged. We would prefer to recruit an individual whose research interests will complement existing programs in the Department of Physics and the Institute of Molecular Biology.

Candidates should send curriculum vitae, a statement of research interests, and the names and addresses of three references to: **Professor Brian W. Matthews, Chairman, Search Committee, Institute of Molecular Biology, University of Oregon, Eugene, OR 97403.** To guarantee full consideration applications should be received by 1 December 1991. The University of Oregon is an Equal Opportunity, Affirmative Action Employer committed to cultural diversity.

BIOLOGY. Randolph-Macon Woman's College, a competitive liberal arts college with historic strengths in the sciences, invites applications for a tenure-track position at the level of **ASSISTANT PROFESSOR** beginning in the fall of 1992. Ph.D. and teaching experience required. Preference will be given to the candidate who is broadly trained in botany and demonstrates a strong background in field biology and plant physiology. Teaching responsibilities include a nonmajors course in conservation, a core course in botany, and upper level courses in field botany and plant physiology. Send letter of application, including a statement of teaching and research interests, curriculum vitae and names, addresses and telephone numbers of three references by 15 December 1991 to: **Dr. Douglas H. Shedd, Department of Biology, Randolph-Macon Woman's College, Lynchburg, VA 24503.** Telephone: 804-522-9839.

ASSISTANT PROFESSOR

Assistant professor, Soil Microbial Ecology, University of Rhode Island, Department of Natural Resources Science. Tenure track, academic year, 50% teaching, 50% research. Research focus on the role of microbes in ecosystem processes, including nutrient cycling, water quality, or the fate of chemical contaminants, with a multidisciplinary, landscape-scale orientation required. Ph.D. in soil-microbial ecology, soil microbiology, soil biochemistry or related field required. Demonstrated effectiveness in teaching and research preferred subject to budget approval. Submit letter of application, résumé, official transcripts and three letters of reference by 15 January 1992 to: **Dr. A. J. Gold, Search Committee Chair, Position #191078, The University of Rhode Island, P.O. Box G, Kingston, RI 02881.** An Affirmative Action/Equal Opportunity Employer.

POSITIONS OPEN

TWO POSITIONS BIOCHEMIST AND ORGANIC CHEMIST

New Mexico State University, Department of Chemistry, invites applications for two tenure-track positions (ASSISTANT PROFESSOR) in organic chemistry and biochemistry beginning in the fall of 1992. Applicants should have a Ph.D. and postdoctoral experience. Successful applicants will be expected to demonstrate excellence in teaching at the graduate and undergraduate levels and to establish an independent research program capable of attracting graduate students and extramural funding. Applicants should submit: a letter of application, complete curriculum vitae, including a list of publications, copies of transcripts of undergraduate and graduate studies, a description of research interests and plans including start-up costs, a statement of teaching interests, and arrange to have at least three letters of recommendation sent to: **Dr. Frank Guziec (organic search) or Dr. James Hageman (biochemistry search), Department of Chemistry, Box 30001, Department 3C, New Mexico State University, Las Cruces, NM 88003.** The deadline for receipt of all materials is 31 December 1991. *New Mexico State University is an Equal Employment Opportunity/Affirmative Action Employer. Offer of employment is contingent upon verification of individual's eligibility for employment in the United States.*

The Biology Department at California State University, Los Angeles, will fill two ASSISTANT PROFESSOR tenure-track positions beginning fall 1992. Ph.D. required. The department seeks applicants who want to combine quality teaching with an active research program involving undergraduate and graduate students.

ANATOMY/MORPHOLOGY. Applicants with an interest in neuroanatomy and/or electron microscopy are especially encouraged to apply but all applicants will be given serious consideration. Teaching duties may include introductory animal biology, human anatomy, and a specialty course such as comparative anatomy.

ENTOMOLOGY. We seek an individual with broad academic training in biology who will develop an active research program dealing with insect-related population or environmental problems. The faculty member will teach introductory animal biology and general entomology, and will have the opportunity to develop a course in specialty area.

Research start-up funds are available for both positions and biomedically related research may be supplemented with grant funds from the Howard Hughes Medical Institute. Applicants for both positions should submit curriculum vitae, statement of research plans, and three letters of recommendation to: **Dr. Alan Muchlinski, Chairperson, Department of Biology, California State University, Los Angeles, CA 90032-8201.** Deadline: 10 December 1991 or until filled. *Equal Opportunity/Affirmative Action/Handicapped Employer.*

FACULTY POSITION IN BIOLOGICAL CHEMISTRY at UHS/Chicago Medical School. **ASSOCIATE PROFESSOR** position (tenure track) available in protein structure/function. Preference given to mechanistic, mutagenesis, folding, spectroscopic, or other physical biochemical approaches. Preferred systems include receptors, growth factors, viral proteins, nucleic acid binding proteins, or catalytic antibodies. Experienced candidates with a proven record of accomplishment are invited to apply and will be expected to maintain their own program in the exciting research environment and modern facilities of the school, located in a pleasant North Shore suburb 30 miles north of the Loop. Send letter of application, curriculum vitae, names of references, and description of research to: **Dr. K. E. Neet, Chairman, Department of Biological Chemistry, UHS/Chicago Medical School, 3333 Green Bay Road, North Chicago, IL 60064.** *An Equal Opportunity/Affirmative Action Employer.*

DIRECTOR HEMATOLOGY. The University of Mississippi Medical Center is seeking candidates for Director of the Division of Hematology. Candidates should have a record of scholarly accomplishment in hematology, have successfully competed for peer-review research support and be qualified for the academic rank of **ASSOCIATE PROFESSOR OR PROFESSOR.** Qualified applicants should submit current curriculum vitae to: **Dr. Martin Steinberg, VA Medical Center, 1500 East Woodrow Wilson, Jackson, MS 39216.** *The University of Mississippi Medical Center is an Equal Opportunity Employer, M/F/H/V.*

POSITIONS OPEN

ASSISTANT PROFESSOR OF BIOLOGY

Continuing its program of growth and development, the Department of Biology at Boston College is seeking applications to fill one, perhaps two, tenure-track positions at the assistant professor level for the fall of 1992. Boston College is a university with seven separate schools and colleges and over 14,000 students. The Biology Department has an active graduate program with approximately 50 Ph.D. and M.S. students and over 450 undergraduate majors.

The successful candidate will be expected to develop a strong extramurally funded research program in an aspect of eukaryotic cellular biology that complements our current research programs in: cellular and molecular biology; neurobiology and physiology; genetics, immunology, developmental and reproductive biology. The department is committed to excellence in teaching and the new faculty member will, in addition to teaching in their area of expertise, be expected to contribute to needs in one of a number of other areas such as: cellular biology, introductory biology, biochemistry or molecular evolution.

Salary levels, start-up funds and laboratory resources are competitive with other research universities. Applicants must have a Ph.D. degree and have at least 2 years of postdoctoral experience. Applications including curriculum vitae, publications list and a one page summary of current and future research plans should be sent to the **Search Committee.** Applicants must also arrange for three letters of recommendation to be sent. Application deadline is 20 December 1991; however, early application is recommended since applications will be reviewed as received.

**Search Committee
Department of Biology
Boston College
Chestnut Hill, MA 02167**

The Department of Chemistry, Yale University, invites applications for positions at the **ASSISTANT PROFESSOR** level, effective academic year 1992. We seek bright teacher-scholars who show promise for developing outstanding research programs in inorganic and organic chemistry.

Applicants should send curriculum vitae, a statement of research interests and plans, and should arrange for the submission of three letters of recommendation. All materials should be received by 6 December 1991. Send applications to: **Chair, Faculty Search Committee, P.O. Box 6666, New Haven, CT 06511-8118.** *Yale University is an Equal Opportunity/Affirmative Action Employer.*

ASSISTANT PROFESSOR/MOLECULAR GENETICIST. The Department of Biology at Dickinson College seeks applicants for a tenure-track assistant professor position in eukaryotic molecular genetics effective 1 July 1992. Undergraduate teaching responsibilities include primarily courses in genetics and advanced molecular genetics and, secondarily, a course in microbiology and participation in introductory biology. The successful candidate will have access to institutional start-up and research support funds and will be expected to develop an active research program involving undergraduates. Send curriculum vitae, statement of research and teaching interests, transcripts and three letters of recommendation by 20 December 1991 to: **Dr. John Henson, Molecular Geneticist Search Committee, Department of Biology, Dickinson College, Carlisle, PA 17013.** Dickinson is a highly selective liberal arts college with an emphasis on innovative undergraduate science education. *Dickinson College is an Equal Opportunity/Affirmative Action Employer.*

Princeton University. Psychology Department. The department anticipates the possibility of making one or more appointments at the **ASSISTANT PROFESSOR** level, or possibly a higher level, in the fields of social-personality and cognitive psychology including perception and information processing. Candidates who combine their work in these fields and/or have an interest in establishing links neuroscience are especially encouraged to apply. Candidates should have a Ph.D. and a commitment to teaching at both the graduate and undergraduate levels, and are expected to be committed to an active research program. Applicants should submit curriculum vitae and three letters of reference to: **Search Committee B, Department of Psychology, Princeton University, Green Hall, Princeton, NJ 08544-1010,** by 15 January 1992. *Princeton University is an Equal Opportunity/Affirmative Action Employer.*

POSITIONS OPEN

Harvard University, Department of Anthropology, invites applications for an **ASSISTANT PROFESSORSHIP IN BIOLOGICAL ANTHROPOLOGY.** We are especially interested in the biology and ecology of human populations, and the evolution of cognition. Applicants should evidence a strong commitment to field or laboratory research, and ability to teach undergraduates and direct doctoral research. Send curriculum vitae and names of three references to: **Chair, Department of Anthropology, Harvard University, Cambridge, MA 02138.** *An Equal Opportunity/Affirmative Action Employer*

FACULTY POSITIONS IN CHEMISTRY

The Chemistry Department at the University of California, Berkeley, solicits applications for positions as **ASSISTANT PROFESSOR** of Chemistry, beginning in the fall of 1992. Creative and energetic candidates in organic, inorganic, bio-organic, or materials chemistry who show exceptional promise for research and teaching are sought, though truly outstanding persons in any areas of chemistry will be considered. Individuals selected for these positions will be expected to establish an outstanding research program. Exceptional candidates with established programs may be considered for appointment with tenure as professor or associate professor. Candidates should send curriculum vitae, a proposed research program, and arrange to have three letters of recommendation sent to: **Chairman, Faculty Recruiting Committee, Department of Chemistry, University of California, Berkeley, CA 94720.** The deadline for receipt of applications is 1 December 1991. *The University of California is an Equal Opportunity/Affirmative Action Employer.*

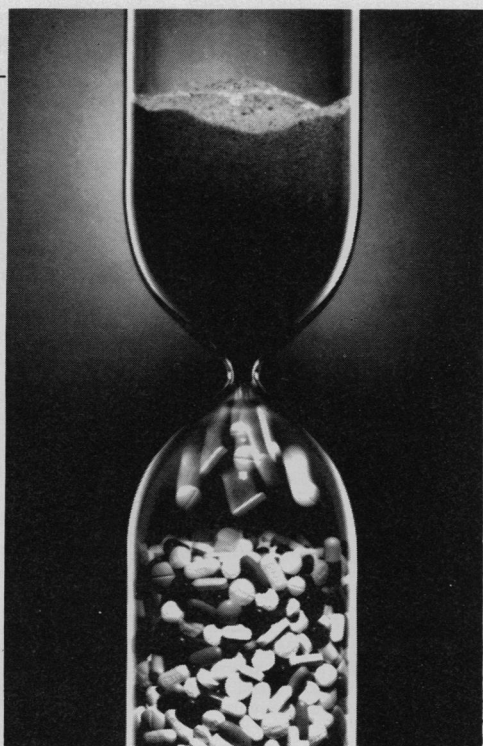
ASSISTANT PROFESSOR, MICROBIOLOGIST, tenure-track, beginning fall 1992, pending state funding. Ph.D. required. Teaching expertise should include microbiology, immunology, virology and liberal studies biology. Expected to develop an independent research program. Salary competitive. Submit curriculum vitae, statement of teaching and research interests, and names, addresses and telephone numbers of three references to: **Head, Department of Biology, James Madison University, Harrisonburg, VA 22807.** Screening of applicants will begin 25 November 1991, and continue until position is filled. *The University is an Equal Opportunity/Affirmative Action Employer.*

MOLECULAR BIOLOGIST

The Department of Neurological Sciences, Rush Presbyterian/St. Luke's Medical Center, invites application for an **ASSOCIATE PROFESSOR, TENURE-TRACK POSITION** in molecular biology for appointment July 1992. Research areas of interest are molecular biology of neurodegenerative diseases and neurotrophic factors. We seek an outstanding individual with active funded research programs. We offer start-up money, modern research space and competitive salary. Individual will join an active well-funded group of researchers in the field of neurodegenerative diseases and neural transplantation. Submit curriculum vitae, three representative publications, names of three references and statement of research interest to: **Chairman, Search Committee, Dr. Elliott Mufson, Rush Presbyterian/St. Luke's Medical Center, Tech 2000, 2242 West Harrison Street, Suite 200, Chicago, IL 60612.** *Rush Hospital is an Equal Opportunity/Affirmative Action Employer.*

NEUROBIOLOGIST. Tenure-track position at **ASSISTANT PROFESSOR** level for broadly trained neurobiologist. Responsibilities include teaching advanced undergraduate courses and contributions to the core curriculum. The position also provides the opportunity to participate in an interdisciplinary psychobiology program. Excellence in teaching and development of an active research program involving undergraduates are essential.

Mount Holyoke College, a liberal arts college for women, seeks to foster multicultural awareness and is an *Affirmative Action/Equal Opportunity Employer.* Applications from minorities are especially welcome. Send statement of interests, curriculum vitae, recent reprints, lists of relevant courses, E-mail address and/or FAX number (if available), and arrange to have three letters of recommendation sent by 22 November 1991 to: **Dr. Sue Ellen Gruber, Department of Biological Sciences, Mount Holyoke College, South Hadley, MA 01075.**



A TIME FOR ACHIEVEMENT

*The opening of the new Glaxo Inc. Girolami Research Institute, located in **Research Triangle Park, NC**, represents our continued commitment to the discovery and development of drugs for unmet patient needs.*

*Our Discovery Research Team consists of several interdisciplinary teams of Scientists committed to understanding the molecular basis of signal transduction and gene regulation. Our continued efforts will yield a new generation of drugs for the treatment of those serious diseases of mankind within our therapeutic focus: cancer, rheumatoid arthritis, diabetes and osteoporosis. We intend to strengthen and diversify these teams by appointments to a series of new positions within **MOLECULAR BIOLOGY** that will provide opportunities for innovation and leadership. The following opportunities are now available.*

TEAM LEADER

The selected individual will play a key role in expanding our program in the area of gene regulation and/or signal transduction. This challenging position requires a Ph.D. in a biological science, 2-3 years postdoctoral experience and a minimum of 5 years relevant experience in an academic or industrial setting. The successful candidate will be an accomplished researcher with a demonstrated record of leadership in directing an innovative research program.

Please refer to Job #9126B107-SC on all resumes.

RESEARCH INVESTIGATOR/ SENIOR SCIENTIST

Career launch positions for individuals interested in developing molecular biology oriented research programs in gene regulation and/or signal transduction. These positions require a Ph.D. in a biological science with a minimum of 2-3 years relevant postdoctoral experience. Successful candidates will have demonstrated the ability to creatively and collaboratively conduct productive research projects.

Please refer to Job #9126B109-SC on all resumes.

ASSOCIATE INVESTIGATORS

Career opportunities are available for individuals to join a team investigating mechanisms of gene regulation and signal transduction. To qualify, you must have a BS or MS degree in molecular biology or a related discipline and 2-4 years of laboratory experience. The successful applicants will have experience in RNA and DNA isolation, Northern gel analysis, DNA sequencing, cell culture and DNA transfections and promoter analysis. Experience with reporter gene, gel-shift and DNA footprinting assays would be beneficial.

Please refer to Job #9126-SC on all resumes.

*Join Glaxo and enjoy excellent salaries, flexible benefits, an on-site recreation and fitness center, a spirit of enthusiasm and teamwork and outstanding opportunities for career satisfaction. Equally appealing is our world famous scientific, industrial and academic community in Research Triangle Park, NC. Interested and qualified applicants are invited to forward your resume, INDICATING THE CORRESPONDING JOB # and salary history, to: **Human Resources Department, Glaxo Inc., P.O. Box 13398, Research Triangle Park, NC 27709.** (No Phone Calls or Agency Referrals, Please.) An Equal Opportunity Employer M/F/H/V.*

Glaxo Inc.

POSITIONS OPEN

EVOLUTIONARY BIOLOGIST. The Department of Cell, Molecular and Structural (CMS) Biology, Northwestern University Medical School, announces a tenure-track position at the **ASSISTANT PROFESSOR** level. We are particularly interested in individuals who are applying genetic, developmental, functional or phylogenetic approaches to understanding vertebrate structure and its evolutionary context. The Department of CMS Biology at Northwestern is composed of a large and diverse group of researchers working on aspects of modern structural, molecular, cellular, developmental and evolutionary biology. The successful candidate will assist in a team-taught course in human gross anatomy and participate in the Program in Evolutionary Biology in the Integrated Graduate Program in the Life Sciences on Northwestern's Chicago Campus. Please send curriculum vitae, statement of research interests, names of references, and representative publications by 30 November 1991 to: **Brian Shea, Department of CMS Biology, Northwestern University, 303 East Chicago Avenue, Chicago, IL 60611.**

Northwestern University is an Equal Opportunity/Affirmative Action Educator and Employer and invites applications from all qualified individuals. Applications from women and minorities are especially sought.

IMMUNOLOGISTS

The University of Washington seeks highly qualified applicants for appointments in the Department of Immunology. Applicants must have a Ph.D. or M.D. degree, at least 2 years of appropriate postdoctoral training, and must have demonstrated their ability to establish strong independent research programs in immunobiology. Although the department is seeking a person at the **ASSISTANT PROFESSOR** rank, under unusual circumstances and commensurate with the qualifications of the individual, appointment may be made at the rank of associate professor or professor. The Department of Immunology offers superb new laboratory space with access to flow cytometry, biopolymer synthesis, and transgenic animal facilities. Send curriculum vitae, a brief description of proposed research, and three letters of recommendation by 1 January 1992 to: **R. M. Perlmutter, M.D., Ph.D., Chairman, Department of Immunology, SL-05, University of Washington, Seattle, WA 98195.**

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

MOLECULAR HEMATOLOGIST. The Department of Pathology, University of Louisville School of Medicine, invites applications for tenure-track positions in molecular hematopathology. Appointments will be at the level of **ASSISTANT PROFESSOR OR ASSOCIATE PROFESSOR** as determined by experience. Research areas of interest are regulation of gene expression, molecular mechanisms of normal differentiation and malignant transformation, and gene therapy. The selected candidate is expected to develop a strong, extramurally funded basic research program that will interact with interdisciplinary programs within the James Graham Brown Cancer Center. Qualified candidates should have a Ph.D., M.D., or the equivalent and at least 3 years of postdoctoral experience in molecular biology. Interested candidates should send curriculum vitae, names of three references, a summary of past research achievements, and plans for future research to: **S. C. Peiper, M.D., James Graham Brown Cancer Center, 529 South Jackson Street, Louisville, KY 40292.** The deadline for applications is 15 November 1991. *The University of Louisville is an Equal Opportunity, Affirmative Action Employer.*

VERTEBRATE ECOLOGIST

The Department of Biology at Trinity University invites applications for a tenure-track **ASSISTANT PROFESSOR** position beginning August 1992. Candidates must possess a Ph.D., and have research interests that are compatible with undergraduate participation. Duties include teaching a laboratory course in vertebrate zoology, participation in ecology courses, and academic advising.

Applicants should send curriculum vitae, summary of research interests and names of three references to: **Professor Thomas L. Koppenheffer, Chairman, Department of Biology, Trinity University, San Antonio, TX 78212.** Application deadline is 22 November 1991. *Women and minority candidates are strongly encouraged to apply. Trinity University is an Equal Opportunity/Affirmative Action Employer.*

POSITIONS OPEN

MOLECULAR BIOLOGIST REED COLLEGE

The Reed College Biology Department invites applications for a tenure-track faculty appointment at the **ASSISTANT PROFESSOR** level beginning with the 1992-93 academic year. A Ph.D. with postdoctoral experience in the regulation of eukaryotic gene expression is required. Released time from teaching to obtain research funding is available. We seek an individual committed to teaching and research in the undergraduate environment. Reed College is a selective, liberal arts institution with a strong, traditional commitment to scholarship. Applications including curriculum vitae and three recent letters of reference should be sent by 6 January 1992 to:

**Dr. Peter J. Russell, Chair
Gene Regulation Search Committee
Biology Department
Reed College
Portland, OR 97202**

Reed College is an Affirmative Action/Equal Opportunity Employer.

