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ASSISTANT PROFESSOR. The Department of Chemistry at Stanford University is still considering applications for a tenure-track appointment as assistant professor starting in the 1992/1993 or 1993/1994 academic year. Preference will be given to applicants in physical chemistry or closely related fields. Applicants must be strongly motivated toward creative research and have a commitment to teaching at the undergraduate and graduate levels. In applying, please send curriculum vitae, list of publications, a brief statement of research interests (three pages or less) and, in addition, three letters of recommendation sent to: Professor James H. Prentiss, Department of Chemistry, Stanford University, Stanford, CA 94305. Stanford is committed to Equal Opportunity through Affirmative Action in Employment, and we are especially interested in identifying minority persons and women with appropriate qualifications. Applications should be received by 1 December 1991.

The Department of Biological Sciences at Indiana University at South Bend seeks candidates to fill a tenure-track ASSISTANT PROFESSOR position starting August 1992. Can. Applications are invited for teaching anatomy and physiology and/or microbiology in the nursing program. Teaching a course in another biological or health science is possible. Research and developing a research program involving undergraduates also are required. Salary competitive, benefits excellent. Submit detailed résumé and three letters of recommendation to: Dr. Victor Riemen, Chair, Department of Biological Sciences, Indiana University at South Bend, P.O. Box 7711, South Bend, IN 46634 by 15 November 1991. Affirmative Action/Equal Opportunity Employer.

HARVARD UNIVERSITY DEPARTMENT OF CHEMISTRY ASSISTANT PROFESSOR OF ORGANIC CHEMISTRY Applications are invited for an assistant professorship in any area of organic chemistry beginning in either the 1992/93 academic year or the 1993/94 academic year. Applications should arrange to have three letters of recommendation sent independently and should provide curriculum vitae and brief descriptions of their future research plans. Harvard University is an Affirmative Action, Equal Opportunity Employer. Applications from women and minority group members are welcome. Applications and supporting materials should be sent no later than 1 November 1991 to: Professor Stuart L. Schreiber, Department of Chemistry, Harvard University, 12 Oxford Street, Cambridge, MA 02138.

Applications are invited for a tenure-track faculty appointment as ASSISTANT PROFESSOR in the Department of Microbiology and Immunology, School of Medicine, University of North Carolina at Chapel Hill, beginning summer 1992. We seek a candidate with the clear capability to establish and maintain an independent research program in any area of prokaryotic molecular biology, genetics, pathogenesis or physiology and who will participate in the teaching of graduate and medical students. A doctoral degree and relevant postdoctoral experience are preferred. Preference will be given to applicants who reply before 1 December 1991. Respond to: Dr. Philip Bassford, Search Committee, Department of Microbiology and Immunology, University of North Carolina at Chapel Hill, NC 27599, including curriculum vitae, statement of research interests and future plans, representative reprints and names and addresses of at least three references.

Women and minorities are encouraged to apply and to identify themselves. The University of North Carolina at Chapel Hill is an Equal Opportunity/Affirmative Action Employer.

ASSISTANT PROFESSOR, BIOLOGY. Nicholls State University invites applications for a tenure-track (9-month) position. Successful applicant will conduct research on coastal fish, teach undergraduate ichthyology, general zoology and possibly one of the following: ecology, evolution, or comparative anatomy. Deadline: 25 October 1991. Send letter of application, curriculum vitae, and the names and telephone numbers of three references to: Dr. Earl Nettles, Department of Biology, Nicholls State University, Thibodaux, LA 70310. Affirmative Action/Equal Opportunity Employer.
Cytel is a leader in the design and development of new pharmaceuticals through discovery and characterization of immune receptors. We are expanding our research and development efforts which has created exceptional career opportunities in the following areas:

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**DIRECTOR, PHARMACEUTICS** The successful candidate will establish a program in pharmaceutics to support an aggressive drug development effort. Candidate should have extensive experience in characterization, formulation, and in-process design of protein and small molecule therapeutic products. Experience in a GMP/GLP environment is essential. A PhD in a pharmaceutical science and postdoctoral training is required. **DEPT. TG**

**MANAGER, HYBRIDOMA RESEARCH** We are seeking an individual with a minimum of five years industrial experience to produce, characterize and apply monoclonal antibodies to support therapeutic products in Research and Pharmaceutical Development. Candidates will be expected to establish GMP production facilities and have experience and excellent skills in mammalian cell culture, immunohistochemistry and protein chemistry. The ability to transfer molecules from the bench to production and GMP processes is critical. **DEPT. TG**

**MANAGER, PHARMACOKINETICS AND DRUG METABOLISM** Cytel is seeking an individual with significant experience and skills in directing the design and execution of pharmacokinetic and drug metabolism studies to support the preclinical and clinical development of human therapeutics. Experience in modern analytical technologies and methodologies, characterization of molecules in biological fluids and GLP and GCP studies are essential requirements for this position. Preference will be given to candidates with experience with both small molecules and proteins. **DEPT. TG**

**DISCOVERY RESEARCH**

**ASSOCIATE DIRECTOR, CELLULAR IMMUNOLOGY** The successful candidate will participate in and guide the efforts of a preclinical research group consisting of 8-10 PhD’s plus support staff. We are seeking a PhD or MD with a strong background in the area of T-cell mediated inflammation and cellular immunity including the role of adhesion and/or accessory molecules in lymphocyte trafficking and activation. Qualified candidates must also have a strong record of scientific accomplishment along with proven organizational and leadership skills. **DEPT. BC**

**STAFF SCIENTISTS, CELL AND MOLECULAR BIOLOGY** We are seeking accomplished molecular and cell biologists to join our in-house research programs in the areas of cell adhesion (LECCAMS and integrins) in inflammation and metastasis, analysis of MHC/T cell interactions and signal transduction and nuclear signalling during inflammatory responses. The ideal candidate will have a PhD along with proven experience in one or more of these areas and be highly skilled in molecular and cell biology. **DEPT. MK**

**STAFF SCIENTIST, MOLECULAR BIOLOGY AND BIOCHEMISTRY** We are seeking a PhD with 3-8 years experience and a strong background in protein chemistry/biochemistry. The candidate should have experience in the purification and characterization of enzymes or membrane-associated molecules. Skill in assay development would be helpful. Preference will be given to those candidates familiar with adhesion molecules or integrins. **DEPT. LW**

**STAFF SCIENTIST, SYNTHETIC ORGANIC CHEMISTRY** The successful candidate will perform innovative, highly visible research in a multidisciplinary team effort focused on the study of cell adhesion. An individual with the ability to organize and innovate is highly desirable. A PhD in synthetic organic chemistry is required. **DEPT. FG**

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POSITIONS OPEN
ANIMAL VIROLOGIST AND CELLULAR PHYSIOLOGIST

The Department of Biology, Seton Hall University, invites applications for two anticipated tenure-track positions at the ASSISTANT PROFESSOR level for the fall of 1992. Applicants should have a Ph.D. and relevant postdoctoral experience. The animal virologist will have experience in cell culture and will be expected to teach undergraduate cell biology, virology, molecular biology and graduate virology. The cellular physiologist will be expected to teach undergraduate anatomy and physiology, introductory biology, and graduate physiology. Applicants are expected to maintain an active, independent research program. Send curriculum vitae, description of research interests and three references on or before 30 November, Search Committee, Department of Biology, Seton Hall University, South Orange, NJ 07079. Equal Opportunity/Affirmative Action Employer.

HARVARD UNIVERSITY DEPARTMENT OF CHEMISTRY
ASSISTANT PROFESSOR OF INORGANIC CHEMISTRY

Applicants are invited for a tenure-track position in any area of inorganic chemistry. Applicants should arrange to have three letters of recommendation sent independently and should provide curriculum vitae and brief descriptions of their research plans. Harvard University is an Affirmative Action, Equal Opportunity Employer. Applications from women and minority group members are welcome. Applications and supporting materials should be sent no later than 1 November 1991, to: Professor Richard H. Holm, Department of Chemistry, Harvard University, 12 Oxford Street, Cambridge, MA 02138.

FACULTY POSITION DEPARTMENT OF MICROBIOLOGY

The Department of Microbiology at the University of Washington is seeking candidates for a tenure-track position, preferably at the ASSISTANT PROFESSOR level but more senior levels will also be considered. Candidates should be prepared to carry on an independent research program dealing with current problems in prokaryotic microbiology. Research areas of special interest include bacterial pathogenesis, microbial genetics, and bacterial physiology. Applicants will be expected to teach in undergraduate and graduate courses and supervise graduate students. Applicants should send curriculum vitae, a short statement of research interests and goals, and the names and addresses of two referees: Dr. James J. Champoux, Prokaryotic Search Committee Department of Microbiology, SC42, School of Medicine, University of Washington, Seattle, WA 98195. Deadline: 31 December 1991.
The University of Washington is an Equal Opportunity/Affirmative Action Employer.

