### POSITIONS OPEN

**ASSISTANT PROFESSOR BIOLOGICAL PESTICIDOPHYSIOLOGIST**

The Department of Chemistry and Biochemistry invites applications for an Assistant Professor, Step I-III, beginning Fall 1993, dependent on availability of funding. Salary range: $35,900 to $38,800, 9-month basis. Candidates must be able to teach one course in biochemistry, biology, or related field. A demonstrated record of research excellence, outstanding potential for independent research in physical chemistry, a Ph.D. degree, and a commitment to teaching at the undergraduate and graduate levels is required. Postdoctoral experience preferred. Applications will be accepted until December 1, 1992.

**ASSISTANT PROFESSOR, IMMUNOBIOLOGY OF INFECTIOUS DISEASES AND VIRAL OR BACTERIAL PATHOGENS, UNIVERSITY OF NORTH CAROLINA AT CHAPEL HILL**

The Department of Microbiology and Immunology invites applications for an Assistant Professor position in the Department of Microbiology and Immunology. The successful candidate will have a strong background in molecular biology and/or immunology, and significant experience in teaching and research. The initial appointment will be for a three-year term with the possibility of renewal. Applicants should submit a curriculum vitae, statement of past and current research interests, and the names and addresses of three references. Applications should be submitted no later than December 1, 1992.

**BOTANIST: PLANT PHYSIOLOGY/DEVELOPMENT**

A tenure-track position in Plant Physiology/Development is available in the Department of Botany at the University of Illinois. The successful candidate will be expected to develop an active and externally funded research program. Applicants should have a Ph.D. in Botany or a related field and a strong background in plant physiology and development. Applications should include a curriculum vitae, statement of research interests, and the names of three referees. The position will be available August 1, 1993. Applications should be submitted to: Dr. James A. Crouch, Chair, Search Committee, Department of Botany, University of Illinois, 1310 West Green Street, Urbana, IL 61801. Review of applications will begin January 15, 1993. The University of Illinois is an Equal Opportunity Employer, and encourages women and minorities to apply.

**CELL BIOLOGIST at the INSTRUCTOR or ASSISTANT PROFESSOR level**

Candidates with postdoctoral experience and ability to perform independent research preferred. The Department of Otolaryngology, University of Louisville School of Medicine, Department of Otolaryngology, School of Medicine, is seeking a cell biologist with experience in molecular and cellular biology. The candidate will be expected to develop an independent research program and be able to teach. Applications should include a curriculum vitae, statement of research interests, and the names of three referees. The position will begin July 1, 1993. The University of Louisville School of Medicine is an Equal Opportunity Employer and encourages women and minorities to apply.

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### POSITIONS OPEN

**FACULTY POSITION IN MOLECULAR PESTICIDE DEVELOPMENT**

The Department of Biology at Penn State University invites applications for a tenure-track ASSISTANT PROFESSOR starting fall, 1993. We seek a person working in molecular and genetic plant development. A Ph.D. degree is required. Applicants must have a strong background in plant molecular biology, with emphasis on developmental genetics of model systems, molecular analyses of development with large-scale DNA technology, and molecular analysis of transcriptional regulation. Significant research accomplishments and evidence of potential to establish an independent research program are key considerations. Applicants should send curriculum vitae, statement of research plans, and three letters of reference to: Search Committee, Department of Biology, 202-682-0816, Penn State University, PA 16802-5301. Evaluations begin November 12 and will continue until the position is filled.

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**UNIVERSITY OF LOUISVILLE SCHOOL OF MEDICINE**

**DEPARTMENT OF MICROBIOLOGY AND IMMUNOLOGY**

A tenure-track ASSISTANT PROFESSOR position in Molecular Bacterial Pathogenesis and Physiology is available for the Spring of 1993. Candidates should hold a Ph.D., D.V.M., or M.D. degree and have at least two years of postdoctoral research experience. The successful applicant will receive a $35,000 salary and be expected to establish an independent research program in molecular aspects of bacterial pathogenesis and physiology. Applicants should have a strong background in molecular biology and demonstrate the ability to attract external funding. Applications should include a curriculum vitae, statement of research interests, and the names of three referees to: Dr. Gordon D. Ross, Chair, Department of Microbiology and Immunology, University of Louisville, Louisville, KY 40292 by January 8, 1993. The University of Louisville is an Equal Opportunity Employer that specifically encourages applications from women and minorities.
POSITIONS OPEN

ASSISTANT PROFESSOR OF BIOCHEMISTRY

Applications are invited for a tenure-track position beginning Fall 1993 for an individual with expertise in the area of chemical biology or molecular biology. The successful applicant will be expected to teach courses in biochemistry and microbiology, to perform research in chemical biology, and to have a Ph.D. degree. The candidate must have a strong background in organic chemistry and enzymology, and a working knowledge of molecular biology. The successful applicant will be appointed at the Assistant Professor level, beginning Fall 1993. The University is an Equal Opportunity/AA employer.

EMORY UNIVERSITY, ANALYTICAL CHEMISTRY FACULTY POSITION

The Department of Chemistry at Emory University invites applications and nominations for a tenure-track position in Analytical Chemistry at the Assistant Professor level. An appointment at a higher level will be considered for an outstanding candidate. Emory University's College of Arts and Sciences is a vibrant academic community that is committed to excellence in both teaching and research. Emory University is an Equal Opportunity/Affirmative Action employer.

PULTRY NUTRITIONIST

The Department of Poultry Science at the University of Georgia invites applications for a position in poultry nutrition at the rank of Associate Professor or Professor. The successful candidate will be expected to develop an outstanding nutrition research program in coordination with the College of Agricultural and Environmental Sciences. The candidate will be expected to teach courses in poultry science and to participate in graduate teaching and mentoring of graduate students. The University of Georgia is an Equal Opportunity/Affirmative Action employer.

DEVELOPMENTAL NEUROPHYSIOLOGY/NEUROPHARMACOLOGY

ASSISTANT PROFESSOR, tenure-track, to establish a program in developmental neurophysiology/neuropharmacology. Applications are invited from individuals with expertise in effects of toxic insults or early (neurochemical behavioral) drug exposure and CNS dysfunction. Send curriculum vitae and research plans to: Dr. William Rayburn, Professor and Chair, Department of Neuroscience, Emory University School of Medicine, Atlanta, GA 30322. The search will continue until the position is filled. Emory University is an Equal Opportunity/Affirmative Action employer.

ASSISTANT PROFESSOR, EUKARYOTIC BIOCHEMISTRY

Johns Hopkins University

The Department of Biochemistry invites applications for a tenure-track position at the Assistant Professor level available starting July 1, 1993. Outstanding candidates are expected to have the Ph.D. and/or M.D., degree, and postdoctoral research experience. The Department is interested in hiring a candidate with expertise in the area of eukaryotic biochemistry. Candidates with a strong background in molecular biology and genetics are encouraged to apply. The successful candidate will be expected to establish a productive research program and to teach courses in biochemistry. The University of Maryland is an Equal Opportunity/Affirmative Action employer.

ASSISTANT PROFESSOR OF ANATOMY

Applications are invited for a full-time, tenure-track position currently available at the Assistant Professor level in the Department of Anatomy. Applicants must have a Ph.D., M.D., or equivalent degree with at least two years of postdoctoral experience. We are seeking a candidate with expertise in the field of neuroanatomy. Applications will be considered. The University of North Carolina is an Equal Opportunity/Affirmative Action employer.

AUSTIN COLLEGE

Two Assistant Professors Vertebrate Physiologist, Aquatic Scientist

Applications invited for two tenure-track positions. Assistant Professor level, beginning Fall 1993. Ph.D. required.

1) VERTEBRATE PHYSIOLOGIST to teach anatomy and physiology, freshman cell biology and advanced courses in physiology (human or comparative).

2) AQUATIC ECOLOGIST with expertise in invertebrate biology to teach courses in molecular and organismal biology and advanced courses in ecology and invertebrate biology. Both individuals will also participate in college-wide research programs involving undergraduates. Strong commitment to undergraduate teaching essential. Send curriculum vitae, statement of teaching goals, transcripts and three letters of reference to: Department of Biology, Austin College, P.O. Box 1177, Sherman, TX 75091-1177. Review of applications will begin December 1, 1992. Equal Opportunity Employer.

NEW OPPORTUNITIES FOR MOLECULAR GENETICS

The Center for Human Genetics at Boston University School of Medicine (BUSHM) now offers new positions for Ph.D., molecular geneticists at the ASSISTANT or ASSOCIATE PROFESSOR level to analyze genet- ics data from human populations. Candidates will be expected to develop innovative research projects in their area of expertise. Candidates must have a Ph.D. degree and postdoctoral experience. Interested candidates should submit curriculum vitae and brief statements of research interest and plans to: Dr. Samuel Kaplan, Microbiology and Molecular Genetics, Boston University School of Medicine, East Concord Street, Boston, MA 02118. BUSHM is an Equal Opportunity/Affirmative Action employer.

UNIVERSITY OF CALIFORNIA, SAN FRANCISCO (UCSF)

Department of Psychiatry Assistant Professors

The Department of Psychiatry at UCSF is seeking one or two Assistant Professors with established sch• in laboratory research in areas of psychobiology that are currently lacking in the department. The department has a strong interdisciplinary program in psychobiology and psychiatry. The candidates must have a Ph.D. degree in neuroscience or a related field. The successful candidates will be expected to develop and maintain a strong, vigorous laboratory program. Joint appointment in the UCSF Department of Psychiatry is encouraged. Applications are invited from individuals with a strong background in psychobiology and psychiatry. The University of California, San Francisco, is an Equal Opportunity/Affirmative Action employer.

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THE UNIVERSITY OF IOWA IS AN EQUAL OPPORTUNITY/AFFIRMATIVE ACTION EMPLOYER.
Public Announcement
Regarding New Research and Development Projects
on Deep-seated Geothermal Resources

Announced by the New Energy and Industrial Technology Development Organization on October 15, 1992

In order to promote new energy technology, the New Energy and Industrial Technology Development Organization (NEDO) would like to inform all interested companies and research organizations regarding the research and development projects described below.

Theme of the Research and Development Projects and Outline of the Research and Development Work to be Entrusted

1. "Deep-seated Geothermal Resources Survey"
The objective of the project is to delineate deep-seated geothermal resources by drilling through an exploited geothermal reservoir, and to explore the capability of harnessing deep geothermal energy.

2. "Development of Drilling Technology"
The objective of the project is to develop the drilling technology to reach deep-seated geothermal reservoirs. The targets are as follows: 1) Drilling equipment and materials suitable for high-temperature and hard formations including: i) drilling bits, ii) drilling mud, and iii) cement slurry; and 2) Downhole motor for high-inclination directional geothermal wells.

3. "Development of Production Technology"
The objective of the project is to develop the geothermal fluids production technology from deep-seated geothermal reservoirs. The targets are as follows: 1) PTSD (Pressure, Temperature, Spinner and Density) logging technology; 2) Geothermal reservoir monitoring technology including: i) PTC (Pressure, Temperature and Chemical Components) monitoring system, ii) gravity monitoring system, iii) tracer monitoring system, and iv) scale monitoring system; and 3) Cooling logging technology.