ASSISTANT PROFESSOR, PLANT VIROLOGY

A tenure-track, 12-month position is available at the rank of assistant professor with primary responsibility for research focusing on fundamental biological processes relevant to the pathogenesis, epidemiology, or control of viruses that infect crops. Area of research may include, but are not limited to, virus/vector relationships, virulence mechanisms, host specificity and resistance, and viral replication and structure. Teaching responsibilities include introductory graduate plant virology. Ph.D. degree is required; postdoctoral experience and ability to conduct interdisciplinary studies are preferred. Applicants should submit curriculum vitae, statement of research and teaching interests, reprints of representative publications, and three letters of reference to: **Chairperson, Plant Virology Search Committee, Department of Botany and Plant Pathology, Oregon State University, Cordley 2082, Corvallis, OR 97331-2902.** Closing date: 15 December 1991. Position available: 1 July 1992. *Oregon State University is an Affirmative Action/Equal Opportunity Employer and has a policy of being responsive to the needs of dual-career couples.*

The Departments of Surgery and Physiology, University of Illinois at Chicago, are seeking a qualified physiologist for the position of **RESEARCH ASSISTANT PROFESSOR** and Director of General Surgery Laboratories. The applicant must possess a doctorate degree in physiology and have at least 5 years of experience in integrated organ systems, with special emphasis on in vivo measurements of systemic and regional hemodynamics, and cardiac, renal and hepatic function, as well as experience with septic shock models in animals. Duties will include directing and developing large animal models, research facilities and support laboratories at the University of Illinois and the West Side Veterans Administration Medical Center. Anticipated starting date is 1 February 1992 and the deadline for all applications will be 1 December 1991. All inquiries and curriculum vitae should be sent to: **Eric B. Rypins, M.D., Chief, Division of General Surgery, Department of Surgery (Mail Code 958), College of Medicine, University of Illinois at Chicago, 840 South Wood Street, Chicago, IL 60612.** *The University of Illinois is an Affirmative Action/Equal Opportunity Employer.*

ASSISTANT OR ASSOCIATE PROFESSOR BIOCHEMISTRY/MOLECULAR BIOLOGY

Goucher College invites applications for a tenure-track position beginning September 1992 for a biochemist with molecular biology expertise. Appointment to be made, preferably at the assistant professor level, in Departments of Biology and Chemistry (ACS-certified). Primary responsibilities will include curriculum development and teaching in biochemistry and molecular biology course sequences. Excellence in teaching emphasized. Active research program involving undergraduate participation expected. Ph.D. required, postdoctoral and teaching experience preferred. *Women and minorities are encouraged to apply.* Please send curriculum vitae, statement of teaching and research interests, and three letters of recommendation by 6 December 1991 to: **Dr. George Delahunty, Department of Biology, Goucher College, Baltimore, MD 21204.**

An Equal Opportunity Employer.

POSITIONS OPEN

UNIVERSITY OF CALIFORNIA LOS ANGELES (UCLA) FACULTY POSITIONS

The Department of Chemistry and Biochemistry of the University of California Los Angeles intends to make several faculty appointments at the **ASSISTANT PROFESSOR** level, depending upon the availability of resources. Outstanding applicants in all areas may apply. Applications are especially encouraged in theoretical and computational chemistry, biological and bio-organic simulations, and structural molecular biology. Candidates must give evidence of potential distinction in scholarship and teaching and must show exceptional promise of a creative and active career as a research scientist. A complete application should include curriculum vitae, a description of proposed research not exceeding four pages, and letters of recommendation from three professional references. *The University of California is an Equal Opportunity/Affirmative Action Employer and encourages applications from women and minority candidates.* Applications should be completed as soon as possible, but no later than 1 November 1991, and directed to: **Chairman, Faculty Search Committee, Department of Chemistry and Biochemistry, University of California, Los Angeles, CA 90024-1569; FAX: 213-206-4038.**

IMMUNOLOGY FACULTY. Case Western Reserve University. Brand new research space is available for several immunologists to join an existing group of eight immunologists at the Institute of Pathology, Case Western Reserve University. Basic research in any area of immunology will be considered. For appointment as **ASSISTANT PROFESSOR** (tenure track), candidates should have completed a productive postdoctoral fellowship. For an appointment at the associate or full professor level, candidates should have established a productive laboratory. Applicants should submit curriculum vitae, a brief description of past and current research and future plans, and the names of three references to: **Immunology Search Committee, c/o R. Zupert, Institute of Pathology, Case Western Reserve University (CWRU), 2085 Adelbert Road, Cleveland, OH 44106.** *CWRU is an Equal Opportunity/Affirmative Action Employer.*

University of Pennsylvania. The Department of Psychology intends to make an appointment at the **ASSISTANT PROFESSOR** level in one of the following areas: neuroethology, animal behavior, animal learning, or biopsychology of motivation or learning. Individuals whose research combines more than one of these areas would be especially attractive. We seek candidates with demonstrated excellence in research and teaching. They should submit curriculum vitae, reprints and preprints, and a statement of research interests and teaching competence; they should also arrange for three letters of recommendation to be sent. All materials should be sent by 2 December 1991 to: **Search Committee A, Department of Psychology, University of Pennsylvania, 3815 Walnut Street, Philadelphia, PA 19104-6196.** Please include your E-mail address with your application if you use an account regularly. *The University of Pennsylvania is an Equal Opportunity/Affirmative Action Employer.*

University of Alaska Anchorage (UAA), Biomedical Program (WAMI) in the School of Nursing and Health Sciences is now accepting applications for **ASSISTANT/ASSOCIATE PROFESSOR** of biological sciences. Full-time, permanent with benefits, tenure-track, 9 months per year. Salary: depends on experience. This position is funded through the UAA Biomedical Program which is part of the medical education agreement between the University of Washington School of Medicine and the states of Washington, Alaska, Montana and Idaho (WAMI). The successful candidate must have a Ph.D. or equivalent degree, postdoctoral research activity, experience teaching neuroscience and gross anatomy to medical students, and the potential to develop a research program and attract extramural funding. Research activities must complement the needs and resources of the Biomedical Program. Copies of a complete job description can be obtained from the **UAA Personnel Office, 3890 University Lake Drive, Anchorage, AK 99508. Telephone: 907-786-4608.** Review of applications will begin 6 January 1992 and continue until the position is filled. *UAA is an Affirmative Action/Equal Opportunity Employer and Educational Institution. Must be eligible for employment under the Immigration Reform and Control Act of 1986.*



ROCHE

SCIENTISTS

PCR TECHNOLOGY

Roche Diagnostic Systems is committed to research leading to innovative diagnostic tools, as clearly demonstrated by our Polymerase Chain Reaction technology—a revolutionary technique that may lead to the most sensitive diagnostic tools ever developed. We are seeking several enthusiastic scientists at various levels to join in the development of DNA probe assays using PCR technology. Strong interpersonal, organizational and record keeping skills are important.

ASSOCIATE SCIENTIST: You will operate and troubleshoot DNA synthesis and HPLC equipment; maintain PC databanks and DNA stocks; perform intermediate-scale DNA synthesis; and carry out purification and chemical modification of DNA. A BS or MS in Chemistry with relevant experience required. **Please refer to Position AS-12 on resume.**

SCIENTIST: You will be responsible for DNA probe assay development, testing of clinical specimens and transfer of product to manufacturing. A BS or MS in a relevant discipline, industrial experience and a background in microbiology or virology required. **Please refer to Position S-16 on resume.**

SENIOR SCIENTIST: You will develop semi-automated and automated clinical diagnostic assays. PhD or BS/MS with equivalent related experience and a strong background in assay development, infectious diseases and DNA probe assays required. **Please refer to Position SS-20 on resume.**

GROUP LEADER: You will head the laboratory responsible for scale-up, process development and manufacture of diagnostic oligonucleotides in a regulated environment. A PhD (or equivalent experience) in Organic Chemistry and strong leadership abilities are essential. A background in large-scale oligonucleotide synthesis/purification and knowledge of GMPs are desirable. **Please refer to Position GL-24 on resume.**

We offer salaries commensurate with your experience and education, a generous bonus and benefits package and the opportunity to participate in one of the most exciting technological developments in the world. For confidential consideration, please send your resume, indicating the code for your position of interest and present salary (those without this information will not be acknowledged), to: **Mrs. Eleanor M. Malone, Staffing and Employee Services, Department EM321JL, Hoffmann-La Roche Inc., Nutley, NJ 07110.** We are an equal opportunity employer.

Roche Diagnostic Systems



ROCHE

a subsidiary of Hoffmann-La Roche Inc.

EXECUTIVE EDITOR

Major New Journal on the Sciences of Complexity

Pergamon Press, together with the Santa Fe Institute, is launching a new journal devoted to the sciences of complexity, and requires a full-time Executive Editor for the day-to-day management of this publication, under the guidance of the academic Editor-in-Chief and an international Advisory Editorial Board. This newly created position presents an exciting opportunity to pursue a career in scientific publishing covering one of the most rapidly developing fields in science.

The Executive Editor will be located at the Santa Fe Institute, in Santa Fe, New Mexico, USA. Created in 1984, the Santa Fe Institute is a private, independent organization dedicated to research into complex systems, ranging from the global economy to the immune system, to the learning process.

Reporting to the Executive Vice President of the Santa Fe Institute and the Editorial Director of Pergamon Press, the Executive Editor will be responsible for the day-to-day

management of the journal and for its development. Duties will include the commissioning and technical editing of articles in liaison with the Editor-in-Chief and the Editorial Board and keeping abreast of developments in the field. The Executive Editor will be expected to travel to important conferences, and to develop contacts with institutions and research workers in the field of complexity.

Candidates will have at least a first degree, and preferably a higher degree, in any of the natural or social sciences, must have good communication skills and demonstrable knowledge of complex and adaptive systems. The ability to present technical information in a concise, readable way, an eye for detail and the ability to work to deadlines and as part of a team are essential. Previous experience in publishing would be an advantage, but all candidates with relevant experience in complex and adaptive systems, whether from a publishing background, or from a technical background, will be considered.

The Santa Fe Institute has a pleasant location in Santa Fe, New Mexico, one of the leading resort communities of the American south west. A competitive remuneration package is available.

Applications, in writing, accompanied by a full Curriculum Vitae, should be sent to: Dr Peter T Shepherd, Editorial Director,

Pergamon Press plc, Headington Hill Hall, Oxford OX3 0BW England.

PERGAMON



CHAIR BEHAVIORAL NEUROSCIENCE PROGRAM

The State University of New York is seeking a Chair for a newly-developed Behavioral Neuroscience Program. The program will be interdisciplinary, involving faculty from both the School of Medicine and College of Art & Sciences. A number of tenure-track faculty lines in addition to the Director's will be devoted to the further development of this Program, and this is to be built on top of the significant existing strengths that already exist in various Departments (e.g. Psychiatry, Psychology and Neurobiology & Behavior).

The Chair's position will be a senior, tenured faculty appointment. Departmental affiliation is negotiable. We are looking for a well-recognized scientist with an outstanding track record of research involving the study of the nervous system and its relationship to behavior. We expect the Chair to maintain a vigorous, productive, and independently funded research program. Ample space and start-up funds will be provided. The position also requires recruiting, administrative, and leadership skills to promote further development of the Behavioral Neuroscience Program.

Applicants should submit a curriculum vitae, with the names and addresses of at least 3 references, to: Murray S. Sherman, Chair, Behavioral Neuroscience Search Committee, Department Neurobiology and Behavior, University at Stony Brook, Stony Brook, NY 11794-5230. The closing date for applications is 22 November 1991.

SUNY at Stony Brook is an affirmative action/equal opportunity educator and employer.

RESEARCH SCIENTISTS

The Immunology Research Group in the Department of Virus and Cell Biology of Merck Sharp & Dohme Research Laboratories is seeking three individuals to join its research program. The research efforts focus on the generation of protective immune responses against viral and tumor antigens associated with MHC Class I molecules. Backgrounds in immunology and virology would be helpful in addition to a primary expertise in:

Molecular Biology: This scientist should have particular experience in transient and stable mammalian cell expression, including the design of vectors for inducible as well as constitutive expression.

Protein Biochemistry: This scientist should have extensive experience in purification and refolding of membrane-bound and soluble proteins. The individual must not only have technical skills but should be able to direct the biochemical efforts.

The positions require a Ph.D. or M.D. with at least 3 years of postdoctoral experience and a record of research accomplishments. Applicants with an M.S. with substantial laboratory experience in the above areas will be considered for a junior scientist position.

Excellent salary and benefit programs accompany this position at our modern research facilities located 25 miles northwest of Philadelphia. Please send curriculum vitae with references, transcripts and cover letter to:

**Personnel Manager
Ad #D-39, Research Personnel, WP42-2
Merck Sharp & Dohme Research Laboratories
West Point, PA 19486**

EEO/AA/VH/Employer



Merck & Co., Inc.

POSITIONS OPEN

RESEARCH ASSISTANT PROFESSOR. The Division of Pediatric Nephrology of the University of Washington and the Children's Hospital and Medical Center, Seattle, invites applications for a newly developed full-time research assistant professor position starting 1 July 1992. Candidates must possess a Ph.D. in molecular, cell, or developmental biology and be interested in participating in the renal developmental biology research program of the Division. After an initial period of support, candidates will be expected to maintain an independent, extramurally funded program. Please submit curriculum vitae, selected reprints, a short statement of research plans, and names of three references by 1 December 1991 to: **Ellis D. Avner, M.D., Director, Division of Nephrology, Children's Hospital and Medical Center, 4800 Sand Point Way, N.E., Seattle, WA 98105.** *The University of Washington is an Affirmative Action, Equal Opportunity Employer and encourages women and minorities to apply.*

DEPARTMENT OF PHYSIOLOGY AND BIOPHYSICS UNIVERSITY OF ILLINOIS URBANA-CHAMPAIGN ASSISTANT PROFESSOR PROTEIN CRYSTALLOGRAPHY

Applications are invited for a tenure-track position in Macromolecular Structure, preferably Protein Crystallography, at the assistant professor level starting August 1992. Applicants are required to have a doctoral degree and postdoctoral research experience. The successful candidate is expected to develop a vigorous independent research program and participate in our undergraduate and graduate teaching programs. He/she will join a strong group of biophysicists as part of a continuing commitment to establish an outstanding program in structural biology. Salary for this 9-month appointment will be commensurate with experience and qualifications. Summer salary may be generated from teaching or research sources.

In order to ensure full consideration applications must be received by 1 December 1991. Interviews may be conducted before 1 December 1991, but no final decision will be made before this date.

Applicants should submit curriculum vitae, a list of publications, a short statement of future research plans, and the names of at least three references to: **Dr. Andrew H.-J. Wang, Chairman, Search Committee, Department of Physiology and Biophysics, 156 Davenport Hall, 607 South Mathews, Urbana, IL 61801; telephone: 217-244-6637.** *The University of Illinois is an Affirmative Action/Equal Opportunity Employer.*

MOLECULAR/CELLULAR BIOLOGY FACULTY POSITION UNIVERSITY OF MISSOURI-KANSAS CITY

Applications are invited for an **ASSISTANT** or **ASSOCIATE PROFESSOR** in the School of Basic Life Sciences at the University of Missouri-Kansas City. The successful candidate will be expected to have several years of postdoctoral experience with strong research credentials to be able to develop a strong research program in, but not limited to, any of the following areas: signal transduction mechanisms, molecular genetics and gene expression, regulation mechanism in eukaryotes, molecular mechanisms of sensory perception and microscopy/image analysis. Preference will be given to candidates intending to apply their research to the understanding of basic molecular mechanisms of cellular aging. Duties include teaching at the graduate level and for the health sciences professions, and training of graduate and postdoctoral students. Competitive salaries, start-up funds, laboratory space and associated research facilities are available in an emerging academic unit developing a major program in molecular recognition, including molecular basis of sensory perception and aging. This faculty addition will complement the 20 new faculty members hired in the last 5 years for the center of eminence in basic life sciences. Applications, including curriculum vitae and a minimum one-page description of future research, as well as three letters of recommendation, should be sent to: **M. Martinez-Carrion, Dean, School of Basic Life Sciences, University of Missouri-Kansas City, Kansas City, MO 64110.**

Applications will be analyzed beginning 1 December 1991 and will continue to be screened until a suitable candidate is found. *The university is an Affirmative Action, Equal Opportunity Employer.*

POSITIONS OPEN

ASSISTANT OR ASSOCIATE PROFESSOR OF MICROBIOLOGY

Assistant professor (Rank 1 to 3) or associate professor (Rank 1 to 4), Department of Microbiology, **Position No. 82837**, tenure-track, full-time, 9-month, starting 1 August 1992. Duties: annually to teach an upper- or lower-division level course in general microbiology and an upper-division course in microbial physiology/biochemistry/molecular biology; to develop a graduate course in the area of interest and/or specialization (to be offered on alternate years); to participate in departmental and university service. Minimum qualifications: doctorate in microbiology, or closely related field, research publications and postdoctoral experience for assistant professor (plus 4 years as an assistant professor, teaching experience and ability to obtain extramural funding for associate professor), strong background in general microbiology and prokaryotic molecular biology. Desirable qualifications: demonstrated ability to establish strong and innovative programs in research and teaching. Minimum annual salary: \$34,644 (assistant professor), \$43,824 (associate professor); salary negotiable. To apply send a letter with a statement of research interests, résumé and names of three references to: **Dr. L. R. Berger, Chairman, Department of Microbiology, University of Hawaii, 2538 The Mall, Honolulu, HI 96822**. Closing date: 15 December 1991. Inquiries: **FAX: 808-956-5339. Telephone: 808-956-8603**. *The University of Hawaii is an Affirmative Action, Equal Opportunity Employer.*

University of North Carolina (UNC) at Greensboro announces a search for the Marie Foscue Rourke Distinguished Professor of Chemistry, a new, endowed position. The position will be filled by a **BIOCHEMIST** with a strong chemistry background. The successful person will have a record of teaching, publication, and grant awards commensurate with the rank of **DISTINGUISHED PROFESSOR**. The Department of Chemistry at UNC offers the B.A., B.S. (ACS accredited), and master's degrees; in addition, a Ph.D. program in chemistry is anticipated to commence in the near future. The distinguished professor will collaborate with faculty in Ph.D.-granting areas such as neuroscience and food and nutrition, as well as biology. He/she will also be involved in hiring new faculty in the biochemistry area. Salary is negotiable. Please send curriculum vitae, reprints of selected articles, and arrange for three letters of recommendation to be sent to: **Dr. M. F. Farona, Head, Search Committee, Department of Chemistry, UNC-Greensboro, Greensboro, NC 27412**. Applications must be received by 1 December 1991. *Affirmative Action/Equal Opportunity Employer, minorities and women are especially encouraged to apply.*

FACULTY POSITION ASSOCIATE PROFESSOR/PROFESSOR

The Departments of Physiology/Biophysics and Pediatrics at the University of California, Irvine, are currently seeking applicants for a joint tenure-track position under the auspices of the Physician-Scientist Program. Candidates are required to have an M.D. degree and Board certification in medical genetics. Preference will be given to candidates possessing, in addition, a Ph.D. degree or a strong background in basic science research.

We are seeking a colleague who will be able to develop a dynamic research program at the leading edge of molecular medicine. A proven track record of expertise in the disciplines of molecular biology, molecular genetics, and membrane transport systems is highly desirable. Candidates should demonstrate a history of generating extramural funding.

The successful candidate is expected to teach medical and graduate students, in addition to providing patient care at the university's clinical facilities. Rank and salary will be determined based on qualifications and experience in accordance with university scales.

The position is available mid-1992; applications must be received by 8 November 1991. Send letter of application, statement of research interests, curriculum vitae and the names of three references to:

Michael D. Cahalan, Ph.D.
Professor and Chair
Department of Physiology and Biophysics
University of California, Irvine
Irvine, CA 92717

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

25 OCTOBER 1991



Government of Canada
Gouvernement du Canada

Visiting fellowships in Canadian government laboratories 1991-92

The Government of Canada offers visiting fellowships to provide young scientists with the opportunity to work with well-established research groups in Canadian government laboratories. These fellowships are tenable in the laboratories of the following departments and agencies:

Agriculture Canada
AECL Research
Canadian Museum of Nature
Canadian Space Agency
Communications Canada
Energy, Mines and Resources Canada
Environment Canada

Fisheries and Oceans Canada
Forestry Canada
Health and Welfare Canada
National Defence
National Research Council Canada
Public Service Commission
Transport Canada

Eligibility Applicants must have received a doctorate from a recognized university within the last five years. In exceptional cases, consideration will be given to persons who do not hold a doctorate and who are not enrolled in a program. They must have received a master's degree within the last eight years, have completed at least three years of research experience beyond their degree and have demonstrated their capability to conduct independent research. There are no citizenship restrictions. Successful candidates who are not Canadians or permanent residents must satisfy Canadian immigration requirements.

