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 the last Friday of the year. Call for holiday deadlines. Advertisements must be submitted in writing.

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

- **Mail or FAX materials to:**
  - Science Classified Advertising
  - 1333 H Street, N.W., Room 814
  - Washington, DC 20005
  - Telephone: 202-326-6555
  - FAX: 202-682-0816

- **Rates:** Ads are $42 per line; $420 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.

- **Ads from Outside the U.S.:** A discount of $30 will be offered to advertisers making payment in U.S. dollars by checks drawn on U.S. banks. Contact Annemarie Vis at +1 244 232 3020 (telephone) or +1 244 232 3026 (FAX).

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

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

DISPLAY PERSONNEL ADVERTISEMENTS

For rates and info. about fractional display ads (all ads ¼ page and larger), contact:

- Recruitment Advertising
  - Deborah Cummings
  - Telephone: 202-326-6541

- Janis Crowley, Recruitment Advertising Manager
  - Telephone: 212-496-7704
  - FAX: 202-662-0816

- Annemarie Vis
  - European Recruitment Advertising
  - Telephone: +44 223 302067
  - FAX: +44 223 302 068

**POSITIONS OPEN**

**FACULTY POSITIONS IN PHARMACOLOGY
UNIVERSITY OF ROCHESTER**

Applications are invited for three tenure-track positions at the ASSISTANT PROFESSOR level in the Department of Pharmacology. Exceptional candidates at higher ranks will also be considered. We seek candidates with research interests in drug design, molecular pharmacology, and in drug metabolism and bioactivation. Candidates with interests in cancer chemotherapy or cancer biology are also sought. A Ph.D. degree or an M.D. degree or equivalent postdoctoral training. Candidates are expected to develop strong research programs and to contribute to departmental professional and graduate programs. Competitive salary and start-up funds are available. Candidates should submit curriculum vitae, a statement of future research interests, and the names of three references to: Dr. M. W. Anders, Department of Pharmacology, University of Rochester, 601 Elmwood Avenue, Rochester, NY 14642. Applications will be received until the positions are filled. The University of Rochester is an Affirmative Action/Equal Opportunity Employer. Applications from women and minorities are encouraged.

**BOTANIST: ASSISTANT PROFESSOR, tenure-track. Qualifications: Ph.D., commitment to teaching undergraduates, expertise in systematic botany such as cell, plant physiology or systematics. Teach introductory biology, botany, courses in the specialty and develop a research program involving undergraduates. Send resume, statement of research plans and undergraduate teaching philosophy, transcripts and have three letters of reference sent by November 22, 1993, to: Dr. Gregg Kormanik, Chair, Department of Biology, University of North Carolina at Asheville, Asheville, NC 28804. UNCA is an Affirmative Action/Equal Opportunity Employer. Applications from underrepresented groups including minorities, women and people with disabilities are encouraged.**

**ASSISTANT PROFESSOR, ANATOMY**

Applications are invited for a faculty position at the level of Assistant Professor, Department of Anatomy. A Ph.D. degree and one to two years of postdoctoral training are required. Teaching duties will include participating in two of the following courses for first-year medical students: Gross Anatomy, Histology, Neuroscience. Research interests are open. Development of a research program with eventual independent funding is strongly encouraged. Philadelphia College of Osteopathic Medicine (PCOM) is dedicated to teaching excellence. Please send a letter, curriculum vitae, and three references by December 31, 1993. Send applications or nominations to: Chair, Faculty Search Committee, Department of Anatomy, PCOM, 4170 City Avenue, Philadelphia, PA 19131

**Starting date negotiable (between February and August of 1994). PCOM is an Equal Opportunity Employer.**

**EVOLUTIONARY BIOLOGY**

As part of its continuing development of an ecology/evolution group the Department of Biological Sciences, State University of New York at Buffalo, invites applications for a tenure-track position at the level of ASSISTANT PROFESSOR starting in fall 1994. We seek an individual working in the area of population/evolutionary ecology. The department has strengths in plant biology and aquatic ecology (marine and freshwater). We are developing a program that addresses evolutionary and ecological questions of ecology, physiological and molecular levels of analysis, and we seek an individual who can work at multiple levels of analysis and interact with these groups. The successful candidate will be expected to develop an active, externally funded research program, develop a graduate course in either evolutionary or population biology, and contribute to the Department's undergraduate program. Candidates should have two years of postdoctoral or equivalent experience. Candidates must have curriculum vitae, statement of research and teaching interests, and three letters of recommendation should be submitted by December 1. Dr. Howard Lasker, Evolutionary Biology Search Committee, Department of Biological Sciences, SUNY at Buffalo, Buffalo, NY 14260-1300. The State University of New York is an Equal Opportunity/Affirmative Action Employer.

**DEPARTMENT OF BIOLOGY
UNIVERSITY OF ROCHESTER**

**ASSISTANT PROFESSOR in MOLECULAR BIOLOGY**

The Department of Biology at the University of Rochester invites applications for a tenure-track position in Molecular Biology available September 1994. Applicants should have at least two years of postdoctoral training. We are seeking a person who can mount a strong independent research program in an area of molecular biology. The University of Rochester is a private institution with about 4500 undergraduate and about 2000 graduate students. The Department of Biology has a faculty of 21 with research and teaching programs in molecular biology, cell, and developmental biology as well as in molecular evolution and the study of the molecular basis of disease. The University is an excellent environment with extensive interactions both within the department and with the Medical School located adjacent to the University. Applications will be accepted immediately and continued until the position is filled. Inquiries to Dr. Laure Lindahl, Chair, the Department of Biology, University of Rochester, Rochester, NY 14627.

The University of Rochester is an Affirmative Action/Equal Opportunity Employer.
RESEARCH ASSISTANT PROFESSORSHIPS

The Department of Biochemistry and Molecular Biology at the Medical University of South Carolina invites applications to fill two research assistant professor positions. (1) Research assistant professor in molecular biology for membrane receptor-realted research. Postdoctoral experience required. Send curriculum vitae and names of references to: Dr. D. R. McDonald, Department of Biochemistry and Molecular Biology, 805 Craven Street, Charleston, SC 29424. (2) Research assistant professor in molecular genetics. Experience in gene cloning, sequencing and expression is required. Research areas include mapping and cloning of genes involved in hypertension and cardiovascular diseases. Contact Professor Lee Chao, Department of Biochemistry and Molecular Biology, Medical University of South Carolina, 171 Ashley Avenue, Charleston, SC 29425. The Medical University of South Carolina is an Equal Opportunity/Affirmative Action Employer.

FACULTY POSITION IN GENETICS. DUKE UNIVERSITY MEDICAL CENTER. Applications are invited for a tenure-track position in the Section of Genetics at Duke University Medical Center. Although we anticipate filling this position at the ASSISTANT PROFESSOR level, we will consider individuals for any level appointed or tenured positions. Particularly interesting are those individuals who are engaged in work utilizing mammalian systems or focusing on the genetics of human disease. The facilities and environment of the Section, which is part of the Duke Department of Genetics, is excellent. Travel to national and international meetings is encouraged. Send curriculum vitae and names of three individuals who can serve as referees. Address applications to: Genetics Search Committee, Section of Genetics, Duke University Medical Center, Box 9870, Durham, NC 27710. Duke University is an Equal Opportunity/Affirmative Action Employer.

FACULTY POSITION IN MOLECULAR BIOLOGY (RNA)

Applications are invited for a tenure-track faculty position in Molecular Biology beginning fall 1994, contingent upon availability of funding. Candidate's research should focus on RNA structure and function. Promotion will be associated with the Department of Biology and the Marky Center for RNA Study. Minimum qualifications: Ph.D. or equivalent in Biology or a closely related field, postdoctoral research experience, and outstanding teaching experience or demonstrated potential for university teaching. Salary: $35,900 to $38,800 (9-month basis). Applicants should send curriculum vitae, a brief description of research and teaching interests, publications, and three letters of recommendation from three referees by December 15, 1993, to: RNA Search Committee, Department of Biology, Sinsheimer Laboratories, University of California, Santa Cruz, CA 95064. Please refer to position #231-901 in your reply. The University of California is an Equal Opportunity/Affirmative Action/IRCA Employer. Women and minorities are encouraged to apply.

UNIVERSITY OF TORONTO CENTRE FOR RESEARCH IN NEURODEGENERATIVE DISEASES

Applications are invited for two positions in a recently established neurodegenerative disease research centre with emphasis on Alzheimer's disease. Ph.D. or M.D.'s at the ASSISTANT, ASSOCIATE or FULL PROFESSOR level are invited to join this team of over 50 PI's. Candidates must have expertise in one of the following areas of neurobiology: transgenic models, biochemically oriented models, protein structure, or gene regulation, with a desire to apply their expertise to Alzheimer's disease. Start-up funds provided; successful candidates must initiate independent and original research programs. The University of Toronto encourages applications from qualified women and men, members of visible minorities, and persons with disabilities. Send curriculum vitae, a research statement and three letters of reference by December 15, 1993, to: Dr. D. R. McDonald, Department of Neuroscience, Tins Neuroscience Building, 6 Queen's Park Cr. West, Toronto, Ontario, Canada MSS 1A8.

FACULTY POSITION IN NUCLEAR MAGNETIC RESONANCE

The University of Florida Center for Structural Biology had a tenure-track assistant professor position in Magnetic Resonance in conjunction with the National High Magnetic Field Laboratory (NHMFL). This position will continue as a tenure-track assistant research emphasizing NMR using existing 300 and 600 MHz spectrometers in the Center, with access to a 500. Additional support is provided through NHMFL facilities, including prototype magnets and spectrometers operating at 1/T and higher. Applicants must have Ph.D. Degree, a minimum of one year of postdoctoral experience in NMR spectroscopy, and interest in expanding experimental techniques. Collaborative research, in areas such as Biochemistry, Pharmacology, and Physiology, are an important aspect of this position. Anticipated starting date is July 1, 1994. Salary commensurate with experience. Send curriculum vitae, statement of research interests, and three letters of reference by December 31, 1993, to: Dr. Thomas Mareci, Director, UF Center for Structural Biology, Box 100245, Gainesville, FL 32610. Affirmative Action/Equal Opportunity Employer, M/F, D/V, F.

ASSISTANT/ASSOCIATE PROFESSOR: Tenure-track position for NMR spectroscopist with research interests in applications of NMR in biology and chemistry. The successful candidate will have primary responsibility for a Varian VXR 500S and will be expected to pursue independently a research program to participate in departmental teaching activities. Interested persons should submit curriculum vitae, a summary of research accomplishments and three letters of recommendation to: NMR Faculty Search Committee, Department of Chemistry, University of Kentucky Medical Center, Lexington, KY 40536-0084. An Equal Opportunity/Affirmative Action Employer.

FACULTY POSITION IN HUMAN GENETICS

As part of a major expansion in human genetics, the Laboratory of Genetics at UW-Madison is seeking an ASSISTANT, ASSOCIATE or FULL PROFESSOR. Candidates should possess an M.D. and Ph.D. or equivalent (Ph.D. preferred) for the position and an active research program in human genetics. Joint appointments with appropriate clinical departments are possible for M.D. applicants. Laboratory space will be in the new Genetics-Biotechnology Building under construction. Please send curriculum vitae, a statement of research interests, three letters of recommendation, and representative reprints or other materials to: Genetics Search Committee, c/o Dr. Richard Spritz, 118 Genetics, 445 Henry Mall, Madison, WI 53706. The University of Wisconsin-Madison is an Affirmative Action/Equal Employment Policy Employer. Women and minority candidates are encouraged to apply.

MSU-DOE PLANT RESEARCH LABORATORY

Michigan State University

FACULTY POSITION IN PLANT BIOLOGY

The MSU-DOE Plant Research Laboratory has a tenure-track faculty position available at the ASSISTANT PROFESSOR level. Applications are being sought from researchers who will be working toward the mechanistic understanding of fundamental questions in plant biology using modern experimental approaches in biochemistry, genetics, or cell and molecular biology. The laboratory is operated with support from the U.S. Department of Energy and provides a stimulating atmosphere and excellent facilities for research. Successful candidates will be appointed in an appropriate academic department. Generous laboratory space and set-up support as well as continuing research funding will be provided. Applicants should have evidence of research experience with demonstrated productivity and evidence of potential for independent research. In order to assure consideration, applications and supporting materials should be received by December 6, 1993. Applications, along with curriculums vitae, description of research accomplishments and future plans, a statement of research interests, and three letters of recommendation should be sent to: Dr. Kenneth Keegstra, Director, MSU-DOE Plant Research Laboratory, Michigan State University, East Lansing, MI 48824, or to: Dr. Charles Cashmore, Head, Department of Genetics, The University of Nebraska-Lincoln, 600 Nebraska-Lincoln, Lincoln, NE 68588-0304. Telephone: 402-472-3316; FAX: (private); 402-472-2044; Internet: lparkhurst@unl.edu. The University of Nebraska-Lincoln is committed to a pluralistic campus community through Affirmative Action and Equal Opportunity and is responsive to a policy of equal opportunity for all persons without regard to race, color, religion, sex, national origin, marital status, veteran's status, disability, or sexual orientation. The University of Nebraska-Lincoln is an Equal Opportunity/Affirmative Action Employer.

THREE ASSISTANT PROFESSORSHIPS

Ph.D. required. Must demonstrate excellence in teaching and desire to promote undergraduate research. Will teach一门 of the core requirements and one or more of the following specialities: Vertebrate Anatomist/Physiologist to teach human & P course; Broadly trained Botanist to teach general botany and plant physiology; and Developmental Biologist to teach genetics of eukaryotic organisms to teach general genetics course and share in teaching of molecular biology. Send letter of application, curriculum vitae and 3 letters of recommendation to: Dr. Sally Dennis, Chair, Personnel Committee, Department of Biology, Radford University, Radford, VA 24142-3261. Nominations due November 1, 1993, and continue until positions are filled.

The Department of Biological Sciences, California State University, Long Beach, invites applications for 2 ASSISTANT/ASSOCIATE PROFESSOR tenure-track positions beginning fall 1994 in GENETICS: Primary teaching responsibilities in genetics and one or more of the areas of biotechnology, molecular, cellular or developmental biology. Preference given to applicants with research expertise in the use of molecular genetics for studying problems in developmental and/or cellular biology. MEDICAL BACTERIOLOGY: Primary teaching in medical microbiology and related areas. Preference given to candidates who can teach senior/graduate courses in immunology or medical mycology.

Applicants must have a strong commitment to teaching at the undergraduate and M.S. levels in an ethnically and culturally diverse campus community. Applicants will be expected to devote time to research in the required subject areas and for developing an independent, externally funded, research program involving students. Research funds available, and for biomedical research may be supplemented with funds from the Howard Hughes Medical Institute. Applicants with a Ph.D., postdoctoral experience and a record of published research should submit a letter of application, curriculum vitae, a brief statement of research and teaching interests, and 3 letters of recommendation to: Dr. David L. Solty, Chair, Department of Biological Sciences, California State University, Long Beach, CA 90840-3702. Deadline January 7, 1994, or until filled. California State University, Long Beach, is an Equal Opportunity/Affirmative Action/Title IX Employer.