Procedures for Application

1. Qualification Criteria
All companies or research organizations who meet the following qualification criteria may submit an application to participate in the above projects:
   1. The applicant must have previous research and development experience in the field covered by or related to the project and possess the organizational structure, human resources and research facilities required to carry out the project work.
   2. The applicant must be in sound financial condition and have the ability to manage its finances and facilities as necessary to smoothly carry out the project work.
   3. The applicant must be able to comply with NEDO’s instructions, if such are necessary, to fully carry out the project work.
   4. The applicant must attend the explanatory meeting held by NEDO as set forth in item (2) below or be represented at the meeting by a responsible agent or a representative who is capable of accurately conveying the contents of the meeting in detail.

2. Explanatory Meeting
An explanatory meeting will be held on the date shown below in order for NEDO to fully explain the details of the project’s research and development work to be entrusted and the application documents to be submitted. Japanese will be the only language used during the meeting.

Date:
Friday, October 30, 1992

Times:
14:00–15:30 "Deep-seated Geothermal Resources Survey"
15:30–17:00 "Development of Drilling Technology" and "Development of Production Technology"

Place:
NEDO’s Head Office
Sunshine 60 Building, 28th Floor, Room 28-11
1-1, Higashi-Ikebukuro 3-Chome
Toshima-ku, Tokyo 170

3. Remarks
   1. The results including patents and know-how derived from the projects entrusted shall be exclusively owned by NEDO.
   2. In accordance with the procedures and documents explained at the above meeting, the applicant must submit the application to NEDO’s Contract Division by 17:30 on December 15, 1992.

4. Further Information
For further information regarding the research and development work to be entrusted under the above projects, please contact NEDO by telefax as follows:

New Energy and Industrial Technology Development Organization
Contract Division, Accounting Department
Sunshine 60 Building, 28th Floor, Room 28-13
1-1, Higashi-Ikebukuro 3-Chome
Toshima-ku, Tokyo 170
Telefax: 03-5992-1184
POSITIONS OPEN

CARDIOVASCULAR FACULTY POSITION

The Cardiovascular Research Center, Division of Cardiology, and the Department of Physiology at Thomas Jefferson University, invites applications for a faculty position at the ASSISTANT PROFESSOR level with a primary appointment at the Department of Medicine/Cardiology with an ancillary appointment in the Department of Physiology. The successful candidate should have a Ph.D. or M.D. and at least two years of postdoctoral experience. The Center is seeking individuals with a strong record of research in basic or clinical topics in cardiovascular pathophysiology and an interest in teaching undergraduate and graduate courses. Excellent laboratory facilities and competitive salary will be provided.

The candidate is expected to develop a vigorous, independent research program and to participate in multidisciplinary research programs in vascular biology. Send curriculum vitae, statement of research plans, and three letters of recommendation sent to: Andrew Zaleski, M.D., Division of Cardiology, Thomas Jefferson University, 1025 Walnut Street, Philadelphia, PA 19107.

PLANT GENETICIST—The Department of Botany at the University of Vermont seeks applicants with exceptional research accomplishments for a tenure-track position at the ASSISTANT PROFESSOR level. The successful candidate should have a Ph.D. and ten years of postdoctoral and teaching experience. The candidate should have a research program that is innovative and uses modern approaches to study vascular plant genetics. The department is especially interested in individuals with research projects on the structure and function of genes that regulate vascular development.

The University of Vermont is an Equal Opportunity Employer and encourages applications from women and minorities. Applications should be sent to: Department of Botany, University of Vermont, Burlington, VT 05405. Applications must be received by November 15, 1993.

FACULTY POSITION IN BIOCHEMISTRY AND MOLECULAR BIOLOGY

The Biochemistry and Molecular Biology Department at the University of Texas M.D. Anderson Cancer Center invites applications for a faculty position at the ASSISTANT PROFESSOR level. The department contains a group of highly interactive cell and molecular biologists who have active graduate and postgraduate training programs. Individuals working in the areas of cell and developmental biology of mammalian and non-mammalian systems are especially encouraged to apply. Applications from Ph.D. or M.D. candidates with a strong record of accomplishments as a postdoctoral fellow or faculty member are encouraged. Please send curriculum vitae with statements of future research plans and three letters of reference to: Dr. Eric N. Olson, The University of Texas M.D. Anderson Cancer Center, Department of Biochemistry and Molecular Biology, (Box 117), 1515 Holcombe Boulevard, Houston, TX 77030. Equal Opportunity/Affirmative Action Employer, Smoke-free environment.

The Department of Chemistry at California State University (CSU) San Marcos has an opening at the ASSISTANT PROFESSOR level in BioCHEMIS-TRY. Candidates must have a Ph.D. in Chemistry/Biochemistry and postdoctoral experience is preferred. Possession of a strong publication record is required. Applicants should submit a letter of application, curriculum vitae, three letters of recommendation, a one-page statement of teaching philosophy, and a two-page outline of future research plans. CSU, San Marcos, CA 92096. Applicants should be especially encouraged to apply. Excellent faculty members at the San Marcos campus are especially encouraged to support diversity and to participate in the development of an active, independent research program and in the education of undergraduate and graduate students. Applications must be sent to: Dr. Steven J. Stull, Ph.D., Department of Chemistry, California State University, San Marcos, CA 92096.

POSITIONS OPEN

INORGANIC CHEMIST—The Chemistry Department at Williams College invites applications for an anticipated faculty position at the ASSISTANT PROFESSOR level. This position would be a tenure-track position at the ASSISTANT PROFESSOR level. Candidates are expected to have a Ph.D. in Inorganic Chemistry by August 1994 and a commitment to teaching at the undergraduate level and developing a productive research program. The teaching assignments will include 24 undergraduate students. Additional assignments will be from other courses in the curriculum consistent with the individual's background and interests. The salary will be competitive. A Ph.D. is required. All applications and letters of recommendation should be sent to: Chairman, Chemistry Department, Williams College, Williamstown, MA 01267, by January 15, 1994. All correspondence will be treated confidentially.

ANALYTICAL CHEMIST—The Chemistry Department at Williams College invites applications for an anticipated faculty position at the ASSISTANT PROFESSOR level. Candidates are expected to have a Ph.D. in Analytical Chemistry by August 1994 and a commitment to teaching at the undergraduate level and developing a productive research program. The teaching assignments will include 24 undergraduate students. Additional assignments will be from other courses in the curriculum consistent with the individual's background and interests. The salary will be competitive. A Ph.D. is required. All applications and letters of recommendation should be sent to: Chairman, Chemistry Department, Williams College, Williamstown, MA 01267, by January 15, 1994. All correspondence will be treated confidentially.

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Synergen is a research based biopharmaceutical company engaged in the discovery, development and production of protein based human pharmaceuticals. Synergen's recombinant technology focuses on naturally occurring human proteins that regulate body processes associated with disease.

Synergen is working to further scientific understanding of how the human body responds to inflammation, injury and disease, in order to produce pharmaceuticals that reduce mortality and help people who have illnesses that currently have no satisfactory treatment.

Current staffing needs include:

**SCIENTISTS**

**Formulations**
This scientist will work in the laboratory developing formulations for new protein therapeutics for clinical testing and work on advanced delivery systems for our more mature products which are in later stage clinical trials. Requirements include experience in protein chemistry, formulation, lyophilization or advanced delivery systems applicable to protein therapeutics.

**Molecular Biology**
This research scientist must have a thorough understanding of molecular biology and the expression of recombinant genes in animal cells. Requires a degree in molecular biology at the senior post doctorate level or higher. Experience in the biotechnology industry and in neurotrophic factors would be desirable.

**RESEARCH ASSOCIATES**

**Pharmacology**
We are seeking a senior level Research Associate to assist in identifying proprietary neuroprotective agents for treating human disease. Duties include: in-vivo experimentation including survival surgery, vascular catheterization and body fluid sampling; performing biochemical assays such as protein determinations and measurement of enzyme activities; assessments of hematological parameters; and determination of serum chemistries. Requirements include a BS/MS in biology of neuroscience with minimum 5 years of post-graduate experience with in-vivo models of focal/global cerebral ischemia or traumatic brain/spinal cord injury. Knowledge of histology, neuroanatomy and general peripheral cannulation is required.

**Discovery Research**
- This individual must possess a BS/MS in organic chemistry and possess a broad knowledge of science as well as experience in synthesis. A strong interest in the practical application of the science to problems of medical interest is important as is a desire to learn bridging technologies.
- We are seeking a research professional to assist in designing and performing experiments to purify membrane proteins, run routine analytical procedures, assist in assays and growth of tissue culture cells. Requires a BS/MS in chemistry or a life science and minimum of 3 years experience in protein purification, characterization, and analysis. Knowledge of tissue culture techniques and protein chemistry techniques such as SDS-PAGE, column chromatography, and HPLC is also required.

**Formulations**
This research professional will work on improving the stability of our proteins which includes analysis for protein stability using HPLC and other techniques. Responsibilities include formulation development, stability study management and data analysis. A BS/MS in chemistry or life science and a minimum of 3 years laboratory experience are required. Experience with proteins is highly desired.

Synergen offers relocation assistance, competitive compensation and generous benefits including a 401(k) savings plan and financial stability for future development. Our Rocky Mountain community is renowned for its beauty, culture and natural attractions as a premier place to live and work. For consideration please send your resume/C.V. to: Employment Manager, Box SCO, Synergen, Inc., 1885 33rd Street, Boulder, CO 80301. We are an equal opportunity employer.
Process Development Professionals

Celtrix Pharmaceuticals, Inc., a biopharmaceutical research and development corporation, has two exceptional opportunities in its Process Development department. The selected scientists will be responsible for designing and developing processes for the recovery and purification of recombinant proteins produced by cell culture and fermentation. This will require experience in scaling up processes to the pilot plant production level.

Senior Scientist

In addition to a Ph.D. in the biochemical field, you'll need at least 7 years' experience in the area of recovery, purification, protein folding and process scale-up. A knowledge of GMP would also be beneficial to this senior-level role.

Scientist

Your 3 years' experience in purifying recombinant proteins should be supported by a Ph.D. in biochemistry, chemical engineering or a related field. We will also consider those with a Master's or Bachelor's degree and the appropriate experience. A knowledge of GMP desirable.

As a Celtrix employee, you will enjoy an excellent salary and benefits package along with the opportunity to make a significant impact in a stimulating and highly reputable R&D environment. For immediate consideration, please send your resume to: Human Resources, Celtrix Pharmaceuticals, 3055 Patrick Henry Drive, Santa Clara, CA 95054-1815. An equal opportunity employer.

Positions Open

EVALUATION BIOLOGIST. The Department of Biology, University of Miami, invites applicants for a tenure-track faculty position at the level of ASSISTANT PROFESSOR. We are looking for an organizational developmental biologist who uses modern molecular techniques (DNA sequencing, PCR). One successful candidate is expected to develop a vigorous, externally-funded research program, and to participate in teaching of the undergraduate and graduate levels. Postdoctoral experience is preferred. Applicants should send curriculum vitae, appropriate reprints, summary of research interests, and arrange to have four letters of reference sent to: Evolution Search, P.O. Box 249118, University of Miami, Coral Gables, FL 33124, by 15 December 1992.