Stipend Fellowships have an annual value of \$32,625 plus a travel allowance.

Duration of tenure Appointments are made for one year; renewals for a second year are possible.

Date of submission The deadline for receipt of applications is November 15, 1991.

For further information, contact the:

Visiting Fellowships Officer
Natural Sciences and Engineering Research Council
200 Kent Street, Ottawa, Ontario, Canada K1A 1H5.
Telephone: (613) 996-4363

Canada

Research Scientists

Bristol-Myers Squibb Company is a worldwide leader in the development and marketing of sophisticated pharmaceutical, medical care, consumer and nutritional products.

POSTDOCTORAL FELLOWSHIPS

Cellular & Molecular Biology

We currently have Postdoctoral Fellowships available to study autocrine growth factors and the regulation of signal transduction in tumor cells. Experience in cell surface receptors, growth factors or signal transduction mechanisms is required. Training in the study of signal transduction mechanisms in mammalian systems using biochemical and molecular biological techniques are preferred. The candidate should have a Ph.D. in one of the following areas: cell and molecular biology, biochemistry, immunology. Dept. TZ-PD-0675

Experimental Therapeutics

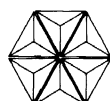
Postdoctoral Fellowship available to study novel approaches to cancer therapy using antibody directed delivery systems. The candidate should be a recent Ph.D. in Immunology or related field. Experience in tumor biology, and in utilizing antibody directed delivery of drugs or radionuclides is preferred. Dept. TZ-PD-0753

RESEARCH INVESTIGATOR

Experimental Therapeutics

Ph.D. in Biological Sciences or related area, 1-3 years experience in in vivo antitumor drug evaluation, tumor model development and/or other areas of tumor biology. Develop and evaluate in vivo tumor models, particularly those applicable to the evaluation of Pt and taxol derivatives. Directly supervise aspects of in vivo compound evaluation and contribute to the analysis of data and subsequent written and verbal reporting of same. Dept. TZ-RI-0676

Bristol-Myers Squibb offers the advantages of sustained growth, highly competitive salaries, extensive benefits and professional support at our Wallingford, Connecticut research facility. Please send resume with salary history and appropriate Dept. # to: **BRISTOL-MYERS SQUIBB COMPANY, Pharmaceutical Research Institute, P.O. Box 5101, Wallingford, CT 06492-7661**. Equal Opportunity Employer, M/F/D/V.



Bristol-Myers Squibb Company

POSITIONS OPEN

ASSISTANT/ASSOCIATE PROFESSOR IN HERPETOLOGY

HARVARD UNIVERSITY DEPARTMENT OF ORGANISMIC AND EVOLUTIONARY BIOLOGY AND MUSEUM OF COMPARATIVE ZOOLOGY

Applications and nominations are invited for an assistant/associate professor position in the biology of amphibians and reptiles. We are seeking candidates in a broad range of topics in systematic, organismic, and evolutionary biology of amphibians and/or reptiles.

Applicants, preferably with postdoctoral experience, should have demonstrated high potential for imaginative research. The appointee will be expected to teach at the undergraduate and graduate levels, and will supervise curatorial staff in the herpetological collection of the museum. *We encourage applications from women and minority groups.*

Applications should include curriculum vitae, representative reprints, summary of present and future research, and the names of three referees. Send correspondence to: **Dr. Karel F. Liem, Chair, Search Committee in Vertebrate Biology, Museum of Comparative Zoology, 26 Oxford Street, Harvard University, Cambridge, MA 02138** by 16 December 1991.

Harvard University is an Equal Opportunity/Affirmative Action Employer.

FACULTY POSITION MICROBIAL PATHOGENESIS UNIVERSITY OF MIAMI SCHOOL OF MEDICINE

The Department of Microbiology and Immunology at the University of Miami School of Medicine invites applications for a tenure-track faculty position at either the **ASSISTANT** or the **ASSOCIATE PROFESSOR** level. An individual utilizing a molecular approach to study any aspect of microbial pathogenesis is sought. All applicants who wish to be considered for the position at the level of associate professor should have an established, funded research program; applicants who wish to be considered at the assistant professor level should have several years of postdoctoral experience and a commitment to establishing an externally funded independent research program. Quality research facilities, start-up funds, and salary will be provided to the appointee. Applicants should have a Ph.D., M.D., or equivalent degree. The appointee will be expected to participate in graduate and medical training programs. Interested applicants should send current curriculum vitae, a statement describing research achievements and future research goals, relevant reprints, and the names of three references to: **Microbial Pathogenesis Search Committee, University of Miami School of Medicine, Department of Microbiology and Immunology (R-138), P.O. Box 016960, Miami, FL 33101.** The review of applications will continue until the position is filled. *The University of Miami is an Equal Opportunity/Affirmative Action Employer.*

FACULTY POSITION IN MOLECULAR AND CELLULAR BIOLOGY

The interdisciplinary doctoral Program in Molecular and Cellular Biology at Ohio University involving the Departments of Botany, Chemistry, Psychology and Zoological and Biomedical Sciences has a tenure-track faculty appointment available. This is primarily a research position with teaching involvement in a graduate level cell biology course. Applications from new or established investigators are welcome in that the appointment can be made at the **ASSISTANT OR ASSOCIATE PROFESSOR** level. Salary range is commensurate with qualifications with a minimum of \$34,000. The new faculty member is expected to maintain an active independent research program and direct graduate students. The area of research specialization is open, although possible areas may include regulation of gene expression, modeling of biomolecular interactions, receptor biology, molecular genetics and host-pathogen interactions.

Please submit curriculum vitae, statement of research interests, reprints and three letters of recommendation by 6 December 1991 to: **Secretary, Molecular and Cellular Biology Program, 228 Irvine Hall, Ohio University, Athens, OH 45701.** *Ohio University is an Affirmative Action/Equal Opportunity Employer.*

POSITIONS OPEN

ASSISTANT/ASSOCIATE PROFESSOR

The Department of Microbiology and Immunology invites applications for a tenure-track faculty position in the area of bacterial pathogenesis/prokaryotic molecular biology. Candidates should have at least 2 years of postdoctoral experience and are expected to develop a strong, independently funded research program and to teach medical and graduate students in a research-oriented department. The research facilities of the department are excellent and will expand into a new ten-story Biomedical Research Institute. We offer a competitive salary and generous seed package. Send curriculum vitae, names of three references, and description of research interests and funding to: **Dr. Dennis J. O'Callaghan, Professor and Head, Department of Microbiology and Immunology, Louisiana State University Medical Center, 1501 Kings Highway, Shreveport, LA 71130-3932.** *Affirmative Action/Equal Opportunity Employer.*

BIOCHEMISTRY FACULTY POSITION BRANDEIS UNIVERSITY

Applications are invited for a faculty position (**ASSOCIATE OR PROFESSOR**) in the Graduate Department of Biochemistry at Brandeis University. Under exceptional conditions an application at the assistant professor level will be considered. Outstanding individuals are sought who have demonstrated research excellence. The successful candidate is expected to develop a strong research program in the area of mechanistic enzymology. Duties include teaching in the department's graduate courses and the training of graduate and postdoctorate students. Applicants should send curriculum vitae, list of publications, one-page summary of past accomplishments, description of future research and names of three references to:

**Dr. Robert H. Abeles
Chairman Search Committee
Graduate Department of Biochemistry
Brandeis University
415 South Street
Waltham, MA 02254-9110**

The university is an Affirmative Action, Equal Opportunity Employer and encourages women and minorities to apply.

ASSISTANT/ASSOCIATE PROFESSOR, PHYSICAL CHEMIST. Tenured or tenure-track leading position starting August 1992. Requires interest in experimental or theoretical physical chemistry, including chemical materials as related to physical chemistry. Send credentials by 6 January 1992 (or until suitable candidate applies thereafter) to: **Professor Gordon A. Gallup, Department of Chemistry, University of Nebraska-Lincoln, Lincoln, NE 68588-0304. Telephone: 402-472-2044.** *Affirmative Action/Equal Opportunity Employer.*

NEUROBIOLOGIST DIVISION OF NEUROBIOLOGY DEPARTMENT OF MOLECULAR AND CELL BIOLOGY UNIVERSITY OF CALIFORNIA BERKELEY

The Department of Molecular and Cell Biology invites applications for the following tenure-track neurobiology position, with the appointment beginning 1 July 1992. This search is at the level of **ASSISTANT, ASSOCIATE, OR FULL PROFESSOR** to fill one of a series of neurobiology positions available over the next few years. In this search we focus on candidates with research interests that include cellular and molecular approaches to the study of nervous system function, development, or plasticity. Specific areas of interest include studies on channels, receptors, second messenger systems, synaptic plasticity, gene expression and development, and neurochemistry.

Applications should include a cover letter, curriculum vitae, a bibliography, a statement of research objectives and teaching interests, three letters of recommendation, and reprints of three representative publications. The closing date for acceptance of applications is 30 December 1991. Applications should be sent to: **Ms. Inez Drixelius, Neurobiology Recruitment Committee, Department of Molecular and Cell Biology, Room 519, Life Science Addition, University of California, Berkeley, CA 94720.** Early applications are encouraged.

The University of California is an Affirmative Action/Equal Opportunity Employer. We especially invite women and underrepresented minorities to apply.

POSITIONS OPEN

ASSISTANT/ASSOCIATE PROFESSOR

The Department of Physiology and Biophysics, University of Health Sciences/The Chicago Medical School (UHS/CMS), invites applications for tenure-track assistant or associate professor positions. Candidates must have a Ph.D. or M.D. degree. Preference is given to candidates with an established research program. Departmental research interests include: neuroscience, cellular, molecular- and membrane-physiology. UHS/CMS is a 79-year-old private medical school located in modern facilities in an elegant suburb north of Chicago. The administration is committed to excellence in science. Outstanding modern laboratories are available and teaching responsibilities are moderate. Recruitment will continue until suitable candidates are identified. Please send a description of research interests, curriculum vitae and the names of three references to: **Professor Richard Hawkins, Chairman, Physiology and Biophysics, UHS/CMS, 3333 Green Bay Road, North Chicago, IL 60064.**

CELL BIOLOGIST/IMMUNOLOGIST. The Department of Cell Biology, Neurobiology and Anatomy at Loyola University Chicago is seeking a Cell Biologist to fill a tenure-track position at the **ASSISTANT, ASSOCIATE OR FULL PROFESSOR** level beginning 1 July 1992. Applicants should have completed postdoctoral training and be capable of establishing an independent research program supported by extramural funding, although sufficient seed money will be available for establishing a laboratory. Individuals utilizing molecular approaches in the fields of general cell biology, immunobiology or neuroimmunology are encouraged to apply. Teaching responsibilities include medical histology and graduate cell biology. Applicants should submit a letter indicating qualifications and research goals, curriculum vitae and the names of three references by 15 January 1992 to: **John Clancy, Jr., Department of Cell Biology, Neurobiology and Anatomy, Loyola University Chicago, 2160 South First Avenue, Maywood, IL 60153.** *Loyola University is an Equal Opportunity Employer.*

FACULTY POSITIONS IN NEUROSCIENCE

Two **ASSISTANT/ASSOCIATE PROFESSOR** positions in neuroscience are available, Department of Anatomy, Louisiana State University Medical Center (LSUMC), New Orleans. A Ph.D. and 2 to 3 years of postdoctoral experience are required. Applicants must have an outstanding funding record/potential. Salary levels are competitive, with ample space and start-up funds. Joint appointments in the Neuroscience or LSU Eye Centers are encouraged. Send curriculum vitae, research interests, and names of three references to: **Dr. R. Ranney Mize, Department of Anatomy, LSUMC, 1901 Perdido Street, New Orleans, LA 70112-1393.** *LSUMC is an Equal Opportunity/Affirmative Action Employer.*

ASSOCIATE DIRECTOR OF RESEARCH. UCLA-affiliated GRECC at Sepulveda Veterans Administration Medical Center (VAMC) is seeking M.D. or Ph.D. with investigative interests in aging using techniques of molecular biology. Applicants must qualify for rank of associate or full professor at UCLA. Excellent opportunity to establish a strong research team with additional funded positions, space, and resources. *Sepulveda VAMC is an Equal Opportunity/Affirmative Action Employer.* Send curriculum vitae and inquiries to **Dr. Edward J. Weinman, Chief, Medical Service (111), Sepulveda VAMC, 16111 Plummer Street, Sepulveda, CA 91343.**

SEATTLE UNIVERSITY DEAN OF THE SCHOOL OF SCIENCE AND ENGINEERING

Seattle University invites applications and nominations for the position of Dean of The School of Science and Engineering.

Applications should include résumé, statement of interest, and names and telephone numbers of three references. Applications must be received by 14 December 1991 to ensure full consideration. Nominations and applications should be sent to: **Office of the Provost, Attention: Chair, Dean of Science and Engineering Search Committee, Seattle University, Seattle, WA 98122.**

Seattle University is an Equal Opportunity, Affirmative Action Employer.

BIOTECH UPDATE

**Purchase of IGB Products, Ltd.
strengthens Cyanamid's
commitment to biotechnology.**

At the Agricultural Research Division of American Cyanamid Company, our commitment to innovation in biotechnology is evidenced by our continuing investment in the talent and technology that will enable us to lead our industry in the development of commercially-viable products. Our recent purchase of IGB Products, Ltd. adds considerable strength to our work in species-specific biological control products.

Research Biologist Northern California

An opportunity has been created in our new Biopesticide Development Group for a scientist who can plan, schedule and execute experiments related to improving production of insect cells and baculoviruses in chemically defined media.

The selected candidate should possess a PhD or MS with related experience in insect cell and virus physiology and/or biochemistry. Tissue culture experience, knowledge of biochemical pathways and experience in the use of scientific analysis methods are required. Outstanding oral and written communication skills are essential as you will be expected to write formal reports and articles.

As a member of a select, talented scientific team, you will enjoy the excitement of a start-up operation and the support and resources of a fortune 500 company. Our San Leandro facility is just 25 miles southeast of San Francisco. We invite you to send your c.v. in strict confidence to: Employment Office, Dept. BB, American Cyanamid Company, Agricultural Research Division, P.O. Box 400, Princeton, NJ 08543-0400. An Equal Opportunity Employer M/F/H/V.



***Develop new customers!
Demonstrate products!
Attract new members!
Publicize successes!
Recruit personnel!
Increase name
recognition!***

You can do it all before an international scientific audience and press corps when you exhibit at **AAAS☆92**, the 158th national meeting of the American Association for the Advancement of Science (6-11 February, at the Hyatt Regency Chicago).

AAAS☆92 is the one meeting that attracts **5,000+** scientists, researchers, and educators from virtually every field of science.

Join scores of exhibiting organizations that include:

- ◆ Publishers of science books/journals,
- ◆ Software & computer companies,
- ◆ Scientific societies and associations,
- ◆ Government agencies,
- ◆ Scientific information services,
- ◆ Scientific equipment manufacturers,
- ◆ Corporations with scientific interests.

Sign up now!

For more information, call Stacy Weinberg at 202-326-6462, or write to the AAAS Meeting Promotion Department, 1333 H Street, NW, Washington, DC 20005.

***American Association for
the Advancement of Science***

POSITIONS OPEN

ASSISTANT CENTER DIRECTOR. National Ecology Research Center (NERC), U.S. Fish and Wildlife Service, Ft. Collins, Colorado. The center is a multidisciplinary research center. Program emphasis is on endangered species, wildlife research and technology development. The Assistant Director manages research and development program. A degree (Ph.D. preferred) with major study in biology, zoology, or related field plus appropriate experience commensurate with the grade level. Position will be filled at the GS-14 level (\$52,406 per year). *An Equal Opportunity Employer.* Inquiries and requests for application materials should be sent to: **Peggy Colby, NERC, 4512 McMurry Avenue, Ft. Collins, CO 80525. Telephone: 303-226-9393.**

CHAIR DEPARTMENT OF ANATOMY

The School of Medicine, University of South Dakota, invites applications and nominations for the tenure-track position of Professor and Chair of the Department of Anatomy, available July 1992. The candidate should have an M.D. and/or Ph.D. degree with teaching experience and a continuing record of research productivity in anatomy.

The successful applicant will be expected to continue a dynamic research program, supervise the daily administration of the department, be committed to strengthening the research and teaching programs within the department, and actively participate in the recruitment of additional faculty. The salary is negotiable.

Applications and nominations should include curriculum vitae, summary of current research activities, a description of teaching and administrative experience, and the names, addresses and telephone numbers of three or more references.

Applications will be reviewed until a suitable candidate has been selected. Preference will be given to applications received prior to 31 December 1991. Applications and nominations should be sent to: **Raymond J. Lynn, Ph.D., Chair, Anatomy Search Committee, University of South Dakota, School of Medicine, 414 East Clark Street, Vermillion, SD 57069-2390.**

The University of South Dakota, School of Medicine, is an Equal Opportunity/Affirmative Action Employer.

CHAIR AND TENURED ASSOCIATE OR FULL PROFESSOR DEPARTMENT OF VETERINARY PATHOBIOLOGY COLLEGE OF VETERINARY MEDICINE

Applications and nominations are invited for the position of chair and tenured associate or full professor of the Department of Veterinary Pathobiology. The department includes 32 faculty in the disciplines of anatomy, biochemistry, pathology, immunology, parasitology, microbiology, clinical pathology, pharmacology, molecular biology, and avian health, and occupies modern laboratory and teaching facilities. The College of Veterinary Medicine is located on the Twin Cities campus in St. Paul with the opportunity for interaction with colleagues from many other units of the University including the Medical School, the College of Biological Sciences, and the College of Agriculture.

Candidates must have the Ph.D. or equivalent degree from a foreign institution and preference will be given to individuals who also hold the D.V.M. or equivalent degree from a U.S. or foreign institution. The appointee will be expected to have a strong record of research and teaching accomplishments, with leadership and administrative abilities. The appointee must be able to: (1) provide leadership, both in professional and graduate education, and in developing competitive research programs, and (2) have an understanding of future trends in the veterinary profession and current issues relating to veterinary medical education. Letters of application must include current curriculum vitae, a statement of goals, and the names and addresses of three or more references. Salary commensurate with experience and qualifications.

Applications with supporting material will be accepted until 15 February 1992, and should be sent to: **Dr. John Fetrow, Search Committee Chair, Department of Clinical and Population Sciences, 225 Veterinary Teaching Hospitals, 1365 Gortner Avenue, University of Minnesota, St. Paul, MN 55108.**

The University of Minnesota is an Equal Opportunity Educator and Employer.

POSITIONS OPEN

ASSOCIATE ALBERT EINSTEIN COLLEGE OF MEDICINE DEPARTMENT OF ANATOMY AND STRUCTURAL BIOLOGY

The Department of Anatomy and Structural Biology, Albert Einstein College of Medicine, seeks a qualified candidate to run its Image Analysis Facility. Computer expertise necessary. Experience with Bio-Rad Confocal Microscope preferred. Photographic, immuno-microscopic, and/or other experience in three-dimensional reconstruction of cells and cell organelles would be helpful. Faculty benefits applicable. Applicants should send curriculum vitae and three letters of reference to: **Dr. Peter Satir, Chairman, Department of Anatomy and Structural Biology, Albert Einstein College of Medicine, Jack and Pearl Resnick Campus, 1300 Morris Park Avenue, Bronx, NY 10461.**

Equal Opportunity Employer.

ENDOWED CENTENNIAL CHAIR IN TOXICOLOGY THE UNIVERSITY OF OKLAHOMA HEALTH SCIENCES CAMPUS

The University of Oklahoma College of Pharmacy invites applications and nominations for the Henry D. and Ida Mosier Endowed Centennial Chair in Toxicology. This million dollar chair was established to attract a nationally recognized scientist in the area of toxicology to enhance interdisciplinary research and education in toxicology as well as to develop an interdisciplinary Center for Toxicological Research on the Health Sciences Center campus. The College of Pharmacy is located on The University of Oklahoma Health Sciences, Center Campus. The Health Sciences Center includes the Colleges of Medicine, Dentistry, Public Health, Allied Health, Nursing and the Graduate College-Health Sciences, in addition to Pharmacy.

Applicants should possess an earned doctorate with peer recognition as an accomplished scientist and educator in the area of toxicology. The successful candidate will be expected to provide leadership to other faculty and students and support research and graduate education programs within the College of Pharmacy. Faculty appointment will be at the full professor level and opportunities exist for joint appointments in other colleges. Review of candidates will begin on 1 January 1992 and will continue until the position is filled. Send curriculum vitae, a description of research and teaching accomplishments, and the names of three references to:

**J. Thomas Pento, Ph.D., Chairman
Endowed Chair Search Committee
OU College of Pharmacy
P.O. Box 26901
Oklahoma City, OK 73190**

The University of Oklahoma is an Equal Opportunity/Affirmative Action Employer. Applications from women and minorities are encouraged.