UNIVERSITY OF PENNSYLVANIA

Department of Physiology
School of Medicine

The Department of Physiology seeks to fill a tenure-track position, preferably at the ASSISTANT PROFESSOR level, in the area of Transport Proteins. Candidates expert in combining structure-function analysis with molecular biology. University of Pennsylvania is especially encouraged to apply. Before December 15, 1993, please send curriculum vitae, two reprints or preprints, and a statement of research interests to the search committee (address below). Also have three letters of reference sent to:

Transport Protein Search Committee
Department of Physiology
University of Pennsylvania
Philadelphia, PA 19104-6085

Applications from female and minority candidates are particularly encouraged. The University of Pennsylvania is an Affirmative Action/Equal Opportunity Employer.

MASS SPECTROMETRIST

ASSOCIATE or FULL PROFESSOR (analytical/bioanalytical chemistry) with preference in biological, environmental or materials mass spectrometry. Excellent facility and support resources are available. Deadline November 15 with expected start date September 1994. Send curriculum vitae, research proposal(s) and reprints to: Prof. Lawrence Parkhurst, Search Committee Chair, Department of Chemistry, University of Nebraska-Lincoln, Lincoln, NE 68588-0304. Telephone: 402-472-3316; FAX (private): 402-472-2044; Internet: lparkhurst@unl.edu. The University of Nebraska-Lincoln is committed to a pluralistic campus community through Affirmative Action and Equal Opportunity and is responsive to a policy of equal opportunity for all persons without regard to race, color, religion, sex, national origin, marital status, veteran's status, disability or sexual orientation. Contact Dr. Parkhurst.
X marks the spot

where exciting research in human genetics is currently going on. The place is the Glaxo Research Institute at Glaxo Inc., a world leader in prescription pharmaceuticals.

Here at our new, magnificently equipped R&D facility in Research Triangle Park, North Carolina, scientists are providing key contributions to Glaxo's Human Genetics Initiative, an international biopharmaceutical R&D project. The Genetics Initiative complements programs in bioinformatics, structure-based drug design, and combinatorial chemical libraries to provide an innovative foundation for the discovery of novel medicines.

Join Glaxo Inc., part of the worldwide Glaxo Group, for the challenge of advancing human genome research to develop therapeutics for common diseases such as diabetes, osteoporosis, and cancer. Currently, the Molecular Sciences Division is seeking

SENIOR MOLECULAR GENETICISTS for:

- Mapping, positional cloning, and characterization of human disease-related genes.

- Functional analysis using techniques of somatic cell genetics, homologous recombination, dominant negative mutations, antisense oligonucleotides and related technologies.

- Cloning, biological characterization, and structure-activity studies of new receptor families.

The rewards of working with Glaxo include excellent salaries and a flexible benefits package, a beautiful headquarters campus, ultra-modern facilities and the research-intensive academic location of Research Triangle Park. The area boasts a moderate climate, excellent residential and recreational advantages, and proximity to the major metropolitan area of Raleigh. Please send your resume, to include salary history, to: Human Resources Department, Job #ASC641601, Glaxo Inc., P.O. Box 13398, Research Triangle Park, NC 27709. (No Phone Calls or Agency Referrals, Please.) An Equal Opportunity Employer M/F/D/V.

Glaxo Inc.
BIOLOGICAL LIMNOMOLGY

The University of Nevada, Las Vegas, Department of Biological Sciences and its Limnological Research Center announce a tenure-track position, starting August 1994, for an ENVIRONMENTAL LIMNOLOGIST (P08003). The successful candidate will establish and maintain a rigorous, independently funded research program in limnology and aquatic ecology. This position will involve both academic and laboratory research on aquatic ecosystems. The successful candidate will be expected to develop an active research program, teach courses at both the undergraduate and graduate levels, and supervise Master's and Ph.D. students, and participate in a newly developing environmental science program. The Ph.D. in limnology and postdoctoral research experience is required. Applicants should send curriculum vitae, recent reprints, statement of research and teaching interests and three letters of reference to: Dr. Robert J. Kao, The University of Dayton, Dayton, OH 45469-2320. Closing date is November 29, 1993. The University of Dayton is an Affirmative Action/Equal Opportunity Employer.

PLANT MOLECULAR BIOLOGIST

The Department of Biological Sciences at the State University of New York at Binghamton invites applications for a tenure-track position at the ASSISTANT PROFESSOR level. We are seeking individuals who are studying significant questions in plant biology through the application of molecular biology techniques. Possible areas of research include plant growth and development, gene expression and regulation, gene silencing, and physical and chemical interactions of plant molecules. The successful candidate is expected to develop a rigorous externally funded research program, teach courses at both the undergraduate and graduate levels, and supervise graduate students. A Ph.D. in molecular biology and postdoctoral research experience are required. Submit curriculum vitae, research statement, teaching statement, and three letters of recommendation to: Dr. Karl A. Wilson, Department of Biological Sciences, State University of New York at Binghamton, Binghamton, NY 13902-6000 by December 1, 1993. Applicants from the University of the SUNY system are especially encouraged to apply. Applications are reviewed October 22, 1993. The University of the SUNY at Binghamton is an affirmative action/equal opportunity employer.

MOLECULAR BIOLOGY

The Department of Biological Sciences at the State University of New York at Binghamton invites applications for a tenure-track position at the ASSISTANT PROFESSOR level to begin August 1994. Applications must include a letter of application, a curriculum vitae, and three letters of recommendation by December 1, 1993. Review of applications begins December 1, 1993. Send application materials to: Dr. Robert J. Kao, The University of Dayton, Dayton, OH 45469-2320. Closing date is November 29, 1993. The University of Dayton is an Affirmative Action/Equal Opportunity Employer.

CELL BIOLOGIST: Tenure-track ASSISTANT PROFESSOR position September 1994 in a multidisciplinary department offering undergraduate degrees in biology, microbiology, biochemistry, among others. Teaching duties will include undergraduate-level courses in cell biology and graduate genetics and developmental inductive courses. Applicants must possess a strong interest in undergraduate teaching and productive research. Ph.D. required, postdoctoral experience preferred. Submit curriculum vitae, short statement of research interests, and names and telephone numbers of three references to: Cell Biology Search Committee, Department of Biology, University of Michigan, Ann Arbor, Michigan 48109-2038. Review of applications will begin December 15, 1993, and continue until the position is filled. The University of Michigan is an Equal Opportunity Educator and Employer and specifically invites and encourages applications from women and minorities.

DIVISION OF BIOLOGICAL SCIENCES

UNIVERSITY OF KANSAS

NEUROBIOLOGIST: We invite applications for a tenure-track ASSISTANT PROFESSOR position at the University of Kansas, Lawrence, Kansas 66045. Applications are encouraged from candidates who have a Ph.D. in their field. The successful candidate will: (1) develop and maintain an active research program in cell biology, molecular biology, or related fields; (2) teach undergraduate and graduate courses in biochemistry, molecular biology, and related departments at the University; and (3) contribute to the University's ongoing efforts to expand research and graduate education in the biological sciences. Send curriculum vitae, statement of research interests and goals, and three letters of recommendation. Applications must be received by December 15, 1994. Questions regarding this position should be addressed to Dr. Stephen E. Agid, Chair, Department of Biochemistry and Molecular Biology, University of Kansas, Lawrence, Kansas 66045. The University of Kansas is an Equal Opportunity/Affirmative Action Employer.

INSECT PHYSIOLOGIST, ASSISTANT PROFESSOR

The Department of Entomology, Iowa State University, invites applications for tenure-track 12-month faculty position as of July 1, 1994 to perform research on basic physiological function on the basis of a research program. The successful candidate will have a Ph.D. degree in entomology or a related area. The ideal candidate will have a strong background in insect physiology and be able to develop an independent, externally funded research program in insect physiology. Applications should include a letter of interest, a curriculum vitae, statement of research interests, teaching philosophy, and three letters of recommendation. Applications should be submitted by March 1, 1994. The letter of interest should be sent in confidence to: Dr. M. R. Tilton, Chairman, Department of Entomology, Iowa State University, Ames, IA 50011. Review of applications will begin February 1, 1994. The University of Iowa is an Equal Opportunity/Affirmative Action Employer.
Athena Neurosciences, Inc. is a biotechnology-based company committed to the discovery and development of new products to diagnose and treat diseases of the central nervous system. We are currently seeking a Staff Research Associate to coordinate the day-to-day operations of the biochemical pharmacology screening lab.

DUTIES: Perform various biochemical/cell assays; maintain laboratory equipment to ensure the high throughput necessary to meet the needs of drug discovery; oversee data analyses and report generation. REQUIREMENTS: M.S./B.S. with 5-10 years experience in and familiarity with all aspects of a biochemical pharmacology lab; ability to assist with converting research assays into high-throughput screens and effectively communicate results both verbally and in writing; experience with automated screening equipment a real plus.

Athena offers an innovative and exciting professional, scientific environment in addition to competitive salaries and benefits. Please send resume to: Athena Neurosciences, Attn: Human Resources, 51022-SRA, 800F Geteway Blvd., South San Francisco, CA 94080. EOE.

---

**BUILDING AN EXCITING FUTURE... THROUGH SCIENCE AND DISCOVERY**

MACRONEX – an emerging biopharmaceutical discovery and development company pursuing novel therapeutics for inflammatory diseases, has become a growing force in its field. As a result of continuing progress and growth, we have several challenging opportunities available.

**DIRECTOR/ASSOCIATE DIRECTOR Immunology**

Individual will be responsible for managing a group of scientists with broad levels of experience and successfully directing schedule driven research projects. Requirements at both levels include: Ph.D./M.D. degree, experience in the pharmaceutical or biotechnology industry combined with a strong scientific background with relevant research in cell biology, immunology, or pharmacology. Experience must include successful management of a research development group and excellent oral and written communication skills. Director level requires 8-10 years of experience; Associate Director requires 5-8 years of experience. Position # S012001.

**DIRECTOR/ASSOCIATE DIRECTOR/MANAGER Bioassays**

Individual will be responsible for developing and managing an automated drug discovery process. Requirements at all levels are: Ph.D., experience in the pharmaceutical or biotechnology industry with a successful track record of developing and managing an automated drug discovery process. Familiarity with database design, organization and management of various automated sample handling equipment and excellent oral and written communication skills are required. Exposure to cell-based assays and various immunological techniques such as ELISA are desirable. Director level requires 8-10 years of experience; Associate Director requires 5-8 years of experience; and Manager level requires 3-5 years of experience. Position # S013001.

**SENIOR SCIENTIST/SCIENTIST**

**Cytokine Biology**

Several openings exist at the Senior Scientist and Scientist levels in our Cytokine Biology Group. Requirements: Ph.D. or M.D. Senior Scientist level requires 8-10 years of postdoctoral experience; and Scientist level requires 5-8 years of experience. Both levels require significant scientific accomplishments in academia or industry. Demonstrated ability to work successfully as a key member of a research team, as well as, an independent researcher and strong oral and written communication skills are also required. Prior experience in the pharmaceutical or biotechnology industry is preferred. Position # S014001.

**SENIOR SCIENTIST/SCIENTIST**

**Protein Chemistry**

Openings exist at the Senior Scientist and Scientist levels. Requirements: Senior Scientist with Ph.D., and 8-10 years of experience; Scientist level requires 5-8 years of experience. Direct experience in successful purification of biologically active protein therapeutics from natural or recombinant sources. Both positions require significant scientific accomplishments and excellent oral and written communication skills. Position # S015001.

**DATA MANAGER**

**Biopharmaceutical Screens**

Individual will be responsible for the design, implementation and maintenance of a data management process involved in bioassays and other screens. Directly responsible for data entry, spreadsheet design, result analysis and report generation. Requirements: AA degree in information/data processing and 5 to 8 years of data management experience in biopharmaceutical screens, or B.S. degree in Computer Science, MIS, information processing or related area, and 3 to 5 years of directly related experience. Strong background in PC-based MS-DOS related programs including FOXPRO and EXCEL, as well as database, spreadsheet design and management are also required. Position # S012003.

MACRONEX offers competitive salaries and benefits including a stock participation plan. We’re located in the highly desirable Research Triangle Park, NC, rated as one of the fastest growing and most desirable areas in the US, offering tremendous educational, cultural and recreational opportunities. Interested candidates should send their resume and CV, indicating position number, to: Human Resource Manager, MACRONEX, INC., 120-700 Southcenter Ct., Morrisville, NC 27560. (No agencies or phone calls, please.) An Equal Opportunity Employer.
POSITIONS OPEN

CELL BIOLOGIST. The Department of Biology at St. Mary's College of Maryland, a small public, liberal arts honors college, is seeking a tenure-track ASSISTANT PROFESSOR. This position will begin Fall Semester, 1994. Applicants must have completed a Ph.D. in cell biology or biology with demonstrated proficiency in cell biology and have research experience in cell or membrane biology. Responsibilities will include introductory biology for majors or non-majors and one or more upper-level courses in human anatomy and physiology. Excellent teaching ability is required. Experience in teaching Genetics or Principles of Biology for majors, an upper-division course in Cell Biology, and Contempory Biology is strongly encouraged. Send a letter of application, vitae, and 3 references to: Dr. W. Harvey Reitzel, Department of Biology, St. Mary's College of Maryland, St. Mary's City, MD 20686. St. Mary's College of Maryland is an Equal Opportunity/Affirmative Action Employer.

TENURE-TRACK BIOLOGIST

St. Olaf College

Applications are invited for a tenure-track position at the ASSISTANT PROFESSOR level beginning September 1, 1994. Responsibilities will include introductory biology for majors or non-majors and one or more upper-level courses in human anatomy and physiology with demonstrated proficiency in cell biology. The successful applicant will be expected to develop an active research program that involves undergraduate students. Qualifications for the position include: Ph.D. in cell biology or equivalent research experience, and demonstrated experience and ability in teaching. Send curriculum vitae, undergraduate and graduate transcripts, a statement of teaching and research interests, and three letters of recommendation to: Kathleen Fishbeck, Chair, Department of Biology, St. Olaf College, Northfield, MN 55057, by November 1, 1993. St. Olaf College is a co-educational liberal arts college of the church in the Lutheran tradition (ELCA). St. Olaf is an Equal Opportunity Employer.

BIOCHEMISTRY FACULTY POSITION

UNIVERSITY OF COLORADO, BOULDER

The Department of Chemistry and Biochemistry invites applications for a tenure-track faculty position. Preference will be given to candidates at the ASSISTANT PROFESSOR level, but candidates at all levels will be considered. Applicants must have a Ph.D. degree and enthusiasm for teaching chemistry at the undergraduate and graduate levels. Candidates will be expected to develop an innovative research program, which may be in any area of biochemistry. We particularly encourage applications from minority candidates who will address problems of biological regulation, or who work at the interface between biochemistry and cell biology. Applicants must submit a letter of interest, a curriculum vitae, and three letters of reference to: W. S. Dyman, Chair, Biochemistry Search Committee, Department of Chemistry and Biochemistry, University of Colorado, Campus Box 215, Boulder, CO 80309-0245. Applications will be evaluated beginning November 15, 1993, with final application deadline of December 31, 1993, and an earliest starting date of July 1, 1994. The University of Colorado at Boulder is strongly committed to principle of diversity. We are interested in recruiting applicants from a broad spectrum of persons, including women, members of ethnic minorities, and disabled individuals.