LAWRENCE UNIVERSITY ASSISTANT PROFESSOR MOLECULAR BIOLOGY

Tenure-track position in the biology department of a small, high-quality liberal arts college. Duties include developing a course in plant molecular biology for undergraduate biology and chemistry majors, one or more courses in area of specialty, and supervision of undergraduate research. All department members contribute to the introductory biology course and to the freshman core program. Candidates with significant postdoctoral research experience will be given preference. A commitment to excellence in teaching undergraduate education is required. Substantial start-up funds are available for research and instructional equipment. Responsibilities begin Fall 1992.

Applicants should send curriculum vitae, undergraduate transcripts, a brief description of research and teaching interests, and three letters of reference to: Dr. William J. Perreault, Chair, Biology Department, Lawrence University, Box 599, Appleton, WI 54912. To ensure consideration all application materials must arrive by 1 December 1991. Lawrence University promotes Equal Opportunities for all.

Public Health Service National Institutes of Health Fellowship in Brain Lipid Metabolism

The Laboratory of Neurosciences, National Institute on Aging, National Institutes of Health, invites applications for a Fellowship position to study brain lipid metabolism in relation to development, aging and neuroplasticity, pharmacological and physiological activation in animals. Research opportunities include examination of incorporation of radiolabeled fatty acids into brain, using analytical techniques to examine mass and specific activity within precursor pools and phospholipid species; examining brain lipid composition in Alzheimer's disease.
The position is located in Bethesda, Maryland, and is available immediately.

Interested candidates should submit their Curriculum Vitae and two letters of recommendation to: Stanley I. Rapoport, M.D., Chief, Laboratory of Neurosciences, National Institute on Aging, National Institutes of Health, Bldg. 10, Room 6C103, 9000 Rockville Pike, Bethesda, MD 20892

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**POSITIONS OPEN**

Anticipated position of ASSISTANT PROFESSOR OF PHARMACOLOGY AND/OR PHYSIOLOGY. Ph.D. or equivalent. Emphasis on teaching excellence. Responsibilities include instruction of medical students in pharmacology and/or physiology.

LABORATORY ASSISTANT: M.S. in physiology. Physiology background and computer literacy essential. Responsibilities include set-up, ordering supplies, demonstration, etc. for medical physiology laboratories. For both positions, send letter of professional goals, curriculum vitae, and names and addresses of three references to: Dr. Gary O. Ballam, Head, Department of Physiology, The University of Health Sciences (UHS), College of Osteopathic Medicine, 2106 Independence Boulevard, Kansas City, MO 64124. Telephone: 816-283-2220. UHS is an Equal Opportunity/Affirmative Action Employer.

**STAFF SCIENTIST**
(EQUIVALENT TO ASSISTANT/ASSOCIATE PROFESSOR)

**SENIOR SCIENTIST**
(EQUIVALENT TO FULL PROFESSOR)

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We are seeking a cell biologist, biochemist or molecular biologist with an imaginative established research program related to mammalian cell physiology, growth, differentiation or development. The Weis Center is a fully equipped basic research facility currently staffed by approximately 50 scientists and support personnel. The research building was completed in May of 1987, and is designed to accommodate 20 separate laboratories. Scientists are provided with generous institutional funds for start-up, salaries, postdoctoral fellows, research technicians, supplies and equipment. The Geisinger Medical Center is located in an attractive rural setting in central Pennsylvania, within driving distance of New York City, Philadelphia, and Washington, D.C. It is affiliated with the Jefferson Medical College, and there are several colleges and universities nearby. Employment should begin on or before 1 July 1992. Applications will be accepted until the position is filled. Curriculum vitae, statement of research interests, and names of three references should be sent to: Dr. Howard E. Morgan, Senior Vice President for Research, Weis Center for Research, Geisinger Clinic, Danville, PA 17822-2601. Equal Opportunity Employer, M/F/H/V.

**CLEVELAND CLINIC FOUNDATION**
**RESEARCH INSTITUTE**
**DEPARTMENT OF CANCER BIOLOGY**

STAFF POSITIONS IN MOLECULAR GENETICS OF CANCER

Applications are invited for scientist positions at the ASSISTANT, ASSOCIATE or FULL PROFESSOR levels in the Department of Cancer Biology. Successful applicants will be expected to establish an independent, competitive research program and develop collaborations with staff scientists and physicians. Preference will be given to candidates with an interest in molecular genetics of human cancers, using transgenic models for cancer or retrovirus or embryonic stem cell culture systems.

The Cleveland Clinic Research Institute, which consists of eight departments, comprising over 250 scientists including pre- and postdoctoral trainees, offers a stimulating research environment, excellent facilities and significant intramural support for establishing or relocating laboratories. These positions are accompanied by competitive salaries commensurate with level of seniority and excellent fringe benefits.

Send curriculum vitae and brief statement of research interests to:

Bryan R. G. Williams, Ph.D.
Chairman
Department of Cancer Biology, NN1 Research Institute
Cleveland Clinic Foundation
9500 Euclid Avenue
Cleveland, OH 44195

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**POSTDOCTORAL FELLOWSHIP IN MOLECULAR AND CELLULAR IMMUNOLOGY**

The project will focus on understanding the cellular and molecular events during T cell/B cell interaction that control immunoglobulin production. The ideal candidate will have significant experience in the establishment of human T cell clones and in the cloning of genes. Experience in the regulation of IgE synthesis would also be an advantage.

The Glaxo Institute for Molecular Biology carries out long-term research to discover novel molecular mechanisms that could be targets for new effective medicines. It provides a dynamic international research environment, and encourages the publication of scientific results as well as collaborative projects with academic groups.

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If you are interested in this position, please send your curriculum vitae with a list of publications and the names of three referees to: Rita Gloor, Personnel Manager, GLAXO Institute for Molecular Biology S.A., 14, chemin des Aulx, Case Postale 674, 1228 Plan-les-Ouates, Geneva, Switzerland.
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IOWA STATE UNIVERSITY
OF SCIENCE AND TECHNOLOGY

Provost

Iowa State University invites applications and nominations for the position of Provost. As the chief academic officer of the University, the Provost reports to the President.

Iowa State University is a comprehensive, land-grant research university located in Ames, a community of 50,000 people known for its exceptional quality of life. Iowa State has 23,000 students, 1,600 faculty members and an annual budget of approximately $500 million. The University offers graduate, professional, and undergraduate degrees through its colleges of Agriculture, Business, Design, Education, Engineering, Family and Consumer Sciences, Liberal Arts and Sciences, Veterinary Medicine, and the Graduate College.

The Provost works closely with the President in providing overall leadership for the University. The Provost oversees the University's academic programs in teaching, research, and extension and the University Library, the Institute for Physical Research and Technology, the Ames Laboratory, and the Agriculture and Home Economics Experiment Station. The recruitment, hiring, and review of deans and directors are also among the Provost's responsibilities.

The successful applicant will have an outstanding record of scholarship, commitment to excellence in teaching, significant administrative experience, ability to manage a large and complex organization, commitment to the land-grant philosophy, and demonstrated commitment to equal opportunity and affirmative action.

Nominations and applications will be accepted until the position is filled. The Search Committee will begin its review about November 15, 1991. Send nominations or applications to:

Dr. M. Duane Enger, Chair
Provost Search Committee
Office of the President
117 Beardshear Hall
Iowa State University
Ames, Iowa 50011

Iowa State University is an equal opportunity/affirmative action employer and encourages the nomination and application of women and minority candidates.

POSITIONS OPEN

ASSISTANT PROFESSOR
PHYSIOLOGY AND BIOPHYSICS

The Department of Physiology and Biophysics in the College of Medicine at the University of Nebraska Medical Center invites applications for a tenure-leading faculty position at the assistant professor level. Applicants should hold a doctoral degree and have completed at least 2 years of postdoctoral training. The department seeks an individual in the areas of microcirculatory control and/or endothelial cell-muscle interactions, to complement ongoing research in these areas.