The University of California, Irvine (UCI), College of Medicine, is seeking a candidate for a tenured position as **PROFESSOR and CHAIR** of the Department of Psychiatry and Human Behavior. The candidate must be an accomplished investigator, clinician, teacher and administrator of high national standing. Send curriculum vitae plus names and address of three references to: **Edward G. Jones, M.D., Ph.D., Chair of the Search Committee, c/o Janet Nash, College of Medicine, Room 118, Med Surge 1, University of California, Irvine, Irvine, CA 92717. UCI is an Affirmative Action/Equal Opportunity Employer.**

DEPUTY HEAD OF BIOLOGICALS

Experienced candidates (M.S., Ph.D. or equivalent) with demonstrated practical expertise in immunology and cell biology are invited to apply for the position as deputy head of our biologicals. Department located in Gaithersburg, Maryland. Sound experience of all aspects of monoclonal antibodies, immunoassay systems and serology are required and some experience in virology is desirable. This position offers a good starting salary and excellent prospects for promotion. Please send letter of application, curriculum vitae and the names and addresses of three referees to: **Box 12, SCIENCE Classified Advertising, 1333 H Street, NW, Room 940, Washington, DC 20005.**

POSITIONS OPEN

DEAN COLLEGE OF MEDICINE UNIVERSITY OF SOUTH ALABAMA

Applications and nominations are invited for the position of Dean of the College of Medicine and Vice President for Health Affairs Elect, University of South Alabama. A comprehensive institution of public higher education with 12,000 students, the university is organized into the following divisions: College of Arts and Sciences, College of Business and Management Studies, College of Education, College of Engineering, College of Nursing, College of Medicine, College of Allied Health Professionals, a School of Continuing Education and Special Programs, a Graduate School, and a Division of Computer and Information Sciences.

The University of South Alabama, located in Mobile, Alabama, is in the state's second largest metropolitan area. Mobile, founded in 1702, is located on Mobile Bay, 30 miles from Alabama's beautiful Gulf Coast. The College of Medicine opened in 1971. A Ph.D. program in Basic Medical Sciences began in 1978. There are three medical centers and multiple clinics in the U.S. system.

Candidates must have an appropriate terminal degree, a proven record of intellectual distinction and administrative achievement, teaching experience, a personal commitment to public higher education, and a demonstrated capacity to exercise academic leadership. An understanding of the broad changes underway in health care systems and medical education is essential.

Applications and nominations are requested by 1 January 1992. Correspondence should be addressed to: **Richard D. deShazo, M.D., Chairman, Search Committee for Dean of the College of Medicine, 2451 Fillingim Street, 400 Mastin Building, Suite A, Mobile, AL 36617. The University of South Alabama is an Equal Opportunity/Affirmative Action Employer.**

CSU DOMINGUEZ HILLS—DEAN SCIENCE, MATHEMATICS, TECHNOLOGY

California State University (CSU) Dominguez Hills invites nominations and applications for the position of Dean, School of Science, Mathematics, and Technology, available 1 July 1992. Candidates should have an earned doctorate in a discipline traditionally associated with the sciences, mathematics or technology and a record of: excellence in teaching, research and service; successful academic administrative experience; effective working relationships with a diverse faculty, student body and staff; a commitment to a strong working relationship with the private sector and public schools (K-14). The dean serves as the leader of the instructional, research and service missions of the school. Review of applications will begin on 30 November 1991. Submit a letter of interest, résumé, and four letters of reference to: **Dr. Richard Palmer, Chair, SMT Dean's Search Committee, CSU, Dominguez Hills, Carson, CA 90747. Equal Opportunity/Affirmative Action, Section 504/Title IX Employer.**

PROJECT LEADER. Ph.D. in forestry resources or closely related forestry field and 1 year's experience in management and analysis of forest research data. Will also accept applicants who have completed all coursework for Ph.D., defended dissertation and passed comprehensive written exam. Ph.D. research must involve modeling genetic effects in a forest growth and yield system for southern pines. Also required advanced academic background in statistics and ability to program in FORTRAN and SAS (Statistical Analysis System). Coordinate research activities, including advanced statistical analysis, for the development of computerized forest growth simulation models that reflect the impact of the company's extensive genetic and silvicultural activities. Manage and analyze data from forest research plots. Use SAS to explore relationships between tree growth response and varying genetic material site preparation techniques and environmental conditions. Provide expertise in experimental design and statistical analysis. Develop and integrate mathematical equations into a FORTRAN model of tree growth. Write, review and publish professional quality documents describing components of forest growth model and provide related training and technical support. Forty hours per week. Salary range: \$33,900 to \$36,000 per year depending on experience. Apply in person or with résumé to: **Georgia Department of Labor, Job Order # GA 5509578, 310 South Scott Street, Drawer 1017, Bainbridge, GA 31717, or to the nearest Georgia Job Service Center.**

Massachusetts Institute of Technology

Graduate Study
Division of Toxicology

Molecular, Chemical, & Genetic
Research Related to
Cancer & other Diseases

Research Areas:

Molecular & Cellular Toxicology
Environmental Health Sciences
Molecular Epidemiology
Human Pathophysiology
Molecular & Cellular Biology of
Cancer and Genetic Change
Molecular Analysis of the Pathology
of Chemical & Infectious Agents

Faculty:

Peter C. Dedon, John M. Essigmann,
James G. Fox, Steven R. Tannenbaum,
William G. Thilly, Gerald N. Wogan,
Helmut Zarbl

Full tuition & stipend offered to all accepted applicants.
For information & application contact Debra A. Luchanin
MIT Rm. 16-330, Cambridge, MA 02139 (617) 253-1712

MIT is an Equal Opportunity Employer

DIRECTOR Hispanic American Studies

Cornell University seeks a director for its recently established Hispanic American Studies Program. The Director is expected to provide academic and administrative leadership for a university-wide interdisciplinary program of teaching and research that focuses upon the histories, cultures, and experiences of Hispanic peoples in the United States. Candidates for the position should be individuals with broad intellectual and scholarly interests that include contributions to Hispanic American Studies in the sciences or humanities; a Ph.D. (or equivalent terminal degree) in an appropriate field, with a strong teaching and publication record that would be appropriate for a tenured appointment in an academic department; and a sound commitment to teaching research. The Director is expected to work with faculty in several departments and with administrators from across the campus to develop greater emphasis on Hispanic American issues in the curriculum.

Nominations and applications should be sent to: *Dr. Cutberto Garza, Chair, Search Committee, Cornell University, 127 Savage Hall, Ithaca, NY 14853.*

**CORNELL
UNIVERSITY**

Affirmative Action/Equal Opportunity Employer

RESEARCH INSTITUTE POSITION

Staff Scientist (Toronto)

The Division of Cell Biology is seeking a Staff Scientist with research interests in Cellular and Molecular Biology. Applicants should have post-doctoral experience in one of the following areas:

- Cell surface receptors/growth factors/hormones
- Signal transduction mechanisms
- Ion or non-electrolyte transport
- Membrane biosynthesis and dynamics.

The successful candidate will be expected to conduct a vigorous, independent research program and to contribute to teaching at the University of Toronto.

Appointments will be at a rank equivalent to Assistant or Associate Professor. Send curriculum vitae, a brief description of research interests and the names and addresses of three referees to:
**Dr. Sergio Grinstein, Division of Cell Biology,
The Hospital For Sick Children, 555 University
Avenue, Toronto, Ontario, Canada M5G 1X8.**

 **THE HOSPITAL
FOR SICK CHILDREN**

RESEARCH ASSOCIATE

Monday through Friday; 8:30 a.m. to 5:00 p.m.; \$28,063 annually. Required is a Ph.D. degree in Materials Science; as part of overall degree work one (1) course each must have been completed in Digital Systems Fundamentals and Electronics. Applicant must have one (1) year of experience in job being offered or one (1) year of related experience as a Research Assistant. Related experience must include high-temperature mechanical testing (deformation) of ceramic materials via automated interface to control laboratory apparatus and in micro-structural characterization in the study of thermodynamics and kinetics of solid-state reactions. Position requires routine use of high-resolution transmission electron microscopy, high-resolution analytical electron microscopy, scanning electron microscopes, and Rutherford backscattering spectrometry. Conducts fundamental research on physical properties of ceramic matrix composites for high temperature applications and light weight high strength applications utilized in the military and aerospace industries. Research activities include designing instrumentation for high temperature and ambient temperature mechanical testing of ceramic matrix composites by constructing automated interface to control experiment apparatus and record data. Independently carries out mechanical testing and complex engineering experiments; models mechanical behaviors; and evaluates thermodynamics and kinetics of solid-state reactions occurring at the fiber-matrix interface. Characterizes chemical composition of interfaces. Analyzes microstructure of composites via material characterization techniques which include high resolution transmission electron microscopy, high-resolution analytical electron microscopy, and Rutherford back scattering spectrometry. Evaluates findings to develop new concepts, applications, products, equipment or processes. Functions as on-site resource for other research group members in resolving their difficulties associated with building instrumentation and creating computer programs to interface laboratory apparatus with mechanical testing of experimental materials. Prepares technical reports for use by scientists and engineers in related disciplines.

Interested applicants submit resumes to:
Mr. Lawrence Cheetham #1-215
MDJT Room 124
390 North Robert Street
St. Paul, Minnesota 55101
Employer Paid Ad

MEDICAL TECHNOLOGY CONSULTANT

"Aetna gave me the chance to have a direct impact on the health care system."

*Medical Technology Consultant
Technology Assessment*

As a renowned industry leader, Aetna is on the cutting edge of health care product development. And, as an organization which serves over 12 million individuals, we offer our employees the opportunity to see their contributions influence and impact health care management. Currently, we are seeking a Medical Technology Consultant to join us as we work to enhance the effectiveness and efficiency of health care delivery.

In the highly-visible role of Medical Technology Consultant you'll have the opportunity to broaden your knowledge base as you formally evaluate the safety, effectiveness and cost effectiveness of procedures, devices and drugs used in medical practices and contribute to the development of coverage and clinical policies.

These challenges require a PhD in physiology, anatomy, immunology, pharmacology or a related field with a background in technology assessment or an RN with master's level training in a related field. Computer savvy and top communication, presentation, analytical and organizational skills are also essential. Education, training or work experience in technology assessment is preferred.

In return, we offer a competitive salary, generous comprehensive benefits and every opportunity for professional advancement. For immediate consideration, send your resume to: Nancy Untiet, MAA3, Aetna, Recruiting, Dept. 2553F, 1000 Middle Street, Middletown, CT 06457. Aetna is an Equal Opportunity, Affirmative Action Employer.



A policy to do more.

POSITIONS OPEN

DIRECTOR OF HOWARD CANCER CENTER

The Howard University Cancer Center, College of Medicine, invites applications for a Director. Candidates should be Board-certified, have an M.D. or M.D./Ph.D. and be qualified for professorship in a clinical department. Additionally the candidate should be an experienced researcher with demonstrated leadership qualities and excellent administrative skills. Major responsibilities include expansion of existing programs in epidemiology, cancer control, cancer prevention, clinical and basic science research. The Cancer Center has a productive research environment including multiuser shared resources, weekly tumor boards, and research seminars. There is opportunity for interdisciplinary research. The deadline for receipt of applications is 30 November 1991. Interested persons should send their curriculum vitae to:

Dr. Donnell Bowen
Chairman of Search Committee
Department of Pharmacology
Howard University College of Medicine
520 W Street, Northwest
Washington, DC 20059

DEPARTMENT OF VETERANS AFFAIRS VETERANS HEALTH ADMINISTRATION

DIRECTOR MEDICAL RESEARCH SERVICE

The Department of Veterans Affairs invites applications for the position of Director, Medical Research Service. The Medical Research Service currently has a budget of about \$200 million and supports biomedical and behavioral sciences research of over 2500 VA scientists, 70 percent of whom are physicians. It is strongly committed to support of patient-oriented research across the entire spectrum from basic science to clinical applications of new knowledge. The director is responsible for policy development, peer review management of all investigator-initiated research studies and budget formulation and distribution. Candidates are expected to be nationally recognized scientists and they must have an established record of scholarly achievement. The position is only open to U.S. citizens who hold an M.D. degree and experience in VA research/administration desirable. Salary is \$83,032 with additional special pay up to \$45,868.

Qualified applicants are invited to send curriculum vitae, bibliography and the names, addresses and telephone numbers of three references by 1 December 1991 to: **Dennis B. Smith, M.D., Associate Chief Medical Director for Research and Development (12), Department of Veterans Affairs, 810 Vermont Avenue, NW, Washington, DC 20420.** Equal Opportunity Employer.

FACULTY POSITION BIOCHEMIST

The Departments of Chemistry and Biology of the University of St. Thomas jointly invite applications for a full-time, tenure-track position in biochemistry. The rank of the position is open and salary will be commensurate with the successful candidate's experience. The position commences 1 September 1992. Responsibilities will include teaching courses in biochemistry, laboratories in organic chemistry and, if necessary, involvement in the general chemistry program. The successful candidate should also have a strong enough background in organic chemistry to be able to teach organic lectures as the occasion demands. The development and implementation of a biochemistry laboratory course as well as the establishment of a vigorous research program involving undergraduate students are expected. Postdoctoral research experience will be considered advantageous to the establishment of a research program. A Ph.D. in biochemistry is required as well as a strong commitment to teaching at the undergraduate level in a liberal arts context. St. Thomas is a coeducational, Catholic liberal arts college committed to the total development of the individual student. Send letter of application, brief statements of teaching philosophy and research plans, curriculum vitae, and arrange to have three letters of reference sent directly to: **Ms. Penny Pease, Science Division Office Coordinator, Mail #4050, University of St. Thomas, 2115 Summit Avenue, St. Paul, MN 55105-1096.** All materials must be received by 1 December 1991. *The University of St. Thomas is an Equal Opportunity/Affirmative Action Employer.*

POSITIONS OPEN

FACULTY POSITIONS: BIOCHEMISTRY UNIVERSITY OF ALABAMA AT BIRMINGHAM

Tenure-track faculty positions are available for candidates interested in developing strong and independent research programs with long-term growth potential. All areas will be considered. The Department of Biochemistry has excellent facilities and will be undergoing substantial expansion. Teaching includes medical, dental, and graduate students within a sizable medical complex. Salary is commensurate with experience.

Curriculum vitae, brief statements of present and future research interests, and three letters of recommendation should be sent to:

Dr. Stephen C. Harvey
Department of Biochemistry
The University of Alabama at Birmingham
Birmingham, AL 35294

An Equal Opportunity/Affirmative Action Employer.

INSTRUCTOR IN MICROBIOLOGY/IMMUNOLOGY

The Department of Biological Sciences invites applications for a **UNIVERSITY INSTRUCTOR** (minimum 2 years with the potential for renewal) in microbiology/immunology commencing August 1992. Qualifications include a Ph.D. in immunology, microbiology or a related field with postdoctoral experience desirable. This position will require teaching undergraduate immunology and microbiology. Interaction in the graduate curriculum will be encouraged. Potential collaborative research opportunities exist in several areas including archaeobacterial genetics, cellular biology, cytogenetics, environmental microbiology, microbial developmental genetics, microbial ecology, molecular genetics, plant development, and reproductive biology. Applications should include curriculum vitae, a statement of teaching/research experience and philosophy and three letters of recommendation. Review of applications will begin 15 November 1991. Forward all application materials to: **Microbiology/Immunology Search Committee, Department of Biological Sciences, P.O. Box 5640, Northern Arizona University, Flagstaff, AZ 86011.** Telephone: 602-523-2381. *Northern Arizona University is an Equal Opportunity/Affirmative Action Employer.*

BIOLOGIST. The Department of Biology at Wabash College, a liberal arts college for men, invites applications for a **FACULTY POSITION** beginning January 1992 to replace a faculty member on leave for the spring semester of 1992 (with possibility for extension for the fall semester of 1992). Teaching duties will include participation in introductory biology (majors and non-majors courses) and a course of special interest. Ph.D. preferred. Send letter of application, curriculum vitae, statement of teaching interests, and three letters of recommendation by 22 November 1991 to: **Dr. John Munford, Department of Biology, Wabash College, Crawfordsville, IN 47933.** *Wabash College is an Equal Opportunity Employer and strongly encourages applications from women and minorities.*

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. Preference will be given to applicants who have established an independent research program in any aspect of gene expression and of molecular pharmacology. 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, Lake Michigan, and cultural attractions. The department under new leadership is in an exciting stage of growth and development and has already recruited several faculty of high calibre. Excellent core facilities and strong graduate program (Ph.D. and M.D./Ph.D.) with substantial financial support are available. Salary, start-up funds and other benefits highly competitive. 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.*

WE'RE PROUD TO ANNOUNCE A MAJOR INITIATIVE IN SKIN CARE RESEARCH.

At Unilever Research, U.S., our research efforts are global in scope and without scientific boundaries. Supported by a worldwide research and development budget in excess of \$750 million and a commitment to nurture and invest in new ideas, our scientists have enjoyed an extraordinary rate of success in turning ideas into commercial reality.

Building upon our commitment to innovation in skin research, we are proud to announce the establishment of our worldwide skin science center in Edgewater, NJ, just across the Hudson River from New York City.

We have opportunities at all levels for scientists interested in developing a career in skin bioscience or skin product science. Candidates at more senior levels should have a proven track record of relevant innovative research.

For the right candidate, our skin science center presents a truly extraordinary opportunity to make an important contribution in a world-class setting. To learn more about specific opportunities, forward your resume in strict confidence to: Mr. James R. Conti, Manager, Employee Relations, Dept. 1025S, Unilever Research, U.S., 45 River Road, Edgewater, NJ 07020. An equal opportunity employer.

**WILL YOUR NEXT IDEA
BE OUR NEXT "FIRST?"**



Unilever

Unilever Research, U.S.

Neurobehavioral Teratologist

The Drug Safety Department of Pfizer Central Research Laboratories is seeking a Research Scientist to conduct developmental neurotoxicity studies within its Teratology/Reproductive Toxicology unit. Candidates should possess a Doctorate or equivalent degree in Pharmacology, Toxicology, Reproductive Biology or related field. Experience in analyzing effects of drugs or other chemicals on neurobehavioral development and reproductive performance is also required. Excellent oral and written communication skills are essential.

Responsibilities include study design, supervision of performance, data analysis, and interpretation and preparation of reports for submission to international regulatory agencies.

We offer a competitive salary and benefits, including a generous relocation package. Our expanding state-of-the-art facilities, located on the beautiful Connecticut shore, offer a collegial, team-oriented work environment. Qualified applicants may send resume to: Sonia R. Banks, Personnel Associate, Employee Resources, Pfizer Inc, Central Research Division, Eastern Point Road, Groton, CT 06340. An equal opportunity employer.



Central Research
Bringing science to life.



FELLOWSHIP PROGRAMS UNITED STATES-ISRAEL

BARD, The United States-Israel Agricultural R&D Fund, announces two Fellowship Programs promoting cooperative agricultural research.

The first program (Postdoctoral Fellowship), established in 1985, is between postdoctorate fellows from the United States and scientists from Israel and vice versa. Grant applicants should be citizens of either the U.S. or Israel, and should have fulfilled the requirements for a Ph.D. degree within the last three years (postdoctorates).

The duration of each Postdoctoral Fellowship is one year. Under certain conditions, a one year extension will be considered.

The Postdoctoral Fellowship grant will be paid directly to the grantee. Each grantee will be awarded a grant of \$25,000, to cover travel expenses and living during the first year. If necessary, a small allowance, not to exceed \$3,000, will be paid to the host institution to cover operating expenses for the proposed research.

The second program, (Research Fellowship) has been incorporated into the Program since 1990. U.S. citizens who are established research scientists in American non-profit research institutions, universities or federal and state agencies are eligible to become Research Fellows. Research Fellows will be funded for a period of 4 to 12 months with a grant of \$25,000 (on a 12 month basis) to cover travel and modest living expenses.

Applications should reach BARD's Offices by January 1, 1992.

For information on application procedures please contact BARD offices at either:

BARD
USDA-ARS
Room 107, Bldg. 005, BARC-West
Beltsville, MD 20705
U.S.A.
Tel: 301-344-2605
Fax: 301-344-3298

BARD
The Volcani Center
P.O.B. 6
Bet Dagan
Israel 50250
Tel: 972-3-9655133
Fax: 972-3-9662506

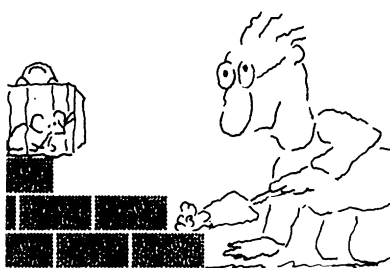
UNIVERSITY OF MINNESOTA DEPARTMENT OF BIOCHEMISTRY

MOLECULAR BIOLOGIST

ASSISTANT PROFESSOR — The Department of Biochemistry, University of Minnesota, St. Paul invites applications for a tenure-track position at the assistant professor level. We are particularly interested in recruiting a molecular biologist studying mechanisms of genetic, cellular or metabolic regulation, preferably in a eukaryotic system; however outstanding candidates in other areas will also be considered. Successful applicants will be expected to establish a vigorous research program, advise graduate students and participate in undergraduate and graduate teaching. Applicants should submit a curriculum vitae, representative reprints, a brief outline of research plans and three letters of reference no later than December 13 to: Search Committee, Department of Biochemistry, University of Minnesota, 1479 Gortner Avenue, St. Paul, MN 55108. The University of Minnesota is an Equal Opportunity Educator and Employer.