ASSOCIATE/ASSOCIATE PROFESSORS NEUROSCIENCES CASE WESTERN RESERVE UNIVERSITY

The Department of Neurosciences at Case Western Reserve University has two tenure-track openings for junior faculty to be appointed at either the assistant or associate professor level. Candidates at the entry level should have at least two years of postdoctoral research experience and be ready to start their own independent research programs. Teaching duties primarily involve lecturing on neurosciences to graduate and medical students. One position is for a person applying to study neuronal interactions in the vertebrate CNS, with the goal of understanding how neural circuits control behavior. Applications from individuals using in vitro preparations and multidisciplinary approaches are particularly encouraged. The other position is for a person studying biochemical mechanisms of signal transduction in the nervous system. For example, the regulation of second messenger systems, posttranslational modification of proteins, and modulation of gene expression. The department includes 11 primary faculty and will expand to 15 years over the next several years. Also, more than 15 neuroscientists from other departments play an active role in research and teaching. Interested candidates should submit curriculum vitae and a brief summary of research plans by January 1, 1993 and should arrange for four letters of reference to be sent to: Dr. Story Landis, Search Committee, Department of Neurosciences, Case Western Reserve University Medical School, 10900 Euclid Avenue, Cleveland, OH 44106-4975.

FACULTY POSITION IN X-RAY CRYSTALLOGRAPHY/STRUCTURAL BIOLOGY WASHINGTON UNIVERSITY SCHOOL OF MEDICINE

Applications are invited for a tenure-track faculty position in the Department of Biochemistry and Molecular Biophysics at the level of ASSOCIATE or FULL PROFESSOR, which will also be considered. Candidates must have a Ph.D. or equivalent degree and postdoctoral experience. We will consider individuals with demonstrated creativity and productivity in macromolecular structural analysis by x-ray crystallographic methods. We are especially interested in candidates whose work exemplifies the combination of structural biology with other approaches for the elucidation of molecular mechanisms. In addition to departmental affiliation, the position includes membership in the Division of Biology and Biomedical Sciences, which oversees a number of excellent multidisciplinary graduate programs. The Department of Biochemistry and Molecular Biophysics is located in the area of Molecular Biophysics with interests in the structures and functional energetics of proteins, nucleic acids, and protein-lipid systems. Interested candidates should send curriculum vitae, a summary of research interests and future research plans and have three letters of reference sent by December 1, 1992 to: Dr. Gary K. Ackerman, Department of Biochemistry and Molecular Biophysics, 650 South Euclid Avenue, Box 8231, St. Louis, MO 63110. Washington University is an Equal Opportunity/Affirmative Action Employer.

Positions Open

MOLECULAR MECHANISMS OF VASCULAR DISEASES. ASSISTANT PROFESSOR of pathology. The Department of Pathology of The University of Chicago is seeking an M.D./Ph.D., Ph.D. or M.D. as Assistant Professor, tenure-track for the Program in Vascular Biology. Applicants (who must be completing postdoctoral work) should have a solid basic science background that is, or can be, applied to the cardiovascular system. Examples include many aspects of cell and molecular biology, molecular genetics, lipoproteins, cell physiology, growth control, transgenics, etc. Send a letter of application, curriculum vitae and a statement in research interests to: Peter F. Davies, Ph.D., Chairman, Search Committee, The University of Chicago, Department of Pathology, MC-6077, 5841 S. Maryland Avenue, Chicago, IL 60637. An Affirmative Action/Employer.

ASSISTANT/ASSOCIATE PROFESSOR IMMUNOLOGY SECTION DEPARTMENT OF MEDICINE BAYLOR COLLEGE OF MEDICINE

Applications are invited for a tenure-track faculty position in the Immunology Section, Department of Medicine, Baylor College of Medicine. Candidates must have an M.D. or M.D./Ph.D., molecular and cellular research interests, and demonstrated scholarly accomplishment which will enable them to pursue/continue an independent research career. The position provides a support package and protected research time. Applicants should submit a curriculum vitae and summaries of research interests, and names of three references to: Search Committee, c/o David P. Houston, M.D., Immunology Section, Department of Medicine, 6565 Fannin, M.S. F-501, Houston, TX 77030.

MOLECULAR BIOLOGY FACULTY POSITION

A full-time, tenure-track, faculty position, ASSISTANT or ASSOCIATE PROFESSOR, is open in the Department of Microbiology and Immunology with appointment in the School of Medicine. We are looking for an energetic and experienced person (Ph.D. or M.D.) with research funding. Those with research programs in molecular virology will be given special consideration. Funded research programs in the department include: virology, molecular and immunoparasitology, immunogenetics, molecular genetics, tumor biology and microbial pathogens, which offer opportunities for collaborations. Space and start-up funds will be provided. Please send curriculum vitae, names of at least three references, and a statement of research interests and goals to: Richard L. Chaimoff, Department of Microbiology and Immunology, Hahnemann University, Broad and Voss, Box 1010, Philadelphia, PA 19102-1192 Affirmative Action/Employer.

ENVIRONMENTAL STUDIES

Gettysburg College invites applications for a tenure-track position in Environmental Studies to commence with the 1993-94 academic year. An appointment at the ASSOCIATE PROFESSOR level is possible for a candidate with strong qualifications. Candidates should have a Ph.D. in one of the Natural Sciences, a broad base of experience in Environmental Studies, proven teaching ability, and research promise. Teaching responsibilities will include an introductory course in Environmental Science, additional courses in her/his area of expertise, the advising of students, and the supervision of internships in independent study. In addition, the successful applicant will head the Environmental Studies program, participate in writing grant proposals and serve on the Environmental Studies Committee which oversees the program's budget and curriculum. Gettysburg College is rated as a highly selective liberal arts college and is located in the center of the Washington/Baltimore area. Gettysburg College is an Equal Opportunity/Affirmative Action Employer; women and minorities are especially encouraged to apply. Application forms and personal letters should be sent to: Dr. A. Ralph Cavaliere, Chair, Environmental Studies Search Committee, Gettysburg College, Gettysburg, PA 17325. Review of completed applications will begin December 11, 1992, and continue until the position is filled.

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IMMUNOLOGIST

The R.W. Johnson Pharmaceutical Research Institute is currently seeking an experienced Cellular Immunologist to work in a multi-disciplinary group focusing on the discovery of novel anti-inflammatory therapies at the Toronto, Ontario, Canada site. The successful candidate will be involved in the generation of antigen specific assays in both human and murine systems to study the effects of antagonists of cell adhesion and signal transduction inhibitors on the stimulation of specific immune responses. An additional challenge will be to transform complex immunological assays to simple, automated screening systems for large scale chemical screening.

The successful candidate will have at least two years' Postdoctoral training in cellular immunology with expertise in setting various cellular assays for studying signal transduction. Knowledge in molecular biology would be an asset. Applicants must possess strong communication and interpersonal skills and have an impressive publishing record.

Please forward your curriculum vitae and references to: Human Resources Manager, R.W. Johnson Pharmaceutical Research Institute, 19 Green Belt Drive, Don Mills, Ontario M3C 1L9 Canada.

FACULTY POSITION

The Division of Occupational and Environmental Medicine, University of Pittsburgh Graduate School of Public Health is seeking highly qualified candidates for the position of Assistant Professor of Environmental and Occupational Health. The Division is the focus of clinical occupational medicine activities for the Center for Environmental and Occupational Health and Toxicology, a vigorous and expanding interdisciplinary research center dedicated to extending the horizons of basic knowledge in environmental and occupational health. The Division also administers a fully accredited Occupational Medicine Residency program and participates in the graduate M.P.H., M.S. and Ph.D. curricula of the Department of Environmental and Occupational Health.

The ideal candidate will be a board eligible or certified occupational physician, but board eligibility or certification in other relevant disciplines with clinical and research experience relevant to occupational medicine will also be considered. This position is in the tenure track, and the successful candidate will have demonstrated potential to develop an independent research activity with a strong laboratory component. Research expertise in occupational and environmental pulmonary disease, biomarkers of exposure, and intermediate markers of disease are of particular interest.

In addition to developing and maintaining an independent research career, the selected individual will participate in Departmental teaching activities and clinical activities in occupational and environmental medicine.

The position is available immediately. Applicants will be reviewed until position is filled. Salary is commensurate with experience. Interested applicants are encouraged to send a letter and current curriculum vitae to:

David J. Tollerud, MD, MPH, Director, Occupational and Environmental Medicine, University of Pittsburgh, 130 DeSoto Street, Pittsburgh, PA 15261.

THE UNIVERSITY OF PITTSBURGH IS AN AFFIRMATIVE ACTION/EQUAL OPPORTUNITY EMPLOYER

MIT FACULTY POSITIONS

The Department of Earth, Atmospheric and Planetary Sciences at the Massachusetts Institute of Technology invites applicants for the following two positions:

Geophysics

In the area of Solid-Earth Geophysics, priority will be given to qualified applicants whose research is focused on understanding earthquakes and/or earth structure by seismological methods. The level of the appointment is open, but junior candidates are especially encouraged to apply. Candidates must have demonstrated their potential for scientific leadership through publications in research journals, and they must be committed to teaching at both the graduate and undergraduate levels.

Meteorology

In Meteorology, we seek applications from scientists working in any area of atmospheric science, though we are particularly interested in candidates with strengths in synoptic meteorology and global data analysis, or those with an expertise in the application of numerical modeling to the understanding of physical process in the atmosphere and in the development and testing of advanced physical parameterizations in large-scale numerical models. The level of the appointment is open, but junior candidates are especially encouraged to apply. Existing faculty specialize in large scale and mesoscale dynamics, climate and climate modeling, tropical meteorology, and physical and chemical oceanography. Facilities available include permanent 10-cm and transportable 5-cm Doppler radars, an expensive synoptic laboratory and data archive, and numerous computing systems. The Center for Meteorology and Physical Oceanography serves as the focus of research in these subjects within the department and the Center for Global Change is coordinating a major new initiative in global climate studies. The successful applicant would be expected to share in the teaching responsibilities in the department.

Interested individuals should send curriculum vitae and names of three references to: Professor Thomas H. Jordan, Head, Department of Earth, Atmospheric, and Planetary Sciences, MIT, Bldg. 54-918, 77 Mass. Avenue, Cambridge, MA 02139-4307. Special consideration will be given to qualified minority and female applicants.

MIT is an Equal Opportunity/Affirmative Action Employer.

Massachusetts Institute of Technology

SR. RESEARCH SCIENTIST

(Biochemistry/Enzymology)

The selected individual will join a team of individuals in the Department of Immunology Research studying the mechanism of action of immunosuppressive drugs, including FK-506 and CsA. This project involves collaborative efforts with numerous scientists in other departments at Merck using biochemical, enzymological, cell biological, molecular, medicinal chemistry, genetic, NMR, and crystallographic techniques.

We seek a very strong Ph.D. level candidate with a minimum of 3 years relevant postdoctoral experience and broad knowledge in the areas of enzymology and protein biochemistry. Experience in mammalian cell biology would be helpful. Preference will be given to individuals having experience in at least one of the following areas: signal transduction in mammalian cells, mammalian cell biology, or immunology. The successful individual should be able to work in a team setting, have good communication skills, and have a strong desire to publish in competitive journals.

Merck Research Laboratories is located in Rahway, New Jersey approximately 25 miles from New York City. Our salaries, benefits and growth potential are excellent. For consideration please send your resume with the names of 3 references to Susan F. Marsella, AD#126, Merck & Co., Inc., R80-A3, P.O. Box 2000, Rahway, NJ 07065. EEO/AA/VH Employer.