ASSISTANT PROFESSOR OF ENTOMOLOGY

Tenure-track, 12-month position. Cornell University–N.Y.S. Agricultural Experiment Station, Geneva, New York. Research (70%) and extension (30%) responsibilities. Teaching responsibilities primarily in insect pest management of grapes and small fruits. Develop research in biology and ecology of pests in vineyards and small fruit ecosystems and IPM strategies, and extension program providing pest control recommendations. Ph.D. in applied entomology including insect population ecology. Ability to interact with growers, extension agents and researchers. Attractive benefits package. Closing: January 15, 1994. Send curriculum vitae, transcripts, and 3 references to: Dr. W. Harvey Reitzel, Department of Biology, St. Mary's College of Maryland, St. Mary's City, MD 20686. St. Mary's College of Maryland is an Equal Opportunity/Affirmative Action Employer.

ASSISTANT PROFESSOR, ANATOMY

Applications are invited for a faculty position at the level of assistant professor in the Department of Anatomy. A Ph.D. degree and one to two years of postdoctoral training are required. Teaching duties will include preparation of two courses for first-year medical students. Gross Anatomy, Histology; Neuroscience. Research interests are open. Development of a research dependent research is strongly encouraged. Philadelphia College of Osteopathic Medicine (PCOM) is dedicated to excellence training. Please send a letter of application, vitae and current letter of recommendations by December 31, 1993 to:

Tage N. Kivist, Ph.D. Professor and Chairman Department of Anatomy Philadelphia College of Osteopathic Medicine 1170 City Avenue Philadelphia, PA 19131

Starting date negotiable (between February and August 1994). PCOM is an Equal Opportunity Employer.

ASSISTANT PROFESSOR

A position is presently open for a tenure-track Assistant Professor in the Departments of Genetics and Gynecology at the University of Wisconsin. This position will be primarily dedicated to research related to maternal fetal and neonatal differences. Applicants should have at least three years of postdoctoral training. Molecular biology orientation is required to quantity RNA, isolate CDNA clones and apply PCR techniques. Candidate must be able to independently design experiments and interact directly in a clinical department for the training of fellows by fostering a scientific environment that is conducive to embracing and implementing new ideas. The individual will be expected to obtain extramural funding and to compete on a national level for grants. The University of Wisconsin is an Equal Opportunity Employer and encourages applications from women and minority applicants. If interested, please send curriculum vitae to: Douglas W. Laube, M.D., Chairman, Department of Obstetrics and Gynecology, 675 Highland Avenue, room 44/654, Madison, WI 53792.

MOLECULAR RADIOBIOLOGIST:
The Department of Radiation Oncology at the University of North Carolina in Chapel Hill invites applications for a tenure-track position at the ASSISTANT or ASSOCIATE PROFESSOR level in the Division of Molecular Radiobiology. We are seeking a candidate to develop a strong research program with a molecular biological orientation at the cellular and molecular levels. Preference will be given to Ph.D. or M.D. scientists with a strong laboratory-based research background. Preference will be given to candidates with research interests in DNA damage and repair, cellular and tumor radiation biology and gastrointestinal malignancies. Applications including curriculum vitae and the names and telephone numbers of three references should be sent to: Dr. James A. Raleigh, Department of Radiation Oncology, CB 7512, North Carolina Clinical Cancer Center, Chapel Hill, NC 27599-7812.

UNC is an Equal Opportunity/Affirmative Action Employer. Women and minorities are encouraged to identify themselves voluntarily in their applications.

AQUATIC BIOLOGIST/ECOLOGIST:
The Department of Ecology, Evolution, and Organismal Biology at Tulane University invites applications from aquatic biologists for a position at the ASSISTANT PROFESSOR level. The successful applicant will focus on ecological processes in Gulf Coast waters. Salary and rank will be commensurate with experience. The individual will be expected to work on applied ecological problems as well as conduct basic research. This individual will be expected to train undergraduate and graduate students through course instruction, research, and supervision. We encourage applications from individuals interested in applying an active ecology and bioenvironmental sciences programs both within the department and in the University's Center for Bioenvironmental Research, and to be competitive in attracting outside funding.

Applicants should submit curriculum vitae, brief descriptions of research interests and names and three references to: John Bar- ber, EEO Biology, Tulane University, New Orleans, LA 70118-4245.

Tulane University is an Equal Opportunity/Affirmative Action Employer.

FACULTY POSITION IN CELL AND MOLECULAR BIOLOGY

University of Connecticut Health Center. The Department of Microbiology is seeking to fill a tenure-track ASSISTANT or ASSOCIATE PROFESSOR. Candidates whose research involves the application of genetic and biochemistry to fundamental problems of cellular and molecular biology are encouraged to apply. The successful applicant will be expected to develop a research program and to teach effectively at the graduate level in the area of Molecular Biology and Biochemistry. Application should include complete curriculum vitae including description of research experience and future research plans, copies of the candidate's most significant peer-reviewed publications, and three references, and should be submitted to: Chair, Search Committee, Department of Microbiology, University of Connecticut Health Center, Farmington, CT 06030.

An Equal Affirmative Action/Employer, M/F/PwD/V.

EUNICE KENNEDY SHIRVER CENTER FOR MENTAL RETARDATION

The Biomedical Sciences Division of the Shriver Center has an immediate opening for a MOLECULAR BIOLOGIST/ECOLOGIST. We are seeking an ASSOCIATE or ASSISTANT PROFESSOR level, to establish a high-quality basic research program in neuroscience. Candidates should have expertise in the application of molecular biology techniques, have research in developmental biology and/or the neurobiology of genetic disorders and an appropriate background to participate in a project program on the Role of Glycoconjugates in the Development of the Nervous System. Candidates should have an active independent research program as well as a strong potential for independent funding.

The Shriver Center is located in suburban Boston, is affiliated with Massachusetts General Hospital/Harvard Medical School and offers an excellent interactive environment. An opportunity exists for collaborative research within the greater Boston biomedical community and for joint appointments at MGH/Harvard. Interested persons should submit curriculum vitae, a short summary of research plans and names of three references to: Dr. Firoze Jungwalla, Chairman of the Search Committee, Biomedical Sciences Division, E. K. Shriver Center, 290 Trapelo Road, Waltham, MA 02154. Telephone: 617-642-0136, FAX: 617-893-4824. An Equal Opportunity Employer.

TENURE-TRACK FACULTY POSITIONS

The Department of Biochemistry and Molecular Biology at the Medical University of South Carolina is actively engaged in recruiting faculty at the beginning of the next academic year to begin the ASSOCIATE PROFESSOR level to fill three state-supported positions. Research areas of particular interest are: (1) DNA-protein interactions, (2) membrane receptors, signal transduction, and (3) (bio)chemistry and molecular biology of cell growth and differentiation. Applicants must hold doctoral degrees and have at least two years of postdoctoral experience. Successful candidates will be expected to develop independent, extramurally supported research programs, and participate in the teaching activities of the department. The search will remain open until the position is filled. Send curriculum vitae, statement of research plans, and the names of three references to: Dr. Barry E. Leoford, Department of Biochemistry and Molecular Biology, Medical University of South Carolina, 171 Ashley Avenue, Charleston, SC 29425.

The Medical University of South Carolina is an Equal Opportunity/Affirmative Action Employer.

The Drugan Corporation is seeking a SENIOR RISK ASSESSOR to prepare and to supervise the preparation of risk assessment. The preferred candidate will have a strong understanding of risk assessment methodologies, and be able to make strong contributions to toxicology or other relevant discipline. Knowledge of U.S. EPA’s risk assessment process and pertinent environmental regulations is necessary. The position may be either a Ph.D. in an appropriate field and a minimum of 2 years of relevant experience is preferred. If you are interested, please return a resume and cover letter to: The Drugan Corporation, 30445 Northwestern Highway, Suite 260, Farmington Hills, MI 48334.
Listed below are a few of the outstanding opportunities for conducting research that are currently available with leading scientists at the National Institutes of Health.

**Molecular Genetics and Biology**
**David M. Mott, PhD**
A variety of methods are being utilized to study the genetic determinants of non-insulin-dependent diabetes mellitus in humans. Current efforts focus on locating and characterizing genes linked with metabolic abnormalities previously identified in subjects with this disease. Phoenix Epidemiology and Clinical Research Branch (OE-39), NIDDK, 4212 N. 16th Street, Room 541, Phoenix, Arizona 85016

**Transcription Factor IID**
**Yoshihiro Nakatani, PhD**
The molecular mechanisms of transcriptional initiation and regulation are being investigated and the specific roles of Transcription Factor IID in these processes are being determined. Applicants must have less than five years postdoctoral experience. Laboratory of Molecular Growth Regulation (OE-39), NICHD, Building 6, Room 416.

**Molecular Biology and Immunology of Cancer**
**Carter Van Waes, MD, PhD**
The molecular biology of squamous cell carcinoma of the head and neck, and the immune response to this disease, are currently being investigated. Both basic and clinical research studies are directed toward development of experimental immune and gene therapy to be used in combination with surgery. Opportunities exist for basic scientists and physicians wishing to combine clinical and research training. Experience in molecular biology is preferred. Head and Neck Surgery Branch (OE-39), NIDCD, Building 31, Room 3C11.

**Structural Analysis of Kinase Activation Mechanisms**
**James Hurley, PhD**
The structural basis for regulation of protein kinases is being investigated using a combination of protein engineering, spectroscopic, and x-ray crystallographic techniques. Applicants must have a knowledge of protein structure; experience in protein purification, recombinant DNA techniques, spectroscopy of proteins, and/or protein x-ray crystallography; and no more than five years of previous postdoctoral experience. Laboratory of Molecular Biology (OE-39), NIDDK, Building 5, Room 435.

**Molecular Membrane Biology**
**Bruce J. Baum, DMD, PhD**
The molecular mechanisms of membrane function related to exocrine fluid secretion are being investigated in an interactive program addressing problems in Ca**2+** entry, ion transport, and water permeability. Studies include novel clinical applications to tissue repair (organ engineering) and gene therapeutics. Experience in fluorescence imaging, protein purification/reconstitution, and/or recombinant DNA techniques preferred. Applicants must have less than five years postdoctoral experience. Clinical Investigations and Patient Care Branch (OE-39), NIDR, Building 10, Room 1N113.

**Molecular Biology of Cardiac Diseases**
**Neal Epstein, MD and Lameh Franapazir, MD**
Studies of the molecular biology and pathophysiology of hypertrophic cardiomyopathy are being integrated with the clinical evaluation and management of patients with the disease. Areas of investigation include mapping of other loci, expression of cloned mutant genes, and the study of the molecular correlates of therapeutic interventions and of variable disease expression. A strong background in molecular biology and less than five years of postdoctoral experience are required. Cardiology Branch (OE-39), NHLBI, Building 10, Room 7B141.

**Regulation of Viral Gene Expression**
**Thomas Christie, PhD**
Herpes simplex virus is being used in the analysis of the cellular and viral factors involved in the transcription of RNAPII genes. These studies focus on the molecular interactions involved in the regulated assembly of enhancer-promoter complexes and on the biochemical mechanisms of gene expression. Applicants should have experience in molecular biology and biochemistry. Laboratory of Viral Diseases (OE-39), NIAID, Building 4, Room 210.

**Additional Postdoctoral Fellowship Opportunities**
For an on-line listing of additional postdoctoral openings you may access the NIH EDNET Bulletin Board's POSTDOC conference by Internet (cu.nih.gov) or via modem (1,301-402-2221 or 1,800-358-2221). The settings for modem access are "7,Even,1". When connected to NIH, type in "vr400" at the connect message, "F5E" at initial, and "AJL1" at exit. The Postdoctoral Research Fellowship Opportunities catalog may be requested from the address below. An electronic version of the catalog may be accessed via the network-based (Internet) Gopher Information System. To access the NIH Gopher server, Gopher client software (available via anonymous ftp "boombox.micro.umich.edu") must be running on your computer and configured to point to "gopher.nih.gov", port 70. Select Grants and Research Information to reveal the NIH Office of Education directory. Those interested in receiving information on other postdoctoral opportunities, clinical training opportunities, or accessing Gopher may contact the Office of Education, Building 10, Room 1C129. Phone: 301-496-2427.

**To Apply**
If you hold a graduate doctoral degree (e.g., PhD, MD/PhD) or a professional degree (e.g., MD, DO, DDS, or DVM) accompanied by previous laboratory research experience, and would like to be considered for one of these positions, please send a cover letter, *curriculum vitae*, bibliography, and statement of research interests to the address listed with each position. In addition, please arrange to have letters of recommendation sent from three scientists who can provide an evaluation of your qualifications.
NEUROSCIENCE FACULTY POSITION

The Program in Medical Sciences and the Department of Biological Sciences of the Florida State University invites applicants to a tenure-track faculty position at the level of ASSISTANT PROFESSOR. Qualified individuals should have a Ph.D. or M.D. degree and postdoctoral training. The successful applicant should be expected to establish and maintain an externally funded independent research program in the area of cellular or molecular neuroscience. Excellent departmental facilities and startup funds are available. Candidates must be qualified to make major contributions to the teaching of all areas of medical neuroscience at a level appropriate to first-year medical students. For further information, please contact the Program in Medical Sciences.

Applications should be sent to: Ion Channel Search Department of Physiology University of Pennsylvania Philadelphia, PA 19104-6085

Applications from female and minority candidates are particularly encouraged. The University of Pennsylvania is an Affirmative Action/Equal Opportunity Employer.

CHAIR AND PROFESSOR ENVIRONMENTAL TOXICOLOGY

Chair and Professor of Environmental Toxicology, and Endowed Chair and Professor in the Agricultural Experiment Station, College of Agricultural and Environmental Sciences. Tenured, eleven-month, administrative, teaching, and research appointment. We are seeking an individual with a high profile externally recognized research program in the field of environmental chemistry and toxicology, demonstrated leadership and administrative skills, and experience in administering interdisciplinary programs. The incumbent is expected to teach a core course in the toxicology curriculum, and to advise and supervise undergraduate students. This is an outstanding opportunity for that person who wishes to provide leadership in the expected future growth of the department, recruiting new faculty members, and developing collaborative interdisciplinary programs in toxicology on the UC Davis Campus. Send résumé, publication list, short statement of administrative, research and teaching interests, and names and addresses of three references to: Dr. Fumi Matsumura, Recruitment Committee, Department of Environmental Toxicology, University of California, Davis, CA 95616-8588. The position will remain open until filled, to assure consideration, applicants should apply by December 31, 1993. The University of California is an Equal Opportunity/Affirmative Action Employer.

PRODUCT MANAGER BIOMEDICAL INSTRUMENTS

Exceptional opportunity for marketing-oriented individual with strong biomedical/physiology background. Duties include: full marketing and sales responsibilities, and new product development. Strong writing skills and computer skills preferred. Excellent opportunity in rapidly expanding area. Some travel. Please submit curriculum vitae with salary requirements to: Autogen Systems, 620 Wheat Lane, Wood Dale, IL 60191.