UNIVERSITY OF MINNESOTA

We'll Help You Build A New Lab



Let the free Science product information service put you in touch with the vendors whose products you will need.

Simply write us a letter stating the specifics about your proposed lab and the instruments and supplies you need. We will do the rest. Write to:

SCIENCE Magazine
New Lab Service Department
1515 Broadway
New York, NY 10036

SCIENCE The Global Weekly of Research

POSITIONS OPEN

COLUMBIA UNIVERSITY COLLEGE OF PHYSICIANS AND SURGEONS DEPARTMENT OF BIOCHEMISTRY AND MOLECULAR BIOPHYSICS

The department is continuing to hire several new **FACULTY MEMBERS**. Both tenured and tenure-track positions are available to outstanding candidates.

Applications are invited from candidates with the Ph.D. degree or its equivalent and appropriate postdoctoral experience for positions in biochemistry and molecular biophysics. In the area of biochemistry we are seeking persons with research interests in several disciplines including developmental biology, neurobiology, and regulation of gene expression. We are particularly interested in persons whose research in these areas focuses on nucleic acid-protein interactions. In molecular biophysics, the areas of particular interest are three-dimensional structural analysis, protein folding, and RNA conformation. We are also interested in persons studying enzyme mechanisms and protein-protein interactions.

Preference will be given to those people with strong records of research accomplishments. Interested candidates should submit curriculum vitae, bibliography, reprints, summary of current and future research goals as well as names of three references. *The department is especially interested in women and minority candidates.* All applications should be addressed to: **Chairman, Department of Biochemistry and Molecular Biophysics, Columbia University, Health Sciences, 630 West 168th Street, New York, NY 10032.**

Columbia University is an Equal Opportunity/Affirmative Action Employer.

BIOLOGY POSITION. The Department of Biology at Agnes Scott College has a tenure-track position starting August 1992, for a vertebrate physiologist who will also teach animal behavior, vertebrate biology and related courses. Commitments to excellence in teaching and an active research program in which undergraduates can participate are expected. Ph.D. required. Send curriculum vitae, transcripts, statements of teaching philosophy and of research interests and needs, and names, addresses and telephone numbers of three references to: **Dr. John F. Pilger, Department of Biology, Agnes Scott College, Decatur, GA 30030-3797.** To ensure full consideration, applications should be received by 25 November 1991.

Agnes Scott is a private undergraduate, liberal arts college for women located in metropolitan Atlanta, Georgia. *Minorities are strongly encouraged to apply. An Equal Opportunity Employer.*

POSITION AVAILABLE. To study the effects of vascular endothelial factors on renal proximal tubule transport and intracellular messages. Experience in renal physiology preferred. Competitive salary. Send curriculum vitae and letters of reference to: **Dr. Donald J. Marsh, Department of Physiology and Biophysics, University of Southern California (USC) School of Medicine, 1333 San Pablo Street, Los Angeles, CA 90033.** *USC is an Affirmative Action/Equal Opportunity Employer.*

TENURE-TRACK FACULTY POSITION DIVISION OF CLINICAL RESEARCH DEPARTMENT OF MEDICINE

The Division of Clinical Research, Department of Medicine, Texas College of Osteopathic Medicine (TCOM), invites applications or nominations for a tenure-track faculty position. Applicants must have an established research program with a record of extramural research funding. Preference will be given to individuals with a history of clinical research collaborations and who have a strong desire to build interdisciplinary research programs with clinical faculty. A Ph.D. in pharmacology, biochemistry, immunology or related area and/or D.O. or M.D. plus postdoctoral experience are required. Academic rank and salary are dependent upon experience and qualifications.

Applicants should send curriculum vitae, list of publications, a brief description of current and future research directions, and three letters of reference to: **Dr. Elaine L. Jacobson, Department of Medicine, TCOM, 2500 Camp Bowie Boulevard, Fort Worth, TX 76107.** *The Texas College of Osteopathic Medicine is an Affirmative Action/Equal Opportunity Employer.*

POSITIONS OPEN

DEPARTMENT OF ANATOMY UNIVERSITY OF ARIZONA

Applications are invited for two tenure-eligible **FACULTY POSITIONS** in the Department of Anatomy. We prefer candidates at the assistant or associate professor level, but more senior appointments may be made for exceptional individuals. Outstanding applicants in all contemporary research areas will be considered especially those that complement the diverse existing strengths in the department (cellular and molecular biology, developmental biology, neurobiology, imaging). Candidates should have a Ph.D. or equivalent degree and postdoctoral experience with demonstrated ability in research. Successful candidates are expected to develop and/or maintain vigorous, independent, extramurally funded research programs and to teach medical and graduate students. Candidates who can participate in a team-taught medical gross anatomy course will be given preference. To insure consideration, applications should be received by 1 December 1991; however, applications will be accepted until the positions are filled. Applicants should submit curriculum vitae, a detailed description of present and future research goals and arrange to have three supporting letters sent to: **Dr. Clark Lantz, Chairperson, Faculty Recruitment, Department of Anatomy, University of Arizona, Health Sciences Center, 1501 North Campbell, Tucson, AZ 85724.** *The University of Arizona is an Equal Opportunity/Affirmative Action Employer and applications from women and minority groups are strongly encouraged.*

PHARMACOKINETICS/BIOPHARMACEUTICS. Applications are invited for a 12-month tenure-leading **FACULTY POSITION** in pharmacokinetics/biopharmaceutics. Responsibilities are to develop a funded, independent research program and participate in professional and graduate education. The College of Pharmacy is located on the University of Nebraska Medical Center campus, which includes the Eppley Cancer Institute. The Medical Center has a national reputation in the areas of organ transplant and cancer research. The department is undergoing a strong development phase with the acquisition of an endowed chair and a planned Center for Biopharmaceutical Research. Applicants with postdoctoral or comparable research experience are sought. Send curriculum vitae and names of three references to: **Chair, Search Committee, Position #1-6167, Department of Pharmaceutical Sciences, College of Pharmacy, University of Nebraska Medical Center, Omaha, NE 68105.** *The University of Nebraska is an Affirmative Action/Equal Opportunity Employer and encourages applications from women and minorities.*

EVOLUTIONARY BIOLOGY INDIANA UNIVERSITY, BLOOMINGTON

The Department of Biology and the Program in Evolution, Ecology, and Behavior seek to recruit a new **FACULTY MEMBER** at the junior or senior level in the broad area of evolutionary biology. Candidates' research should focus on evolutionary questions in areas such as ecology, physiology, phylogenetics, and/or theory. The successful candidate should have demonstrated ability as a creative scientist and will be expected to conduct a vigorous, independent, externally funded research program and contribute to teaching at undergraduate and graduate levels. *Applications from women and minorities are strongly encouraged.* Junior candidates should send curriculum vitae, brief description of research interests, and arrange to have three letters of reference sent to: **Evolution Search Committee, Department of Biology, Indiana University, Bloomington, IN 47405.** Senior candidates should send a letter of interest and curriculum vitae.

Applications received before 15 December 1991 will be assured of full consideration. *Indiana University is an Affirmative Action/Equal Opportunity Employer.*

POSTDOCTORAL POSITION AVAILABLE IMMEDIATELY. Scientist with background in biochemistry, bio-organic chemistry, cell biology or molecular biology to study DNA damage and DNA repair. Stipends funded by training grant from the National Cancer Institute. Send curriculum vitae to: **Dr. Nahum J. Duker, Department of Pathology, Temple University School of Medicine, 3400 North Broad Street, Philadelphia, PA 19140.** Telephone: 215-221-3258 or FAX: 215-221-2781. *Temple University is an Equal Opportunity/Affirmative Action Employer.*



Research
Center

We're Miles, Ahead Of The Game.

At Miles Research Center in New Haven, CT, you'll be working in the Institute for Molecular Biologicals conducting innovative biomedical research.

At the expanding Research Center of an international pharmaceutical leader, we offer scientific challenges and opportunities for individual growth. Play your part in the advancement of therapeutic medicine in one of the following positions:

SENIOR RESEARCH SCIENTIST

Transgenic Animal Models

There is a position open in the Transgenic Animals Group, whose focus is the development of animal models of human disease (Science 253, 323). We are seeking an individual with 2-3 years' postdoctoral experience in the areas of cell and molecular biology and transgenic animal/stem cell technology.

The successful candidate will join a research group that is highly interactive and with diverse project goals in the areas of human metabolic, cardiovascular, immunological and neurodegenerative diseases. You will work with other pharmaceuticals research scientists at the Miles Research Center in the design of new animal models for targeted disease indications, and will lead the research efforts in generating and characterizing such transgenic animals.

T E C H N I C I A N S

Transgenic Animal Models

This is a research position in transgenic animal technology. Laboratory experience in recombinant DNA technology and gene expression analysis is required. Basic knowledge of cell biology and/or animal handling is highly desirable. MS degree or 5-10 years' professional experience.

Protein Chemistry

We are seeking a scientist to perform amino acid analysis, protein sequencing and related functions in the protein chemistry facility. BS degree in biology/biochemistry with two years of laboratory experience required. Experience with instrumentation and computers is desirable.

Protein Biochemistry

Positions available for BS and MS level scientists with a minimum of 2-3 years' laboratory experience in enzymology and protein purification and characterization. You will contribute to ongoing projects involving natural and recombinant biologicals. Experience in conventional chromatography methods, HPLC, electrophoresis and enzyme assays is desirable.

These positions offer attractive compensation commensurate with qualifications, generous benefits, and an excellent opportunity for personal growth and professional satisfaction. Resumes including salary history should be forwarded in confidence to: **Department CEC, Miles Inc., Research Center, 400 Morgan Lane, West Haven, CT 06516.**

An Equal Opportunity Employer M/F/H/V

The World Health Organization (WHO) is an inter-governmental agency internationally recognized for its integrity and lasting achievements. Guided by humanitarian concerns, WHO works to direct and coordinate global and national efforts to improve the health of peoples throughout the world. To meet its objectives, WHO depends on staff members with special qualities of leadership, dedication and commitment.



The UNDP/WORLD BANK/WHO Special Programme for Research and Training in Tropical Diseases (TDR) is a globally coordinated effort to bring the resources of modern science to bear upon the control of major tropical diseases and to strengthen the research capability of endemic, developing countries where new disease control technologies are most needed. To meet its objectives, TDR has recruited into its global network scientists of the highest calibre to participate in this international research effort.

TDR

Secretary of the Steering Committee on Immunology of Malaria Tropical Diseases Research Programme WHO Geneva, Switzerland

TDR supports research on the immunology of malaria and promotes the development and coordination of research on malaria vaccines. The Steering Committee on the Immunology of Malaria sets priorities for activities in this area, reviews relevant research proposals and monitors progress. The Secretary works in close liaison with the Steering Committee.

The specific responsibilities of the Steering Committee Secretary include:

- planning and managing the activities of the immunology of malaria component of TDR
- promoting research on the immunology of malaria
- promoting international coordination of malaria vaccine development
- providing information to other WHO programmes, review and governing bodies, and to health authorities
- assisting in other TDR activities, particularly strengthening research capabilities in developing countries
- participating activities of the WHO Malaria Control Unit, acting as focal point for immunology of malaria.

Applicants should have considerable post-doctoral experience in research on immunology and/or vaccine development. Experience in malaria research and international research management are additional assets. Required qualifications are a doctoral degree in biomedical science or a medical degree with a post-graduate qualification in a relevant discipline; excellent knowledge of English or French with a good working knowledge of the other. The post requires ability to relate effectively to scientific investigators and health authorities.

Please send your detailed curriculum vitae and letter of application, together with a recent photograph, within three weeks of publication of this notice, to Personnel (MPR), Avenue Appia, CH-1211 Geneva 27, quoting PER/MPR and the name of the journal in which this announcement appeared. Applications from women are encouraged. Only candidates under serious consideration will be contacted.

**DEPARTMENT OF BIOCHEMISTRY
THE HONG KONG UNIVERSITY OF
SCIENCE AND TECHNOLOGY**

The HKUST is a new publicly funded research University. The first intake of students will be in October 1991 at both undergraduate and postgraduate levels including the doctorate. Enrollment is expected to grow to 7,000 FTE by 1996-97. The medium of instruction is English. Applications are invited for the positions of Professor, Reader, Senior Lecturer and Lecturer. The Department places strong emphasis on excellence in both research and teaching. Initial efforts will be focused in a few key areas including molecular biology, biochemical pharmacology, immunochemistry and plant biochemistry. Applicants should have a PhD degree in the relevant fields, preferably with postdoctoral research experience.

Generous benefits include medical and dental benefits, annual leave plus children's educational allowance, air passages and housing benefits where applicable. Initial appointments will generally be for three years, renewable subject to mutual agreement. Approved sabbatical leave will be at full salary.

Send applications/nominations with a complete CV plus the names and addresses of at least three referees to: Director of Personnel, The Hong Kong University of Science and Technology, Clear Water Bay, Kowloon, Hong Kong. Fax: (852) 358-0700.

Research Scientists - Gene Therapy

Genetic Therapy, Inc. has been involved, through its collaborators at the National Institutes of Health and at other major research institutes, in the first clinical testing of retroviral-mediated gene transfer and therapy. As a consequence of an expansion to broaden its research activities, GTI has immediate positions for research scientists at all levels.

Research scientists, with a Ph.D. or M.D. qualification, and training or expertise in retrovirology, molecular biology, gene cloning and expression, lymphokine biology, immunology or human genetics are encouraged to apply. Positions are available at post-doctoral, research scientist and group leader levels. There is also a position available, preferably at the post-doctoral level, for a researcher with training and experience with adenovirus or other DNA virus research. GTI offers a stimulating work environment and competitive salaries and conditions. Applicants should send their resumes, and the names and addresses of 2 references to:

Genetic Therapy, Inc.
Human Resources - RS
19 Firstfield Road
Gaithersburg, MD 20878



GTI is an equal opportunity employer.

POSITIONS OPEN

**RESEARCH FACULTY POSITION
TASTE/OLFACTION**

Individuals who utilize molecular neurobiological/neurophysiological technique in the study of taste or olfaction are invited to apply to the Pennington Biomedical Research Center (PBRC). Generous facilities to house and equip the research program are available along with opportunities for research collaboration with faculty within the center and at Louisiana State University (LSU). Applicants should submit curriculum vitae, statement of research interests and names and addresses of three references by 30 December 1991, to: **Taste/Olfaction Scientist, Human Resource Management, Pennington Biomedical Research Center, 6400 Perkins Road, Baton Rouge, LA 70808-4124. LSU/PBRC is an Equal Employment Opportunity/Affirmative Action Employer.**

POSTDOCTORAL SCHOLAR POSITION, Penn State. Postdoctoral Scholar Position available immediately to study the mechanisms by which growth hormone (GH) antagonizes the intracellular insulin signal pathways in adipocytes. Research efforts will be directed at elucidating the point(s) at which GH impairs the ability of insulin to stimulate glucose transport and lipid synthesis. Funding is available for a 3-year appointment; first-year salary is \$25,000. A research background in biochemistry or molecular biology is desired. Send letter of application, curriculum vitae and telephone numbers of three references, by 29 November 1991, to: **Dr. Terry D. Etherton, Department of Dairy and Animal Science, Box SM, The Pennsylvania State University, 301 W. L. Henning Building, University Park, PA 16802. An Affirmative Action/Equal Opportunity Employer. Women and minorities are encouraged to apply.**

POSTDOCTORAL POSITION. Available immediately to study molecular mechanisms of oxidant-induced injury to pulmonary endothelial cells. Study includes phospholipid synthesis, phospholipase estimation, signal transduction pathways, protein synthesis, immunoblot analysis, hybridization analysis (Northern, Southern, etc.). Experience in cell biology, biochemistry, and/or molecular biology is required. Please send curriculum vitae with names and telephone numbers of three references to: **Dr. J. M. Patel, Division of Pulmonary Medicine, Health Center Box J-225, University of Florida, Gainesville, FL 32610. Telephone: 904-392-0864.**

POSTDOCTORAL GENOME ANALYSIS

Several positions available for molecular genetics studies of the human genome and applications to disease gene mapping and cloning. Projects include, but are not limited to, human telomere characterization, index marker genetic linkage map construction, YAC chromosome walking, and gene identification in selected genomic regions. Send letter of interest and curriculum vitae to:

**Dr. Helen Donis-Keller, Professor of Genetics
Department of Genetics
Washington University School of Medicine
600 South Euclid, Box 8232
St. Louis, MO 63108**

Washington University School of Medicine is an Equal Opportunity Employer.

POSTDOCTORAL POSITION. Available immediately to study the cell biology and transport physiology of the *Bacteroides fragilis* enterotoxin in intestinal epithelial cells, using probes of cytoskeletal structure and digital fluorescence imaging. Salary commensurate with experience. Candidates should send curriculum vitae and the names of three references to: **Dr. Cynthia Weikel, Johns Hopkins University, Department of Medicine, Huntarian 509, 725 North Wolfe Street, Baltimore, MD 21205 or FAX: 301-955-9677.**

Lovelace Medical Foundation has **POSTDOCTORAL POSITION** available for 2 to 3 years beginning immediately to examine the cellular, biochemical, and molecular aspects of autoimmunity. Goal: to determine the interaction between T- and B-cells at the molecular level. Background in molecular biology and glycoprotein purification desirable. Send curriculum vitae to: **Judy Coalson, Lovelace Medical Foundation, 2425 Ridgecrest Drive S.E., Albuquerque, NM 87108. Affirmative Action Employer, M/F/V/H.**

POSITIONS OPEN

**TWO POSTDOCTORAL POSITIONS
UT MEDICAL GROUP, INC. (UTMG)
AFFILIATED WITH THE
DEPARTMENT OF
OBSTETRICS/GYNECOLOGY
UNIVERSITY OF TENNESSEE, MEMPHIS
MOLECULAR GENETICS
RESEARCH LABORATORY**

The molecular genetics research laboratory within the division of reproductive genetics invites applications for two 5-year postdoctoral research fellow positions. The successful candidates will join a small dynamic team studying the molecular biology of the sex-reversed (Sxr) region of the mouse Y chromosome. Ongoing projects include (1) the cloning and functional analysis of the spermatogenesis gene *Spy*, (2) cloning and analysis of *Hya*, the gene controlling the expression of the male specific minor histocompatibility antigen H-Y, and (3) the production of a complete structural map of the entire region in overlapping yeast artificial chromosomes leading to the identification of new Y located genes. Applicants must have a Ph.D. and be experienced in molecular genetics. Experience in cell culture and mouse genetics would be an advantage. In addition, applicants should be capable of thinking and working independently. Working conditions are excellent in new well-equipped laboratories. UTMG offers excellent benefits and competitive salaries. Informal inquiries may be made to: **Dr. Collin E. Bishop—telephone: 901-528-7258/7174 or FAX: 901-577-8476.** Interested applicants should send detailed curriculum vitae, a summary of research interests/reprints and the names of three referees to: **Dr. C. E. Bishop, UT Medical Group Inc., Employment Office, 66 North Pauline Street, Memphis, TN 38105-5102.**

UT Medical Group Inc. is an Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL POSITION. The U.S. Department of Agriculture (USDA), Agricultural Research Service (ARS), U.S. Plant, Soil and Nutrition Laboratory, Ithaca, New York, is seeking research physiologist/biochemist/nutritionist/cell biologist, to: study iron transport across intestinal cell membranes; develop monolayer cultures of polarized intestinal epithelial cells and utilize bi-cameral chambers and modern electrophysiology techniques to study regulation of iron absorption by enterocytes. Preference to candidates with experience in iron transport, intestinal absorption, membrane transport, cell biology, or electrophysiology. Applicants must possess Ph.D. in related field. Salary commensurate with experience (\$31,116 to \$37,294 per year). Send curriculum vitae and three references to: **Darrell VanCampen, USDA-ARS-Plant, Soil and Nutrition Laboratory at Cornell University, Tower Road, Ithaca, NY 14853. Telephone: 607-255-8002; FAX: 607-255-2459.** Applications must be marked **2N002. Equal Opportunity Employer.**

POSTDOCTORAL POSITION is available in a multidisciplinary research group studying regulation of pulmonary adrenergic receptor gene expression. Areas of investigation include identification and characterization of *cis* and *trans* elements involved in cell-specific adrenergic receptor gene expression during lung development and drug intervention. Prior experience in molecular biology is desirable. Salary is competitive and commensurate with experience. Send curriculum vitae and names of three references to: **F. Charles Hiller, M.D., Chief, or Lawrence E. Cornett, Ph.D., Division of Pulmonary and Critical Care Medicine, Department of Medicine, Slot #555, University of Arkansas for Medical Sciences, 4301 West Markham Street, Little Rock, AR 72205. An Equal Opportunity/Affirmative Action Employer.**

POSTDOCTORAL POSITION IN MOLECULAR AND CELLULAR BIOLOGY. A postdoctoral position is available to study the role of serine/threonine-specific protein phosphatases in growth control and neoplastic transformation by DNA tumor viruses. Applicants should have experience in cell and molecular biology. Please send curriculum vitae, a brief description of research experience, and the names and addresses of three references to:

**Dr. Gernot Walter
Department of Pathology, 0612
University of California, San Diego
9500 Gilman Drive
La Jolla, CA 92093-0612**

POSITIONS OPEN

POSTDOCTORAL POSITIONS IN CANCER RESEARCH are available to study the functions of cytochromes P-450 and molecular mechanisms of carcinogenesis. Candidates with strong background in molecular and cell biology, molecular oncogenesis, bioorganic mechanisms, or protein isolation and characterization are encouraged to apply. Outstanding candidates may be appointed as Research Associate or Assistant Research Professor. Send curriculum vitae, summary of research experience, and names of three references to: Dr. Chung S. Yang, Professor, Laboratory for Cancer Research, College of Pharmacy, Rutgers University, Piscataway, NJ 08855-0789. *Rutgers University is an Equal Opportunity Employer.*

POSTDOCTORAL POSITION IN DEVELOPMENTAL NEUROBIOLOGY. Research involves the morphological and biochemical analysis of cerebellar and brainstem development in normal mice and murine mutations characterized by abnormal cerebellar development. Position available immediately. Please submit curriculum vitae and names of three references to: L. M. Eisenman, Ph.D., Department of Anatomy, Thomas Jefferson University, Philadelphia, PA 19107. *Equal Opportunity Employer.*

POSTDOCTORAL POSITION available immediately. Research will focus on expression and characterization of metalloproteinases. Some experience in molecular biology required. Send curriculum vitae and names of references to Dr. Jay W. Fox, Department of Microbiology, University of Virginia, Charlottesville, VA 22908.