In addition to a strong research program, a commitment to teaching medical students, allied health students, and graduate students is required. The department will offer competitive salary commensurate with experience. Substantial set-up funds are also available. Applicants should send curriculum vitae with the names of three references by 30 November 1991, to:

Irving H. Zucker, Ph.D.
Professor and Chairman
Department of Physiology and Biophysics
University of Nebraska College of Medicine
600 South 42nd Street
Omaha, NE 68198, or call 402-559-4575

The University of Nebraska is an Equal Opportunity/Affirmative Action Employer. Minorities and women are encouraged to apply.

MOLECULAR AND CELL BIOLOGY
UNIVERSITY OF CALIFORNIA
BERKELEY

The Department of Molecular and Cell Biology invites applications for the following tenure-track position with appointment beginning 1 July 1992. Candidates should have demonstrated excellence, originality, and productivity in research and should have a strong interest in undergraduate and graduate teaching.

STRUCTURAL BIOLOGY, ASSISTANT PROFESSOR, one of a series of positions to be filled in the next few years; research emphasis in the broad area of structural biology, including, for example, NMR studies of macromolecules, macromolecular interactions, protein folding, structure of membrane proteins, or membrane dynamics.

Applications should include a cover letter, curriculum vitae, a bibliography, a statement of research objectives and teaching interests, three letters of recommendation, and reprints of three representative publications. The closing date for acceptance of applications is 15 December 1991. Send applications to: Structural Biology Search Committee, MCB Department, 401 Barker Hall, University of California, Berkeley, CA 94720. Early applications are encouraged.

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

OHIO—ORAL BIOLOGY

Ohio State University (OSU) has a tenure-track position available at the rank of ASSISTANT or ASSOCIATE PROFESSOR in the Section of Oral Biology. This section emphasizes neurobiology and immunology as they relate to oral function. We are especially interested in applicants committed to applying contemporary biological techniques to problems affecting nervous or immune systems. Individuals are expected to develop a fundable research program and participate in professional and graduate instruction. While D.D.S./Ph.D. education is desirable, Ph.D.'s are encouraged to apply. Send curriculum vitae and description of research plans to: Dr. Keith E. Alley, 305 West 12th Avenue, Columbus, OH 43210. OSU is an Equal Employment Opportunity/Affirmative Action Employer and encourages minorities and women to apply.


SCIENCE, VOL. 254
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Hoechst-Roussel Pharmaceuticals Inc., an innovative and fast-growing subsidiary of Fortune 100 Hoechst Celanese, has an exciting opportunity available for a knowledgeable Pharmacologist at its Bridgewater, NJ facility.

In this challenging role, you'll be responsible for conducting and analyzing preclinical experiments with the goal of discovering novel therapeutic agents for the treatment of Alzheimer's disease.

To qualify, you'll need a BS and 3-5 yrs. of experience, or an MS degree in a Neuroscience related field. Knowledge of and experience in behavioral pharmacology, stereotaxic lesions, and neurohistology is essential. Computer proficiency utilizing graphical and statistical analysis will be a plus.

In the pleasant suburban setting of our modern corporate complex you'll enjoy an excellent salary with a flexible benefits program, on-site fitness center, and a 401(k) savings plan. For prompt consideration, please send your resume with salary history/requirements to: Steven Scott, Section 31-35, Hoechst-Roussel Pharmaceuticals Inc., Route 202-206, P.O. Box 2500, Somerville, NJ 08876-1258.

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NMR RESEARCH INVESTIGATOR

This individual should be interested in pioneering the application of state-of-the-art NMR methodology to structural problems encountered in drug design. The potential scope of this research will most likely include the study of bound-state ligand conformations in ligand/receptor and substrate/enzyme complexes to guide synthetic chemistry efforts.

The successful candidate will collaborate with molecular biologists, physical scientists, the computer-aided drug design group, and medicinal chemists to prototype and study models in mechanism-based drug discovery programs. Publication of the results of this work is expected and encouraged. Candidates should have a Ph.D. in Chemistry (preferably physical or biophysical chemistry) and 0-2 years postdoctoral experience. Candidates with a strong background in NMR relaxation theory and practice, and with experience in heteronuclear and isotope-edited spectroscopy will be preferred. Dept. 249A-3M.

PH.D. RESEARCH INVESTIGATOR

Microbial Molecular Biology

This position will join the yeast Molecular Genetics Group in the Department of Microbial Molecular Biology. The particular emphasis will be on the expression of mammalian genes in yeast, with the goal of developing natural products screens for discovery of novel therapeutic agents. A Ph.D. and 0-2 years of experience are required. A knowledge of recombinant DNA technology and yeast molecular biology is essential. Preference will be given to candidates with experience in the area of gene expression in Schizosaccharomyces pombe. Dept. 249B-AR.

Please forward your resume (including Dept. code) to: Bristol-Myers Squibb Pharmaceutical Research Institute, Human Resources, P.O. Box 4000, Princeton, NJ 08543-4000. An equal opportunity employer.

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Washington, DC 20005

11 October 1991
POSITIONS OPEN

MOLECULAR POPULATION BIOLOGIST. ASSISTANT or ASSOCIATE PROFESSOR, tenure-track position to begin August 1992. We seek an evolutionary molecular biologist or other molecular techniques to address population level questions. Teaching responsibilities will complement the needs of the department, and will include a course in the candidate's area of specialization. Applicants must have a Ph.D. in molecular biology or a closely related area, and postdoctoral experience. Review of applications will begin August 1991. For more information contact: Dr. James V. Virella, Chair, Department of Neurosciences, University of Missouri-Kansas City, 2511 North Starbucks, Kansas City, MO 64110. 

FACULTY POSITIONS

The Department of Microbiology and Immunology at the University of California, San Diego, invites applications for a tenure-track position at the ASSOCIATE or ASSOCIATE PROFESSOR level. Applicants should have a Ph.D. or an M.D., and postdoctoral experience in molecular immunology. Applications are invited from candidates whose research interests overlap with one of the following areas: immunology/immunogenetics, molecular immunology, microbial pathogenesis, and the molecular basis of disease. Review of applications will begin August 1991. For further information contact: Dr. John J. B. McDermott, Chair, Department of Microbiology and Immunology, 9500 Gilman Drive, University of California, San Diego, La Jolla, CA 92037. 

ASSOCIATE PROFESSOR. ASSOCIATE Professor, tenure-track position in molecular biology. The department seeks a candidate with research interests in any area of molecular biology. The successful candidate will be expected to develop a strong independent research program, to teach in one or more undergraduate courses, and to participate in departmental and university committees. A Ph.D. degree is required. For further information contact: Dr. Richard J. C. Dunn, Chair, Department of Biology, University of Missouri-St. Louis, St. Louis, MO 63121. Review of applications will begin August 1991. 

RESEARCH ASSISTANT PROFESSOR. The Department of Immunology at Texas Biomedical Research Institute invites applications for a Research Assistant Professor position. Responsibilities include cell culture, molecular biology techniques, and basic immunology. A Ph.D. degree is required. For further information contact: Dr. James V. Virella, Chair, Department of Neurosciences, University of Missouri-Kansas City, 2511 North Starbucks, Kansas City, MO 64110. 

POSITIONS OPEN

MOLECULAR/CYTICAL BIOLOGY FACULTY POSITION UNIVERSITY OF MISSOURI–KANSAS CITY

Applications are invited for an ASSOCIATE or ASSOCIATE PROFESSOR in the School of Basic Life Sciences at the University of Missouri–Kansas City. The successful candidate will be expected to have several years of postdoctoral experience with strong research credentials to be able to develop a strong research program in the school's priority areas. Applicants must have a Ph.D. degree in molecular biology or a related discipline, and a strong publication record. Experience in teaching and/or research in molecular biology and genetics is required. For further information contact: Dr. Charles M. Vinters, Chair, Department of Basic Life Sciences, University of Missouri–Kansas City, 2511 North Starbucks, Kansas City, MO 64110. 

POSITIONS OPEN

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

Applications are invited for an ASSISTANT or ASSOCIATE PROFESSOR in the School of Basic Life Sciences at the University of Missouri–Kansas City. The successful candidate will be expected to have several years of postdoctoral experience with strong research credentials to be able to develop a strong research program in the school's priority areas. Applicants must have a Ph.D. degree in molecular biology or a related discipline, and a strong publication record. Experience in teaching and/or research in molecular biology and genetics is required. For further information contact: Dr. Charles M. Vinters, Chair, Department of Basic Life Sciences, University of Missouri–Kansas City, 2511 North Starbucks, Kansas City, MO 64110. 