Merck Research Laboratories
**POSITIONS OPEN**

**ASSISTANT/ASSOCIATE PROFESSOR.** The Department of Physiology of the Texas College of Osteopathic Medicine (TCOM) invites applications for a tenure-track position. Applicants must have two or more years of postdoctoral training and be capable of establishing an innovative and externally funded research program. Current grant funding is required for Associate Professor rank. Preference will be given to applicants with demonstrated competence in cardiac electrophysiologic or cardiac molecular biology, but all applicants with expertise in cardiovascular physiology will be considered. In addition to research, responsibilities will include medical education. TCOM is a State-supported medical school housed in a new, well-equipped facility, and is affiliated with the University of Texas at Houston. The position is in the process of being established as a health science center. Submit letter of application stating career goals, curriculum vitae, and three letters of recommendation to: H. Fred Downey, Ph.D., Search Committee Chairman, Department of Physiology, Texas College of Osteopathic Medicine, 3500 Camp Bowie Boulevard, Fort Worth, TX 76107. Deadline for application: January 1, 1993. Texas College of Osteopathic Medicine is an Equal Opportunity/Affirmative Action Employer and Educator.

**FACULTY POSITIONS**

**University of California, Berkeley (UCB)**

**DEPARTMENT OF NUTRITIONAL SCIENCE**

Two 9-month tenure-track faculty positions available July 1, 1993. Assistant Professor or Full Professor in Nutritional Biochemistry and ASSISTANT PROFESSOR in Human Nutrition. Responsible for establishing a research program in nutrition focusing on the effects of certain nutrients, metabolic regulation, or human nutrition and physiology. Teaching assignments will be compatible with the candidate's research interests. Ph.D., or equivalent, in Nutrition or a related biological science required. Send curriculum vitae with publications list, statement of research and teaching interests, and names and addresses of three references to: Dr. Jerome Shank, Department of Nutritional Sciences, UCB, Berkeley, CA 94720 by January 1, 1993. Applications submitted after the deadline will not be considered. The University of California is an Equal Opportunity/Affirmative Action Employer.

**UNIVERSITY OF CALIFORNIA, SAN FRANCISCO (UCSF)**

**DEPARTMENT OF PATHOLOGY**

Molecular Pathogenesis of Oral Infectious Diseases. The Department of Stomatology in the School of Dentistry at UCSF seeks candidates who have a strong research interest in molecular pathology of the oral cavity and wish to establish a research program focused within the molecular pathogenesis of oral infectious diseases. Salary commensurate with qualifications and experience. Applications are invited from well-qualified candidates in the area of yeast or bacterial infections. Applications, including a curriculum vitae and names of three references, should be sent to: Dr. Thomas Sadowski, Department of Pathology, UCSF, P.O. Box 0586, San Francisco, CA 94143-0586. The University of California is an Equal Opportunity/Affirmative Action Employer. Women and minorities are encouraged to apply. Position open until filled.

**ASSOCIATE EDITOR**

The Proceedings of the National Academy of Sciences, a multidisciplinary monthly scientific journal, is seeking an Associate Editor. Requires an M.S. (Ph.D. preferred) in any biological or physical science and at least five years of related experience. Excellent English skills are required; some editorial experience is desirable. Pleasant and efficient in the handling of letters, including salary expectations, and curriculum vitae in confidence. Send three references to: NRC/CPNAS, 2139-207 (F) NW, Washington, D.C. 20418. Non-smoking work environment. Equal Opportunity Employer.

**RESEARCH ASSOCIATE/ASSOCIATE PROFESSOR**

**University of Texas Health Science Center at San Antonio, Texas**

Research position to study proteins of cell membranes during stress and injury. Ph.D. with experience in protein techniques and nucleic acid biology is required. Active research group, stimulating academic environment, excellent living environment. The research involves and method used is a cell culture and animal model. Experience with immunology, cell biology and molecular biology. Send curriculum vitae, copies of publications, and a brief description of current and future research objectives to: Dr. Barry B. Towle, Department of Biochemistry, University of Texas Health Science Center at San Antonio, Texas 78284-7750.

**PROJECT DIRECTOR**

The Division of Public Health Sciences of the Fred Hutchinson Cancer Research Center invites applications for the position of Project Director for the clinical coordinating center for the Women's Health Initiative (WHI). This is a senior position at the Associate or Full Professor (non-tenure) level. The WHI is a large multicenter disease prevention trial with an associated observational study, spanning a project period of 15 years. The project entails studies of heart disease, cancer, and fracture prevention by means of partial factorial design that involves hormone replacement, dietary modification and chemoprevention approaches. The project Director, a Ph.D. or M.D., is responsible for overseeing the research program. A Ph.D. or M.D. degree is required and experience in public health, research or clinical medicine. Send curriculum vitae to: Dr. Charles F. Curtin, Chair, Division of Public Health Sciences, Fred Hutchinson Cancer Research Center, 1124 Columbia Street, Seattle, WA 98104. The University of Washington and the Fred Hutchinson Cancer Research Center are Equal Opportunity/Affirmative Action Employers. Women and minorities are encouraged to apply. Position open until filled.

**SENIOR SCIENTIFIC EDITOR**

The J. David Gladstone Institutes, a private, basic biomedical research organization affiliated with UC, San Francisco which supports two institutes, one focusing on cardiovascular disease and the other on infectious diseases, is seeking a Senior Scientific Editor. Responsibilities primarily involve comprehensive editing of scientific manuscripts, abstracts, grant applications, etc. Also involved in the production of newsletters, brochures, and annual reports. Requirements: 3 or more years of experience in scientific editing. Send curriculum vitae with three references to: Editor-Personnel—Human Resources; The J. David Gladstone Institutes; P.O. Box 419109; San Francisco, CA 94141-9100. Equal Employment Opportunity Employer.

**CHIEF, HEMATOLOGY-ONCOLOGY DIVISION**

A position is now available as Chief, Hematology- Oncology Section, San Francisco VA Medical Center, with appointment at the ASSOCIATE PROFESSOR or PROFESSOR of Medicine level at the University of California, San Francisco (UCSF). This is a leadership opportunity for an oncologist or hematologist with a national reputation as a biomedical investigator, credentialed to participate in a strong clinical program, and an interest in training. The San Francisco VA Medical Center is a teaching hospital, and opportunities exist for participation in graduate programs in the basic sciences at UCSF. Send curriculum vitae to: G. A. Venken, M.D., Chair, Personnel Search Committee, DVA Medical Center (111N), 4150 Clement Street, San Francisco, CA 94121. The University of California and the VA are Equal Opportunity/Affirmative Action Employers. Women and minorities are encouraged to apply.
Organic Chemistry

Amgen is an innovative leader in the discovery, development and marketing of human therapeutics. Our advanced research in biotechnology has resulted in such breakthrough products as EPOGEN® (recombinant human Erythropoietin) and NEUPOGEN® (recombinant human G-CSF). The success of these products has opened the way to new and expanded projects, resulting in a thriving environment for Research Scientists and Research Associates.

Research Scientist

We seek a Research Associate or a Research Scientist to synthesize oligonucleotide analogs for evaluation as potential therapeutics. The challenging position requires a strong background in modern synthetic methods as well as the practice of techniques in the solid-phase organic synthesis of oligonucleotides. The position requires at least a Master’s in Organic Chemistry with 6+ years of lab experience. A Ph.D. in Chemistry with postdoctoral experience in natural products/nucleoside/nucleotide chemistry is preferred. The ability to work independently within a research team environment is essential. Please respond to Job Code #S-405.

Research Associate

We seek a Research Associate who can work independently and has a strong background in modern synthetic methods used in Bioconjugate Chemistry. The successful candidate will have a B.S. or M.S. in Organic Chemistry and 2+ years of laboratory experience. Must also have a broad knowledge of chromatographic and spectral methods. Experience handling proteins desirable. Ability to take initiative and communicate effectively are essential. Please respond to Job Code #5-502.

Amgen offers a very competitive compensation and benefits package in addition to a stimulating work environment. If you have the necessary qualifications and would like to be part of an organization that places its highest value on the contributions of its people, send your resume to: Amgen Inc., Staffing Dept. (Mail Code 10-1-A-411), (indicating Job Code number), Amgen Center, Thousand Oaks, CA 91320-1789. Amgen is an equal opportunity employer.

WASHINGTON UNIVERSITY
DEPARTMENT OF ANATOMY AND NEUROBIOLOGY
FACULTY POSITIONS IN NEUROSCIENCE

Tenure track faculty positions are available in the Department of Anatomy and Neurobiology at Washington University School of Medicine. Currently, we seek individuals taking innovative approaches to important questions in molecular, cellular, or developmental neuroscience. We are also strongly interested in those whose work links cellular with systems or computational approaches to brain function. The Department already houses more than a dozen active research labs in neurobiology, and it is part of a much larger interdepartmental Program in Neuroscience. Both the Department and the Program offer numerous opportunities for scientific interactions and collaborations. Our focus is on appointments at the Assistant Professor level, but appointments at a more senior level (Associate Professor or Professor) will also be considered.

Applicants should send a curriculum vitae, brief description of research interests, and names of references to: Dr. David Van Essen, Head, Department of Anatomy and Neurobiology, Box 8108, Washington University Medical School, St. Louis, MO, 63110, USA.

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

Research Scientist

Immunology

Genetic Therapy, Inc., a leading biotechnology company, is working with researchers at the National Institutes of Health and academic medical centers to develop retroviral mediated and other gene transfer technologies applicable to human gene therapy. The Immunology Department's Cancer Gene Therapy Program is currently seeking scientists specializing in tumor immunology, tumor cell biology and development of in vivo tumor models. This position requires a Ph.D. and at least four years postgraduate experience. GTI offers a stimulating and challenging research environment with competitive salaries and benefits. Please send a resume along with the names and addresses of two references to:

Genetic Therapy, Inc.
Human Resources - CGT-RS1
19 Firstfield Road
Gaithersburg, MD 20878

GTI is an equal opportunity employer.

POSTDOCTORAL FELLOWSHIPS IN VECTOR BIOLOGY

The Center for Insect Science, through a grant from the John D. and Catherine T. MacArthur Foundation, is offering five fellowships to study various aspects of vector biology.

The Center for Insect Science includes over 80 scientists in the Departments of Biochemistry, Ecology and Evolutionary Biology, Entomology, Internal Medicine, Microbiology and Immunology, Molecular and Cellular Biology, Neurobiology, Pathology, Pharmaceutical Science and Veterinary Science at the University of Arizona in Tucson, the Department of Zoology at Arizona State University in Tempe, the Department of Biology at Northern Arizona University, and several USDA-ARS facilities located throughout the state.

Appointments are for two years, depending on availability of funds and satisfactory performance. In addition to a stipend, fellows receive funds to support their research and are expected to develop independent and collaborative projects.

Applicants should send an introductory cover letter with statement of research interests, curriculum vitae, evidence of academic background and degrees earned, and three letters of recommendation to: Dr. Henry Hagedorn, Director, Center for Insect Science, 420 Forbes Building, University of Arizona, Tucson, AZ 85721. The review of applications will begin November 9, 1992 and continue until positions are filled. Applications from women and members of minority groups are encouraged. The University of Arizona is an Affirmative Action/Equal Opportunity Employer.
IMMUNOLOGISTS

Successful candidates will have a Ph.D. in cellular immunology with expertise in T-cell cloning and molecular biology of T-cell receptors. We also are seeking B.S. or M.S. candidates with experience in monoclonal antibodies, cancer, hematopoiesis or inflammation.