PROFESSOR OF PHYSIOLOGY

The Department of Physiology, The University of Cincinnati, invites applications for a tenure-track faculty position at the level of ASSISTANT PROFESSOR. The successful candidate will have a strong research program with a demonstrated potential for extramural funding. The University of Cincinnati offers state-of-the-art research facilities and a vibrant and collegial research environment.

Applications should be sent to: Ion Channel Search Department of Physiology University of Pennsylvania Philadelphia, PA 19104-6085

Applications from female and minority candidates are particularly encouraged. The University of Pennsylvania is an Affirmative Action/Equal Opportunity Employer.
Principal Scientist
Bone Metabolism and Osteoporosis

Wyeth-Ayerst Research, a major division of American Home Products Corporation, currently has an opportunity available at our pharmaceutical research facility in Radnor, Pennsylvania.

The successful candidate will participate in developing novel molecular targets for treatment and prevention of osteoporosis. Requirements include a Ph.D. in Molecular Biology or Cellular Biology and a minimum of 5 years experience, which must include molecular biology and demonstrated expertise in Bone Biology.

Please send your resume with salary requirements to: Wyeth-Ayerst Research, Position #S-100-S, P.O. Box 8299, Philadelphia, PA 19101.

Our Preclinical CNS Research Department in Basel is looking for
Three Postdoctoral Fellows

—One position is available in the area of molecular and cellular neurobiology. Candidates should have a Ph.D. or M.D. with a strong background in molecular biology, mammalian cell culture and biochemistry. Previous experience involving receptor cloning and expression or signal transduction mechanisms is preferred.

—A further two positions are available in the area of receptor pharmacology (biochemical pharmacology). The successful candidates will work with a team of molecular biologists studying the pharmacology of novel 5HT receptor subtypes or metabotropic glutamate receptors. A strong background in receptor pharmacology, including signal transduction, is preferred.

If you are interested in one of these positions, please send your handwritten letter of application together with references and your curriculum vitae to Mrs. M. Waespe of our Personnel Department, quoting reference Science 141/93/Wä. F.Hoffmann-La Roche Ltd, CH-4002 Basel

POSTDOCTORAL POSITION
Regulation of RNAPII Directed Transcription

Herpes simplex virus is used as a model system for the analysis of cellular and viral factors involved in the transcription of RNAPII genes. These studies focus upon the DNA-protein and protein-protein interactions which mediate the assembly of multiprotein enhancer-promoter complexes and upon the biochemical mechanisms of gene transcription.

Applicants should have experience in molecular biology, molecular virology and/or protein biochemistry. Two positions are available immediately. To apply, forward curriculum vitae and names of three references to:

Thomas M. Kristie, Ph.D.
Laboratory of Viral Diseases, NIAID
National Institutes of Health
Building 4, Room 229
9000 Rockville Pike
Bethesda, Maryland 20892
FAX: 301-480-1147

NIH is an Equal Opportunity Employer
POSITIONS OPEN

TENURE-TRACK FACULTY POSITION
Biotechnology and Biochemical Engineering Program
Thayer School of Engineering, Dartmouth College

The Thayer School of Engineering, Dartmouth College, is committed to building an outstanding team of researchers focused on the biotechnology and Biochemical Engineering. The interdisciplinary character of the engineering school provides unique opportunities for the candidate to combine the biotechnology and Biochemical Engineering with which is enhanced by collaborations with the medical school and the departments of biology and chemistry. A candidate should be a member of a group with primary interests in biomedical engineering. We seek an individual with motivation and skills that foster intellectual curiosity, research and teaching, and also show potential for complementing the interdisciplinary character of the Thayer School. Research interests are desired that integrate engineering and life science perspectives in a way that allows engineers to play a central role in research-driven innovation and/or elucidation of widely applicable fundamentals. Desired research foci include, but are not limited to, those with relevance to the biopharmaceutical industry. Both junior and senior candidates will be considered.

A cover letter, curriculum vitae, and the names of three references should be sent to: Dr. Warren B. Gregersen, University of Nevada, Las Vegas, Box 454004, Las Vegas, NV 89154–4004; FAX: 702–895-3956. Application must be received no later than August 15, 1994.

A Equal Opportunity/Affirmative Action Employer and employs only U.S. citizens and aliens authorized to work in the United States.

POSITIONS OPEN

LECTURER IN BIOLOGICAL SCIENCES
The Department of Biological Sciences, University of Nevada, Las Vegas, seeks applicants for a non-tenure-track faculty position in biological sciences (189061). Responsibilities will include lecture in, and coordination of laboratories for a first-semester, General Biology course. The course is competitive, position available as early as January 15, 1994, or as late as August 15, 1994. Send curriculum vitae, letter describing teaching philosophy and three letters of recommendation to: Department of Biological Sciences, University of Nevada, Las Vegas, Box 454004, Las Vegas, NV 89154–4004; FAX: 702–895-3956. Application must be received no later than August 15, 1994. Send curriculum vitae, letter describing teaching philosophy and three letters of recommendation to: Department of Biological Sciences, University of Nevada, Las Vegas, Box 454004, Las Vegas, NV 89154–4004; FAX: 702–895-3956. Application must be received no later than August 15, 1994.

A Equal Opportunity/Affirmative Action Employer and employs only U.S. citizens and aliens authorized to work in the United States.

POSITIONS OPEN

POSTDOCTORAL POSITION
A postdoctoral position is available immediately for a highly motivated scientist to study plant molecular biology and virology. Candidates should possess excellent analytical, problem-solving, and communication skills. Previous experience with plant transformation, regeneration, and virology is desirable but not required; those without such experience are encouraged to apply. Send curriculum vitae and three references to: Dr. P. Berger or D. Guerra, Division of Plant Pathology, Room 242, Agricultural Science, University of California, Berkeley, CA 94720-1192. An Equal Opportunity/Affirmative Action Employer.

POSITIONS OPEN

POSTDOCTORAL POSITION
Available immediately at Dana-Farber Cancer Institute, Project involves investigating the interaction of retroviruses with cells and host organisms, especially the effects of immunosuppressive lentiviruses on the development and/or immunology essential. Send curriculum vitae and three references: Dr. Ruth M. Ruprecht, Chief, Department of Viral Pathogenesis, Dana-Farber Cancer Institute, 44 Binney Street, Boston, MA 02115. Dana-Farber Cancer Institute is an affiliate of Harvard School of Public Health. Applications are encouraged from women and minorities are invited to apply.

A Equal Opportunity/Affirmative Action Employer.

POSITIONS OPEN

POSTDOCTORAL POSITION AVAILABLE to candidates interested in the fields of pharmacology, physiology, and/or signal transduction. Area of research involves normal and pathological mechanisms of nitric oxide and mediators of inflammation (e.g., histamine) and their value in the development of new therapeutic interventions. Send curriculum vitae and three letters of reference to: Dr. Stephen P. Beach, Beckman Institute for Advanced Science, University of Irvine, Irvine, CA 92717.

A Equal Opportunity/Affirmative Action Employer.

POSITIONS OPEN

POSTDOCTORAL RESEARCH POSITION
Available immediately to study the structure and regulation of myosin-kinase interactions. Particular emphasis is placed on growth-factor–mediated control of myosin-kinase structure during muscle development and adaptation. Technical approaches include cell biology, immunocytochemistry, protein biochemistry, electron microscopy, Western and Northern blots. Send curriculum vitae and three letters of reference to: Dr. Robert A. Conti, Department of Pharmacology, University of California, Los Angeles, CA 90024–1527.

A Equal Opportunity/Affirmative Action Employer.

POSITIONS OPEN

POSTDOCTORAL RESEARCH POSITION
Available immediately to study the structure and regulation of myosin-kinase interactions. Particular emphasis is placed on growth-factor–mediated control of myosin-kinase structure during muscle development and adaptation. Technical approaches include cell biology, immunocytochemistry, protein biochemistry, electron microscopy, Western and Northern blots. Send curriculum vitae and three letters of reference to: Dr. Robert A. Conti, Department of Pharmacology, University of California, Los Angeles, CA 90024–1527.

A Equal Opportunity/Affirmative Action Employer.

POSITIONS OPEN

POSTDOCTORAL POSITION
A postdoctoral position is available immediately for a highly motivated scientist to study plant molecular biology and virology. Candidates should possess excellent analytical, problem-solving, and communication skills. Previous experience with plant transformation, regeneration, and virology is desirable but not required; those without such experience are encouraged to apply. Send curriculum vitae and three references to: Dr. P. Berger or D. Guerra, Division of Plant Pathology, Room 242, Agricultural Science, University of California, Berkeley, CA 94720-1192. An Equal Opportunity/Affirmative Action Employer.

POSITIONS OPEN

POSTDOCTORAL POSITION
Available immediately at Dana-Farber Cancer Institute, Project involves investigating the interaction of retroviruses with cells and host organisms, especially the effects of immunosuppressive lentiviruses on the development and/or immunology essential. Send curriculum vitae and three references: Dr. Ruth M. Ruprecht, Chief, Department of Viral Pathogenesis, Dana-Farber Cancer Institute, 44 Binney Street, Boston, MA 02115. Dana-Farber Cancer Institute is an affiliate of Harvard School of Public Health. Applications are encouraged from women and minorities are invited to apply.

A Equal Opportunity/Affirmative Action Employer.
FIVE FACULTY POSITIONS IN BIOLOGY

The Division of Biological Sciences, University of California, Davis, announces the availability of five (5) faculty positions to be filled on or after July 1, 1994. The positions represent the first phase of new recruitments for the recently reorganized Division of Biological Sciences. All positions are 11-month (full-year), tenure-track faculty positions at the rank of Assistant Professor and include an appointment in the Agricultural Experiment Station. Appointees will be expected to develop and sustain a vigorous program of research and graduate training. In addition, appointees will teach in appropriate undergraduate and graduate programs.

The Division of Biological Sciences is an inter-college unit comprising over 100 faculty positions. As of July 1, 1993, the Division was reorganized into five new Sections. These recruitments represent the first phase of the planned growth of each Section. The Division's research and training facilities are located in three modern laboratory buildings encompassing 150,000 square feet; a new 70,000 square-foot research laboratory building will be completed in 1996. In addition to its responsibilities for research and graduate education, the Division offers eight undergraduate major programs enrolling 3,100 students in the College of Agricultural and Environmental Sciences and the College of Letters and Science. The Division also collaborates with the Schools of Medicine and Veterinary Medicine in research and teaching activities.

Applications and nominations are invited for each of the positions. Positions are open until filled, but all application materials (including three letters of recommendation) should be received by November 30, 1993 to be assured of full consideration. For more detailed information about a specific position, write to the Section Chairs listed below or see the individual announcement of the position in the next issue of Science. More general inquiries may be directed to Mark McNamee, Interim Dean, Division of Biological Sciences, University of California, Davis, CA 95616.

Section of Evolution and Ecology. Applications are solicited from individuals whose areas of interest include: physiological ecology, behavioral ecology, population ecology, community/food-web ecology, avian ecology, mammalian ecology, or plant ecology. Contact: Professor Tom Schoener, Chair.

Section of Microbiology. Applications are solicited from individuals whose areas of interest include: modern molecular, biochemical, or genetic aspects of microbial physiology. Contact: Professor Stephen Kowalczykowski, Chair.

Section of Molecular and Cellular Biology. Applications are solicited from individuals whose areas of interest include: structure, function, or regulation of supramolecular complexes in a cellular or developmental context. Contact: Professor Carl Schmid, Chair.

Section of Neurobiology, Physiology, and Behavior. Applications are solicited from individuals whose areas of interest include physiological mechanisms underlying behavior. Contact: Professor Barbara Horwitz, Chair.

Section of Plant Biology. Applications are solicited from individuals whose areas of interest include: cellular and developmental biology, using the approaches of developmental genetics to investigate problems in morphogenesis. Contact: Professor Robert Pearcy, Chair.

The University of California is interested in candidates who reflect the highest standards of scholarship and professional activities and does not discriminate on the basis of race, color, national origin, religion, sex, disability, age, or sexual orientation.

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

Bristol-Myers Squibb in Syracuse, New York, has the following opportunities available:

Genetic Engineering & Biological Process Development Department

Scientist II/Senior Scientist I

(Position #BC064-93) Responsible for mammalian gene expression strategies and improving cell line titers for important biotherapeutic monoclonal antibodies, adhesion molecules, immunoregulators, etc. We seek a Ph.D. with postdoctoral experience in molecular biology including experience in generating high-producing mammalian cell lines by gene expression in strategies. Industrial experience in the optimization of biotherapeutics preferred.

Associate Scientists

(Position #BC061-93(2)) Two positions available with responsibility for supporting the development of improved cell lines by clonal selection and adaptation and will include optimizing mammalian cell culture media. We seek a candidate with a B.S./M.S. degree in cell biology or biology and experience in the cultivation, manipulation and analysis of mammalian cells.

(Position #BC062-93) Responsible for supporting the development of improved cell lines by genetic engineering strategies and will include gene expression in mammalian hosts. We seek a candidate with a B.S. or M.S. degree in molecular biology or biology and experience in vector construction, DNA hybridization, cell culture techniques and protein analysis.

Biologics Pilot Plant Development Engineer

(Position #BC-065-93) This is your opportunity to join a company currently applying hybridoma and cell culture technology to develop therapeutic products for anti-tumor as well as autoimmune disease treatments. Responsible for the application of engineering knowledge to cell culture process design and development including developing procedures for cell culture media and process optimization. Candidate must have an M.S. in Chemical/Biochemical Engineering with 5 years industrial or related experience or Ph.D. with 2 years industrial or related experience. Familiarity with immobilized cell culture technology and prior working experience in greater than 10 liter scale mammalian cell culture are desired. Prior experience in cGMP operation is preferred.

We offer an excellent salary, comprehensive benefits and a working environment conducive to professional growth. For confidential consideration, forward your resume with salary requirements, indicating Position #, to: Manager Human Resources, BRISTOL-MYERS SQUIBB COMPANY, P.O. Box 4755, Syracuse, NY 13221-4755. Equal Opportunity Employer, M/F/D/V.
POSITIONS OPEN

POSTDOCTORAL/RESEARCH ASSOCIATE MOLECULAR BIOLOGY & GENETICS

Several postdoctoral/research associate positions are available for individuals to become members of a productive interdisciplinary research team. The successful candidate(s) will utilize either the lysozyme oxidase or pro tease gene system to study growth, development and differentiation. Self-motivated individuals trained in molecular biology and/or biochemistry interested in mechanisms of gene potentiation are encouraged to apply.

Interested individuals should forward curriculum vitae and three letters of reference to: Dr. Stephen A. Krawetz, Departments of Molecular Biology and Genetics, Montana State University, Washington State College of Medicine, 253 C.S. Moss Center for Human Growth and Development, 275 East Hancock, Det rroit, MI 48301. WSU is an Equal Opportunity Employer.

POSTDOCTORAL POSITION HUMAN GENOME RESEARCH

Position available, as part of a new Program in Human Genetics, to study the molecular basis of velo cardio-facial syndrome, a developmental abnormality associated with deletions on human chromosome 22. Approaches include mapping and gene isolation and analysis. Other projects include gene isolation from chromosomal translocations involved in leukemias. Send or FAX curriculum vitae and addresses, telephone and FAX numbers of three references to: Dr. Arthur Skoultchi, Albert Einstein College of Medicine, 1300 Morris Park Ave, New York 10461. FAX: (718) 829-7619. Equal Opportunity Employer.