POSITIONS OPEN

FACULTY POSITION ASSOCIATE ASSOCIATE PROFESSOR/FULL PROFESSOR. The Department of Chemistry at the University of Connecticut, Storrs, CT 06268, invites applications for one or two tenure-track faculty positions at the level of ASSOCIATE or FULL PROFESSOR. The Department of Chemistry seeks candidates in the areas of physical organic chemistry, physical inorganic chemistry, or physical analytical chemistry. The successful candidate(s) will be expected to develop a strong research program and to participate in teaching and departmental service. Applications should be directed to: Dr. Robert W. Hike, Chair, Department of Chemistry, University of Connecticut, Storrs, CT 06268. Review of applications will begin December 1991. 

POSITIONS OPEN

ASSOCIATE OR FULL PROFESSOR. The Department of Entomology at the University of California, Davis, invites applications for one or more faculty positions at the level of ASSOCIATE or FULL PROFESSOR. The Department of Entomology seeks candidates in the areas of entomology. The successful candidate(s) will be expected to develop a strong research program and to participate in teaching and departmental service. Applications should be directed to: Dr. Robert W. Hike, Chair, Department of Chemistry, University of California, Davis, CA 95616. Review of applications will begin December 1991. 

POSITIONS OPEN

FACULTY POSITION ASSOCIATE ASSOCIATE PROFESSOR. The Department of Pharmacology at the University of Missouri, Columbia, MO 65211, invites applications for an ASSOCIATE PROFESSOR position at the rank of ASSOCIATE PROFESSOR. The Department of Pharmacology seeks candidates in the areas of pharmacology, neuropharmacology, or basic neurosciences. The successful candidate(s) will be expected to develop a strong research program and to participate in teaching and departmental service. Applications should be directed to: Dr. Robert W. Hike, Chair, Department of Pharmacology, University of Missouri, Columbia, MO 65201. Review of applications will begin December 1991.
SANDOZ PHARMA LTD.,
a leading international pharmaceutical company based in Switzerland,
wishes to recruit a

CELL BIOLOGIST
to join an established osteology group studying the development and function of bone cells. The successful candidate will be given charge of a research laboratory.

Sandoz Pharma Ltd. offers a scientifically attractive environment, well-equipped laboratories and opportunities for publishing results and presenting them at international meetings. A “flexitime” system is in operation, allowing considerable personal freedom in choosing working hours.

Applications, which will be treated in strictest confidence, should be in writing and include a curriculum vitae and a list of publications. They should be addressed to:

Sandoz Pharma Ltd.
Personnel Department, Ref. 1430
P.O. Box
CH-4002 Basle, Switzerland

The New Zealand Government is establishing ten Crown-owned research companies incorporating the world class activities of the existing Department of Scientific & Industrial Research (DSIR), Ministry of Agriculture & Fisheries Technology Division, Forestry Research Institute, the Meteorological Service and the Communicable Diseases Centre.

Crown Research Institutes (CRI’s) are being established in the following areas:

- Pastoral Agriculture
- Horticultural Products
- Field Crop Products
- Forestry & Wood Products
- Industry Development
- Environmental Health & Forensic Science
- Land Environments
- Atmosphere & Water
- Geosphere
- Human Resources

A Board of Directors is being appointed for each company and in turn each Board will be appointing a Chief Executive Officer. On behalf of the Steering Committee overseeing CRI Implementation, we are now seeking expressions of interest from, and nominations of, suitably qualified persons for the position of Chief Executive for each of the ten CRI’s. Boards may make their appointments from these expressions of interest.

Applicants for the positions of Chief Executive will need to demonstrate that they have the capability to manage substantial businesses involved in the production of scientific outputs. In addition, they should understand the requirements of leading and managing a research and development company charged with not only identifying and addressing research opportunities in a competitive environment but also successfully transferring the resulting technology to end-users.

Remuneration for these positions will reflect the special character of the companies. Specific terms of appointment including relocation expenses where necessary, will be negotiated between the appointees and the respective Boards of Directors.

Expressions of interest (which should be accompanied by a detailed Curriculum Vitae) or nominations for one or more of the positions of Chief Executive should be addressed to Colin Evans, Managing Director, Wareham Associates (NZ) Ltd., PO Box 47-295, Auckland, New Zealand or Fax 64-9-780-075 and received no later than 25 October 1991. Telephone enquiries are welcome on 64-9-788-937.
ASSOCIATE SCIENTIST
Fermentation

The recent opening of the new Glaxo Inc. Girolami Research Institute, located in Research Triangle Park, NC, represents Glaxo's continued commitment to the discovery and development of drugs for unmet patients needs. We invite you to experience the challenges and accomplishments a future with us holds for you.

We are currently expanding the capacity of our Fermentation Facility to include the scale-up of recombinant organisms for the production of heterologous proteins. A position has been created for an Associate Scientist who will be responsible for the daily operations and maintenance of this facility.

Background should include a BS/MS in Microbiology or Chemical Engineering with a minimum of 2-4 years of relevant experience. Specific experience with sterile technique, recombinant technology, and the operation and maintenance of fermentation and/or bioreactor equipment is required. Working knowledge of computer technology is desired.

Join Glaxo and enjoy an excellent salary, flexible benefits, an on-site fitness center, a spirit of enthusiasm and teamwork and outstanding opportunities for career satisfaction. Equally appealing is our world-famous scientific, industrial and academic community in Research Triangle Park, NC.

Interested and qualified applicants are invited to forward your resume, including salary history, to: Human Resources Department, Job # 9126B06-SC, Glaxo Inc., P.O. Box 13398, Research Triangle Park, NC 27709. (No Phone Calls or Agency Referrals, Please.) An Equal Opportunity Employer M/F/H/V.

DEPARTMENT OF
PHARMACOLOGICAL AND
PHYSIOLOGICAL SCIENCE

Saint Louis University Medical Center

Applications are invited for faculty positions in the Department of Pharmacological and Physiological Science at Saint Louis University Medical Center. Positions are tenure track appointments at the Assistant or Associate Professor level. We offer an environment rich in senior level scientific experience, start up funds, laboratory space and a record of highly successful and continuing extramural research funding. Preference will be given, but not restricted, to individuals with demonstrated experience in the application of molecular biology to research in the nervous, cardiovascular and endocrine systems. Interested persons should send a curriculum vitae, three letters of reference and a description of research interests and objectives to:

Dr. Thomas C. Westfall
Professor and William Beaumont Chair
Department of Pharmacological and Physiological Science
Saint Louis University Medical Center
1402 South Grand Boulevard
St. Louis, MO 63104

Saint Louis University is an Equal Opportunity/Affirmative Action Employer. Women and minorities are encouraged to apply.

Development Chemists
DNA Probe Assay

Molecular Devices develops and manufactures bioanalytical instrumentation and bio-sensor systems. We are seeking Development Chemists to develop DNA probe-based assays for use on a sensor-based instrument.

You will develop assays for the detection of amplified DNA products. Responsibilities include defining probe sequences, increasing sensitivity, and defining hybridization conditions for reproducible protocols.

We require 5 years of experience in assay development, preferably probe assay development, and a strong working knowledge of DNA hybridization techniques. An MS or PhD in molecular biology or a related field is preferred.

Molecular Devices offers a competitive compensation and benefits package. Please send your resume to Molecular Devices Corporation, Attn: Dr. Wallace Parce, 4700 Bohannon Drive, Menlo Park, CA 94025. Principals only, please. EOE.
PHARMACEUTICAL RESEARCH

Merck Sharp and Dohme Research Laboratories, a worldwide leader in pharmaceutical research, has a position open within the Animal and Exploratory Drug Metabolism Department. In this position, you will participate in NMR spectroscopic and MRI studies of disease models and the effects of xenobiotics. Your responsibilities will also include sharing management of SUN workstations and PC’s, venipuncture and mastering advanced physiological preparations.

A B.S./M.S. in biochemistry, computer science, physiology or equivalent is required. Experience in biochemical procedures and analytical instrumentation is necessary. A strong background in workstation/PC’s and knowledge of UNIX is desirable. Excellent oral and written communication skills and organizational skills are required.

Merck Sharp and Dohme 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, send your resume with the names of three references to Human Resources Manager, Merck & Co., Inc., P.O. Box 2000, AD # 96, Rahway, New Jersey 07065, RY80-A3.

Equal Opportunity Employer M/F/V/H

POSTDOCTORAL POSITION (NIH)

AIDS RESEARCH

Interaction of HIV Envelope Glycoprotein with its Receptor, CD4

Projects: 1) Biochemical and biophysical studies of receptor-induced structural changes related to virus/cell fusion. Design, expression and analysis of recombinant wild type and mutant receptor proteins, predominantly using vaccinia vectors [PNAS (1991) 88, 8082]; 2) Novel CD4-based antiviral agents, including recombinant CD4-toxin chimeric proteins targeted to kill HIV-infected cells [PNAS (1990) 87, 8889].