ImClone Systems offers a competitive salary and comprehensive benefits. Please send your CV, including salary and references, to Human Resources.

180 Varick Street, New York, NY 10014

Equal Opportunity Employer N/F

UNIVERSITY OF CALIFORNIA, SANTA CRUZ
ASSISTANT/ASSOCIATE PROFESSOR IN MOLECULAR BIOLOGY (RNA)
The Biology Department, University of California, Santa Cruz, invites applicants for a faculty position in Molecular Biology beginning Fall, 1993, contingent on availability of funding. We are seeking an individual whose research centers on the structure and function of RNA. This person will be associated with the Lucille P. Markey Center for the Molecular Biology of RNA, and will have research space in the recently completed Sinshelmer Laboratories. Candidates will be considered at the Assistant and Associate level, commensurate with experience. Candidates should have a Ph.D., postdoctoral research experience and university teaching experience or demonstrated potential for university teaching. The successful candidate will be expected to mount a vigorous externally funded research program, and contribute to teaching at the graduate and undergraduate levels. Salary range is $38,000–48,300 for 9 months. Applicants should send curriculum vitae, a brief description of research and teaching interests, publications, and three letters of recommendation. Please refer to position # 92-001 in your application. Send applications and letters of recommendation prior to the closing date of December 1, 1992, to:

RNA Molecular Biologist Search Committee
Department of Biology
Sinshelmer Laboratories
University of California
Santa Cruz, CA 95064

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

POSITIONS OPEN

MANAGER OF QUALITY ASSURANCE/QUALITY CONTROL
Atrix Laboratories, Inc., is a growing pharmaceutical company developing products for animal and human healthcare. We are seeking qualified applicants for the position of Manager, Quality Assurance and Quality Control. The successful candidate will be responsible for designing and implementing a comprehensive QA/QC program which will assure compliance with Good Laboratory Practices and current Good Manufacturing Practices. The ideal candidate will have five to ten years of pharmaceutical industry experience in the development and manufacturing of sterile medical devices and products. He or she will also have working knowledge of Total Quality Management, including the role of manufacturing and development to manufacturing. Good oral and written communication skills, and the ability to work within multifunctional project teams, are essential. We offer a stimulating working environment, a competitive salary and attractive benefits. Please send resumes with references and salary history to: Dr. Charles P. Cox, Atrix Laboratories, Inc., 2579 Midpoint Drive, Fort Collins, CO 80525. Atrix Laboratories, Inc. is an Equal Opportunity/Affirmative Action Employer and encourages applications from women and members of minorities.

FACULTY POSITION FOR SPRING SEMESTER 1993
EMPLOYMENT INSTRUCTORS (Fall, 1993)
SUMMER FACULTY POSITIONS IN THE SPACE LIFE SCIENCES TRAINING PROGRAM (SLST) A NASA PROJECT
four Project Counselor positions are open in the SLST to be held at the Kennedy Space Center, Florida. Project Counselors will be involved in the implementation of the 7-week-long program (starting mid-June, 1993) activities for undergraduate science and engineering students. An applicant must have a minimum of an M.S. degree (Ph.D. preferred) and experience in teaching and working with undergraduates in the sciences. For further information and an application packet (all materials must be postmarked by December 31, 1992) contact:

SLST Program Director
Florida A&M University
106 Honor House
Tallahassee, FL 32307
Telephone: (904) 599-3623/6368

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SENIOR FACULTY POSITION IN MASS SPECTROMETRY
Washington University in St. Louis invites applications for a senior faculty position in Mass Spectrometry. The appointment is sponsored jointly by the Faculty of Arts and Sciences and the School of Medicine. It is anticipated that the successful candidate will hold a primary tenured Professorship in the Department of Chemistry and a joint appointment in the Department of Molecular Biology and the School of Medicine. Applications should forward curriculum vitae and documentation of advanced scholarship and leadership in the field to: Professor Joseph J. H. Ackers, Department of Chemistry, Box 1134, Washington University, One Brookings Drive, St. Louis, MO 63130–4899. Application deadline is December 1, 1992. Applications from women and minorities are encouraged. Washington University is an Affirmative Action/Equal Opportunity Employer.

POSTDOCTORAL POSITION available to carry out the cloning of genes associated with antibiotic bioactive compound production. Experience with molecular biology required. Previous experience with Streptomyces highly desirable. Send curriculum vitae and the names and telephone numbers of three references to: Professor Ronal Parry, Department of Chemistry, Rice University, P.O. Box 1892, Houston, TX 77251.
RESEARCH SCIENTIST
Pharmacokinetics and Drug Metabolism

Sphinx Pharmaceuticals Corporation is a rapidly growing company dedicated to the discovery and development of novel therapeutics for human disease based on interactions with key intracellular enzymes involved in signal transduction pathways.

We currently have an opening for a Research Scientist in our Drug Metabolism group. The successful candidate should have a Ph.D. in pharmacokinetics, biochemistry, or a related field with at least 3 years experience conducting in vitro and in vivo drug metabolism studies. Experience with isolated perfused organ models is desirable.

Sphinx Pharmaceuticals offers competitive compensation and comprehensive health benefits as well as an attractive relocation policy. We are located in the Research Triangle area of North Carolina which offers excellent living conditions and outstanding schools. For confidential consideration, please forward your curriculum vitae, list of publications and names of three references to:

SPHINX PHARMACEUTICALS CORPORATION, Position #209, P.O. Box 52330, Durham, NC 27717. An Equal Opportunity Employer.

ASSISTANT PROFESSOR
THE SALK INSTITUTE

The Salk Institute is seeking candidates to undertake independent research in the area of growth control in yeast or animal cells in the Molecular Biology and Virology Laboratory (MBVL) of the Armand Hammer Center for Cancer Biology. Current areas of research in MBVL include: mechanisms of growth control and cell transformation (W. Eckhart); molecular analysis of neuroendocrine function (R. Evans); growth control and oncogenesis (T. Hunter); mammalian transcription factors (K. Jones); chromosome structure and function in Drosophila (G. Karpen); sexual differentiation in Drosophila (M. McKean); protein tyrosine kinases (B. Sefton); oncogenes and gene transfer (I. Verma); transformation of hematopoietic cells (M. Vogt) and genome remodeling in mammalian cells (G. Wahl). The Salk Institute offers a highly interactive environment, with a number of research groups working in areas of molecular biology and neuroscience. Interested individuals may submit an application to: MBVL Search Committee, The Salk Institute, P.O. Box 85800, San Diego, CA, 92186.

Please include a curriculum vitae, a description of present and future scientific endeavors, and names of references. The Salk Institute is an equal opportunity employer.
Biology Laboratory Supervisor

The Department of Biological and Physical Sciences, Division of Arts and Sciences, anticipates an opening for a non-tenure track laboratory supervisor in Biology commencing August 17, 1993. The responsibilities include: instruction in the laboratory (under the direction of the equal instructors) in Anatomy, Physiology, Microbiology, and Introductory Biology; preparation for laboratory experiments; direct supervision of housekeeping; preparation and maintenance of supplies in cooperation with the principal course instructors; assisting in the preparation of budgets for the laboratory; and maintaining within the scope of the approved budget; and other necessary duties associated with the laboratories. Desired qualifications include a Master's degree in a biological science (qualified holders of the Bachelor's degree may also be considered) and laboratory teaching experience preferably in Anatomy, Physiology, and Microbiology. The salary is anticipated to be competitive and will be commensurate with experience for twelve months plus fringe benefits. Send resume, names, addresses and telephone numbers of three individuals whom we may contact for references and undergraduate and graduate transcripts by December 15, 1992, to: Dr. Herbert R. Roehle Indiana University Kokomo 2300 S. Washington Street P.O. Box 9003 Kokomo, IN 46904-9003 Telephone: (317) 455-9371 Fax: (317) 455-9226 Indiana University is an Equal Opportunity/ Affirmative Action Employer.

POSITIONS OPEN

NMR FACULTY POSITION

CHEMISTRY DEPARTMENT,

EMORY UNIVERSITY

We seek a spectroscopist interested in biological applications of NMR spectroscopy with emphasis on the study of the structure and properties of proteins, as well as more general areas of current research interest. Appointment is anticipated at the assistant professor (tenure-track) level, but will be considered at the assistant professor (non-tenure track) or an associate professor (tenure track) level only at the junior level (tenure-track ASSISTANT PROFESSOR), although appointment at higher rank may be considered for unusually qualified applicant. The Ph.D. is required. Facilities are available for both computational and experimental methods, including 1H and 31P NMR and a computerized database. Teaching duties at the undergraduate/graduate level will include NMR spectroscopy and other general courses. Interested persons should send a CV, letter of interest, and three references to: Dr. Steven Robb, Chemistry Department, Emory University, Atlanta, GA 30322. The Emory University is an Equal Opportunity/Affirmative Action Employer.

PLANT MORPHOLOGY/ULTRASTRUCTURE

Department of Botany, Miami University, invites applications and nominations for a TENURE-TRACK POSITION in Plant Morphology/Ultrastructure to begin August 1993. Areas of specialization include, but are not limited to, plant development or plant evolution. Strong potential in research and a commitment to both graduate and undergraduate teaching including directing M.S. and Ph.D. students, are required. Qualifications: Ph.D. in an appropriate discipline and expertise in plant morphology, together with the personal characteristics and motivation necessary to work effectively with faculty and students of a broadly based Botany Department and an interdepartmental Electron Microscope Facility. Preference will be given to candidates with postdoctoral experience and a proven record of scholarly productivity. Curriculum vitae, one-page statements of (1) teaching interests and philosophy and (2) research goals, and three letters of recommendation should be sent to: Dr. David A. Francko, Chair, Department of Botany, Miami University, Oxford, OH 45056, FAX: (513) 529-4243. The deadline for completed applications is November 5, 1992. MIAMI UNIVERSITY OFFERS EQUAL OPPORTUNITY IN EMPLOYMENT AND EDUCATION.

POSTDOCTORAL POSITION IN SEED MANAGEMENT

Tenure-track positions in Botany and Environmental Science: Fall 1993. Successful applicants will teach in one or more of the following areas: 1) environmental analysis, 2) human anatomy and physiology, or 3) comparative animal physiology. All faculty are expected to teach introductory biology or chemistry courses. Successful applicants will develop and conduct research programs that can involve students. Our department of 15 teaching and research faculty is seeking additional faculty to participate in high quality undergraduate teaching that involves personal attention to students, research that involves involvement with ongoing research, and the planned implementation of a master's program in environmental science. Accordingly, CNU is seeking outstanding teachers who are publishing scholars in their disciplines and who have strong potential to contribute to the rapidly developing scientific and technological community of southeastern Virginia. Effective English language skills and a Ph.D. in an appropriate area are required.

CNU hires only U.S. citizens and aliens lawfully authorized to work in the U.S. Applicants will be as Assistant Professor is competitive. Send a detailed resume, graduate transcripts, and three letters of reference to David A. Bankes, Department of Biological Sciences, Christopher Newport University, Newport News, VA 23606. All materials must be received by February 1, 1993. CNU has a vigorous and effective commitment to affirmative action; applications from women and minority are, therefore, especially encouraged.