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

MOLECULAR NEUROBIOLOGY POSITIONS FOR SENIOR, STAFF AND FOREIGN FELLOWS NATIONAL INSTITUTE FOR DRUG ABUSE (NIDA)

The Laboratory of Molecular Neurobiology, NIDA/Addiction Research Center wishes to enhance efforts in: (1) Cloning drug and neurotransmitter receptors with special emphasis on transporter genes, (2) characterizing expression of these genes in transgenic mice, (3) understanding mechanisms of neurotransmitter gene regulation in cell culture and brain, and (4) RFLP association and linkage studies in human population. Salary and benefits are competitive. Applicants with expertise and interests in molecular biology, molecular genetics, molecular neurobiology, *Xenopus* expression systems, biochemical and genetic characterization in transgenic animals are encouraged to apply to:

George R. Uhl, M.D., Ph.D.
Laboratory of Molecular Neurobiology
Box 5180
Baltimore, MD 21224

The NIDA is an Equal Opportunity/Affirmative Action Employer, M/F/H/V. ADAMHA is smoke-free.

POSTDOCTORAL POSITIONS SAN DIEGO

Two positions available immediately: (1) To study the structure and function of vesicular stomatitis and measles virus polymerase complexes and regulation of their activity by host and/or viral protein kinases. Experience in site-directed mutagenesis and/or protein phosphorylation studies required; and (2) to study the function of peroxisomal proteins in lipid (cholesterol) metabolism. Projects include isolation/cloning of these proteins. Experience in recombinant DNA techniques required. Salaries are based on NIH scale and include excellent benefits. Please send curriculum vitae and names of references to: Dr. J. Perrault (first position), or Dr. S. Krisans (second position), Molecular Biology Institute, San Diego State University, San Diego, CA 92182. *Affirmative Action/Equal Opportunity Employer.*

POSTDOCTORAL POSITION. Available immediately for a biochemist, cell biologist, or organic chemist interested in the study of molecular mechanisms of drug resistance in cancer cells using NMR spectroscopy and fluorescence microscopy. Send curriculum vitae to: Dr. Michael Gamesik or Dr. Michael Colvin, The Johns Hopkins University School of Medicine, 310 Traylor Building, 720 Rutland Avenue, Baltimore, MD 21205-2195.



Sterling Research Group

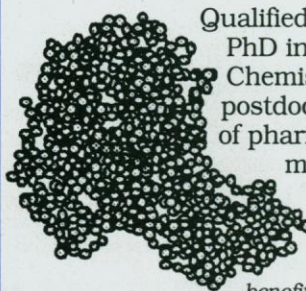
A Division of Sterling Drug Inc.

A Subsidiary of Eastman Kodak Company

Build A Future With Sterling.

Research Investigators Biophysics and Computational Chemistry

We invite applicants for exciting career opportunities as Research Investigators in the Biophysics and Computational Chemistry Group. This interdisciplinary group integrates biophysical chemistry, X-ray crystallography, and NMR spectroscopy with modern computational methods for structure-based design of new drugs. As a member of this group, you will participate in development of new computational tools for rational drug design and work closely with therapeutic project teams to develop new pharmaceuticals.



Qualified candidates for this position will possess a PhD in Physical, Organic, or Computational Chemistry or a related field; 1-5 years' industrial or postdoctoral experience in receptor-based modeling of pharmaceuticals, QSAR methods, and/or protein molecular modeling; advanced programming experience in FORTRAN and familiarity with UNIX graphics workstation environments.

You will discover that we offer a competitive salary and benefits package, along with outstanding career opportunities.

Please send resume to: Sterling Research Group, GV-159-91, 9 Great Valley Parkway, Malvern, Pennsylvania 19355. An Equal Opportunity Employer M/F/D/V.

ROCHE

SENIOR SCIENTIST ARTHRITIS RESEARCH

Through original research leading to drug development, Hoffmann-La Roche is working to improve the quality of life around the world. To help us fulfill this mission, we are seeking a Senior Scientist to join our Department of Allergy and Inflammation Research.

You will study the regulation of the production of enzymes involved in cartilage turnover as it relates to the development of drugs for the treatment of arthritis. A PhD in Biochemistry, Cell Biology, Pharmacology or a related discipline and 1-3 years of postdoctoral experience are required. A background in the study of factors involved in the control of gene transcription is essential; knowledge of connective tissue metabolism would be helpful. The ability to interact effectively with coworkers and to participate in a team effort is important.

We offer a salary commensurate with your experience and education, a generous bonus and benefits package and state-of-the-art scientific resources. For confidential consideration, please send your resume and present salary (those without this information will not be acknowledged) to: Mrs. Eleanor Malone, Staffing and Employee Services, Department EM311JC, Hoffmann-La Roche Inc., Nutley, New Jersey 07110. We are an equal opportunity employer.

ROCHE

Hoffmann-La Roche

POSITIONS OPEN

A **POSTDOCTORAL POSITION** is available for a biochemist/molecular cell biologist to study the targeting and import of precursor proteins into mitochondria using the yeast *S. cerevisiae* as a model system. Areas of investigation include analysis of cytosolic factors involved in mitochondrial biogenesis, determining how this process is integrated with other cellular phenomena including protein synthesis, cell division and growth, and analyzing the effect of various drugs on protein import. The position will be available on 1 November 1991. Send curriculum vitae and names of three references to: **Dr. Keith Verner, Department of Cellular and Molecular Physiology, Pennsylvania State University College of Medicine, Hershey, PA 17033. Pennsylvania State University is an Equal Opportunity/Affirmative Action Employer. Women and minorities are encouraged to apply.**

POSTDOCTORAL POSITION IN MASS SPECTROMETRY available immediately for the study of metal binding interactions with biomolecules. Chemist with a combination of experience in tandem mass spectrometry, electrospray ionization, and inorganic or organic chemistry preferred. Send résumé and three letters of recommendation to: **Dr. Jeanette Adams, Department of Chemistry, Emory University, Atlanta, GA 30322. Emory is an Affirmative Action/Equal Opportunity Employer.**

POSTDOCTORAL POSITION. To work, in collaboration with the Ohio DNR, on a long-term, community-based research effort in Lake Erie. Biological background, computer expertise, and data handling of large data sets desirable. Send curriculum vitae, reprints, and three reference letters by 29 November 1991 to: **Dr. Roy A. Stein, Aquatic Ecology Laboratory, 1314 Kinnear Road, The Ohio State University, Columbus, OH 43212-1194. The Ohio State University is an Affirmative Action/Equal Opportunity Employer.**

POSTDOCTORAL POSITIONS for recent Ph.D.'s to participate in an active research program on the structure, regulation and expression of human DNA repair genes and enzymes. Current research efforts focus on the molecular defects which underlie cancer-prone human genetic disorders and structural analysis of multifunctional repair enzymes by site-specific mutagenesis. Submit curriculum vitae and the names of three references to: **Dr. Michael A. Sirover, Fels Institute for Cancer Research and Molecular Biology, Temple University School of Medicine, 3420 North Broad Street, Philadelphia, PA 19140. Equal Opportunity/Affirmative Action Employer.**

POSTDOCTORAL FELLOW. Immediate opening for structure-function studies of coagulation factor VIII. Ph.D. with experience in molecular biology techniques used for expression of recombinant proteins as well as protein purification and biochemical analysis. Salary up to \$33,000 depending on experience, for 2- to 3-year position. Send curriculum vitae with list of references to: **Dr. Dorothea Scandella, American Red Cross, 15601 Crabbs Branch Way, Rockville, MD 20855. Equal Opportunity Employer, M/F/H/V.**

POSTDOCTORAL FELLOWSHIPS FOR TRAINING IN IMMUNOLOGY AND VIROLOGY at the University of Massachusetts Medical Center. Cellular immunology: Robert E. Humphreys, M.D., Ph.D.; Lawrence Jung, M.D.; Carol L. Miller, Ph.D.; David C. Parker, Ph.D.; Paul L. Romain, M.D.; Robert T. Woodland, Ph.D. Viral immunology: Francis A. Ennis, M.D.; John E. Herrmann, Ph.D.; Ichiro Kurane, M.D.; Ouoc V. Nguyen, M.D.; Takeshi Sairenji, Ph.D.; John L. Sullivan, M.D.; Raymond M. Welsh, Ph.D. Experimental diabetes: Arthur A. Like, M.D.; Aldo A. Rossini, M.D.; Bruce A. Woda, M.D. Molecular virology: Christie A. Holland, Ph.D.; Trudy G. Morrison, Ph.D.; Carel Mulder, D.Phil.; Ronald M. Iorio, Ph.D.; Harriet L. Robinson, Ph.D. Molecular immunology: John E. Mole, Ph.D.; Peter E. Newburger, M.D.; Janet Stavnezer, Ph.D. Candidates interested in joining this active, multidisciplinary, NIH-supported training program should send a résumé, the names of three references, and a letter stating their research interests and the laboratories in which they would be interested in undertaking training to: **Dr. Harriet Robinson, Department of Pathology, University of Massachusetts Medical Center, Worcester, MA 01655. The University of Massachusetts Medical Center is an Affirmative Action/Equal Opportunity Employer.**

POSITIONS OPEN

POSTDOCTORAL POSITION available in research program investigating the immunotherapy and chemotherapy of *Mycobacterium tuberculosis* and *Mycobacterium avium* infections in mouse models. Recent Ph.D. in immunology preferred. Send curriculum vitae and names of three references to: **Dr. Ian Orme, Department of Microbiology, Colorado State University, Fort Collins, CO 80523. Equal Opportunity/Affirmative Action Employer.**

POSTDOCTORAL FELLOWSHIPS IN THE DEPARTMENT OF ANATOMY AND NEUROBIOLOGY UNIVERSITY OF CALIFORNIA, IRVINE

Several positions for research in individual laboratories in the department are available for candidates who have demonstrated research promise at the predoctoral or postdoctoral level. The emphasis of research in the department is in the neurosciences with special expertise in neuromorphology, sensory physiology, and molecular neurobiology. The faculty of the department and their research interests are:

- Dr. Robert Blanks: Eye movement control, physiology of upper airway.
- Dr. James Fallon: Chemical neuroanatomy, transmitters and growth factors.
- Dr. Christine Gall: Limbic/olfactory anatomy, neurotrophic factors, neuronal gene expression.
- Dr. Roland Giolli: Visuomotor system: structure/function relationships.
- Dr. Stewart Hendry: Primate visual system.
- Dr. Paul Isackson: Molecular neurobiology, neurotrophic factors.
- Dr. Edward Jones: Transmitter regulation in primate cerebral cortex.
- Dr. Glenn Kageyama: Oxidative metabolic development and plasticity.
- Dr. Leonard Kitzes: Auditory system physiology and anatomy.
- Dr. W. Ian Lipkin: Neurotrophic viruses, viral vectors.
- Dr. Sandra Loughlin: Monamines, peptides and growth factors and their receptors.
- Dr. Diane O'Dowd: Regulation of ion channels in *Drosophila*; development of functional thalamocortical connections.
- Dr. Charles Ribak: Epilepsy, neurotransmitters and hippocampal circuits.
- Dr. Richard Robertson: Cerebral cortical development.
- Dr. Malcolm Semple: Auditory system, binaural interactions.
- Dr. Martin Smith: Cellular and molecular aspects of synaptogenesis.
- Dr. John Swett: Spinal cord and peripheral nervous system.
- Dr. Yasuhiro Torigoe: Peripheral nervous system and oculomotor control.

Applications or inquiries for additional information should be sent to:

**Dr. Edward G. Jones, Professor and Chairman
Department of Anatomy and Neurobiology
University of California, Irvine
Med Surge II, Room 364
Irvine, CA 92717**

An Affirmative Action/Equal Opportunity Employer.

M.D./Ph.D. FELLOWSHIPS

The Medical University of South Carolina offers stipends (\$10,200 to \$15,000) for studies leading to combined M.D./Ph.D. degrees in each of the basic biomedical sciences and molecular and cellular biology/medicine. Contact: **Director, Medical Scientist Training Program, College of Graduate Studies, MUSC, 171 Ashley Avenue, Charleston, SC 29425.**

POSTDOCTORAL FELLOW. Position available for Ph.D. with training in molecular biology, to study ion channel expression in glial cells and neurons using molecular biological methods. Experience with in situ hybridization and Northern analysis are required. Highly interactive group, with opportunities to interact with electrophysiologists, pharmacologists, and neuromorphologists. Send curriculum vitae, statement of interest, and three letters of recommendation to: **Harald Sontheimer, Ph.D., Department of Neurology, LCI 702, Yale Medical School, 333 Cedar Street, New Haven, CT 06510.**

Equal Opportunity/Affirmative Action Employer.

POSITIONS OPEN

POSTDOCTORAL FELLOW RESEARCH ASSOCIATE

We are seeking a molecular neurobiologist to participate in active research programs in neurodegenerative diseases, neural transplantation and neurotrophic factors. Experience in in situ hybridization and knowledge of neuroanatomy is preferred. Position is funded for a minimum of 2 years with immediate starting date. Submit curriculum vitae and names of three references to: **Drs. E. Mufson and J. Kordower, Rush Presbyterians/St. Luke's Medical Center, Tech 2000, West Harrison Street, Suite 200, Chicago, IL 60612. Rush Hospital is an Equal Opportunity/Affirmative Action Employer.**

A position for a **POSTDOCTORAL FELLOW OR A RESEARCH ASSISTANT PROFESSOR** is available in the laboratory of Dr. Douglas C. Eaton. The laboratory investigates the regulation of ion channels with particular emphasis on ion channels in epithelial tissues. We use patch clamp, biochemical, and molecular biological methods to investigate signal transduction pathways which modulate epithelial sodium and chloride channels in cell culture models. Salary and appointment level are negotiable, but, in general, are nationally competitive and are dependent upon previous experience in molecular biology, electrophysiology, or transport physiology. The starting time for the position is also negotiable, but should begin before 30 June 1992. For further information please contact: **Dr. Douglas C. Eaton, Department of Physiology, Emory University Medical School, 1648 Pierce Drive, Atlanta, GA 30322. Telephone: 404-727-7421. FAX: 404-727-2648. Emory University is an Equal Opportunity Employer.**

RESEARCH ASSOCIATE/POSTDOCTORAL FELLOW. Immediate opening at Stanford University. Searching for a Ph.D. who will assist the Director of the Center for Narcolepsy in an NIH-supported research laboratory studying the molecular genetics of narcolepsy, an immune related disorder leading to symptoms of sleepiness and abnormal REM sleep. Goals are to identify the genes and their mechanisms of action in the pathophysiology of narcolepsy. Involves the use of an animal model of the disorder (autosomal recessive canine narcolepsy), cell culture, basic biochemical, immunological and molecular biologic techniques, including PCR-based technologies, RFLPs, Pulse Field Gel Electrophoresis and molecular cloning in various vectors. Send curriculum vitae and references to: **Emmanuel Mignot, M.D., Ph.D., Director, Center for Narcolepsy, Sleep Disorders Center, 701 Welch Road, Suite 2226, Palo Alto, CA 94304. Stanford University is an Equal Opportunity Employer through Affirmative Action.**

POSTDOCTORAL RESEARCH FELLOWSHIP DEPARTMENT OF PATHOLOGY

The Department of Pathology at Fox Chase Cancer Center seeks applicants for a fellowship in surgical oncologic pathology and research in the area of molecular biology in tumor diagnosis. Applications for training fellowships for 1992 to 1993 are open to pathologists wishing to be trained in those aspects of cancer diagnosis research. The position entails engagement of 50% of the time in research and 50% in surgical pathology of tumor diagnosis. Fellowships are awarded for 1 year and are subject to second year renewal. Fellows will, in general, be selected from applicants with some postdoctoral research experience related to cancer, or surgical pathology. Deadline for applications is 1 December 1991. For additional information, contact: **Jeanne Nace, Administrative Assistant, Department of Pathology, Fox Chase Cancer Center.** Applications should be submitted to: **Jose Russo, M.D., Chairman, Selection Committee for Postdoctoral Fellowship, Department of Pathology, Fox Chase Cancer Center, 7701 Burholme Avenue, Philadelphia, PA 19111. We are an Equal Opportunity/Affirmative Action Employer.**

POSTDOCTORAL RESEARCH ASSOCIATE

Available immediately to study the mechanisms underlying the selective effects of DNA damage induced by the carcinogen chromium(VI) on gene transcription in cultured cells. Experience in basic molecular biology techniques and cell culture is required. Send curriculum vitae and three letters of reference to: **Dr. Karen Wetterhahn, Department of Chemistry, Dartmouth College, Hanover, NH 03755. Dartmouth College is an Equal Opportunity/Affirmative Action Employer.**

Post Doctoral Fellowships

\$36K-\$39K + Superannuation

A term of 3 yrs (should follow no more than 3 yrs after conferring of your doctorate)

*Division of Plant Industry,
Black Mtn, Canberra ACT, Australia*

Ref No. PG91037

The goal of our research is to develop methods for transferring novel genetic material into wheat.

You will apply your knowledge on construction of DNA plasmids for expression in cereal cells, general molecular biology, micro particle bombardment of cultured cells, selection of genes for herbicide (or antibiotic) resistance and assays of transformed cells.

For more information on the job ring Dr Richard Brettell, 61 6 246 5426 or fax 61 6 246 5000. Please refer below for obtaining selection criteria and address for applications.

Ref No. PG91038

We need a motivated scientist to work as part of a team applying molecular biological techniques to modify Eucalypts for use in plantations.

You will develop basic molecular techniques for eucalypt species, isolate genes from eucalypts using homologous genes as probes and develop gene constructs for introduction into eucalypts.

For more information on the job, ring Dr Liz Dennis on 61 6 246 5061 or fax 61 6 246 5000.

The selection criteria and duty statement for both jobs are available from Lynette on 61 6 246 5295 or fax 61 6 246 5000.

Your application, including details of your skills, qualifications and work experience, quoting appropriate Ref No's, should be sent to: **The Recruitment Office, CSIRO Division of Plant Industry, GPO Box 1600, Canberra ACT 2601, Australia**, by Nov. 29, 1991.



CSIRO IS AN
EQUAL OPPORTUNITY EMPLOYER

77681

MOLECULAR BIOLOGIST

5 Prime → 3 Prime, Inc., a leader in the development of unique products for research in molecular biology and genetic engineering, is seeking a Senior Scientist for Research and Development.

The position requires a Ph.D. in Molecular Biology or closely related discipline with a minimum of 2 years postdoctoral training. We are seeking a creative, enthusiastic scientist to join an equally creative group of scientists developing advanced systems for genetics, microbiology, molecular immunology, and protein biochemistry.