Position available immediately; later starting dates considered. Funded by National Research Council fellowship; starting salary $29,000 - $35,000. Location: 9000 Rockville Pike, Bethesda, Maryland. Experience in molecular biology, protein chemistry, membrane biochemistry or virology helpful but not required. Diversified opportunities for collaboration. Send CV and names of 3 references to:

Edward A. Berger, Ph.D.
Laboratory of Viral Diseases, NIAID
National Institutes of Health
9000 Rockville Pike
Bldg. 4, Room 229
Bethesda, MD 20892
Phone: 301/402-2160
Fax: 301/480-1147

U.S. Citizenship Required
NIH is an Equal Opportunity Employer

GEORGIA STATE UNIVERSITY

PRESIDENT

The Board of Regents of the University System of Georgia invites nominations and applications for the position of President at Georgia State University to take office on July 1, 1992.

Georgia State University, a public urban university in downtown Atlanta, serves a diverse student body of about 33,000 degree-seeking students annually, 23,000 quarter time. Approximately 30 percent are graduate students; 24 percent are minority students. The average age of students is 28. The following six colleges of the university offer more than 100 degrees and 250 majors.

- Arts and Sciences
- Business Administration
- Public and Urban Affairs
- Education
- Law
- Health Sciences

The university has nationally recognized programs and research efforts in such disciplines as astrophysics, biological and chemical sciences, business administration, physical therapy, psychology, and public administration. Through its many academic and service programs, Georgia State is a major partner in the Atlanta business, civic, education, governmental, health care and legal communities.

Desirable characteristics of the successful candidate include:

- A distinguished record of accomplishments in teaching, research and administration in higher education or a distinguished record of executive-level accomplishments with a clear understanding of the importance of the teaching, research and service missions in higher education.
- A doctorate or appropriate terminal degree.
- A demonstrated ability to work as a respected leader and colleague with a diverse student body, faculty, staff and urban community.
- A demonstrated commitment to affirmative action and minority issues.

Nominations should include the nominee’s current address. Applications should include a letter of interest, a curriculum vitae and the names and addresses of five persons who can serve as references.

Review of applications will begin on November 1, 1991. Nominations and applications will be accepted until a final recommendation is made. All nominations and applications should be addressed to:

Dr. H. Dean Propst, Chancellor
University System of Georgia • 244 Washington Street, S.W.
Atlanta, Georgia 30334 • Fax: 404/651-9301

Names of nominees and applicants, resumes and other general nonsensitive information will be open to public inspection under Georgia law.

Georgia State University, a unit of the University System of Georgia, is an equal opportunity educational institution and is an equal opportunity affirmative action employer.

Postdoctoral Scientist

The Medical Research Division of American Cyanamid has an immediate opening for a Postdoctoral fellow to study structure-function relationships in voltage- and ligand-gated potassium channels.

The successful applicant will be part of an integrated team with research directed towards the design of novel pharmaceuticals for a broad range of applications. Candidate should have 0-3 years postdoctoral training, with a strong background in standard molecular biology techniques including subcloning, DNA sequencing, Northern and Southern analysis, and in vitro transcription.

Located at the Lederle Laboratories campus of American Cyanamid in Pearl River, New York, just 25 miles north of New York City, you'll enjoy a competitive salary and comprehensive benefits. For consideration, please send your resume with salary history to:

Professioanl Employment Office
Dept. PS, Lederle Laboratories
401 N. Middletown Road, Pearl River, NY 10965. An Equal Opportunity Employer M/F.
The Department of Microbiology and Molecular Genetics at the University of Illinois at Chicago is seeking well-qualified applicants for the position of department head. The department is a highly active center for experimental and theoretical research programs in high energy, condensed matter, nuclear and laser physics. The Department has 27 faculty and over 80 graduate students, as well as a large undergraduate student body.

Send curriculum vitae, a statement of research interests and names and addresses of three references to: Dr. Lynn Tipton, Faculty Search Committee, Department of Microbiology and Molecular Genetics (B), UMD–New Jersey Medical School, 185 South Orange Avenue, Newark, NJ 07103–2714.

UDMN is an Affirmative Action Equal Employment Opportunity Employer, M/F/H/V, and is member of the University Health System of New Jersey.

**ACADEMIC DIRECTOR OF ARTS AND SCIENCES**

Arizona State University West seeks a senior academic administrator for Arts and Sciences Programs. Qualifications are: an earned Ph.D. or other terminal degree in a discipline taught in one of the programs of the Arts and Sciences at the West Campus; a record of scholarly/artistic and teaching excellence appropriate for a senior faculty position; a record of service and leadership in diversity and faculty governance; 3 years of academic administrative experience in budget, personnel, program development, and curriculum. Desired: administrative experience in a state university. A letter of nomination or application, curriculum vitae, and the telephone numbers and addresses of three references should be sent to: Carol Mueller, Director, Arts and Sciences Director Search Committee, Arts and Sciences, Arizona State University West, P.O. Box 37100, Phoenix, AZ 85069–7100. Applications will be accepted by 15 November 1992 or by the 15th of each succeeding month until the position is filled. Questions regarding the position may be directed to Professor Carol Mueller, telephone: 602-543-6000.

**DIRECTOR BLACK ROCK FOREST PRESERVE**

The Black Rock Forest is a 3600-acre wilderness preserve located in Orange County, New York, just 50 miles north of New York City line. Although physically close to the city, Black Rock Forest is remote, with ponds, brooks, lakes, nature trails, wetlands, and wildlife. A forest director and manager maintain the forest, plan forest management, supervise users. The faculty is administered by the Black Rock Forest Consortium, a group of 14 private and public, educational and research institutions, whose mission is to maintain the forest and promote its resources for scientific and educational endeavors. The Director of the Black Rock Forest should be a skilled scientist/educator committed to preserving the forest, pursuing both its scientific and educational goals and raising external funds. Opportunities may exist for formal affiliation with institutional members of the Black Rock Forest Consortium. Resumes and inquiries should be sent no later than 1 December 1992 to:

Search Committee
Black Rock Forest
Box 483, Continental Road
Ossining, NY 10562.

The appointment will commence no later than 1 July 1992. Competitive salary and benefits will be commensurate with previous experience. The Black Rock Forest is an Equal Opportunity Employer.

**DEPARTMENT HEAD DEPARTMENT OF PHYSICS THE UNIVERSITY OF ILLINOIS AT CHICAGO (UIC)**

The Department of Physics at the University of Illinois at Chicago is seeking well-qualified applicants for the position of department head. The department is a major center for experimental and theoretical research programs in high energy, condensed matter, nuclear and laser physics. The Department has 27 faculty and over 80 graduate students, as well as a large undergraduate student body. The department head is the chief administrative officer with responsibilities for the instructional programs of the department, administrative, budgetary and promotion decisions, and for providing leadership in the development of research, teaching and public service. A candidate should be eligible for appointment as a full professor and have a strong record in research and university teaching, as well as demonstrated leadership and organizational skills. The desired appointment date is 21 August 1992. Applications should be received by 1 December 1991 to receive full consideration, although the search will proceed until the position is filled. Applications must include full curriculum vitae and names and addresses of three references. Applications and nominations should be sent to: Dr. Jean-Pierre Faurie, Search Committee for Department of Physics, University of Illinois at Chicago, 842 East 58th Street, Chicago, IL 60637. UIC is an Affirmative Action/Equal Opportunity Employer.

The University of Adelaide South Australia invites applications from both women and men for a COMPARATIVE PHYSIOLOGIST (Limited-Term Lecturer Level B) available for 3 years from 1 February 1992 in the Department of Zoology. The successful applicant will have a PhD or equivalent qualification, and be able to introduce an animal physiology course to part of a course in practical animal experimentation. Particulars concerning the duties of the position and selection criteria should be obtained from Professor W. D. Williams, Head of the Department of Zoology, telephone: (61) 288 577 843, Facsimile (61) 288 527 131. Annual salary (interim salary scale): AU$38,500 x 7 AU$46,000. Applications in duplicate quoting reference number 41 should be addressed to: The Director, Personnel Services, University of Adelaide, GPO Box 498, Adelaide, South Australia 5001, Telex UNIVAD SCIENCE, 1992, 4348, Fax: (61) 288 480 22 (not later than 15 November 1991). The University is an Equal Opportunity Employer.