POSTDOCTORAL TRAINING IN FERTILIZATION AND EARLY DEVELOPMENT, UNIVERSITY OF CALIFORNIA, DAVIS

Fellowships are available for NIH-sponsored Training Grant starting anytime through August 1, 1993. Research areas: Cell biology and biochemistry of gametes and fertilization (Vassil Vassilev, J.J. Serve); Genetics of dermal extracellular matrix–epithelial cell interactions (L. Cancer biology of early development (Gary Anderson, Kevin C. Rege-Hartman, Jae Sung Lyng, R. W. Wing, Y. Miki); Neurobiology of early development (Gary Anderson, Kevin C. Rege-Hartman, Jae Sung Lyng, R. W. Wing, Y. Miki); Trichome cells. Applicants must be U.S. citizens or permanent visa holders. Write: Dr. Stanley Meisel, Department of Cell Biology, University of California, Davis, CA 95616-8643. University of California is an Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL TRAINING IN FERTILIZATION AND EARLY DEVELOPMENT, UNIVERSITY OF CALIFORNIA, DAVIS

Fellowships are available for NIH-sponsored Training Grant starting anytime through August 1, 1993. Research areas: Cell biology and biochemistry of gametes and fertilization (Vassil Vassilev, J.J. Serve); Genetics of dermal extracellular matrix–epithelial cell interactions (L. Cancer biology of early development (Gary Anderson, Kevin C. Rege-Hartman, Jae Sung Lyng, R. W. Wing, Y. Miki); Neurobiology of early development (Gary Anderson, Kevin C. Rege-Hartman, Jae Sung Lyng, R. W. Wing, Y. Miki); Trichome cells. Applicants must be U.S. citizens or permanent visa holders. Write: Dr. Stanley Meisel, Department of Cell Biology, University of California, Davis, CA 95616-8643. University of California is an Equal Opportunity/Affirmative Action Employer.

DUKE UNIVERSITY MEDICAL CENTER

POSTDOCTORAL FELLOWSHIPS are available in the Division of Dermatology, Duke University Medical Center in the areas of: 1) Molecular mechanism of human autoimmune diseases (2) Characterization of dermal extracellular matrix–epithelial cell interactions (3) Regulation of collagen biosynthesis (4) Characterization of molecular defects in inherited connective tissue diseases. Only U.S. Citizens, permanent residents, and non-citizen nationals are eligible for this program. Salary negotiable. Send curriculum vitae and names of three references to: Dr. Russell Hall, Box 3135, Duke University Medical Center, Durham, NC 27710. Duke University is an Equal Opportunity Employer.
The ability to measure luminescence from living cells impels the use of luciferase as a real-time transducer of genetic events. This one day symposium presents the state-of-the-art in using the firefly luciferase reporter gene combined with photon imaging technology to reveal temporal and spatial regulation of gene expression in living systems.

The keynote lectures will be televised via satellite to interested sites within the United States: (1:00pm-3:30pm EST, 10:00am-12:30pm PST)

Chairperson: Dr. Margaret Shupnik, University of Virginia

The Application of Photon Counting Imaging for Biological Studies
Dr. Robert Wick, Hamamatsu Corporation

Firefly and Other Beetle Luciferases for Novel Reporter Gene Technology
Dr. Keith Wood, Promega Corporation

Monitoring Viral (HSV) Gene Expression in Mammalian Cells
Dr. Michael White, Department of Biochemistry, University of Oxford

Dynamic Monitoring of Gene Expression in Higher Plants
Dr. Steve Kay, Ctr. for Biological Timing and the Department of Biology, University of Virginia

On site demonstrations of luminescence analysis will be presented using luminometry and photon counting imaging (9:30am-11:30am EST).

For more information, please contact:
Dr. David Hudson
NSF Center for Biological Timing
Gilmer Hall
University of Virginia
Charlottesville, VA 22901
Phone: (804) 982-5221 Fax: (804) 982-5221
EMail: clock@virginia.edu

Additional information will also be posted on the BioTiming Bulletin Board, on internet (telnet minerva.acc.virginia.edu, login.biotiming).

DIRECTOR
LAW OF THE SEA INSTITUTE
UNIVERSITY OF HAWAII

Applications are invited for the position of DIRECTOR OF THE LAW OF THE SEA INSTITUTE, and non-tenure track associate or full professor teaching appointment to the William S. Richardson School of Law.

The Law of the Sea Institute (LSI) is a private, non-profit, multidisciplinary institute under the sponsorship of the University of Hawaii. It is incorporated as a non-profit corporation under the laws of the State of Hawaii and holds tax exempt status under section 501(c)(3) of the Internal Revenue Code. It provides a forum for the study and discussion of the laws, policies, decisions, and organizational arrangements related to the use of the world’s oceans. It encourages and facilitates communication and research among those interested and involved, publicly or privately, in marine affairs. It seeks contributions from all regions of the world and all relevant disciplines, including the social sciences, the marine sciences, and industry.

The Director is responsible for the LSI annual conferences and periodic workshops held at both domestic and overseas sites, for the publications program of LSI proceedings and occasional papers, for fund raising, for administration of the Law of the Sea Institute personnel and office, and for associated development activities.

MINIMUM QUALIFICATIONS: Applicants must have a JD, PhD, or equivalent advanced (post-baccalaureate) professional or academic degree in any of the disciplines related to marine affairs and at least 5 years administrative experience in academic, government, or public or private non-profit organizations. Applicants should be able to demonstrate substantial expertise in aspects of marine affairs, particularly on current law of the sea issues and problems, sufficient to qualify for teaching such courses as part of a non-tenure track appointment in the William S. Richardson School of Law.

Applicants should send a curriculum vitae, a statement specifically linking educational background, career development, and prior experience to the role of Director of LSI, and the names, addresses, phone and fax numbers of three referees to:

Dean Jeremy T. Harrison
William S. Richardson School of Law
University of Hawaii
2515 Dole Street
Honolulu, Hawaii 96822

Salary negotiable, depending upon qualifications; closing date is December 31, 1992. Position is subject to the availability of funds. The University of Hawaii is an affirmative action/equal opportunity employer.
At Syva, R & D is serious business. As part of health care leader Syntex, we are a medical device company maintaining a strong commitment to scientific achievement and opportunity. Consider the following opportunities in our new Evergreen/San Jose, California facility:

**Senior Immunochemist**

We are seeking an innovative and independent Immunologist/Biochemist to develop immunoassays for monitoring emerging therapeutic technologies. The successful candidate will have strong skills in Biochemistry and Protein Chemistry as well as an understanding of Immunomodulation and will perform all aspects of assay development, including identification of suitable anti-bodies, optimization of the assay to maximize clinical utility and transfer to production.

Background required for this position includes a PhD or equivalent experience in Immunology and/or Biochemistry. Knowledge in diagnostics development, organic chemistry and clinical chemistry are helpful. Excellent laboratory and analytical skills are needed.

**Immunochemist**

We are looking for a bench oriented chemist who has the organizational skills to lead a team in a matrix management environment. The position will involve development and evaluation of product improvements of immunoassays for therapeutic drugs and drugs of abuse. The ideal candidate will be expected to serve as the technical lead in immunoassay development and in addition to having responsibilities for product development and transfer to production.

We require an MS plus 3-5 years of experience in Biochemistry and/or Immunology or equivalent. Strong analytical skills and thorough knowledge in diagnostıcs development essential in addition to good team skills. Clinical chemistry and organic chemistry experience preferred.

We offer an excellent salary and benefits package, along with a wonderful work environment. Please send your resume with salary history, indicating position of interest, to: Syva, c/o Corporate Employment Dept. MSS21016, 3401 Hillview Avenue, Suite A2-130, Palo Alto, CA 94303. Principals only, please. Syva is an equal opportunity employer committed to the values of a diversified workforce.

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**POSITIONS OPEN**

**POSTDOCTORAL POSITION**

**YALE MEDICAL SCHOOL**

Position available to study somatic hypermutation in murine B cells, using molecular approaches that include analysis of test constructs in transfection experiments and in transgenic mice. Please send curriculum vitae and names of three references to: Dr. Nancy Marks, Department of Microbiology and Immunology, Yale University School of Medicine, 333 Cedar Street, New Haven, CT 06510.

**POSTDOCTORAL POSITION**

Available, with funding for three years, in a project investigating mutations in the targeting of proteins to the endoplasmic reticulum. The laboratory is involved in research that utilizes primary hepatocyte cultures, immortalized and transformed hepatocyte cell lines and cell lines from hepatocellular tumors. Specific research areas include hepatic and liver-specific gene expression, (2) alteration of growth control by growth factors and integrins, and (3) examination of the effects of hepatitis B virus and retrovirus growth control and gene expression in liver. Experience with molecular biology techniques is required. Experience with primary hepatocyte research and/or transgenic model selection is ideal but is not required. Please send curriculum vitae and the names and addresses of three references to: Dr. Harriet C. Isom, Department of Microbiology and Immunology, The Milton S. Hershey Medical Center, The Pennsylvania State University College of Medicine, Hershey, PA 17033. The Pennsylvania State University, Equal Action/Equal Opportunity Employer.

**POSTDOCTORAL POSITIONS IN STRUCTURAL BIOLOGY**

Two postdoctoral positions are available in the laboratory of Dr. Brian Johnsen. NIH-supported research focuses on the following areas: DNA/RNA structure, *DNA/RNA* splicing, *DNA/RNA* interactions, *DNA/RNA* catalysis intermediates. Development of peptide and nucleic acid-based anti-HIV agents. Techniques include chemical and enzymatic probing, physical measurements, computer modeling, oligonucleotide design, and standard molecular biology procedures. Recent publications include: PNAS 89, 5526-5530 (1992); Biochemistry 31, 320-331, 1992; 5257-5263 (1991); Nuc. Acids Res. Oct. 25, 1992 (in press). SKR (formerly Stanford Research Institute), is a nonprofit research organization located at Stanford University. Our department, the Cell and Molecular Biology Laboratory is expanding. Successful postdoctoral fellows who wish to continue at SKR may be considered for regular staff positions. Qualified candidates for this position send curriculum vitae and names of three references to: Dr. Brian Johnsen, SKR International 205-19, Ravenswood Avenue, Menlo Park, CA 94025. Equal Opportunity Employer.

**POSTDOCTORAL POSITIONS**

**YALE UNIVERSITY**

Position available for a recent Ph.D. or M.D. for participation in a project involving characterization of the human homologues of the AKT oncogene (Science 254:271, 1991; PNAS October 1992), human geno mapping and the molecular analysis of human tumors. Strong background in molecular biology, experience with rapid and sensitive nucleic acid screening techniques, and standard molecular biology procedures. Recent publications include: PNAS 84, 3526-3530 (1987); Biochemistry 29, 320-331, 1990; 5257-5263 (1991); Nuc. Acids Res. Oct. 25, 1992 (in press). SKR (formerly Stanford Research Institute), is a nonprofit research organization located at Stanford University. Our department, the Cell and Molecular Biology Laboratory is expanding. Successful postdoctoral fellows who wish to continue at SKR may be considered for regular staff positions. Qualified candidates for this position send curriculum vitae and names of three references to: Dr. Brian Johnsen, SKR International 205-19, Ravenswood Avenue, Menlo Park, CA 94025. Equal Opportunity/Equal Access Employer.