POSTDOCTORAL POSITIONS PATHOLOGY

Positions are available for individuals with Ph.D. or M.D. graduates interested in studying prostate carcinogenesis. Funded projects involve the cellular and molecular biology of cellular adhesion, extracellular matrix proteins, and metalloproteinases. Experience in molecular biology and protein biochemistry is desirable. Newly remediated laboratories are available for research with opportunities with the Department of Pathology and the Division of Anatomy. The position is available immediately. Review of applications will begin on October 22, 1993, and will continue until the position is filled. Submit curriculum vitae and names of three references to: Ray B. Nagle, M.D., Ph.D., University of Arizona Health Sciences Center, Department of Pathology, Pathology Building, Tucson, AZ 85724. Equal Opportunity/Affirmative Action Employer. Women and minorities are encouraged to apply.

POSTDOCTORAL POSITION PATHOLOGY

Panlabs, Inc., a biotech company located northeast of Seattle, Washington, is inviting a recent Ph.D. to join a 3-year NIH-funded project to study the role of growth factors in the development of human benign prostatic hyperplasia (BPHG). An in vitro model has been developed to analyze the growth factor interactions between epithelial-stromal cells. Qualified candidate will have expertise in molecular biology and the purification of growth factors. Send or FAX résumé/cvittum and names of three references to: Panlabs, Inc., (Position #94-50), 11804 North Creek Parkway South, Bothell, WA 98011; FAX: 206-487-3787.

POSTDOCTORAL POSITION: U.S. Department of Agriculture Research Service (ARS). Roman L. Hruska U.S. Meat Animal Research Center, Clay Center, Nebraska, has a Postdoctoral Research Associate position available immediately. Incumbent will develop and construct in vitro real-time physically anchored genetic linkage maps from a growing database of marker genotypes and physical mapping data. Experience in physical mapping and knowledge of real-time PCR techniques will be encouraged. Individuals with experience and interest in computational aspects of genetics are encouraged to apply. Two-year appointment periods will be negotiable. Position starts January 1994. Salary $33,623. Send curriculum vitae and names, addresses, and telephone number of three references to: Roman L. Hruska, U.S. Meat Animal Research Center, P.O. Box 166, Clay Center, NE 68933-0166. USDA-ARS is an Affirmative Action/Equal Opportunity Employer.

POSITIONS OPEN

A POSTDOCTORAL POSITION to study pharmacokinetics and mechanisms of drug action against Toxoplasma gondii in our Department of Immunology and Infectious Diseases. Required is a doctorate in Pharmacology, Pharmacokinetics, Biopharmaceuticals or Pharmacodynamics. Experience in pharmacokinetic and/or drug metabolism research and the use of in vitro bioassay in the use of statistical analysis to evaluate pharmacokinetic observations, as well as in studies on mechanisms of drug action on animal hosts will be an asset. The successful candidate will be responsible for the organization, execution, and analysis of pharmacokinetic studies for a leading company. Send curriculum vitae to: K. Roberts, Research Institute, Palo Alto Medical Foundation, 860 Bryant Street, Palo Alto, CA 94301. We are an Equal Employment Opportunity Employer.

A POSTDOCTORAL POSITION—To participate in studies of the molecular basis of cell division and chromosome segregation in E. coli. The research involves the combined use of molecular genetics and biochemistry to study the mechanisms of cell division, for the proper placement of the cell division site, and for the coordination of the division process with the partition of daughter chromosomes into progeny cells. Send curriculum vitae and names and addresses of three references to: Dr. L. Rotfield, University of Connecticut Health Center, Farmington, CT 06030. An Affirmative Action/Equal Opportunity Employer, M/F/PwD/V.

A POSTDOCTORAL POSITION IN PROTEIN NMR SPECTROSCOPY available immediately to study structure-function relationships in mammalian seed proteins. Probes include Factor XII, A state-of-the-art 500 MHz Varian Unity Plus NMR spectrometer will be available. Send curriculum vitae and names and addresses of two references to: Dr. K. Krishnamoorthy, Department of Biochemistry, Wilard Hall, Kansas State University, Manhattan, KS 66506 with current experience and descriptions of prior research experience, and the names of several references to: Kansas State University is an Equal Opportunity/Affirmative Action Employer.

A POSTDOCTORAL POSITION IN CARDIOVASCULAR BIOLOGY. Five positions are available in independent but interactive laboratories within a multidisciplinary program offering expertise in the cell and molecular biology, biochemistry and physiology of cardiovascular function and related disease processes. Research areas currently recruiting include: (1) Effects of diabetic hyperglycemia on endothelial cell function—Dr. Stuart Williams; (2) Regulation of expression and function of gap junction proteins and channels by cell-cell interactions—Janice Burt; (3) Molecular biology of G-protein coupled receptors—Dr. John Ragus; (4) Effects of advanced glycation endproducts and related potentially toxic products of basement membrane and endothelium—Dr. Murray Katz; and (5) Regulation of cadiherin expression in endothelial and smooth muscle cells during embryogenesis and vascular remodeling—Dr. Ron Heilman. Start dates for position 1 to 3 are between June 1, 1994, and May 1, 1995, for position 4 prior to May 1, 1994, and for position 5 negotiable. Salaries are negotiable and based on prior experience. Eligibility: U.S. citizens or permanent residents with a Ph.D., M.D. or equivalent. Applications accepted until positions are filled. Send curriculum vitae and three letters of reference to: Lipscomb University is an Equal Opportunity/Affirmative Action Employer.

A POSTDOCTORAL POSITION in Cardiovascular Biology Program, Center for Natural Sciences, Mathematics, and Nursing, University of Arizona, Tucson, AZ 85724. The University of Arizona is an Equal Opportunity/Affirmative Action Employer and applications from female and minority members are strongly encouraged.

A POSTDOCTORAL POSITION immediately to study avian evolutionary biology within a phylo genetic context. Previous ornithological research experience expected. More than one position available. Send a short statement of research interests, and the names and telephone numbers of three references to: Scott M. Gilchrist, Director, Lawrence Hall of Science, University of Illinois, 901 Natural History Building, Field Museum of Natural History, Roosevelt Road at Lake Shore Drive, Chicago, IL 60605. An Equal Opportunity/Affirmative Action Employer.

POSITIONS OPEN

POSTDOCTORAL/TECHNICAL POSITION REAL-TIME CALCIUM IMAGING

A postdoctoral/technical position is available in the Department of Anatomy and the LSU Neuroscience Center to support a core facility for real-time calcium imaging. Applicants must have experience with imaging as well as a technical background in computer hardware/ software. An academic interest in calcium channels and/or intracellular calcium is preferred. Salary levels are competitive. Send curriculum vitae and names of references to: Dr. R. Ramon Mist, Department of Anatomy, LSU Medical Center, 1901 Perdido Street, New Orleans, LA 70112. An Equal Opportunity/Affirmative Action Employer.

POSITIONS AVAILABLE. Postdoctoral through assistant professor level. Gene expression and structure in color vision and transduction. Forward résumé and names of references to: Leonard H. Augenlicht, Ph.D., Professor and Director, Molecular Oncology Program, Albert Einstein Cancer Center, Montefiore and Albert Einstein Medical Centers, 111 East 210th Street, Bronx, NY 10467.

Two POSTDOCTORAL POSITIONS are available for studies exploring the physiology, cell and molecular biology and biochemistry of the urinary tract. These positions are available immediately. An alternative training grant in Urinary. One position is open immediately, the second on July 1, 1994. Send curriculum vitae, brief summary of research interests, and the names of three references to: Robert M. Levinsky, Research Director, Division of Urology, Hospital of the University of Pennsylvania, 3005 Raskin Courtyard, 3400 Spruce Street, Philadelphia, PA 19104. NIH Training Grants require U.S. citizenship or permanent residency. The University of Pennsylvania is an Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL FELLOWSHIP

Applications are invited for the E. E. Selkurt Postdoctoral Fellowship in the Department of Physiology and Biophysics, University of Medicine and Dentistry of New Jersey to provide 2 years of support for a promising scientist with a Ph.D. or M.D. degree. Selection will be based on parallel interests with one of the following faculty: Dr. H. G. Bohlen—Microvascular function in normals and diabetics. Dr. P. J. Gallagher—Molecular mechanisms of smooth muscle growth. Dr. S. Gunz—Airway smooth muscle contractile mechanisms. Dr. C. S. Hui—Excitation-contraction coupling in skeletal muscle. Dr. S. A. Kempson—Cellular regulation of membrane transport.

Send applications (curriculum vitae, brief outline of proposed research, and names of three references) to: C. E. Selkurt Fellowship Committee, 635 Barnhill Drive, MS 374, Indianapolis, IN 46202. Deadline: November 12, 1993. Indiana University is an Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL FELLOWSHIP IN REPRODUCTIVE BIOLOGY

Position available now to study the regulation of sperm maturation and sperm-egg interaction. Experience in molecular biology and cell biology is preferred. Send curriculum vitae, statement of research interests, and names with telephone numbers of three references to: Dr. Maria de la Orgebin-Crist, Center for Reproductive Biology Research, Vanderbilt School of Medicine, Room D-2303 MCN, Nashville, TN 37232-2683. Affirmative Action/Equal Opportunity Employer.

POSTDOCTORAL FELLOW needed to perform studies on the prohormone convertases responsible for the processing of preprohormones (JBC 268: 5615, 1993). Position can involve biochemistry (FPLC of recombinant enzymes and inhibitors), cell biology (use of secreted enzymes), and/or molecular biology (site-directed mutagenesis). Prefer recent Ph.D. with a strong interest in neuroendocrine cell biology and biochemistry. Send curriculum vitae, references, and names to: Iris Lindberg, Department of Biochemistry and Molecular Biology, L.S.U.M.C., 1901 Perdido Street, New Orleans, LA 70112.

612  SCIENCE  •  VOL. 262  •  22 OCTOBER 1993
The Global Environment: Invitation for RITE's Research Proposals

Research Institute of Innovative Technology for the Earth (RITE) is inviting basic research proposals concerning with the environmental problems. Also, research proposals which are deemed to contribute significantly to the resolution of global environmental problems will be supported by RITE in the form of commissions.

1. Invited Research Category:
Basic research aimed at the development of innovative technologies which will contribute to the solution of the global environmental problems.

2. Invited Research Themes:
[A] Research concerning greenhouse gases, such as carbon dioxide and methane gas which are considered among the main causes of global warming, on the following themes:
1) Efficient separation, recovery, disposal, re-use and so on of the greenhouse gases
2) Innovative process technologies which limit the greenhouse gas generation.
3) Research concerning enhancement of CO2 sinks (e.g. ocean sinks, underground storage and restoration through biotechnology).

[B] Research for other technologies concerning the environmental problems on the following themes:
1) Control of generating and widespread release of chemical substances, apart from the greenhouse gases mentioned in [A] above, which are seriously detrimental to the environment, or prevention of those substances.
2) Substitutes for the chemical substances mentioned above.
3) Recycle and effective utilization of materials.

3. The Number of Proposals to be Accepted:
The number of the proposals to be accepted is determined after the budget has been confirmed. For FY 1993, 13 proposals were accepted.

4. Allowance for Commissioned Research:
Up to 10 million Japanese Yen will be allocated for each proposal; the entire cost of a project may not be covered by RITE. The allowance distributed for the proposals accepted in FY 1993 ranged from 5.0 million to 7.5 million Japanese Yen per project, with the average being 6.7 million Japanese Yen.

5. Closing Date for the Submission of Proposals:
Proposals must be received by RITE no later than January 11, 1994.

6. Period of the Commissioned Research:
Accepted proposals will be for projects lasting a single year during the period approximately from June through August 1994 to March 1995. However, when the continuation of the project is deemed necessary, RITE may commission further research.

7. Qualified Research Participants:
Individuals or groups engaged in research activities at research institutions etc. are eligible. The applicants' citizenship or proposed site for the research will not be considered as determinants in selection.

8. Application Procedure:
Applicants must contact the secretariat at RITE (as below) for literature detailing documents to be submitted and designated formats thereof. Facsimile transmission is preferred for speed of communication. Please include relevant Tel. and Fax. numbers with requests.

The program is carried out on commission by the New Energy and Industrial Technology Development Organization (NEDO).

Please make a contact to:
Ms. Kaneko, Mr. Ishizu or Mr. Hirano
Research Proposal Reception Section
Research Planning Department
RITE
9-2 Kizugawadai Kizu-cho Soraku-gun
KYOTO, 519-02 JAPAN
TEL: 81-7747-5-5233
FAX: 81-7747-5-2314

Research Institute of Innovative Technology for the Earth

---

MOLEULAR AND CELLULAR BIOLOGY
MOLECULAR MEDICINE AND GENETICS

ASSOCIATE AND FULL PROFESSOR - The new Center for Molecular Medicine and Genetics is expanding its research and training programs. Applications are invited for tenured/tenure-track faculty positions at the associate professor or full professor level. Excellent research laboratories and support facilities are located in the School of Medicine and in the Biological Sciences Building on the main campus of the University in proximity to one of the largest medical centers in the United States. Candidates should be established, independent investigators with outstanding research and training accomplishments and should have demonstrated ability to obtain extramural research funding. While all research areas will be considered, candidates with expertise in eukaryotic molecular, cellular, or developmental genetics, human genetic diseases or their animal models, human or model organism genome analysis, or gene therapy are especially encouraged to apply. Applicants should send complete Curriculum Vitae, a brief description of current and future research interests (3-4 pages), a bibliography and reprints of significant publications, and recommendations from at least three references by December 15, 1993, to:

Dr. Robert H. Rownd, Director
Center for Molecular Medicine and Genetics
Wayne State University School of Medicine
3216 Scott Hall
540 East Canfield
Detroit, MI 48201

Wayne State University is an equal opportunity/affirmative action employer and invites applications from all qualified individuals.

---

Health Scientist Administrator (HSA)
GS-601-12/13/14

The National Institute of General Medical Sciences, National Institutes of Health, Bethesda, MD is seeking a HSA, responsible for managing the programming and evaluation of a portfolio of research and research training grants that support work in the fields of biological chemistry, particularly where the emphasis of research is on enzymology, lipid biochemistry, intermediary metabolism and bioenergetics. In addition, the incumbent provides scientific expertise in the above mentioned specialized areas and advises grantees and professional staff members regarding research aspects of grants within these areas of expertise and serves as a source of technical knowledge.

Applicants interested in applying must have a knowledge of biochemistry with specific expertise in at least one of these areas: lipid biochemistry, membrane biochemistry, biophysics, enzymology, intermediary metabolism or bioenergetics; ability to make critical judgements about the management and evaluation of scientific research; and ability to write about complex scientific topics for a varied audience.

For information regarding the qualifications and application requirements, please call the NIGMS Personnel Office (301) 594-7767. Announcement closes 11/08/93. U.S. Citizenship is required.

NIH is an Equal Opportunity Employer
POSTDOCTORAL RESEARCH FELLOW

Position available for up to three years to study the role of neurotrophins/receptors in prostate neoplasia. Experience in molecular biology required. Salary commensurate with experience. Please send curriculum vitae and names of three references to: Dr. Daniel Djakiew, Department of Cell Biology, Georgetown University Medical Center, 3550 Reservoir Road, N.W. Washington, DC 20007. Telephone: (202) 687-1203, FAX: (202) 687-1823.