**MOLECULAR NEUROIMMUNOLOGY ASSOCIATE MEMBER (C3, WITH TENURE)**

**MAX-PLANCK-INSTITUT (MPI) FÜR PSYCHIATRIE, MÜNCHEN, FRG**

The Department of Neuroimmunology is committed to research into cellular and molecular interactions between the immune system and the brain. We are seeking a younger molecular biologist with recognized achievements in developmental, neuro- or immunobiology. The successful candidate should reach the level of Junior Professor and be expected to contribute to our current research programs, and, in addition, to develop independent projects within the context of the department. More detailed consideration will be given to researchers willing and developing innovative approaches in molecular biology and “reverse genetics.” The position corresponds to the rank of an Associate Professor (C3) and will be determined by tenure. German citizenship is not required. Applicants should include a summary of their previous achievements and a detailed description of the research program, curriculum vitae, names and addresses of referees, together with a list, and reprints of their most significant research publications. Please submit applications to: Hartmut Wekerle, M.D., Department of Neuroimmunology, MPI für Psychiatrie, D-8033 Martinsried, Germany. Telephone: (89) 8578 3551; Fax: (89) 8578 3790.

**DISTINGUISHED CHAIR WHEAT BREEDING**

Washington State University (WSU) announces the O. A. Vogel Distinguished Chair in Wheat Breeding. The incumbent for this prestigious, endowed position will provide research and education leadership for an interdisciplinary team to maintain and develop new wheat cultivars and new wheat improvement technology. Ph.D. in plant breeding, genetics or a closely related field and a record of leadership and development of an internationally recognized crop improvement program are essential. Interested persons should contact: Dr. D. G. Miller, Chair, Department of Crop and Soil Sciences, Washington State University, Pullman, WA 99164-6430. Telephone: 509-335-3471. Nominations are invited. Selection begins 20 January 1992. Position available 1 June 1992.

**DIRECTOR CENTER FOR THE ANALYSIS OF ENVIRONMENTAL CHANGE (CAEC)**

We are seeking an individual to provide leadership and administrative oversight for CAEC, a research center formed cooperatively by the University of Oregon (OSU), the Pacific Northwest Experimental Station of the U.S. Forest Service; the Environmental Research Laboratory–Corvallis, U.S. Environmental Protection Agency; and the Pacific States Marine Science Board. CAEC serves as the focal point for the development of long-term, multidisciplinary research programs pertaining to environmental change. The director will work with associate directors from each of the participating institutions and reports administratively to the Dean of Research, OSU.

The director will be appointed to the OSU faculty at the rank of professor. He or she must be qualified for tenure in an appropriate department at OSU. The position is a 19-month indefinite tenure position. Salary will be commensurate with experience and qualifications.

Applications should be sent to: Dr. Richard A. Scanlan, Dean of Research, AdS 312, Oregon State University, Corvallis, OR 97331–2140. Telephone: 503-737-0663

OSU is an Affirmative Action/Equal Employment Opportunity Employer and is responsive to dual-career needs.

**PHARMACOLOGY**

Southeastern University of the Health Sciences (SEUHS) has two pharmacology, 12-month positions available. Both require teaching of pharmacology to optometry, pharmacy, and osteopathic medical students, and participating in university committees. Appointment will be to ASSOCIATE PROFESSOR/DIRECTOR. Interested candidates should send complete application by January 15, 1992 to: Dr. Harold E. Laubach, Ph.D., Associate Dean for Basic Sciences, SEUHS, 1750 Northeast 16th Street, North Miami Beach, FL 33162. SEUHS is an Affirmative Action/Equal Opportunity Employer.

**POSTDOCTORAL POSITION IN MOLECULAR BIOPHYSICS/BIOCHEMISTRY**

The Black Rock Forest is a 3600-acre wilderness preserve located in Orange County, New York, just 50 miles north of New York City line. Although physically close to the city, Black Rock Forest is remote, with ponds, brooks, lakes, nature trails, wetlands, and wildlife. A forest director and manager maintain the forest, plan forest management, supervise users. The faculty is administered by the Black Rock Forest Consortium, a group of 14 private and public, educational and research institutions, whose mission is to maintain the forest and promote its resources for scientific and educational endeavors. The Director of the Black Rock Forest should be a skilled scientist/educator committed to preserving the forest, pursuing both its scientific and educational goals and raising external funds. Opportunities may exist for formal affiliation with institutional members of the Black Rock Forest Consortium. Resumes and inquiries should be sent no later than 1 December 1991 to:

Search Committee
Black Rock Forest
Box 483, Continental Road
Ossining, NY 10562.

The appointment will commence no later than 1 July 1992. Competitive salary and benefits will be commensurate with previous experience. The Black Rock Forest is an Equal Opportunity Employer.

Innovative research at Sandoz has been enhancing medicine around the world for over 100 years—improving the quality of life for countless individuals and revolutionizing scientific concepts. Sandoz Research Institute, the U.S. pharmaceutical R & D division of Sandoz, Ltd., currently seeks qualified professionals for the following openings in Preclinical Research.

**MOLECULAR BIOLOGIST**
Ph.D. in Molecular Biology or a closely related discipline and a minimum of 2 years of postdoctoral research experience in molecular biology, preferably with an emphasis on the regulation of eukaryotic gene expression; demonstrated ability to plan sound scientific projects, conduct independent research and achieve research goals; a record of significant publications in major scientific journals; and excellent written and oral communication skills. **Position #1824.**

**PEPTIDE CHEMIST**
Ph.D. in Chemistry, Physical Chemistry, Biochemistry or a closely related discipline and several years of postdoctoral research preferably with an emphasis in one or more of the following areas of peptide chemistry: structure-function relationships, secondary structure motifs, conformational energetics, analytical methods and peptide libraries. The candidate must have sufficient experience and ability to assume responsibility for chemistry leadership for a research effort on peptide libraries including collaboration with internal physical and analytical chemists as well as external consultants. **Position #1752.**

**POSTDOCTORAL RESEARCH ASSOCIATES**
**Signal Transduction** - The successful candidate will join a multidisciplinary group dedicated to the discovery of novel approaches for the treatment of diabetes by undertaking fundamental research on aspects of hormone/drug action and signal transduction. Candidates should possess a Ph.D. in Biochemistry, Pharmacology or a related discipline and have a background and interests in aspects of membrane receptors, G proteins and signal transduction. **Position #325.**

**Transgenesis** - Ph.D. in Cell Biology or a related discipline to collaborate on studies to identify new therapeutic targets in diabetes using transgenic animals generated by homologous recombination of embryonic stem cells. Prior hands-on experience with embryonic stem cell lines and the construction of vectors for homologous recombination would be advantageous. The successful candidate must be willing to spend approximately 12 months working in Basel, Switzerland in our Transgenic Animal Laboratory. **Position #322.**

Our postdoctoral positions are for a period of up to two years.

Being part of the research team at Sandoz has many advantages. Our salaries and benefits programs are designed to attract top candidates and provide them with the resources to produce their best. Comprehensive health, dental, and savings plans as well as fitness and athletic facilities are all provided at our attractive location in northwest New Jersey, which also allows for outstanding academic, cultural and outdoor pursuits. For consideration, please specify the position you are responding to and forward your resume, in confidence, to:

Robert N. Saunders, Ph.D.
Director, Human Resources 403/1
SANDOZ RESEARCH INSTITUTE
SANDOZ PHARMACEUTICALS CORP
East Hanover, New Jersey 07936

An Equal Opportunity Employer M/F/H/V

Sandoz
bringing research to life
POSITIONS OPEN

GUTHRIE RESEARCH INSTITUTE
SENIOR SCIENTIST/DIRECTOR

Applications are invited for the position of Senior Scientist/Director of the Guthrie Research Institute. The successful candidate will have 5 to 10 years of postdoctoral experience and the ability to attract and retain research support, and a desire to pursue expanded research opportunities in the area of human immunology. The selected candidate will be expected to provide leadership to the growth and direction of a human immunology research program situated in a medical setting.

The Guthrie Research Institute is a component of the Guthrie Medical Group, located in Sayre, Pennsylvania. Affiliated entities include the Guthrie Clinic, a 240-physician, multi-specialty medical group, and the Robert Packer Hospital, an acute care teaching hospital.