**POSTDOCTORAL RESEARCH POSITION**

Available immediately to study the molecular events associated with tumor progression in leukemias and lymphomas. Studies will include use of available transgenic models and in vitro model systems. Candidate must have Ph.D. with a strong background in molecular methodologies including Northern, Southern, and Western blotting and library generation. Send curriculum vitae and names of three references to: Dr. Timothy McDonnell, Department of Molecular Pathology, University of Texas, M.D. Anderson Cancer Center, 1515 Holcombe Boulevard -Box 89, Houston, TX 77030. Equal Opportunity/Affirmative Action Employer. Smoke-free environment.

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**POSITIONS OPEN**

**YALE UNIVERSITY**

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IMMUNOLOGIST
Department of Pathology

The Department of Pathology at the University of Chicago seeks to recruit an outstanding experimental immunologist. We are committed to developing a strong program in molecular immunology. We are seeking an outstanding individual to join seven full-time basic immunologists whose expertise encompasses both cellular and molecular immunology. Existing related programs in the Department of Pathology include: molecular and cell biological aspects of antigen presentation; tumor immunology; T lymphocyte activation and regulation; and transplantation. The level of appointment, which is on the tenure track, will depend on the experience and qualifications of the applicant who is expected to demonstrate both significant accomplishments and outstanding promise. The start date for the proposed appointment will not be earlier than July 1, 1993. Please send current curriculum vitae, bibliography and a brief statement indicating research interests and the names of three referees to:

Jeffrey Bluestone, Ph.D.
Professor, Department of Pathology
MC 1089
THE UNIVERSITY OF CHICAGO
5841 S. Maryland Avenue
Chicago, IL 60637

THE UNIVERSITY OF CHICAGO

RECEPTOR STRUCTURE BASED DRUG DESIGN

Agouron Pharmaceuticals, Inc., a recognized pioneer and leader in the field of rational drug design, is located in San Diego, California in the midst of a dynamic and challenging environment of academic and industrial research centers. We are seeking talented Ph.D. scientists to join our multidisciplinary team in the following areas:

Protein Crystallography—Code 1
A background in macromolecular crystallography and experience in the experimental aspects of structure solution, refinement and molecular graphics is required.

Computational Chemistry—Code 2
A background in computer assisted structure based drug design is highly desirable. Expertise in one or more of the following areas is essential: quantum chemistry, molecular modeling, protein simulations or closely related computational areas. Post-doctoral research experience is a plus.

Pharmacology—Code 3
A background in pharmacokinetic and drug metabolism studies together with a broad knowledge of in vivo efficacy models is required to participate in the development of novel anticancer and antiviral agents.

Cellular Immunology—Code 4
A broad background in cellular immunology together with expertise in in vitro assays of lymphocyte function is required to participate in the development of novel immunosuppressive agents.

The successful candidate for each of the above positions must be willing to interact closely with colleagues in a wide range of scientific disciplines.

We offer competitive salaries and benefits in a superb location. Please send resumes (coded to the position for which you are applying) and the names of references in confidence to:

Human Resources
AGOURON PHARMACEUTICALS, INC.
3565 General Atomics Court, San Diego, California 92121
POSTDOCTORAL FELLOWSHIPS IN ROOT BIOLOGY. Two postdoctoral positions are available immediately in the Root Biology Group at Penn State University. This is a unit of the DOE/NSF/USDA Collaborative Research in Plant Biology Program, funded by a Science Foundation. The principal areas of research include root growth and development, root ecology, root biochemistry and molecular biology, and root signaling. Send curriculum vitae and letters of reference to: Dr. Hector E. Flores, 315 Warick, Biotechnology Institute, The Pennsylvania State University, PA 16802 (Telephone: 814-865-2956). The Pennsylvania State University is an Equal Opportunity Employer and encourages women and minority applicants.

POSTDOCTORAL FELLOWSHIP. The Oregon Regional Primate Research Center (ORPRC) announces the availability of a 2-year postdoctoral fellowship ($18,600 first year salary, plus fringe benefits), as well as a $5,000 allowance per year to support research in the laboratory of a Center scientist. Approximately 21 ORPRC staff scientists conduct research in the areas of Reproductive Science, Neuroscience, and the Pathobiology of Metabolic and Infectious Diseases. Research approaches range from molecular and cellular biology to whole animal physiology. Applicants must have Ph.D. or M.D. degrees. Potential research areas in the U.S. are: (1) endocrine control of the hypothalamus; (2) regulation/hormone action of the pituitary gland; (3) hypothalamic control of the reproductive system; (4) effects of endocrine dysfunction on tumor growth; (5) endocrine control of the immune system; (6) roles of the endocrine system in reproductive aging. The deadline for applications is May 28, 1992. Send application letter, curriculum vitae, and three letters of reference to: Dr. Jerome M. Yoshim, Department of Physiology and Cell Biology, University of Kansas, Lawrence, KS 66045. The University of Kansas is an Equal Opportunity/Affirmative Action Employer.

UNIVERSITY OF MARYLAND. ASSISTANT/ASSOCIATE RESEARCH SCIENTIST—DUTIES: Coordinate and conduct ecologically oriented research as part of the Multiscale Experimental Ecosystem Research Center (MEEERC), a newly created U.S. EPA National Center located in the University of Maryland Center for Environmental and Estuarine Studies. Required: Ph.D. in biological/environmental science with emphasis in ecology, ichthyology, and/or field ecology. Five years experience in ichthyological research, and publications of comparable quality. Excellent oral and written communication skills. Send tenure track applications including letter, curriculum vitae, and three letters of reference to: Dr. Cal G. Guthrie, School of Biological Sciences, University of Maryland, College Park, MD 20742. EOE/AA. The University of Maryland is an Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL RESEARCH ASSISTANT. Position available for candidates with strong background in cell biology and cell recognition. Applicants should have a Ph.D. degree and not more than three years of postdoctoral research experience. Salary is $18,000 for first year, plus fringe benefits. Send curriculum vitae and names of three references to: Dr. William T. Hughes, Department of Infectious Diseases, St. Jude Children's Research Hospital, 332 North Parkway, Memphis, TN 38105. St. Jude is an Affirmative Action/Equal Opportunity Employer.

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POSTDOCTORAL RESEARCH ASSOCIATE, MICROBIOLOGY. A postdoctoral research associate position is available immediately to conduct biochemical/electrochemical studies of microbial degradation of paints and coatings applied to metal surfaces. Experience with paint blasting and coatings applied to metals is required. Familiarity with environmental microbial ecology is beneficial. The postdoctoral position is guaranteed for one year, with strong possibility of renewal. U.S. citizenship or permanent residency required. Preference will be given to U.S. citizens or permanent residents. Send curriculum vitae, research statement, publication list, and three letters of reference to: Dr. Thomas J. Prestwich, Department of Civil and Environmental Engineering, UC Berkeley, Berkeley, CA 94720. UC Berkeley is an Equal Opportunity/Affirmative Action Employer.


CSU San Marcos, the newest campus of the California State University system, is planning a major expansion in biology. CSU San Marcos has a strong commitment to excellence in teaching and research. Applicants must have a Ph.D. and a strong commitment to teaching and research. Applications are due by December 1, 1992. Send application letter, curriculum vitae, statement of research/teaching interests, and three recommendation letters to: Chair of Biology Search Committee, CSU San Marcos, CA 92096. The University has a strong commitment to diversity and equal opportunity. The University is an Affirmative Action/Equal Opportunity Employer.

The Guthrie Research Institute (GRI) is recruiting a scientist to develop a project in the area of signal transduction and regulatory mechanisms. Send curriculum vitae and the name and addresses of three references to: Geisinger Human Resources Department (HS), 100 North Academy Avenue, Danville, PA 17822–1529.

GOAL COLLEGE. The Department of Biology at St. Olaf College invites applications for two tenure-track positions. Qualifications for both positions include a Ph.D., postdoctoral or comparable research experience, demonstrated interest and ability in teaching, and a desire to participate in research with undergraduates. The DEVELOPMENTAL BIOLOGIST will teach an advanced course in developmental biology, an introductory course for majors emphasizing cell biology and genetics, and other courses as needed by the department. The starting date for this position is January 1, 1993. The deadline for applications is November 6, 1992. The ORGANISAMAL BIOLOGIST will teach an advanced course in plant taxonomy/morphology, an introductory course for majors emphasizing organismal biology, and other courses as needed by the department. The starting date for this position is September 1, 1993. The deadline for applications is November 3, 1992. Send 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. St. Olaf College is an equal opportunity/affirmative action employer.
The Department of Biological & Physical Sciences invites applications for a tenure-track position at the Assistant Professor level commencing August 1993. Responsibilities include teaching, at the undergraduate level, Microbiology (both lecture and labs) for nursing and allied health students; and, on an alternating year basis, upper level courses in Microbiology, Genetics and an additional course for biology majors. Although teaching is a prime responsibility, research and service are also required. Publication is expected.

Desired qualifications include an earned doctorate, and a strong commitment to undergraduate teaching, research and publication. Preference will be given to individuals with a strong emphasis in Microbiology. Salary is competitive and includes an excellent fringe benefits package. Although the review process will commence November 16, applications will be accepted until the position is filled.

Send resume, copies of undergraduate and graduate transcripts, and the names, addresses and telephone numbers of at least three references to:

Dr. Robert Roales
Chairperson, Department of Biological & Physical Sciences
Indiana University Kokomo
P.O. Box 9003
Kokomo, IN 46904-9003
Indiana University Kokomo is an Equal Opportunity/ Affirmative Action Employer.

Synaptic Pharmaceutical Corporation is a rapidly growing biotechnology company involved in the discovery and cloning of neurotransmitter receptors and other sites of drug action. By pioneering advances in the basic neurosciences we are creating a pathway to the next generation of neuro-psychiatric treatments. The following positions are currently available in our Molecular and Cell Biology Program:

Cell Biology Group Leader:
The successful candidate will be responsible for the operation of our cell biology laboratory using recombinant cell culture expression systems. The ideal candidate would have experience in laboratory management and the supervision of technical personnel as well as familiarity with second messenger systems, mass cell culture techniques, expression vectors, transfection technologies, and cell culture control procedures. A Ph.D. and industrial experience is required.

Senior Cell Culture Associate:
Responsibilities include the continuous culture of mammalian cell lines for pharmacological assay as well as laboratory management. A BS or MS in the biological sciences and 1-3 years experience in mammalian cell culture are required.

Synaptic Pharmaceutical Corporation occupies well-equipped, modern laboratories in a suburban environment just 10 miles from the George Washington Bridge. We offer a stimulating multi-disciplinary environment, competitive salaries and benefits.

For consideration, please submit your Curriculum Vitae to:
Human Resources Manager, Dept. 137
Synaptic Pharmaceutical Corporation
215 College Road, Paramus, New Jersey 07652

Synaptic Pharmaceutical Corporation
An Equal Opportunity Employer

Scientists/Sr. Scientists
Macronex, a newly-emerging biopharmaceutical discovery and development company located in the Research Triangle area of North Carolina, is positioning itself to be a world leader in the development of human therapeutics based on the physiological regulation of macrophages and monocytes. We are currently expanding our research programs and have openings available for Scientists/Sr. Scientists in our macrophage/cell biology group.