5 Prime → 3 Prime, Inc. offers excellent professional growth opportunities and a competitive compensation package. The company, located in Boulder, Colorado, is within minutes of the University of Colorado and the magnificent front range of the Rocky Mountains. Boulder offers a matchless quality of life and unlimited opportunity for academic and cultural stimulation.

Send C.V. and 3 professional references to:



Randolph J. Hellwig, Ph.D.
Director, Research & Development
5 Prime → 3 Prime, Inc.
5603 Arapahoe Avenue
Boulder, CO 80303

ROCHE

SENIOR SCIENTISTS MOLECULAR STRUCTURE GROUP

Hoffmann-La Roche, one of the world's most progressive pharmaceutical companies, has two exciting opportunities for Senior Scientists to join our Molecular Structure Group and perform research leading to new pharmaceutical agents based on the three-dimensional structures of small molecules and biopolymers.

MOLECULAR MODELER

You will design new drugs based on structural and functional information for organic molecules, carbohydrates, peptides and proteins. Experience in drug design is essential. **Please refer to Department LH361VM on resume.**

NMR SPECTROSCOPIST

You will determine the structures of proteins and protein-ligand complexes in solution. Experience in acquisition and analysis of multidimensional NMR data on proteins is essential. **Please refer to Department LH351VM on resume.**

Both Scientists will join established laboratories within their specialties, and will collaborate with Protein Crystallographers and Protein Chemists, as well as with Synthetic Chemists and Biological Scientists. Many projects are based on templates from protein structures including enzymes, effectors and receptors.

Qualifications for both positions include a PhD in Chemistry or a related field, knowledge of protein structure and structure-function relationships, postdoctoral experience and skill in evaluating and implementing new techniques.

In return for your expertise, we offer salaries commensurate with your experience and education, a liberal bonus and benefits package, and significant opportunities to have scientific impact. For confidential consideration, please send your resume, indicating the code for your position of interest and salary history/requirements (those without this information will not be acknowledged), to: **Ms. Lynn Harac, Staffing and Employee Services, Hoffmann-La Roche Inc., Nutley, New Jersey 07110**. We are an equal opportunity employer.

ROCHE

Hoffmann-La Roche

Postdoctoral Research

THE SCIENCE OF SUCCESS

From a single laboratory bench in 1933, Schering-Plough's on-going dedication to the development of new life-enhancing medications has caused us to become one of the world's most successful pharmaceutical organizations. Today, our 2,000 research scientists create medications with sales of over \$3 billion a year. And you can be a part of it.

POSTDOCTORAL RESEARCH SIGNAL TRANSDUCTION

As a member of our Molecular Pharmacology group you'll contribute to on-going research projects examining signaling pathways used by cell adhesion receptors and/or the biochemistry of serine/threonine protein kinases. We are seeking an independent highly motivated individual with a recent Ph.D in biochemistry, molecular biology or pharmacology. Knowledge of the biochemistry of signal transduction or cell adhesion and experience with molecular biological techniques is desirable. #TM91-123.

POSTDOCTORAL RESEARCH ANTIFUNGAL

This position requires a recent Ph.D. graduate to conduct independent research on the regulation and expression of genes involved in cell wall biosynthesis of *Saccharomyces*. A strong background in molecular biology, genetics or related field is required. Experience with microbial systems is desirable. #TM91-165

Both positions offer highly competitive salaries, superior benefits, and all the challenge and growth potential an international industry leader can offer. Applicants should submit their cv, indicating position of interest to: **George Czuba, Human Resources Dept., Schering-Plough Research, 60 Orange Street, Bloomfield, NJ 07003.** We are an equal opportunity employer.

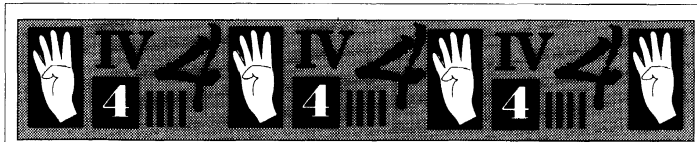


NEUROSCIENCE FACULTY POSITIONS

The newly established Neuroscience Institute of The Chicago Medical School seeks applications for faculty positions at open rank from individuals with a commitment to academic excellence in the areas of research and education. The Institute is dedicated to providing a central focus for medical and graduate programs in neuroscience and will promote University-wide new initiatives in clinical and basic neuroscience research. In addition to contributions by new faculty, the academic environment of the Institute is enhanced by over 25 active neuroscientists from other basic and clinical departments housed at our relatively new north suburban campus. All areas of research are of interest to us although some preference will be given to individuals qualified to be Directors of the following named research laboratories: Alzheimer's Disease Research, Parkinson's Disease Research, Developmental Neuroscience, Affective Disorders, Neurotrophic Factors, Molecular Neuroscience, Neurogerontology, Neuroendocrinology, Neurotransmitters and Receptors, and Neural-Immune Modulation. Interested scientists are requested to forward relevant materials to:

John R. Sladek, Ph.D.
*Professor of Neuroscience and Director
Neuroscience Institute
University of Health Sciences/
The Chicago Medical School
3333 Green Bay Road
North Chicago, IL 60064*

Equal Opportunity Employer



THE SCIENCE RECRUITMENT 'FOUR-DAY CLOSE'

Now you can see your ad in SCIENCE four days after submission

Scientific recruiters can now advertise positions almost as soon as the need arises. Instead of reserving space a month or more in advance, you can now place your ad four days before the magazine mailing date. **SCIENCE** is mailed on the cover date.

Film (right-reading, emulsion face down) or full camera-ready art and insertion order must reach: **SCIENCE, Short Close Desk, 1515 Broadway, New York, NY 10036** by NOON Mondays (except for legal holidays when material must reach New York by NOON Fridays). Because space is limited, the four-day close page will be reserved on a first-come, first-served basis, at a 15% premium. 1/4, 1/2 or full page only.

Now you don't have to wait to find the researchers you need immediately, nor must you advertise in a Sunday paper that pans a lot of sand but not much gold. Scientific employers know that **SCIENCE** ads fill the job better. Now they fill it faster too.

You can call it "INSTANT RECRUITMENT."

For further information, telephone Ed Keller, Recruitment Advertising Manager, or Gwen Cantor, Advertising Traffic Manager at **SCIENCE**: 212-730-1050, or write to:

SCIENCE, 1515 Broadway, NY, NY 10036

CURRENT DISTRIBUTION 160,000



Genetics Institute.

Harnessing the
body's power
to heal.

Genetics Institute is at the forefront of the discovery and development of biopharmaceuticals.

Our accomplishments, recognized internationally as major medical breakthroughs, were made possible by dedicated professionals. Everyone in our organization is working toward a common goal: the development of biopharmaceuticals designed to enhance the treatment of seriously ill patients and improve their quality of life.

Genetics Institute is positioned to offer outstanding opportunities for bright, enthusiastic individuals.

Staff Scientists

Macromolecular Structure/Function

Utilize your background in macromolecular structural analysis by taking part in projects involving protein structure/function studies. Responsibilities include the structural analysis of recombinant therapeutic proteins under development and the assessment of functionally important domains. This position offers the opportunity for extensive interaction with scientists from other disciplines. To qualify, you must have a proven expertise in protein structural analysis using classical protein chemistry or spectroscopic techniques. Excellent communication skills, a record of scientific leadership and accomplishment, and appropriate postdoctoral or industrial experience in macromolecular structural analysis or function are essential. We encourage candidates with backgrounds in chemistry, biochemistry, structural biology or receptor biology to apply.

Mammalian Cell Culture

Put your experience in tissue culture techniques to work in the multidisciplinary Mammalian Cell Culture Group of our Cell Biology Laboratory. Your primary responsibilities will be developing and characterizing recombinant mammalian cells to enable the understanding of their complex biology. Qualified candidates will have a Ph.D. in Cell Biology/Biochemistry with 1-3 years of postdoctoral experience with the use of techniques which allow the biochemical and immunological characterization of complex heterologous proteins.

Protein Purification

If you have an interest and experience in protein purification, we have an outstanding opportunity in our Process Biochemistry Group. Responsibilities include developing purification processes for recombinant protein therapeutics from initiation of development work through the start of clinical manufacturing, as well as biochemical aspects of the large-scale purification process. Qualified candidates will have a Ph.D., an understanding of purification scale-up and the ability to interact with other functional areas including Cell Culture and Clinical Manufacturing. A desire to explore structure/function relationships and the impact of purification on protein structure is preferred.

Watch for details regarding our Post-Doctoral Fellowship Program in an upcoming issue.

Genetics Institute offers competitive salaries and benefits, including comprehensive medical, three weeks' paid vacation, 401(k) and stock purchase programs, tuition assistance, on-site exercise facility and free parking.

Please send resume, specifying position of interest, to: Human Resources Department, Genetics Institute, Inc., One Burt Road, Andover, MA 01810. Genetics Institute is committed to growth through diversity. We are an Affirmative Action Employer.

* See us at the ASCB meeting at the Hynes Auditorium, December 8-12.

Genetics Institute, Inc.

POSITIONS OPEN

POSTDOCTORAL RESEARCH ASSOCIATE. Brookhaven National Laboratory, Medical Department, seeks postdoctoral graduate with background in organometallic or coordination chemistry. The project involves development and evaluation of CU-67, SM-153 and AU-199 labeled monoclonal antibodies for radiotherapy. The successful candidate will assist with the synthesis of chelating agents, develop new methods to link these chelates to antibodies, perform radiolabeling chemistry, and assist with in vitro and in vivo assays. Experience with protein labeling and characterization using techniques such as HPLC and PAGE is desirable.

The appointment is for 1 year, initially, and is renewable. Interested individuals should send curriculum vitae including the names of three references to: **L. F. Mausner, Medical Department, Brookhaven National Laboratory, Associated Universities, Inc., Upton, Long Island, NY 11973; telephone: 516-282-4457. Equal Opportunity Employer, M/F/H/V.**

POSTDOCTORAL RESEARCH ASSOCIATE. To carry out biomedical research on the study of excitation-contraction coupling in muscle; dissection of muscle fibers; and preparation of experimental solutions; computer programming; taking and analyzing of experimental data and preparing scientific manuscripts for publication in professional journals. Ph.D. in physiology or physics. Forty hours per week, Monday through Friday, 9:00 a.m. to 6:00 p.m. Salary: \$25,600 per year. Job site, New Haven, Connecticut. *Must have proof of legal authority to work in the United States.* Send résumé no later than 18 November 1991 to: **Job Order Number 3091476, Job Service Technical Unit, Connecticut Department of Labor, 2000 Folly Brook Boulevard, Wethersfield, CT 06109.** No calls please.

POSTDOCTORAL/RESEARCH ASSOCIATE

To conduct research on central neural pathways and mechanisms regulating the sympathetic nervous system and cardiovascular function, with emphasis on electrophysiological approaches. Please send curriculum vitae and description of research experience and interests to: **Dr. Shaun Morrison, Department of Physiology, Northwestern University Medical School, 303 East Chicago Avenue, Chicago, IL 60611. Equal Employment Opportunity/Affirmative Action Employer. Employment eligibility verification required upon hire.**

POSTDOCTORAL RESEARCHERS

The Department of Physiology and Biophysics, University of California, Irvine, is developing a postdoctoral candidate pool for possible openings during the remainder of the 1991 to 1992 fiscal year. Openings may be available in the following research areas: ion channels in lipid bilayers; physical chemistry of membranes; mechanisms and regulations of steroid hormone biosynthesis; exercise physiology; molecular properties of ion channels in excitable cell membranes; molecular and electrophysiological aspects of lymphocyte activation. Salary is in accordance with current NIH/NSF postdoctoral stipends which are based upon qualifications and years of prior, relevant postdoctoral experience. *Minorities and women are encouraged to apply.* Send curriculum vitae and names of three references to: **Michael D. Cahalan, Ph.D., Chairman, Department of Physiology and Biophysics, University of California, Irvine, Irvine, CA 92717. The University of California, Irvine, is an Affirmative Action/Equal Opportunity Employer.**

UNIVERSITY OF CALIFORNIA LOS ANGELES (UCLA) SCHOOL OF MEDICINE MOLECULAR BIOLOGIST/ SENIOR RESEARCH ASSOCIATE

Position available for Ph.D. interested in studying molecular mechanisms of cytokine regulation, gene transduction and cancer immunotherapy.

UCLA and its affiliated institutions are Equal Opportunity and Affirmative Action Employers. For consideration please submit curriculum vitae and two letters of reference to:

**Arie Beldegrun, M.D.
UCLA School of Medicine
Center for the Health Sciences
66-118 CHS
10833 LeConte Avenue
Los Angeles, CA 90024-1738
Telephone: 213-206-1434**

POSITIONS OPEN

THE SCRIPPS RESEARCH INSTITUTE (TSRI) RESEARCH POSITIONS IN RECEPTOR BIOCHEMISTRY AND SIGNAL TRANSDUCTION

Applications for funded positions are invited with appointment possible at level of **POSTDOCTORAL FELLOW, RESEARCH ASSOCIATE OR JUNIOR FACULTY** in the Department of Immunology to study the molecular biology and biochemistry of endotoxin/membrane receptor interactions in leukocytes. Background is found in *Science* 249, 1429 (1990) and *J. Biol. Chem.* 265, 9520 (1990). Position available immediately; send curriculum vitae and references to:

**Richard J. Ulevitch, Ph.D.
Department of Immunology, IMM-12
TSRI
10666 North Torrey Pines Road
La Jolla, CA 92037
Telephone: 619-554-8219
FAX: 619-554-6123**

TSRI is an Equal Opportunity/Affirmative Action Employer.

RESEARCH ASSOCIATE. Position available for Ph.D. to join and aid in the direction of an active hematopoiesis program. Laboratory studies include assessment of the effects of growth factors and antibodies to growth factor receptors in the murine system. Laboratory space and support available in the new West Pennsylvania Research Foundation Building. Direct inquiries to:

**Richard K. Shaddock, M.D.
Director, Western Pennsylvania Cancer Institute
4800 Friendship Avenue
Pittsburgh, PA 15224**

RESEARCH ASSOCIATE. Available immediately to participate in the study of chemotherapy induced ovarian follicular loss and its prevention in nonhuman primates. Applicants should have strong background in reproductive biology, ovarian physiology and histochemical techniques. Experience in handling oocytes and embryos is a plus. Ph.D. degree preferred. Please send curriculum vitae to: **Dr. K. M. Ataya, Director, Reproductive Endocrinology, Obstetrics/Gynecology, Metro Health Medical Center, Case Western Reserve University, Cleveland, OH 44109.**



RESEARCH ASSOCIATE MOLECULAR VIROLOGY

Triplex Pharmaceutical Corporation, a biotechnology company doing innovative research and development in the area of human therapeutics, is seeking a Ph.D. with 1 to 2 years of experience. The position responsibilities include designing and evaluating the effects of oligonucleotides on the expression of herpes simplex virus genes.

Experience with HSV in tissue culture and familiarity with cloning, DNA/RNA isolation, Northern, Southern and RNase protection assays in vitro transcription systems or viral gene expression is required.

Triplex offers excellent compensation, benefits and equity participation. The company is located north of Houston and the Texas Medical Center.

Send curriculum vitae to: **Director of Administration, 9391 Grogans Mill Road, The Woodlands, TX 77380.**

RESEARCH ASSOCIATE. M.D. or Ph.D. in neuropharmacology to investigate mechanisms involved in the neuropharmacology of dopamine and GABAergic neurons. Minimum of 1 year of training in extracellular single-unit recordings, iontophoresis and stereotaxic (retrograde and in vivo intracellular labeling) techniques, clinical neuropharmacology, computer and binding assays is required. Salary is \$22,350 annually (40 hours per week; 8:00 a.m. to 5:00 p.m.). Send applications to: **Employment Security Commission, 560 Mangum Street, Durham, NC 27702** or your local Job Service Office referring to: **Job Order # NC 3010150 D.O.T. Code 090.227-010.** If not a U.S. citizen, include visa class and basis for work authorization in the United States.

POSITIONS OPEN

RESEARCH ASSOCIATE

Teaching and research institution has job opening for a research associate. The job to be performed includes highly sophisticated laboratory investigation studying various aspects of age on the hematologic and immune systems. The work includes in vitro culture of bone marrow in order to identify primitive erythroid, myeloid and megakaryocytic stem cells, and quantitation and evaluation of the effects of various cytokines produced by immune cells on erythropoiesis and myelopoiesis. Requirements: M.D. degree in medicine or equivalent, plus 3 years of postdoctoral training in a laboratory involved in the study of immunologic/hematologic system, in both animals and man. Salary: \$24,000 per year/40 hours per week. To apply, send résumé to: **Arkansas Employment Security Department, P.O. Box 34047, Little Rock, AR 72203-2981.** Job order 663520. *Must have proof of legal authority to work in the United States.*

CLINICAL IMMUNOLOGY EVANSTON HOSPITAL

The Department of Pathology and Laboratory Medicine of Evanston Hospital seeks candidates for a staff position in the clinical immunology laboratory. The laboratory is primarily service-oriented, but research and methods development as well as teaching are integral to its mission. Preferably, the director of this division will be an M.D. pathologist with special expertise in immunology, but well-qualified Ph.D. specialists will be considered. The position will be open 1 January 1992. The position is in the Department of Pathology and Laboratory Medicine of Evanston Hospital, with an academic appointment at Northwestern University Medical School. Liaison with nearby Northwestern University is possible and will be strongly encouraged. *Evanston Hospital and Northwestern University are Equal Opportunity Employers; members of minorities are encouraged to apply.*

Inquiries should be sent to:

**Malcolm V. Vye, M.D.
Department of Pathology and Laboratory Medicine
Evanston Hospital
2650 Ridge Avenue
Evanston, IL 60201-1783**

PRINCETON UNIVERSITY CENTER FOR ENERGY AND ENVIRONMENTAL STUDIES AND

CENTER OF INTERNATIONAL STUDIES PROGRAM ON NUCLEAR POLICY ALTERNATIVES PROFESSIONAL RESEARCH POSITION

Position involves working on a wide range of security, nonproliferation and arms control problems with emphasis on the control of spent fuel and fissile material. Ph.D., scientific training, and some experience in policy analysis required. Rank and salary commensurate with background and experience. Please send résumé to:

**Princeton University
Code: MJB/HF
H106 Von Neumann Building
Princeton, NJ 08544**

Princeton University is an Affirmative Action/Equal Opportunity Employer.

USDA, Forest Service, Forest Environment Research, seeking applicants for **FOREST HYDROLOGY STAFF SPECIALIST** (\$61,643 to \$80,138) to provide leadership and coordination of national programs in water resources research. Formulates policies related to forest soil and water resources, develops research program objectives and budgets, and reviews and coordinates the soil and water research programs of eight regional experiment stations. **Telephone: 703-235-2313 or 202-205-1524** for vacancy announcement.

FORENSIC MOLECULAR BIOLOGIST (\$39,329 to \$60,049). The Virginia Division of Forensic Science is seeking a qualified Ph.D. molecular biologist to provide technical direction to development/expansion of DNA testing and databank (CODIS) programs. Experience in RFLP and PCR DNA analyses on forensic materials preferred. Submit state application to: **Department of General Services, Human Resources, 805 East Broad Street, Room 117, Richmond, VA 23219**, no later than 5:00 p.m., 29 November 1991. For assistance **telephone: 804-786-3910 or TDD: 804-786-6152.** *Equal Employment Opportunity/Affirmative Action/M/F/H.*

**DEPARTMENT OF PHARMACEUTICAL
SCIENCES
UNIVERSITY OF MONTANA**

The School of Pharmacy invites applications and nominations for two 12-month positions. A Ph.D. degree in Pharmaceutical Sciences or allied disciplines, teaching experience, and strong organizational, interpersonal and communication skills are required. Experience with a Pharmacy Program is desirable. **Chair:** to provide creative leadership in the development of the Department of Pharmaceutical Sciences. The ideal candidate should be an investigator with a strong track record in scholarship, extramural funding and program development. **Assistant/associate professor:** with postdoctoral experience to assist in teaching of Pharmacy undergraduate and Pharmaceutical Sciences graduate program and to develop an independent, externally funded research program. Pharmaceutical Sciences consists of 8 faculty with research interests in neuroendocrinology, cardiovascular pharmacology, nutritional influences on drug pharmacokinetics, diabetes, pharmacognosy and pharmaceutical toxicology. The Pharmacy Program shares vital relationships with other departments, centers of excellence and biotechnology companies. Applications including a curriculum vitae, a summary statement on administrative philosophy and experience (Chair position), and names/addresses and phone numbers of at least five references should be sent to: **Craig A. Johnston, Ph.D., School of Pharmacy & Allied Health Sciences, University of Montana, Missoula, MT 59812-1075. Telephone: (406)-243-4972.** The University of Montana is one of the nation's outstanding public universities, committed to strong professional programs, research and liberal arts education. It is located in Missoula, a cosmopolitan Rocky Mountain community of 70,000, often singled out in national publications for its quality of life. The School provides an environment conducive to teaching and research with small class size and a new, modern building. Screening of applications will begin December 1, 1991, and will continue until the positions are filled. *The University of Montana is an equal opportunity/affirmative action employer.*

**National Institutes of Health
Public Health Service
FELLOWSHIP IN
ELECTROPHYSIOLOGY**

The Laboratory of Neurosciences at the National Institute on Aging, Bethesda, Maryland invites applicants for a Fellowship position to study voltage and neurotransmitter-gated ionic currents in aneuploid dorsal root ganglion and hippocampal neurons, and to study synaptic transmission and synaptic integrity in the aneuploid nervous system. The program will primarily involve whole cell and single channel patch clamp recordings of normal and trisomy 16 cultured fetal mouse neurons, which provide a model of human trisomy 21 (Down syndrome). Experience in patch clamp recordings is required.