Interested candidates should submit their curriculum vitae including references to:

John M. Thomas, M.D., President
Donald G. Foundation
Guthrie Regional Medical Center
Sayre, PA 18840

BIOCHEMISTRY FACULTY POSITIONS. Applications are invited for two tenure-eligible positions in the Department of Medical Biochemistry at the Ohio State University. Candidates should have a Ph.D. or M.D. and a minimum of 2 years of postdoctoral experience. The successful candidates will be expected to sustain first-rate research programs as well as to advise and direct graduate students. In the area of research interest and academic rank are open. Send curriculum vitae, summary of research plans and names of three individuals for reference by December 1991: to Search Committee, Department of Medical Biochemistry, Ohio State University, 353 Hamilton Hall, 1645 Neil Avenue, Columbus, OH 43210. Ohio State University is an Equal Opportunity/Affirmative Action Employer.

THE JOHNS HOPKINS UNIVERSITY
FACULTY POSITION IN ENVIRONMENTAL ENGINEERING AND SCIENCE

The Department of Geography and Engineering in the G. W. C. Whiting School of Engineering at Johns Hopkins invites applications for a tenure-track position in environmental engineering and science. Rank is open. We are particularly interested in applicants in the areas of air quality, environmental chemistry, environmental engineering, environmental epidemiology, and environmental quality modeling. Candidates should have evidence of research accomplishment and plans for an innovative and productive research agenda in a relevant area of environmental engineering and science. The position will be jointly appointed in the department's teaching mission, area of research interest and academic rank are open. Send curriculum vitae, summary of research plans and names of three individuals for reference by December 15, 1991: to Charles R. O'Melia, Chairman, Department of Geography and Environmental Engineering, The Johns Hopkins University, 34th and Charles Streets, Baltimore, MD 21218. The closing date for applications is 15 December 1991. Johns Hopkins is an Equal Opportunity/Affirmative Action Employer and is committed to increasing the numbers of faculty who are women and underrepresented minorities. Applicants in these categories are encouraged to apply.

FACULTY POSITIONS IN PHYSIOLOGY AND BIOPHYSICS
CASE WESTERN RESERVE UNIVERSITY

The Department of Physiology and Biophysics invites applications for tenure-track junior and senior positions. Candidates with high potential in membrane protein structure and function, especially using biological approaches, are encouraged to apply. Tenure-track and non-tenure-track appointments provide excellent opportunities to develop strong, independent research programs in newly built state-of-the-art facilities in an expanding department and research community.

Submit curriculum vitae, brief statement of present and proposed research interest, representative reprints, and names and addresses of three references: to: Antonio Scarpulla, Department of Physiology and Biophysics, Case Western Reserve University, 10900 Euclid Avenue, Cleveland, OH 44106-4970. The University is an Equal Opportunity/Affirmative Action Employer.

POSITIONS OPEN

SUMMER FACULTY POSITIONS IN THE SPACE LIFE SCIENCES TRAINING PROGRAM (SLSTP) A NASA PROJECT

Five Project Counselor positions are open in the 1992 SLSTP to be held at the Kennedy Space Center, Florida. Project Counselors would be responsible for the administration of the 7-week-long program (starting mid-June 1992) activities for undergraduate science and engineering students. An applicant must have a minimum of a M.S. degree (Ph.D. preferred) and some experience teaching and doing research with undergraduates in life sciences and related fields. Experience with international or multicultural students is desired. Applications should be submitted in an appropriate envelope packet (all application materials must be postmarked by 31 December 1991) to:

SLSTP Program Director
FL 515 725 North Wolfe Street
106 Honor House
Tallahassee, FL 32307
Telephone: 904-599-3623/3636

CELL BIOLOGY–NUCLEAR RNA. A POSTDOCTORAL POSITION will become available in January 1992 for a Ph.D. with expertise in microinjection of maternal mRNA into the nucleus to study RNA localization. This position would be ideal for an individual having experience in intracellular transport or cytokinesis/orchidogenesis. Send curriculum vitae and names of three references to: Dr. Thoro Pederson, Cell Biology Group Leader, Department of Experimental Biology, Shrewsbury, MA 01545. The Worcester Foundation is an Affirmative Action/Equal Employment Opportunity Employer.

POSTDOCTORAL POSITION available immediately to study the function of cystic fibrosis gene product in intestinal epithelial cells, using molecular biology and digital fluorescence imaging. Salary commensurate with experience. Send curriculum vitae, bibliography and names of three references (to: Charles R. O'Melia, Chairman, Department of Geography and Environmental Engineering, The Johns Hopkins University, 34th and Charles Streets, Baltimore, MD 21218) by December 15, 1991: to: Dr. Greg Bilezikian, Department of Pathology, Department of Medicine, University of Massachusetts Hospital, 1402 South Grand, St. Louis, MO 63104. Equal Opportunity Employer, M/F/H.

POSTDOCTORAL POSITIONS available immediately to study the molecular genetics of regulatory genes and genome organization in maize and sorghum. Experience in molecular biology is essential. Send curriculum vitae and names of three references to: Dr. Jeff Bennetzen, Department of Biological Sciences, Purdue University, West Lafayette, IN 47907.

POSTDOCTORAL POSITION available February 1992 to study mechanisms of hepatic microvascular injury using video fluorescence microscopy in vivo and quantitative immunofluorescence analysis in cell-culture models. Candidate should have a Ph.D. in physiology or related field and pertinent experience. Send curriculum vitae and names of three references to: Mark G. Clemens, Ph.D., Johns Hopkins University School of Medicine, 601 North Broadway CMSC 7-121, Baltimore, MD 21205. An Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL ASSOCIATE POSITION available immediately for Ph.D. or M.D. to examine the molecular mechanisms involved in the regulation of dendritic spine remodeling. Candidates should have a Ph.D. degree in neuroscience and experience with dendritic spine dynamics. Send curriculum vitae and names of three references to: Dr. Angelino Scarpulla, Department of Neurobiology, Division of Neuroscience and Primate Medicine available. Send curriculum vitae and names of three references to: Dr. Jeff Bennetzen, Department of Biological Sciences, Purdue University, West Lafayette, IN 47907. Excellent location, modern laboratory design. Research facility. Excellent salary and benefits. For more information contact Dr. John Stewardson, 609-864-7736.

POSTDOCTORAL POSITION available immediately to study the characterization of the mouse olfactory bulb. Send curriculum vitae and names of three references to: Dr. Mark T. Wolfs, Department of Psychobiology, Division of Neuroscience and Primate Medicine available. Send curriculum vitae and names of three references to: Dr. John Stewardson, 609-864-7736.

POSITIONS OPEN

MOLECULAR PHYSIOLOGY OF SICKLE CELL ANEMIA

POSTDOCTORAL POSITION

HARVARD MEDICAL SCHOOL

NIH-funded position available immediately, to clone and characterize the potassium transport systems which regulate the vacuolar transmembrane potential of erythroid cells. Ph.D.'s or M.D.'s with prior experience in molecular cell biology should send curriculum vitae and three references to: Dr. Bruce W. Kellerman, M.D., Laboratory of Molecular Medicine, Unit, 326 Brookline Avenue, Boston, MA 02115. Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL ASSOCIATE

A postdoctoral position is open immediately to study gene expression in early Xenopus development. One of our main interests concerns the translational control of maternal mRNA (alpha) elongation. See Genes and Development 5, 1697 to 1708 (1991) for reference. We are especially interested in individuals with expertise in molecular biology and/or protein biochemistry. Please send curriculum vitae and names of three references to: Dr. Joel Richter, c/o Personnel Office, Worcester Foundation for Experimental Biology, 222 Maple Avenue, Shrewsbury, MA 01545. Worcester Foundation is an Affirmative Action/Equal Opportunity Employer, M/F/H.

POSITION POSTION

Applications are invited for a highly motivated scientist at the Florida Hospital Cancer and Leukemia Research Center. Applicants must have a Ph.D. in biochemistry/microbiology with emphasis in molecular biology. The individual will immediately supervise recombinant DNA and cell culture and characterization of syntheses of nuclear and cytosolic/organellar proteins using real-time, image-processing-based techniques. Send curriculum vitae, bibliography, curriculum vitae and names of three letters of recommendation to:

Dr. Arthur Frankel, Director Florida Hospital Cancer and Leukemia Research Center 616 East Altamonte Drive, #100 Altamonte Springs, FL 32710 (Greater Orlando Area) Telephone: 407-339-1004

POSTDOCTORAL POSITION available immediately for studies of mitochondrial membrane transport proteins. The candidate will study PTP, a protease. Send curriculum vitae, bibliography, and names of three letters of recommendation to:

Dr. John Stewardson, 609-864-7736.

POSTDOCTORAL POSITION available immediately for studies of human membrane transport proteins. Send curriculum vitae, bibliography, and names of three letters of recommendation to:

Dr. John Stewardson, 609-864-7736.