POSTDOCTORAL FELLOW
NUTRIENT CYCLING

The Harvard Forest seeks a Postdoctoral Fellow to join a project on land-use history and nutrient cycling in forested landscapes and their effects on forest composition and productivity. Opportunities will include process-level studies at the site level plus regional evaluations through GIS and modeling. Candidates should hold a Ph.D. in ecology, forest science, geography, or related field. Experience with GIS and ecosystem models is desirable. The Harvard Forest is part of the NSF Long-Term Ecological Research (LTER) Program and a site for global change research supported by the DOE National Institute for Global Environmental change (NIGEC). Send curriculum vitae and names and telephone numbers of three references by December 1, 1993, to: Dr. Richard Boone, Harvard Forest, P.O. Box 68, Petersham, MA 01366-0068. (413) 985-9302.

Harvard University is an Equal Opportunity Employer and applications from women and minorities are strongly encouraged.

Smithsonian Institution Fellowship Program

GRADUATE STUDENT, PREDOCTORAL, POSTDOCTORAL AND SENIOR FELLOWSHIPS

POSTDOCTORAL RESEARCH ASSOCIATE

The University of Nebraska Medical Center's Department of Ophthalmology is looking for a researcher with an interest in the factors that affect the survival of corneas on the pathophysiology of optic nerve damage in glaucoma. Ph.D. in physiology or M.D. in ophthalmology is required. Prior experience in the area of interest is preferred. Position available from November 1, 1993, through October 31, 1994. Salary $16,000 plus benefits, 40 hours per week. Send curriculum vitae, references, and letter to: Dr. John Seip, Professor & Chairman, Department of Ophthalmology, University of Nebraska Medical Center, 600 South 42nd Street, Omaha, NE 68198-5840. Equal Opportunity/Affirmative Action Employer. Minorities and women are encouraged to apply.

POSTDOCTORAL/RESEARCH ASSOCIATE

POSITION available to study the structure/function of P-glycoprotein in multidrug-resistant cancer cells. Ph.D. in molecular biology or biochemistry required. Experience with recombinant DNA techniques and site-directed mutagenesis is desirable. Send curriculum vitae and names of three references to: A. S. Safa, Ph.D., University of Chicago Medical Center, 5841 South Maryland Avenue, MC 2115, Chicago, IL 60637.

POSTDOCTORAL/RESEARCH ASSOCIATE POSITIONS

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

RESEARCH IMMUNOLOGIST

Children's Hospital Oakland Research Institute

Applications are invited for the post of Assistant or Associate Immunologist. Immunologists should have an M.D. or Ph.D. and a strong background in molecular immunology. The successful candidate will join an exciting group of researchers dedicated to understanding the genetic basis of, and immune responses to, inborn errors of metabolism and allergies. The ideal candidate should have a recognized research program in an area of immunology that is relevant to the group's major interests. The position offers an excellent teaching opportunity in the clinical and basic sciences with the potential for the development of a relevant research program.

Send curriculum vitae and names of three references to:

Children's Hospital Oakland, Yvette Williams, Human Resources, 747 52nd Street, Oakland, CA 94609. Equal Opportunity Employer.

STAFF SCIENTIST (BIOCHEMIST), Requires Ph.D. on Biochemistry, or equivalent, and two years of postdoctoral experience in immunology, cell and molecular biology, including experience in construction of recombinant prokaryotic and eukaryotic cell lines, cloning of cDNA libraries, DNA sequencing, PCR, bacterial expression and purification of mammalian recombinant proteins, ELISA, FACS analysis, surface plasmon resonance of malaria-infected erythrocytes, immunoprecipitation of radioiodinated malaria antigens, in vitro malaria cytokine assays, agglutination of malaria-infected erythrocytes and. To lead a group of researchers in the development of malaria vaccines and antimalarial drugs. $53,075 per year. Job interview site: Santa Clara, California. Send this ad and your résumé or letter of qualifications to: Box 41, Science Classified Advertising, 1333 H Street, N.W., Room 814, Washington, DC 20005. Upon hire must show immediate ability to work in the United States.

STAFF SCIENTIST (MOLECULAR BIOLOGIST), Requires Ph.D. in molecular biology, molecular and cell biology, or equivalent, and 3 years of postdoctoral experience in receptor, cell, and molecular biology, including experience in protein biochemistry, bacteriology, molecular and cellular immunology, cytokine receptor interactions, hemopoiesis, and eukaryotic cell culture and bioassays. To manage target-oriented drug discovery projects with a focus on applying novel screening technologies to identify drug candidates active at particular receptors. $52,975 per year. Job interview site: Palo Alto, California. Send this ad and your résumé or letter of qualifications to: Box 40, Science Classified Advertising, 1333 H Street, N.W., Room 814, Washington, DC 20005. Upon hire must show immediate ability to work in the United States.

Ph.D. in ANALYTICAL CHEMISTRY for instruction in undergraduate Instrumental Analysis as well as research experience in the design and development of biochemistry. Salary: $22,000-$24,000. Tenure-track anticipated for spring 1994. Rank and salary dependent upon qualifications. Qualify teaching ability for non-science as well as science majors is a prerequisite and research with undergraduates expected. Evidence of both must be submitted and included in the three required letters of reference. Western Connecticut State University Department of Chemistry has eight full-time faculty members and offers a Bachelor's in chemistry as well as options in biochemistry and biochemistry. Tenure-track possible. Send complete curriculum vitae including both undergraduate and graduate transcripts and letters of reference to: Dr. Michael J. Urichick, Chairperson, Department of Chemistry, Western Connecticut State University, Danbury, CT 06810. Screening will begin immediately and continue until the position is filled. An Equal Opportunity/Affirmative Action Employer.

CLINICAL RESEARCHER—Clinical Nephrology group in major university-affiliated hospital in New York area. The Nephrology Division has a strong interest in high risk pregnancy and the renoglucometabolic aspects of pregnancy. The Division has an opportunity for a new member to join the Renal Research Program within the Division. The position is open to all qualified applicants. Responsibilities include direct patient care, clinical and epidemiologic research, medical education, and clinical or basic research. Applicants must have at least one year of clinical experience and should be board certified in nephrology. Salary is competitive and based on experience. Interested applicants should send a curriculum vitae to: Alan Zwerin, Administrator for Nephrology, Long Island College Hospital, Brooklyn, NY 11201.
National Needs Graduate Fellowships
Iowa State University

CELL BIOLOGY
BIOCHEMISTRY
MOLECULAR BIOLOGY
PHYSIOLOGY

USDA National Needs Graduate Research Fellowships in PLANT BIOTECHNOLOGY are available in the Interdepartmental Plant Physiology Major (IPPM). Fellowships are for three years with an annual stipend of $17,000. Candidates with an M.S. degree or prior research experience are preferred. Other fellowships and assistantships are also available. Inquiries to: Dr. R. Shibles, National Needs Fellowships, IPPM, 1557 Agronomy Bldg., Iowa State University, Ames, IA 50011

An Affirmative Action/Equal Opportunity Employer

Department Chairperson
BIOLOGICAL SCIENCES

The Philadelphia College of Pharmacy and Science (PCPS) is seeking an individual with demonstrated leadership ability to chair the department of Biological Sciences. The department (12 full-time, 3 part-time faculty, 110 majors) offers four degree programs, two academic minors and has an excellent record in undergraduate research. The ideal candidate will have a Ph.D. in a Biological discipline. Associate or Full Professor rank, evidence of administrative experience, an active research program and a strong commitment to undergraduate teaching/research. The position requires excellent interpersonal skills with a commitment to faculty/program development.

The position is available July 1, 1994. The review of applications will begin on December 15, 1993 and continue until an appointment is made. Candidates for the position should forward a curriculum vitae, transcripts, the names and addresses of three references and a statement of administrative philosophy to: Dr. Charles W. Gibley, Dean of Arts and Sciences, PCPS, 600 S. 43rd St. Philadelphia, PA 19104.

The Philadelphia College of Pharmacy and Science is an Equal Opportunity/Affirmative Action employer with a strong commitment to racial, cultural and ethnic diversity. Nominations of applicants of individuals from a broad spectrum of backgrounds are encouraged.

UNIVERSITY OF CALIFORNIA,
SANTA CRUZ
DEPARTMENT OF BIOLOGY

Applications are invited for two tenure-track faculty positions beginning Fall 1994, contingent upon available funding. Salary: $35,900-$38,800. Minimum qualifications: Ph.D. or equivalent in Biology or a closely related field, postdoctoral research experience, university teaching experience, or demonstrated potential.

Assistant Professor in Molecular Marine Biodiversity: #277-823: Preference will be given to individuals who use molecular approaches to understand the generation and maintenance of biodiversity in the marine environment, and especially to those whose research emphasizes evolutionary processes and who can take advantage of the marine environment of Central California. Closing date: January 16, 1994.

Assistant Professor in Molecular Evolution: #284-823: Preference will be given to individuals with joint expertise in evolutionary genetics and molecular biology, and who will complement our new focus on using molecular techniques to investigate problems in organismal and population biology, especially those whose research emphasizes experimental studies of molecular function and evolutionary mechanisms rather than systematics. Closing date: December 15, 1993.

Applicants should have curriculum vitae, brief description of research and teaching interests, reprints, and have letters of recommendation from three referees sent to: Marine Biodiversity Search Committee or Molecular Evolution Search Committee, Department of Biology, Sinsheimer Laboratories, University of California, Santa Cruz, CA 95064.

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

Washington

Washington University in St. Louis
Biology & Biomedical Sciences

Graduate and postdoctoral training opportunities in...

Genome Mapping, Analysis, and Sequencing

Doug Berg - Analysis of bacterial genomes; transposable elements.
Dave Chaplin - Definition of the gene content of the HLA complex.
Robert Cloninger - Genetic epidemiology of neuropsychiatric disorders.
Helen Donis-Keller - Human genetic linkage mapping; identification of disease causing genes.
Daniela Gerhard - Identification of genes causing human diseases.
Paul J. Goodfellow - Molecular basis of inherited cancer.
David Gutmann - Molecular biology of CNS tumor suppressor genes.
Pui-Yan Kwok - DNA sequence analysis and automated genetic mapping of the human genome.
David Schlessinger - Human genome mapping with YACs: X-linked genes and diseases.
David States - Computational genome analysis; data bases in molecular biology.
Alan R. Templeton - The genetic epidemiology in humans with the candidate locus approach.
Bob Waterston - Genome analysis of the nematode C. elegans.
Rick Wilson - Automated DNA sequencing of C. elegans and mammalian genomes....and others

Please direct inquiries for postdoctoral training to specific faculty members. For graduate school information, please write to: Biology & Biomedical Sciences, Campus Box 8236, 660 S. Euclid Ave., St. Louis, MO 63110-1093; or call 800-852-9074.
Cytogenetic Technologists

The National Center for Human Genome Research (NCHGR) seeks outstanding cytogenetic technologists with a Bachelor's or a Master's (or equivalent) degree trained in working independently in the preparation, analysis, and description of biological specimens for cytogenetic research. The applicants should be experienced in all aspects of sample preparation (including blood, bone marrow, chorionic villi and solid tissues), cell culture (using biohazard procedures), harvesting of cell cultures (including staining of chromosomes using G-, Q-, and other relevant banding techniques), fluorescence in situ hybridization (using locus and chromosome-specific probes), and finally, microscopy and photography followed by chromosome analysis. These positions will offer a remarkable opportunity to be involved with the new NCHGR Intramural Program which will explore the most exciting arenas of human genetics, including medical genetics, gene discovery, gene biology, gene diagnosis, and gene therapy. Cytogenetic technologists with a strong track record in applications of molecular cytogenetics would be an ideal match for the plans of this program. Salary range is very competitive and related to experience; citizenship (or permanent resident status) is required. Candidates should submit curriculum vitae and the names of three references:

Ms. Pat Stewart
Principal Administrative Officer
National Center for Human Genome Research
Building 49, Room 4A60
9000 Rockville Pike
Bethesda, MD 20892

NCHGR is an Equal Opportunity Employer

Boston University invites applications and nominations for several tenure-track faculty positions in the BIOMEDICAL ENGINEERING DEPARTMENT in the areas of NEUROENGINEERING and NEUROSCIENCE.

We are interested in hiring outstanding individuals who work in areas which complement the research interests of our current faculty and who can build bridges between various groups within the department and affiliated centers on campus. Research by faculty and students takes place in departmental laboratories specializing in fields and tissues, hearing, intelligent systems and vision, molecular engineering and respiratory research as well as in three affiliated centers: the Biomolecular Engineering Research Center, the Center for Advanced Biotechnology, and the NeuroMuscular Research Center. Examples of bridging areas might include persons working at the channel or receptor level; or neuroengineers designing sensory (vision) or motor subsystems for robotic applications. Appointees will be expected to conduct an active research program as well as develop and teach undergraduate and graduate courses.

Boston University has demonstrated its commitment to excellence in Engineering and Science through recent faculty recruiting drives, and major facilities expansions. The recent addition of a Center for Research in Advanced Biotechnology and the planned development of a Photonics Center and a Center for Neurosciences illustrate the diverse, yet interconnected areas of expansion.

Applicants should submit a curriculum vitae, a one page summary of research interests, and the names and addresses of three references:

Herbert F. Voigt, Ph.D., Chairman
Department of Biomedical Engineering
College of Engineering
Boston University
44 Cummington Street
Boston, MA 02215-2407

The target starting date for positions is September 1, 1994. Consideration of applications will begin on November 1, 1993 and will continue until the positions are filled.

Boston University is an Equal Opportunity/Affirmative Action employer.

MOLECULAR VIROLOGY

The Division of Molecular Virology at Baylor College of Medicine invites applications for a tenure-track faculty position. Rank is open. An established research program is desirable. Of special interest are topics on viral pathogenesis and molecular biology of viral replication. Applicants should have a Ph.D. or M.D., with postdoctoral experience in virology, and demonstrated research productivity. Applicants are expected to pursue an independent research program and participate in graduate training. Faculty activities focus on viral replication, gene expression, pathogenesis, oncogenes, and disease prevention. This is an excellent opportunity to join an active department with newly renovated laboratories. Send CV, names/addressess of at least 3 references, statement of current research activities and future plans by Dec. 15, 1993, to: Dr. Mary Estes, Recruitment Committee, Division of Molecular Virology, Baylor College of Medicine, Houston, TX 77030.

An E0/AA employer.