Successful candidates will have a Ph.D. degree with a minimum of 3-5 years experience in cell biology or immunology with direct experience in working with human monocytes or macrophages. Experience in bioassays of monocytes/macrophage function is required and experience in immunosassay development and/or the measurement of monokines is highly desirable. We seek energetic, highly-motivated individuals who possess excellent interpersonal skills. Selected individuals will be a part of a group of 9-10 scientists focused on understanding the mechanisms of macrophage activation and regulation and will be supported by teams of molecular biologists, protein and peptide chemists, and medicinal chemists.

Position #106

We offer competitive salaries and benefits including employee stock participation. The Research Triangle provides a progressive area offering a high quality, affordable lifestyle. Interested candidates should send their resume and CV, referencing Position #106, with the names, addresses, and phone numbers of three references to: Macronex, Inc., Suite 700, 120 Southcenter Court, Morrisville, NC 27560.
ENVIRONMENTAL RESEARCH

Collins, Tratwit the manner. vaity as C. D. Balimoe, Code pharmacual and viral applications to scientific for ribozyme-mediated HIRV/AIDS.

The Director will provide leadership and international visibility for the Institute, direct administration of the Institute affairs and staff, provide liaison to the DOE and to Congress, and promote planning, coordination, and integration of NIGEC-supported research within and among the regional centers. The University of California will provide the appropriate research environment to encourage the Director to foster a multidisciplinary research program. The Director is assisted by a Scientific Advisory Committee and National Technical Advisory Committee.

The successful candidate shall be or become a full faculty member of the University of California at the time he or she assumes the appointment. The position will be available on January 1, 1993. Nominations and applications should be submitted by December 1, 1992, to: Associate Vice President, Academic Affairs, Screening Committee E-92, UCOP, 300 Lakeside Drive, 9th Floor, Oakland, CA 94612-3550. EOE/AA

MUSCLE BIOCHEMIST

The Department of Pharmacology at Merck Research Labs at West Point is seeking applicants for a staff scientist position in a laboratory studying the biochemical pharmacology of heart muscle. Duties will include purification, characterization, and manipulation of DNA and proteins, enzymatic assays, physiologic recording from skinned muscle fibers.

Applicants must have a BS/MS degree in biochemistry/biophysics or equivalent and at least 3-5 years of muscle research experience using chromatography, electrophoresis, immunoblotting, and basic procedures in molecular biology.

Excellent salary and benefit programs accompany this position at our modern research facilities located 25 miles northwest of Philadelphia. Please send curriculum vitae with cover letter to Personnel Manager, AD# D-24, MRL Human Resources WP42-2, Merck Research Laboratories, P.O. Box 4, West Point, PA 19486. EEO/AA/V/H/Employer

MERCK Research Laboratories

FACULTY POSITIONS IN MOLECULAR AND STRUCTURAL BIOLOGY

Applications are invited for two tenure-track faculty positions at the Assistant or Associate Professor level in the Department of Biochemistry of The Medical College of Wisconsin. Although applications are welcome in any area of contemporary biochemistry, particular emphasis is placed on individuals with expertise in (1) X-ray crystallography or a related area of structural biology and (2) molecular approaches to gene regulation and/or development. Successful applicants will join a well-funded department and will complement existing molecular, structural, and mechanistically oriented programs by establishing an independent research group. The appointments will also require participation in the department's graduate and medical education programs. In addition to start-up funds, the positions offer ready access to state-of-the-art protein and nucleic acid, X-ray diffraction, graphics, and computing facilities.

The positions will be available on or after 1 July 1993. By 1 December 1992 applications should send curriculum vitae, recent reprints, statement of research interests and names of three references to:

Molecular and Structural Biology Search Committees Department of Biochemistry Medical College of Wisconsin 8701 Watertown Plank Road Milwaukee, Wisconsin 53226 Affirmative Action/Equal Opportunity Employer

For ADDITIONAL INFORMATION and registration materials please contact

Ms. Maria Holander at 301-468-6555.

Sponsored by the City of Hope, National Medical Center, and the National Cooperative Drug Groups for the Treatment of HIV Infection.

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City of Hope

Developmental Therapeutics Branch Division of AIDS National Institute of Allergy and Infectious Diseases

THIRD INTERNATIONAL SYMPOSIUM ON CATALYTIC RNAs (RIBOZYMES) AND TARGETED GENE THERAPY FOR THE TREATMENT OF HIV INFECTION

December 6-11, 1992 San Diego Princess Resort Hotel

Catalytic RNAs (ribozymes) are a new class of potential therapeutic entities that cleave target RNA molecules in a highly specific manner. Several human diseases, ranging from HIV/AIDS to human leukemias, are being explored as candidates for ribozyme-mediated RNA destruction. This symposium will distill and disseminate current data on the rapid progress made in this field and the universal application of ribozymes as a therapeutic modality to a variety of human disease. Sessions will include RNA catalytic motifs, secondary/ternary structure, modification, applications to HIV and other human diseases, and delivery to cells. Equal time will be devoted to targeted gene therapy/delivery with specific focus on HIV infection. This segment will include ribozyme gene delivery, potential antiviral genes/molecules and their delivery in vivo and in vivo, recently emerging viral vectors and non-viral transfer strategies, hemostopistic stem cell isolation and culturing, tissue targeting strategies, and model diseases amenable to gene therapy applications.

The intent of the symposium is to attract a diverse blend of individuals from the scientific, medical, and pharmaceutical communities, and to provide a unique venue in which basic science developments and innovative advances in molecular medicine are presented and discussed. This should, in turn, create a stimulating and exciting atmosphere for scientific interaction, discussion, debate, and collaboration. Partial speaker list includes:

D. Baltimore, USA
M. Bein, USA
M. Blase, USA
C. Bordigan, Italy
R. Cedergren, Canada
R. Collins, Canada
P. Eckstein, Germany
T. Friedman, USA
W. Gerlach, Australia
P. Greenberg, USA
G. Hadzaczy, Hungary
L. Huang, USA
J. Housey, The Netherlands
G. Joyce, USA
T. Nabel, USA
E. Obinaka, Japan
A. Riggs, USA
J. Sodrosk, USA
R. Symons, Australia
K. Taim, Japan
I. Weissman, USA

For additional information and registration material please contact

Ms. Maria Holander at 301-468-6555.

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City of Hope

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T. Friedman, USA
W. Gerlach, Australia
P. Greenberg, USA
G. Hadzaczy, Hungary
L. Huang, USA
J. Housey, The Netherlands
G. Joyce, USA
T. Nabel, USA
E. Obinaka, Japan
A. Riggs, USA
J. Sodrosk, USA
R. Symons, Australia
K. Taim, Japan
I. Weissman, USA

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Ms. Maria Holander at 301-468-6555.

Sponsored by the City of Hope, National Medical Center, and the National Cooperative Drug Groups for the Treatment of HIV Infection.
Sr. Program Officers & Program Officer
U.S. Land & Wildlife Program

World Wildlife Fund (WWF-US), is a private non-profit organization working worldwide to preserve and protect the diversity and abundance of life on earth. The U.S. Land & Wildlife program works to promote efforts to protect important natural areas & wildlife populations in the U.S., and currently seeks to fill 3 positions.

SR. PROGRAM OFFICER/SCIENTIST (Dept. 254/F) provides technical assistance and conducts research involving application of conservation biology to environmental and natural resource management policies; and maintains current knowledge of national policies and Leg. & Exec. Branch initiatives affecting conservation and management of biodiversity, protected species, and natural resources. Qualified applicants should possess master's degree (Ph.D. preferred) or equiv. experience in field of ecology, natural resource management, policy, biology or related field, and have at least 5 yrs’ experience in U.S. natural resource policy work.

SR. PROGRAM OFFICER (Dept. 253/F) conducts research and provides technical assistance in environmental policy and resource management. Projects include conducting complex research with emphasis on public lands and endangered species; providing technical assistance to public and private organizations; and with sr. management in developing proposals. Qualified applicants will possess master’s degree or equiv. exp. in the field of natural resource policy or management, ecology, law, biology, or related field and have at least 5 yrs’ experience in U.S. natural resource policy work including familiarity with endangered species or public lands management policies.

PROGRAM OFFICER FOR MARINE CONSERVATION (Dept. 252/F) conducts research and provides technical assistance in marine conservation policy work of U.S. Land & Wildlife Program. & assists Director with development, supervision, & coordination of program’s activities in marine conservation policy, with special emphasis on marine fisheries. Projects include marine conservation policy research, participation in coordinated advocacy campaigns, policy analysis, and report writing. Qualified applicants should possess bachelor’s or master’s degree in marine policy, marine resources management, marine biology, or related field, and have at least 3 yrs’ experience in marine conservation policy, fisheries management, or marine resources management.

Send cover letter and resume to: WWF, Attn: Human Resources Dept. (refer to appropriate Dept. #), by mail to: 1250 24th Street, NW, Washington, DC 20037 or by Fax: 202-293-9211.

We seek an individual with a master’s degree in marine conservation policy or related field and 5 yrs’ experience in marine conservation policy, fisheries management, or marine resources management. The candidate should have a strong background in marine conservation policy research, policy analysis, and report writing. Qualified applicants should possess bachelor’s or master’s degree in marine policy, marine resources management, marine biology, or related field, and have at least 3 yrs’ experience in marine conservation policy, fisheries management, or marine resources management.

For the Marine Conservation position, the individual will be responsible for coordinating and implementing strategies for marine conservation policy, fisheries management, and marine resources management. The candidate should possess strong organizational, communication, and analytical skills, and have a proven track record in coordinating marine conservation policy initiatives. Qualified applicants should possess bachelor’s or master’s degree in marine policy, marine resources management, marine biology, or related field, and have at least 3 yrs’ experience in marine conservation policy, fisheries management, or marine resources management.

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For the ischemia position, the individual will be responsible for the investigation, development and implementation on in vitro pharmacological test procedures and should have practical experience in the neurodegeneration/ischemia area. Work related experience in the molecular mechanisms of stroke-related cell death would be advantageous. Reply to Job# JFK.

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POSITIONS OPEN

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RESEARCH ASSOCIATE. The University of Nebraska Medical Center's Department of Ophthalmology is looking for a researcher with some experience in the areas of proliferative diabetic retinopathy and proliferative vireto-retinopathy and an understanding of the effect of growth factors on these processes. A background in immunohistochemistry is preferred. PhD or have a graduate degree equivalent to an M.D. or a Ph.D. Position available from January 1, 1993 through December 31, 1993. Salary $26,000 plus benefits, 40 hours per week. Send curriculum vitae to: David M. Cracke, M.D., Ph.D., Assistant Professor and Director of Retina Service, University of Nebraska Medical Center, 600 Satur., 42nd Street, Omaha, NE 68198-5540, Equal Opportunity/Affirmative Action Employer. Minorities and women are encouraged to apply.

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1-6. Science is published weekly on Friday, except the last week in December, at 1333 H Street, NW, Washington, DC 20005. Date of filing: 30 September 1992. This is also the address of the publisher, the editor, and the managing editor, who are, respectively, Richard S. Nicholsen, Daniel E. Koshland, Jr., and Monica M. Bradford.

7. The owner is American Association for the Advancement of Science, 1333 H Street, NW, Washington, DC 20005. Stockholders: None.

8. Known bondholders, mortgagees, and other security holders owning or holding 1 percent or more of total amount of bonds, mortgages, or other securities: None.

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