Interested candidates should submit their Curriculum Vitae and two letters of recommendation to: **Stanley I. Rapoport, M.D., Chief, Laboratory of Neurosciences, National Institute on Aging, National Institutes of Health, Building 10, Room 6C103, Bethesda, MD 20892.**

NIH is an Equal Opportunity Employer

**Cardiovascular
Scientist**

Merck Sharp & Dohme Research Laboratories in West Point, Pennsylvania has an opening for a Cardiovascular Scientist with experience with in vivo models of vascular injury, thrombosis and thrombolysis, smooth muscle cell proliferation and/or restenosis, to join an active team of investigators involved in the development of novel cardiovascular therapies.

This position requires a Ph.D. in pharmacology or physiology, and at least two years postdoctoral experience. Active collaboration with other investigators in the group will be required, and the publication and presentation of experimental results is highly encouraged.

Excellent salary and benefit programs accompany this position at our modern research facilities located 25 miles northwest of Philadelphia.

Please send curriculum vitae with references, transcripts and cover letter to: **Personnel Manager, Ad #D-40, Research Personnel, WP42-2, Merck Sharp & Dohme Research Laboratories, West Point, PA 19486.**

EEO/AA/VH/Employer



Merck & Co., Inc.

**Attention
SCIENCE
Advertisers!**

**After 11 October 1991,
all Advertising materials
should be sent
directly to:**

**SCIENCE Advertising
1333 H Street, NW
Washington, DC 20005
Telephone: 202-326-6541/2
FAX: 202-682-0816**

FACULTY POSITIONS



**EMORY UNIVERSITY
SCHOOL OF MEDICINE
Department of
Microbiology & Immunology**

The Department of Microbiology and Immunology invites applications for several tenure-track faculty positions. Responsibilities include establishment of a strong research program and a commitment to graduate and medical student education. Expansion of the department has been made possible by relocation into the new facilities of the Rollins Research Center on the Emory Campus adjacent to the U.S. Centers for Disease Control. Candidates must hold a Ph.D. or M.D. degree with at least two years of post-doctoral experience and a strong record in research. It is anticipated that most appointments will be at the level of Assistant Professor. Applicants with research interests including but not limited to virology, immunology, bacterial genetics and pathogenesis will be considered. Applications should include a current curriculum vitae, a brief research history and plans for future research. Applications should also include the names and addresses of three references. Applications will be reviewed beginning in December, 1991; however, the search will remain open until the positions are filled. Submit application materials to:

**Charles P. Moran, Jr., Ph.D.
Chairman, Faculty Search Committee
Department of Microbiology and Immunology
Emory University School of Medicine
Atlanta, Georgia 30322**

AN EQUAL OPPORTUNITY/AFFIRMATIVE ACTION EMPLOYER

POSITIONS OPEN

MOLECULAR DIAGNOSTICS EVANSTON HOSPITAL

The Department of Pathology and Laboratory Medicine of Evanston Hospital seeks candidates for a staff position in a newly to-be-established molecular diagnostics laboratory. The laboratory will combine research and methods development with clinical service and with teaching of medical housestaff. Preferably, the director of this laboratory will be an M.D. pathologist with special expertise in molecular diagnostics. The position is open 1 October 1991. The position will be in the Department of Pathology and Laboratory Medicine of Evanston Hospital, with an academic appointment at Northwestern University Medical School. Liaison with the Department of Molecular Biology at nearby Northwestern University is strongly encouraged. *Evanston Hospital and Northwestern University are Equal Opportunity Employers; members of minorities are encouraged to apply.*

Inquiries should be sent to:

Malcolm V. Vye, M.D.
Department of Pathology and Laboratory Medicine
Evanston Hospital
2650 Ridge Avenue
Evanston, IL 60201-1783

ILLINOIS NATURAL HISTORY SURVEY CENTER FOR BIODIVERSITY

PLANT SYSTEMATIST. Specializing in cryptogams or flowering plants. Applicants are expected to be well versed in systematic theory and methodology. In addition, applicants should have expertise in: (1) developing and enhancing plant collections, such as through floristic surveys; (2) revisionary, monographic, or evolutionary studies; or (3) population ecology. Qualifications include a Ph.D.; significant research experience; demonstrated ability to plan, conduct, and evaluate research activities; recognized stature in the scientific community; and a record of frequent publications. Salary range is \$30,000 to \$33,000 (12-month appointment) or commensurate with experience. To receive full consideration, applications should be received by 13 December 1991. Send letter of application, résumé, statement of research interests, and the names and addresses of three references to: Ms. Jacques Sanders, Personnel Officer, Illinois Natural History Survey (INHS), 607 East Peabody Drive, Champaign, IL 61820. Refer technical questions about the position to: Dr. Kenneth R. Robertson, 217-244-2171. *INHS is an Equal Opportunity/Affirmative Action Employer. Women and minority candidates are encouraged to apply.*

RESEARCH CHEMIST. Exploratory research for specialty chemical materials. Prepare, characterize and perform applications tests on new materials including research in hard coatings on plastics and studies of high-temperature superconductors. Development of new products and creation of new technologies utilizing solid-state physics and chemistry, computers and materials science. Utilize state-of-the-art spectroscopic and computer applications. Prepare written and oral presentations and supervise direct technical assistants. Requirements: Ph.D. in chemistry and 3 years of experience as researcher with broad base extensive background and proven fundamental research abilities as demonstrated by a significant number (20 or more) publications in recognized professional journals. Degree must be in organic chemistry with background in materials synthesis and characterization with emphasis on surface chemistry. Knowledge of high-temperature superconductor synthesis and characterization skills and STM, XRD optical spectroscopy and electron spectroscopy, surface analysis, knowledge of programming on IBM and MacIntosh computer systems and computer data acquisition in instrument development experience. *Proof of lawful authority to work in the United States.* Forty hours per week; \$50,000 per year; submit résumé or curriculum vitae to: Philadelphia Job Bank, 444 North 3rd Street, Philadelphia, PA 19132, JO#4383570.

VERTEBRATE BIOLOGIST able to teach introductory biology, vertebrate zoology, natural history of vertebrates, and appreciation of nature for elementary teachers. Requires Ph.D., preferably with postdoctoral, publications, teaching, research, and proposal writing experience. Deadline: 1 December 1991. Send résumé and have three letters of recommendation sent to: Selection Committee, Department of Zoology, 575 WIDB, Brigham Young University, Provo, UT 84602. *Equal Opportunity Employer.*

POSITIONS OPEN

RESEARCH PSYCHOLOGIST/PHYSIOLOGIST

U.S. Department of Agriculture (USDA), Agriculture Research Service (ARS), Western Human Nutrition Research Center (WHNRC), San Francisco, California. ARS invites applications for a research psychologist or physiologist position. Research focus is on the effects of malnutrition on behavior and the nervous system, with emphasis on the effects of water-soluble micronutrients. Knowledge of psychology or neurophysiology is required. Ph.D. is desired. *Must be U.S. citizen.* Salary is commensurate with experience—\$33,605 to \$52,359 per year. For information on the research program, contact: Dr. Robert Jacob, WHNRC, P.O. Box 29997, Presidio of San Francisco, CA 94129; telephone: 415-556-3531. For application procedures/forms, contact: Patricia Roberts, USDA, ARS, Personnel Division, 6305 Ivy Lane, Greenbelt, MD 20770-1435; telephone: 301-344-3138. Inquiries should be received by 29 November 1991. *An Equal Opportunity Employer.*

SENIOR RESEARCH CHEMIST. Research involving development of HIVPROTEASE inhibitors to inhibit retroviral enzymes applies asymmetric synthesis including osmium catalyst and C2 symmetric organoboron reagents. Design and synthesis of chiral molecules and peptides mimics including natural and unnatural products in enantiometrically pure form for interaction with retroviral enzymes. Develop assays for biological activity and bioavailability. Computer-assisted rational drug design studies. Supervise and recruit chemists and lab personnel. Requirements: Ph.D. and 2 years of experience with state-of-the-art background involving asymmetric synthesis, particularly osmium catalysts and C2 symmetric organoboron reagents with synthetic organic chemistry skills. Instrumentation expertise required for job. *Must have outstanding academic research and publication background and proof of lawful ability to work in the United States.* Forty hours per week; \$52,800 per year; curriculum vitae or résumé to: Philadelphia Job Bank, 444 North 3rd Street, Philadelphia, PA 19132; JO# 4430343.

ANNOUNCEMENTS

GRADUATE ASSISTANTSHIPS IN MASS SPECTROMETRY for 1992 include physical studies of reaction dynamics, and studies of biomolecular structure by using electrospray ionization, tandem mass spectrometry, and molecular modeling. Other areas for graduate research are available in the department. Assistantships range from \$12,000 to \$15,000 plus full tuition, with some \$2,500 stipends available for summer 1992. Please contact: Dr. Jeanette Adams, Department of Chemistry, Emory University, Atlanta, GA 30322. Telephone: 404-727-6522.

AMERICAN MUSEUM OF NATURAL HISTORY FELLOWSHIPS AND GRANTS

FELLOWSHIPS. Research/Museum Fellowships are available to postdoctoral researchers and established scholars starting in summer and fall 1992. The fellowships support independent research in association with the resident staff. Areas include vertebrate and invertebrate zoology, paleozoology, anthropology, mineral sciences, and the field of museum education as it relates to natural history museums or planetariums. This year, an additional fellowship in marine zoology and/or paleontology is available and will be funded by the Lerner-Gray Fund for Marine Research. All fellowship applications, including Chapman (ornithology) and Lerner-Gray, should be postmarked by 15 January 1992.

GRANTS. Research grants are available to advanced predoctoral candidates and recent postdoctoral researchers in the field of zoology and paleontology. Awards average \$700. Postmark dates vary for each grant program:

- Frank M. Chapman (ornithology)—15 January 1992.
- Theodore Roosevelt (North American fauna)—15 February 1992.
- Lerner-Gray (marine zoology)—15 March 1992.

Request information booklet and application forms from: The Office of Grants and Fellowships, American Museum of Natural History, Department H, Central Park West at 79th Street, New York, NY 10024.

POSITIONS OPEN

The Department of Psychology has a **POSITION AVAILABLE** for a qualified individual to develop and maintain the department's instructional and research facilities, conduct research and implement experimental designs in psychological research, to teach courses in experimental psychology, biopsychology, advanced statistics, and advise faculty and students in the use of research and statistical facilities. Requires a Ph.D. in psychology; demonstrated ability to maintain research facilities in bio-behavioral and cognitive research laboratories as well as knowledge of minicomputer and microcomputer operating systems designed for data recording, event control and data analysis of psychological research and of programming languages, particularly state transition languages and familiarity with mainframe statistical packages. Send résumés to: Dr. William Mackavey, Chair, Boston University, Department of Psychology, 64 Cummington Street, Boston, MA 02215. *An Equal Opportunity/Affirmative Action Employer.*

SENIOR SCIENTIST

Senior scientist to supervise molecular and cellular biologists engaged in research on the generation of strains of mice which model human disease and on genetic approaches towards the introduction of human traits in mice. Requirements: Ph.D. in genetics or molecular biology and a minimum of 3 years of postdoctoral research experience, demonstrated knowledge of and ability to perform molecular cloning and the design of expression vectors, cell culture, embryonic cell lineage analysis (particularly in the hematopoietic and neural crest systems), as well as mouse breeding, handling and surgery and the manipulation of mouse embryos, including embryo microinjection techniques. The candidate must also be able to conduct experiments in homologous recombination in embryonic stem cells. Job site and interview: Mountain View, California. Salary: \$56,710 per year. Send copy of ad and résumé to: Job Order #ET3233, P.O. Box 9560, Sacramento, CA 95823-0560 no later than 9 November 1991.

VETERINARY DIAGNOSTIC PATHOLOGIST.

Tenure-track position available with primary appointment in the Diagnostic Laboratory and a joint appointment in the Department of Veterinary Pathology. Duties will include shared responsibility for pathology service and a pathology residency program in the Pathology Department and Diagnostic Laboratory. Interact with professionals/staff of full-service Diagnostic Laboratory and Veterinary Extension/Field Service Unit concerning service, extension, teaching and research. A.D.V.M. or equivalent degree and Diplomate of the American College of Veterinary Pathologists (ACVP) with established expertise in diagnostic pathology required. M.S. or Ph.D. highly desirable. Salary commensurate with experience and education. Please submit a complete résumé with three or more names for references prior to 15 December 1991 to: Dr. Donald H. Lein, Director, Diagnostic Laboratory, New York State College of Veterinary Medicine, Cornell University, Box 786, Ithaca, NY 14851-0786; telephone: 607-253-3900. *An Affirmative Action/Equal Opportunity Employer and Educator.*

MARKETPLACE

DNA SEQUENCING

- Fast. Accurate. Affordable.
- Definitive Nucleotide Sequence
- Subcloning, Mapping, *in vitro* Mutagenesis, Library Construction
- Complete Molecular Biology Services

Ambion 1-800-888-8804
1-512-445-7139 FAX

Circle No. 248 on Readers' Service Card

Custom DNA

Purified and Delivered in 48 hours.

\$7.50 per base • Purified
Guaranteed minimum 100 µg DNA

Research Genetics
1-800-533-4363

Circle No. 13 on Readers' Service Card



National Defense Science and Engineering Graduate Fellowships

Starting in Academic Year 1992-1993

As a means of increasing the number of U.S. citizens trained in disciplines of science and engineering of military importance, the Department of Defense plans to award approximately 100 new three-year graduate fellowships in April 1992. National Defense Science and Engineering Graduate Fellowships will be awarded for study and research leading to doctoral degrees in, or closely related to, the following disciplines:

AERONAUTICAL AND ASTRONAUTICAL
ENGINEERING
BIOSCIENCES (includes Toxicology)
CHEMICAL ENGINEERING
CHEMISTRY
COGNITIVE, NEURAL, AND BEHAVIORAL
SCIENCE
COMPUTER SCIENCE
ELECTRICAL ENGINEERING
GEOSCIENCES (includes terrain, water, and air)
MANUFACTURING SCIENCES AND ENGINEERING
(includes Industrial Engineering)
MATERIALS SCIENCE AND ENGINEERING
MATHEMATICS
MECHANICAL ENGINEERING
NAVAL ARCHITECTURE AND OCEAN
ENGINEERING
OCEANOGRAPHY
PHYSICS (includes Optics)

National Defense Science and Engineering Graduate Fellows selected in 1992 will receive a stipend in addition to full tuition and required fees. The amount of the stipend is \$15,000 in

1992-93, \$16,000 in 1993-94, and \$17,000 in 1994-95. Also, the fellow's graduate academic department will receive \$2,000 per year.

Recipients of National Defense Science and Engineering Graduate Fellowships do not incur any military or other service obligation.

Specific information regarding the fellowship and an application package are available from Battelle Memorial Institute, a not-for-profit research institution, which is administering the program for the Department of Defense.

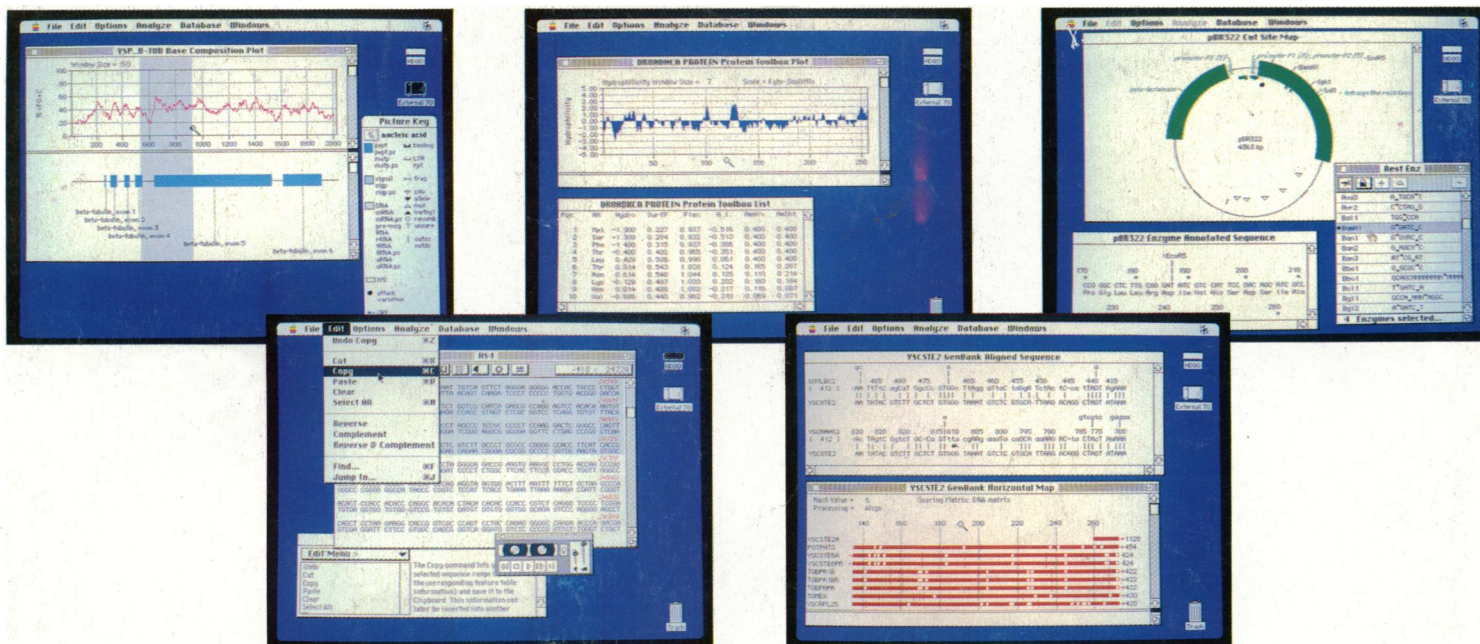
The application package will also contain information about the Office of Naval Research Graduate Fellowship program administered by ASEE and the Air Force Laboratory Graduate Fellowship program administered by SCEEE.

Application materials are available from Battelle at the following address:

NDSEG Fellowship Program
200 Park Drive, Suite 211
P.O. Box 13444
Research Triangle Park, NC 27709-3444
ATTN: Dr. George Outtersson
(919) 549-8505.

Completed applications must be received by Battelle by January 15, 1992.



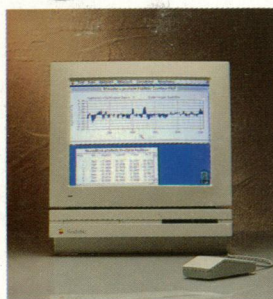


All This Without Opening A Manual.

Why waste valuable research time learning computer commands or waiting for mainframe access to perform sequence analysis? With MacVector™, you get the most comprehensive sequence analysis system ever put on a desktop with the easy access and intuitive operation you expect from a Macintosh®.

Instead of obscure commands, you follow common-sense menus. Each click opens up a full range of DNA and protein analyses – from sequence comparisons and restriction analyses, to secondary structure predictions, NBRF and GenBank™ data bank searches, and much more.

You always see exactly what you get, with helpful warning screens to prevent irreversible mistakes. So it actually encourages you to experiment. As a result, anyone in your lab can perform



serious investigations without special training or complex instructions.

Take 30 days to discover what software experts already know.

If you don't agree that MacVector is the most comprehensive and

easy-to-use desktop sequence analysis package you can buy, simply return it for a full refund. To order, or for more information, call toll-free:

1-800-243-2555.

MacVector™

Serious Molecular Biology
For Your Mac.



**INTERNATIONAL
BIOTECHNOLOGIES,
INC.**

Subsidiary of Eastman Kodak Company
P.O. Box 9558, New Haven, CT 06535

MacVector and IBI are trademarks of International Biotechnologies, Inc. Macintosh is a trademark of Apple Computers, Inc.
GenBank is a trademark of the National Institute of Health. © 1991 International Biotechnologies, Inc.

Circle No. 313 on Readers' Service Card

**Now System 7.0
Compatible
With Balloon
Help!**