BIO MATHEMATICAL MODELER - A senior research position is available immediately with ManTech Environmental in their Biologically Simulation Research Program of the Toxic Hazards Research Unit (THR) located in Dayton, Ohio. The minimum qualifications for this position are (1) Master's Degree in Engineering, Mathematics, Biochemistry, or Life Sciences; and (2) a detailed understanding of mathematical and physical principles underlying chemical transfer processes in biological systems. Preferred candidates will have (1) a Ph.D. in some areas; (2) a general understanding of the kinetics and toxicology of xenobiotics; and (3) experience in the development and application of physiologically based pharmacokinetic models. Duties will include the development of mathematical descriptions of uptake, distribution, metabolism (and other chemical interactions), and elimination of chemicals in biological systems; the incorporation of developed mathematical descriptions into computer programs using simulation software; the preparation of written results of studies for presentation to customers and for publication in peer reviewed journals; and guidance to laboratory personnel for the design of experiments and collection of data essential model validation. ManTech Environmental offers competitive salaries and a complete benefits package. Qualified applicants please submit current resume, with cover letter including salary requirements, to: Ms. Lois Doncaster, Human Resources/01, ManTech Environmental Technology, Inc., a ManTech International Company, P.O. Box 31009, Dayton, OH 45437-0009. ManTech Environmental Technology, Inc. is an Equal Opportunity Employer.
**Virology Scientist IV**

Baxter Biotech Immunotherapy Division, Baxter Healthcare Corporation's R&D start-up division, seeks an energetic individual who can contribute effectively in a multi-disciplinary R&D environment.

This motivated individual shall participate in virus risk reduction studies and technology development in the area of Virology. The position requires an MS in Virology, Microbiology, Biology, Biochemistry or related field with 3 to 5 years experience in viral assays process validation and/or viral inactivation technology, or PhD with 1 to 3 years experience. Strict interpretation and compliance with sterile techniques and biohazard containment are required. Understanding of GLP/GMP along with excellent written and oral communication skills are required. Computer literacy would be beneficial.

The name Baxter Healthcare Corporation is synonymous with products, systems and services devoted to improving health care throughout the world. We are a Fortune 100 company providing a smoke-free environment, competitive compensation and benefits. Please send your resume in confidence to: Baxter Biotech Immunotherapy Division, Human Resources Dept., 1710 Flower Avenue, Duarte, CA 91010. Employment is contingent upon the result of a drug screening test. An Affirmative Action/Equal Opportunity Employer.

**Immunotherapy Division**

---

**PHYSICIAN RESEARCH DIRECTOR**

Excellent opportunity to be the Medical Director of a clinical research program for the person capable of initiating and managing a research program limited to women’s diseases. You will be associated with one of the largest nonprofit women and infants’ specialty hospitals with a newly established research division. Researchers must have demonstrated success in receiving grants and contracts with NIH or other federal agencies. Opportunities exist to collaborate with other researchers in the region including New Orleans, Houston, and Birmingham, as well as on-going research projects with Bowman-Gray and other institutions. Live in a university city of 450,000 with many cultural amenities, other major research institutions and mild winters. Please submit curriculum vitae, a statement of research background and interests, a list of projects completed with sources of funding and dollar value, salary expectation, and date of availability. Compensation package attractive and flexible. Please respond by January 31 to: Phyllis Greenblatt, Research Director, Woman's Hospital, Post Office Box 95009, Baton Rouge, Louisiana 70895-9009.

*Woman's Hospital*

Equal Opportunity Employer

---

**VERTEBRATE COMPARATIVE ENDOCRINOLOGIST**

Department of Integrative Biology
University of California at Berkeley

Applications are invited for a tenure-track position as Assistant Professor starting July 1, 1994. Candidates should have demonstrated excellence, originality and productivity in research in vertebrate comparative endocrinology, and should have a strong interest in undergraduate and graduate teaching. The appointee will join an active, interdepartmental group in endocrinology and will be part of a broader program in integrative comparative biology involving cellular, organismal and evolutionary biology with laboratories in the new Valley Life Sciences Building. Teaching responsibilities will include participation in general and/or comparative endocrinology courses in the human biology program.

Applications, including a curriculum vitae, a list of publications, a reprint of the three most significant publications, a brief (2 pages maximum) statement of research and teaching objectives, and three letters of evaluation should be sent to: Chair, Endocrinology Search Committee, Department of Integrative Biology, University of California, Berkeley, CA 94720.

The closing date for receipt of applications is January 1, 1994. Early applications are encouraged.

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

---

**Research Scientist**

Involves design and interpretation of molecular experiments for disease gene localization and identification. Projects will employ 'positional cloning' to delimit the disease locus and contemporary methodologies to survey cloned genomic sequences for their transcriptional potential. Position will be 50%-70% benchwork plus management of Research Associate.

Requires Ph.D. in Molecular Biology, Genetics or Biochemistry with 2-3 yrs. post-graduate experience. Expertise should extend beyond conventional molecular methodologies and include many of the following skills: genomic library construction and use with YAC or BAC vectors, genetic linkage analysis, DGGE-SSCP, cDNA library construction and use, PCR, RT-PCR, FISH, PGPE, sequencing and expression cloning.

Integrated Genetics offers excellent compensation and benefits that include incentive stock options. Please contact Markey Burke, Dept. 51022, Integrated Genetics, One Mountain Road, Framingham, MA 01701-51022.

*An equal opportunity employer.*

---

**Baxter Biotech Immunotherapy Division, Human Resources Dept., 1710 Flower Avenue, Duarte, CA 91010. Employment is contingent upon the result of a drug screening test. An Affirmative Action/Equal Opportunity Employer.**
Purdue University invites applications and nominations for the position of Dean of the School of Agriculture.

Established in 1869, Purdue is Indiana's land-grant university. The School of Agriculture is organized into four principal administrative units, each under an associate dean and director: Academic Programs, Agricultural Research, Cooperative Extension, and International Programs. The School has an annual budget of approximately $95 million, employs over 900 professional and professional staff members and enrolls 2,100 undergraduate students and 500 graduate students.

The Dean's primary mission is to provide vision and leadership in the School, promoting an environment optimal for the pursuit of excellence in teaching, research and service. As chief executive officer of the School, the Dean actively represents the School to a variety of constituents inside and outside the University, and is responsible for many regulatory functions that are often found in state departments of agriculture. The Dean reports directly to the Executive Vice President for Academic Affairs and works closely with other deans, vice presidents and the President.

Qualified candidates will possess an earned doctoral degree, present a distinguished record of scholarship appropriate for a tenure full Professorship, have demonstrated excellence in administration, and have a working knowledge of state and national funding environments. They will be sensitive to all constituencies served by the University and be able to articulate and advocate the goals of the School.

Nominations or letters of interest should be sent to:
Dean Harry A. Morrison
Chair of the Search Advisory Committee
Science Administration
Math Science Building
Purdue University
West Lafayette, Indiana 47907-1390

Screening will commence December 1, 1993, and continue until this position is filled. Questions regarding the position can be addressed to Dean Morrison at (317) 494-1730.

Purdue University is an equal opportunity-affirmative action employer. Minority and women candidates are especially encouraged to apply.

---

EMBL

The European Molecular Biology Laboratory, an international research organization situated in Heidelberg, Germany, has a vacancy for a

GROUP LEADER

The Cell Biology Programme at the EMBL invites applications for a group leader position. We are especially interested in, but not restricted to, candidates with a strong research background in the following areas: membrane trafficking in eukaryotic cells; the cell biology of the cytoskeleton and nuclear envelope structure and function.

Candidates should submit curriculum vitae including a description of current and future goals and arrange for three letters of recommendation to be sent to the Personnel Section, quoting reference no. 93/30. The deadline for receipt of applications is 1 December 1993. Further information can be obtained from Kai Simons, Programme Coordinator (tel: +49 6221 387 334).

As an inclusive international organization, EMBL encourages applications from women and nationals of Southern European or other currently underrepresented member states.

---

STANFORD UNIVERSITY

COMBINED ADMISSIONS MODE IN BIOLOGICAL AND BIOMEDICAL SCIENCES

In addition to entering a given program directly, students may now opt to enter graduate study in the biological and biomedical sciences through the Combined Admissions Mode or CAM. This program enables a small number of select students to begin graduate study at Stanford University without first committing to a given department or program. During the first year, following a series of "rotations" in various departments, CAM students select a thesis advisor and program in which to complete the Ph.D. The flexibility and breadth offered by CAM should appeal to those who view two or more departments or programs as equally attractive. Participating programs are:

DEPARTMENTAL: INTERDEPARTMENTAL:
Biochemistry Biophysics
Biological Sciences Cancer Biology
Cell Biology Immunology
Chemistry Medical Information Sciences
Developmental Biology Neurosciences
Genetics Pharmacology
Microbiology and Immunology Molecular and Cellular Physiology

More information and application forms for CAM can be obtained from: Office of Graduate Admissions, Old Union, Room 137, Stanford University, Stanford, CA 94305-3005. Deadline for receipt of completed applications is Dec. 15, 1992.

Stanford University is committed to the principles of Affirmative Action and welcomes applications from students of either sex and any race, color, religion, sexual orientation or national and ethnic origin.
**BRAIN IMAGING RESEARCH OPPORTUNITIES**

The Neuroimaging and Drug Action Section, Addiction Research Center, National Institute on Drug Abuse (NIDA) of the National Institutes of Health (NIH) has opportunities in the area of medical image processing for research fellows under the Intramural Research Training Award (IRTA) and/or research associates under the Postdoctoral Research Associateship Program conducted by the National Research Council (NRC). The research involves developing new modalities for analysis of medical images (PET and MRI) including image registration techniques and statistical analysis of change distributions. The applicant will work with an established PET team using components of the NIH Multimodality Image Processing System (MRIPS) to implement analysis algorithms. A Ph.D. in Physic or Electrical Engineering, with a strong background in computerized image processing is required. Salary is commensurate with experience. Opportunities at NIH are open to all citizens of the United States and to foreign nationals who hold an Immigrant (Permanent Resident) Visa. The environment is smoke-free and drug-free. To apply, send a curriculum vitae, summary of research interests, publication list, and names of four scientists who can provide reference of scientific work to:

Dr. Edythe D. London, Ph.D.
NIDA
Addiction Research Center
P.O. Box 5180
Baltimore, MD 21224

NIH is an Equal Opportunity Employer

---

**Environmental Sciences**

Located in Las Vegas, Nevada, the Environmental Sciences Department of EG&G Energy Measurements assesses, monitors, and mitigates impacts of U.S. Department of Energy sponsored activities on biological resources at the Nevada Test Site.

We are seeking scientists who possess advanced knowledge of arid-land reclamation methods/research, animal ecology or plant ecology; impact monitoring/assessment; and strong management and quantitative skills. MS or PhD degree candidates are preferred.

**Reclamation Scientist**

Candidate will conduct field surveys and develop site-specific reclamation plans as well as design/implement field studies and monitoring programs related to native vegetation associations, natural succession, and reclamation field trials. Requires experience in soil profile descriptions, topsoil salvaging, and revegetation success monitoring.

**Animal Ecologist**

Candidate will design and conduct field studies and impact monitoring programs related to desert tortoises and other animal species as well as assist with developing/implementing mitigation techniques. Requires specialization in animal ecology and population dynamics.

**Plant Ecologist**

Candidate will conduct monitoring studies of vegetation communities, assist in managing/analyzing vegetation monitoring data as well as assist/monitor reclamation of disturbed sites. Requires specialization in plant or range ecology and plant-soil-water relationships.

EG&G Energy Measurements, Inc. offers a competitive salary ($32,670 - $50,640 based on job title and experience) and benefits package. Please send resumes to: EG&G Energy Measurements, Inc., Attn: Alma Vela-Belmonte 19/93, P.O. Box 1912, M/S C1-21, Las Vegas, NV 89125.

An equal opportunity employer. U.S. Citizenship and a pre-employment examination, which includes a drug screening, are required.
FELLOWSHIP PROGRAMS
UNITED STATES - ISRAEL

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

The POSTDOCTORAL FELLOWSHIP PROGRAMS provides support for candidates who are citizens of either the United States or Israel and who have fulfilled the requirements for the Ph.D. degree within the last three years. American candidates must carry out their fellowship research in Israel and Israeli candidates must carry out their fellowship research in the United States. The initial award is for one year and under certain conditions, a one year extension will be considered. The award for the first year is $27,000 for living and travel expenses and it is paid directly to the fellow. An allowance not exceeding $3,000 may also be paid to the host institution for operating expenses incurred in the research.

The RESEARCH FELLOWSHIP PROGRAM is intended to support citizens of the United States who are established research scientists in American non-profit research institutions, universities or federal and state agencies during a period of 4 to 12 months in Israel. The grant is $3,000 per month and will be paid in coordination with the base institution of the fellow. One round trip air ticket will be provided.

Applications for either program must reach BARD's offices by January 15.

For information on application procedures please contact BARD's offices at:

BARD
USDA-ARS-OIRP
Room 102, Bldg. 005, BARC-West
Beltsville, MD 20705
U.S.A.
Tel: 301-504-5605
Fax: 301-504-5298

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

Associate Provost and Vice President for Research
Auburn University

Auburn University invites nominations and applications for the position of Associate Provost and Vice President for Research at its main campus in Auburn, Alabama. Women and minorities are encouraged to apply.

Auburn University has received increasing recognition nationally and internationally as a comprehensive land-grant university. Under new leadership, it is strategically poised to become an eminent public university, strongly committed to the pursuit of excellence in teaching, research, and extension. The Auburn University main campus offers 150 degree programs to approximately 22,000 students through 13 schools and colleges. The University has a major commitment to research.

The Associate Provost and Vice President for Research reports to the Provost and Vice President for Academic Affairs and is responsible for the overall research program of the university. This involves planning, developing, budgeting and administering the current and future research activities characteristic of a major land-grant research university. In addition, it involves evaluating and benchmarking the many university research programs in order to insure continuous improvement in institutional as well as program research productivity. It is also the responsibility of this individual to work closely with other associate provosts and extension programs to advance the state, the nation and the world in the twenty-first century.

Candidates must hold a Ph.D. degree or its equivalent and must have a distinguished record of academic achievement and qualifications for appointment as tenured professor within one of the campus academic units. Candidates must also possess a commitment to scholarship in all University programs, a national reputation in research or research management, and strong communications skills. Preference will be given to candidates who have administrative experience, are familiar with research funding sources and have established a record of sustained funding from competitive sources.

Review of candidates will begin on December 1, 1993. Nominations and applications should be sent to:
Dr. William E. Walker,
Chair
Associate Provost/Vice President for Research Search Committee
108 Ramsay Hall
Auburn University
Auburn, Alabama, AL 36849-5330

Auburn University is an affirmative action, equal opportunity employer.

Fermentation Process
Development Scientist

ALEXION PHARMACEUTICALS, INC., is an innovative, dynamic and rapidly growing biotechnology company engaged in the discovery and development of novel therapeutics for the treatment of cardiovascular, hematologic and immunologic diseases. An opportunity exists for an Associate Fermentation Scientist in the Process Development Program who will perform fermentation of novel immunotherapeutics in accordance with Good Manufacturing Practice.

Candidate must have hands-on experience in development and scale-up of recombinant E. coli fermentation processes. Experience should encompass 1-5 years in production and scale-up of biologics from recombinant bacteria. GMP experience preferred. Academic credentials must include B.S./M.S. Knowledge of analytical methods, including SDS-polyacrylamide gel electrophoresis, is desired.

We offer a competitive salary and benefits package, relocation assistance and a generous stock option plan. For exciting growth and career development, please send your curriculum vitae and the names of three references to:

Alexion Pharmaceuticals
Human Resources, Bin-FPD
25 Science Park
New Haven, CT 06511

alexion@alexion.com

Assoc Provost and Vice President for Research
Auburn University

Auburn University invites nominations and applications for the position of Associate Provost and Vice President for Research at its main campus in Auburn, Alabama. Women and minorities are encouraged to apply.

Auburn University has received increasing recognition nationally and internationally as a comprehensive land-grant university. Under new leadership, it is strategically poised to become an eminent public university, strongly committed to the pursuit of excellence in teaching, research, and extension. The Auburn University main campus offers 150 degree programs to approximately 22,000 students through 13 schools and colleges. The University has a major commitment to research.

The Associate Provost and Vice President for Research reports to the Provost and Vice President for Academic Affairs and is responsible for the overall research program of the university. This involves planning, developing, budgeting and administering the current and future research activities characteristic of a major land-grant research university. In addition, it involves evaluating and benchmarking the many university research programs in order to insure continuous improvement in institutional as well as program research productivity. It is also the responsibility of this individual to work closely with other associate provosts and extension programs to advance the state, the nation and the world in the twenty-first century.

Candidates must hold a Ph.D. degree or its equivalent and must have a distinguished record of academic achievement and qualifications for appointment as tenured professor within one of the campus academic units. Candidates must also possess a commitment to scholarship in all University programs, a national reputation in research or research management, and strong communications skills. Preference will be given to candidates who have administrative experience, are familiar with research funding sources and have established a record of sustained funding from competitive sources.

Review of candidates will begin on December 1, 1993. Nominations and applications should be sent to:
Dr. William E. Walker,
Chair
Associate Provost/Vice President for Research Search Committee
108 Ramsay Hall
Auburn University
Auburn, Alabama, AL 36849-5330

Auburn University is an affirmative action, equal opportunity employer.

GRADUATE PROGRAM
CELL BIOLOGY

• Cell Adhesion
• Cancer Biology
• Nervous System Plasticity
• Regulation of Gene Expression
• Reproductive Biology

The Department of Cell Biology at Georgetown University Medical Center has a very active Ph.D. program in cell and molecular biology stressing basic research in the above areas. Full tuition and competitive stipends are available. Please contact:

Dr. Stephen Byers
Director of Graduate Studies
Department of Cell Biology
Georgetown University Medical Center
3900 Reservoir Road, N.W.
Washington, D.C. 20007

Phone: 202-687-1157

MINORITY APPLICANTS ARE ENCOURAGED
**Sr. Scientist** - Microbiology Program

The candidate should possess a Ph.D. in Microbiology, Immunology or Biochemistry with at least three years hands-on experience in developing murine monoclonal antibodies. Familiarity with the following techniques is also required: handling infectious microorganisms; preparation of immunogens; immunization of experimental animals; hybridoma fusion, screening and cloning; evaluation of antibodies in animal models; and in-vitro cultivation of microorganisms.

**Scientist** - Molecular Biology

The candidate should have a Ph.D./MS, knowledge in immunoglobulin gene manipulation and expression both in prokaryotic and eukaryotic systems. Job duties include:

1. Design and Construction of Various Prokaryotic and Eukaryotic Expression Vector - Should be proficient in: cloning, subcloning, plasmid DNA prep, sequencing, PCR and other basic techniques in Molecular Biology.
2. Mammalian Expression of Recombinant Proteins - Should be familiar with tissue culture, transfection and the subsequent analysis of the expressed proteins.
3. Bacterial Expression of Heterologous Proteins - Should have experience in expression, purification and analysis of recombinant proteins in E. coli. Proficiency in immunoblotting, immunoprecipitation and ELISA assay is an advantage.

For prompt consideration, send your resume and salary requirements to:

**IMMUNOMEDICS, INC.**

**ESTABLISHING THE GOLD STANDARD FOR IMMUNODIAGNOSIS AND IMMUNOTHERAPY**

---

**Career Opportunities in Drug Discovery**

Oncogene Science is a leader in the field of small molecule drug discovery by automated high-throughput screening of chemical files, natural products and combinatorial libraries. We have pioneered the development of such screens for the identification of novel drugs which act by modulating the transcription of physiologically important genes.

**Senior Scientist Hematopoiesis**

We are expanding our hematopoiesis research group and require a senior scientist with extensive postdoctoral experience in the regulation of hematopoietic growth factors and/or their receptor proteins. A strong background in molecular genetics, proven organizational and communication skills, and a broad knowledge of hematopoiesis are essential.

We anticipate applicants to be either from industry or to have the position of assistant/associate professor in academia. However, postdoctoral candidates with outstanding track records are also encouraged to apply.

Oncogene Science offers an excellent compensation and benefits package. Equal opportunity employer.

Oncogene Science
106 Charles Lindbergh Blvd., Uniondale, NY 11553
Attn: AD

---

**We’re Changing Millions of Lives. Now It’s Your Turn.**

At Lederle-Praxis Biologicals, a division of American Cyanamid Company, we’re pioneering the design, manufacture and marketing of vaccines so sophisticated, they’re changing lives—right now. Here, you’ll help improve the quality of a lot of lives. Including your own. Our research facility, located in a suburb of Rochester, NY, is within easy reach of some of New York State’s most attractive cultural, educational and recreational resources.

**Sr. Research Scientist**

**Peptide Chemistry**

Working in a multidisciplinary environment, you will supervise the Peptide Chemistry Group in the biological applications of peptides in vaccine research for a variety of ongoing projects. This group will be responsible for performing automated solid phase peptide synthesis, synthesis and purification of peptides, amino acid analysis and protein sequencing.

To qualify, you should have a Ph.D. or equivalent and a minimum of 3 years experience in biochemistry with related experience in peptide synthesis and/or sequencing and amino acid analysis.

At Lederle-Praxis, you’ll enjoy a professional atmosphere and the kind of salary and benefits package you’d expect from a industry leader. Please send your resume to: Human Resources Department, Lederle-Praxis Biologicals, 211 Bailey Rd., West Henrietta, NY 14586-9728. An Equal Opportunity Employer.

---

**ZymoGenetics**

**Scientist-Preclinical Studies**

ZymoGenetics, a Seattle based biotechnology company making important strides in the development and clinical evaluation of therapeutic products is currently seeking a Scientist to identify, characterize and perform efficacy studies in appropriate animal models for pre-clinical evaluation of novel drug products.

The successful candidate will possess a Ph.D, MD or DVM and 2+ years related experience with animal models and in vivo pharmacology (hemostasis/thrombosis, inflammation, autoimmune disease or immunology preferred). Strong written/oral communications and versatility are essential.

As a subsidiary of NOVO NORDISK, the world's largest manufacturer of insulin, ZymoGenetics offers an exciting environment characteristic of a small research and development company, along with the scope and stability of a large pharmaceutical corporation. We also offer intellectual challenge, state-of-the-art facilities and a generous benefits package. Please apply by sending your CV to:

ZymoGenetics
Attn: Human Resources #21R493
4225 Roosevelt Way NE
Seattle, WA 98105
ZymoGenetics is an Equal Opportunity Employer.
**POSITIONS OPEN**

**LUCKY BIOTECH RESEARCH INSTITUTE**

Applications are invited for staff scientist positions in Cellular Immunology and Molecular Biology. Immunology candidates with experience in CTL analysis and hybridoma technology are preferred. Molecular biologists with expertise in one of the following are encouraged to apply: mammalian gene expression, receptor biology, thrombogenesis, cardiovascular disease, and tumor biology. Scientists who are working on projects with commercial potential are also welcome to apply.

We offer a highly competitive salary and excellent benefits including a decent apartment and generous relocation assistance. Fluency in Korean is required. Our new modern facility located in Daekok Science Town in KOREA will open in November of 1993. For consideration, please send curriculum vitae, and the names of three references to: Dr. Joong Myung Cho, Director, Lucky Biotech Corp., 5915 Hollis Street, Emeryville, CA 94608. Telephone: 510-653-0734, (FAX): 510-653-5083.

**EVOLUTIONARY GENETICIST—**The Department of Biology at New Mexico State University seeks to fill a tenure-track position in plant evolutionary genetics for fall 1994. Candidates with expertise in quantitative genetics and/or molecular genetics are especially encouraged to apply. The successful candidate will develop a vigorous research program and will teach at the graduate and undergraduate levels. The Department of Biology has a flourishing program in ecology and evolution and attracts excellent graduate students. Submit curriculum vitae, concise statements of research and teaching interests, and the names, addresses, and telephone numbers of at least three references to: Dr. Daniel J. Howard, Genetics Search Committee, Department of Biology, New Mexico State University, Las Cruces, NM 88003. Deadline for applications: November 19, 1993. New Mexico State University is an Equal Opportunity/Affirmative Action Employer. Women and minorities are encouraged to apply.

**RADIOCHEMIST**

Qualifications: Nuclear Chemist or Radiochemist. Position and salary dependent on experience and qualifications. Candidate must have Ph.D. degree with experience in working with high levels of radioactive nuclides. Background in labeling with radio-halogen is desirable. Work entails labeling monoclonal antibodies with asta-tine for radioimmunotherapy of cancer. Research work will be performed in collaboration with Dr. William Eckelman, Otto Gansow and Thomas Waldmann at the NIH.

Send curriculum vitae, or for further information contact: Ms. Jean Decker, Metabolism Branch, WCI National Institutes of Health Building 10, Room 4N118 Bethesda, MD 20892 Telephone: 301-402-1898 National Institutes of Health, Public Health Service. NIH is an Equal Opportunity Employer.

**ANNOUNCEMENTS**

**PHARMACEUTICAL DESIGN: ANTI-SENSE, TRIPLE HELIX, NUCLEIC ACID BINDING DRUGS.**


**COMPUTER MARKETPLACE**

**Cyrillic**

The ideal software for creating family trees and managing genetic information (Requires Windows)

Call Cherwell Scientific TODAY for a free demonstration disk!

In the USA call (817) 277-4200 In Europe call +44 (0)9635 798400

Circle No. 62 on Readers’ Service Card

**STATISTICAL SOFTWARE**

Accurate, easy to learn. For MS-DOS. Includes t-tests, ANOVA, chi-square tests, DOE, survival analysis, sample size and power analysis, curve fitting, graphics, more. Spreadsheet-style interface. Transfer graphics to other programs. Thousands of users. Base system: $125. Complete: $395. Ask for Dr. Hintze (PhD statistician) at (801) 546-0445. FAX: (801) 546-5907. NCSS, 329 North 1000 East, Kaysville, UT, 84037.

Mention this ad to receive 10% discount.

Circle No. 47 on Readers’ Service Card

**MAGNETIC mRNA ISOLATION**

**Purification Kit for $195.00**

**BIOMAG® 1μm PARTICLES for CELL SEPARATIONS**

**call (800)343-1346,** (617)617-9917-9702

**ADVANCED MAGNETICS, INC.**

Circle No. 15 on Readers’ Service Card

**CUVETTES PLUS®**

Low Cost, Disposable Electroporation Cuvettes

Each individual sterile package includes a pipette for easy sample handling

**BIX**

**1-800-289-2465 FAX 619-597-9594**

Circle No. 19 on Readers’ Service Card

**MARKETPLACE**

**Custom DNA Synthesis**

$1.99 per base, no setup charge!

150 μg DNA, desalted and ready to use:

(619) 789-9487 for information

ransom hill bioscience, Inc.

Circle No. 63 on Readers’ Service Card

**CUSTOM ANTIBODIES TO PEPTIDES & PROTEINS**

Purification, Conjugation and ELISA Titration Available

HTI BIO-PRODUCTS, INC.

1 (800) 481-9737 OR (617) 788-9691 Fax (617) 788-9694

Circle No. 27 on Readers’ Service Card

**NEW**

**TRIPLE CHECK™**

A tip you can count on...

...to save money on enzymes

800-424-6101

FAX 819-598-0116

Circle No. 13 on Readers’ Service Card

**KEYSTONE Laboratories, Inc.**

The Complete Oligonucleotide Company

Custom DNA Synthesis $3.50/base

No setup fee • Delivered in 24 hrs

Call or Fax for information about quantity discounts and for our complete product list.

Tel. 1-800-788-4DNA • Fax 1-800-786-4DNA

Circle No. 28 on Readers’ Service Card

**MicroSect™ Genetic Systems, Inc.**

Microdissected Chromosome Libraries

Fluorescent DNA Probes

Humans, Plants and Other Animals

INQUIRE: FAX 800-243-2944

Circle No. 39 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. 1 on Readers’ Service Card
Amplification of HLA DRB producing a 272 bp product.

M = BioMarker Low

1 = GeneReleaser treated 120 day old whole blood stored at 4°C.

2 = Same as 1 without GeneReleaser.

3 = GeneReleaser treated 120 day old whole blood stored at -20°C.

4 = Same as 3 without GeneReleaser.
For expression, detection and purification of recombinant proteins, one marker stands out.

**The IBI FLAG® Marker Peptide.** For some, recognition of the FLAG marker by the Anti-FLAG® monoclonal antibodies is a means for studying protein-protein and protein-DNA interactions, protein surveillance and ultrastructure. For others, the FLAG marker is a means for rapid affinity purification. But, whatever your application, no one gives you more control over your protein research where it matters most.

**Versatile Immunological Detection.** Proven detection methods include immunoblotting, immunoprecipitation and immuno-coprecipitation, ELISA, immunofluorescence, light microscopy, mobility shift and FACS, to name a few.

**Affinity Purification without Loss of Biological Activity.** Affinity purification involves binding and elution of the FLAG fusion protein from an Anti-FLAG Affinity Gel using mild conditions. Elution involves either EDTA, a chelating agent, or competition with FLAG peptide.

**Get a Handle on Your Protein Research.** See for yourself how the FLAG system is already delivering results for researchers in your field. Call our Technical and Information Services Group for our free brochure on immunological detection and immunoaffinity purification at (800) 243-2555. Outside the U.S (203) 786-5600, Fax (203) 624-3143. We also have a brochure which describes our complete line of E. coli FLAG Expression Kits. You may order FLAG products through a local VWR Scientific Office, our Customer Service Group at (800) 225-5352 or one of our international distributors located worldwide.

**Laboratory and Research Products**

Australia/New Zealand: Integrated Sciences Ltd (02) 436 26 11 Canada: Intersciences Inc (800) 961-6431 (92) 340-1511 Denmark: KEBO Lab A/S (44) 68 72 00 Finland: KEBO Lab OY (90) 80 4 46 00 France: Tecnomara France S.A. (1) 39 59 84 23 Germany: Tecnomara Deutschland GmbH (06404) 80 90 India: Biotech India (542) 31 17 72 Israel: TAMAR Ltd (02) 62 22 79 Italy: M-Medical srl (052) 33 51 022; Centro Ltda (02) 54 25 7772; Riken Kogyo Co., Ltd (01) 33 45 21 77 Korea: KBS Laboratories Inc (02) 944 96 97 Norway: KEBO Lab AS (222) 90 30 04 Portugal: Quimigrenal, Lda (1864-5034) Quimigrenal, Ltda (01) 586 16 14 Sweden: KEBO Lab AB (08) 621 34 00 Switzerland: Austria/BioLooz Techomara AG (01) 850 22 77 Taiwan: Janson Technology Co., Ltd (02) 363 9113 United Kingdom: IBI Limited (020) 2324 49 15

FLAG and Anti-FLAG are registered trademarks of Immunex Corporation.