POSTDOCTORAL POSITION available immediately for studies of membrane transport proteins. Send curriculum vitae, bibliography, and names of three letters of recommendation to:

Dr. John Stewardson, 609-864-7736.
Penn State Erie, The Behrend College, invites applications and nominations for the position of Head of the Division of Science.

Penn State-Behrend is a comprehensive university campus with four-year and graduate programs and with an emphasis on both scholarship and teaching. It is located in the scenic city of Erie, the third largest city in Pennsylvania, and has over 3,000 students. Situated in the hills overlooking Lake Erie, the picturesque campus encompasses over 600 acres of natural wooded beauty. The region offers a wide range of indoor and outdoor activities and events.

The Division of Science, a new academic unit due to growth, includes 40 FTE faculty offering baccalaureate programs in biology, chemistry, mathematics, and physics. Other faculty disciplines include computer science and geology. The University plans to develop graduate programs in science.

Expectations for the Position: The Head of the Division is expected to: provide leadership, vision, and communicate clearly with faculty and administrators; lead and assist faculty in developing and applied research with attention to external funding and the effective use of graduate research assistantships; lead and assist faculty in developing undergraduate and graduate programs; promote an atmosphere in which faculty are encouraged to achieve their highest potential so that the best faculty are attracted and retained; promote involvement with the local educational and community entities; and participate in the development of and implementation of Division policies and strategic plans.

Qualifications: Candidates must have an earned Ph.D. and a record of productive research at the time of appointment. Applicants must have an excellent record of teaching, scholarship, and refereed research with considerable grants or other external funding experience.

Appointment and Application Information: This tenured faculty position carries a standing 12-month appointment to be effective July 1, 1992. Salary is nationally competitive. The search will continue until the position is filled, and applicants will be notified of their status.

Interested candidates should forward a detailed vita and names of three references to: Chair, Science Search Committee c/o Provost's Office Box SCI, Penn State Erie Station Road Erie, PA 16563-0801

The SUNY Health Science Center at Syracuse (HSC), comprising the College of Medicine, the College of Health Related Professions, College of Graduate Studies, the College of Nursing, and University Hospital, invites applications and nominations for the position of Dean of the College of Medicine and Vice President for Biomedical and Medical Education.

The Dean and Vice President is a joint academic officer of our academic health center which is the primary medical/health care professional education and patient care resource for the region.

The position is expected to serve as the Head of the College of Medicine and the Director of the Syracuse Regional Medical Center. The position is responsible for the strategic planning, implementation, and coordination of the College's mission and goals.

The College of Medicine offers comprehensive programs in biomedical sciences, clinical sciences, and health professions. The College also offers advanced degrees and research opportunities in the basic and biomedical sciences.

The College of Medicine is committed to excellence in teaching, research, and patient care. The College is dedicated to providing leadership in the development of new academic programs and the implementation of all educational, research, and service programs of the College.

The College of Medicine is committed to diversity in its faculty, students, and staff. Applicants should be able to demonstrate a commitment to diversity in the context of the College's mission.

Applications should be submitted to: Chair, Search Committee, College of Medicine Post Office Box 30941, Syracuse, NY 13210-3999

Applications should be received by December 1, 1991. Penn State Erie is an Equal Opportunity Employer.

The Wistar Institute, an independent research organization located on the campus of the University of Pennsylvania, is currently seeking Post doctoral applicants interested in cancer-oriented research. Wistar has maintained a reputation for pioneering work and ground-breaking accomplishments since its founding nearly 100 years ago.

Wistar is a research institute dedicated to the advancement of cancer research. Wistar's general areas of research include: Molecular Oncology, Molecular Virology, Cell & Developmental Biology, Tumor Biology & Immunology, Cell & Molecular Immunology, and Structural Biology.

Interested applicants are requested to send a Curriculum Vitae and the names of three references to: Coordinating Chair Search Committee, THE WISTAR INSTITUTE, 36th & Spruce Streets, Philadelphia, PA 19104.
POSTDOCTORAL ASSOCIATE

TWO POSTDOCTORAL ASSOCIATE POSITIONS are available immediately in the Tumor Immunology Unit, which investigates the role of tumor necrosis and tyrosine phosphatases in human lymphocyte development and differentiation [PNAS 88, 3589 (1991), and JBC 266, 17474 (1991)]. The position would suit individuals who have had postdoctoral experience in organic chemistry, biochemistry, or molecular biology, and who are interested in cancer immunology, and as well as in individuals who have recently obtained their Ph.D. in biochemistry, chemistry, immunology, or microbiology. Applications including the names of three references should be sent to: Dr. Ronald G. Martin, Tumor Immunology Unit, National Institutes of Health, Bldg. 10, Rm. 10B055, Bethesda, MD 20892. Visit the NIH web site http://www.nih.gov for current employment opportunities.

DROSOPHILA MOLECULAR NEUROBIOLOGY

POSTDOCTORAL ASSOCIATE position in Drosophila molecular neurobiology available immediately. Interested candidates should have a Ph.D. in developmental biology, behavior, electrophysiology, or related fields. Send curriculum vitae and names of three references to: Dr. Charles S. Sherman, Department of Neurobiology, Boston University, 83 North St., Boston, MA 02215.

POSTDOCTORAL POSITIONS AVAILABLE

The Departments of Biology and Chemistry at Bowling Green State University, Bowling Green, Ohio 43403, are seeking qualified candidates for postdoctoral positions. Applicants should have a Ph.D. in biochemistry, cell biology, development, genetics, immunology, molecular biology, or related fields. A broad range of projects is available. The successful candidates will be expected to work in both the laboratory and the classroom. Salary is negotiable. Send a letter of application and a full CV, including a list of three references, to: Dr. G. R. Grace, Department of Biology, Bowling Green State University, Bowling Green, OH 43403. Please indicate position of interest in your letter of application.

POSTDOCTORAL ASSOCIATE

Two positions are available in the laboratory of Dr. D. A. T. Nelson, Department of Pharmacology, University of New Hampshire, Durham, New Hampshire 03824-3558. The laboratory studies experimental hypertension. The two positions focus on angiotensin II receptors in the brain. Starting dates: July 1 or January 1. Applicants must have a Ph.D. in pharmacology or a related field. Salary: $14,000. Send complete applications to: Dr. D. A. T. Nelson, Department of Pharmacology, University of New Hampshire, Durham, NH 03824-3558.

POSTDOCTORAL ASSOCIATE

The laboratory of Dr. W. J. Young, Department of Neurobiology and Behavior, University of California, Irvine, is seeking a postdoctoral associate to study cellular mechanisms underlying hippocampal plasticity using in vitro and in vivo electrophysiology and imaging techniques. Applicants should have a Ph.D. in neurobiology. Salary: $24,000. Send a letter of application and a CV to: Dr. W. J. Young, Department of Neurobiology and Behavior, University of California, Irvine, CA 92717-3373.

POSTDOCTORAL ASSOCIATE

The lab of Dr. A. T. Barchi, Department of Pharmacology, University of North Carolina, Chapel Hill, NC 27514, is seeking a postdoctoral fellow to study the role of adenosine A1 receptors in the heart. Salary: $23,000. Send curriculum vitae, copies of graduate school transcripts, and current bibliography to: Dr. A. T. Barchi, Department of Pharmacology, University of North Carolina, Chapel Hill, NC 27514.

POSTDOCTORAL ASSOCIATE

The laboratory of Dr. R. B. Cervone, Department of Neurobiology and Behavior, University of California, Irvine, is seeking a postdoctoral associate to study the role of adenosine A1 receptors in the heart. Salary: $23,000. Send curriculum vitae, copies of graduate school transcripts, and current bibliography to: Dr. R. B. Cervone, Department of Neurobiology and Behavior, University of California, Irvine, CA 92717-3373.

POSTDOCTORAL FELLOWSHIPS IN MOLECULAR BIOLOGY

The Department of Molecular Biology, University of California, San Francisco, is seeking applications for 2-3 postdoctoral fellowships in molecular biology for the 1993-1994 academic year. The Department is interested in candidates with training in molecular genetics, protein chemistry, cell biology, and cell biology. Salaries range from $28,000 to $38,000, depending on experience. Send curriculum vitae, three letters of recommendation, and copies of the recent articles published by the applicant to: Dr. W. L. Swanson, Department of Molecular Biology, University of California, San Francisco, CA 94143.

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Research Opportunities At The National Institute On Alcohol Abuse And Alcoholism/ADAMHA.

The National Institute on Alcohol Abuse and Alcoholism (NIAAA), located at the National Institutes of Health campus, offers an environment of unparalleled academic opportunity. Four positions are immediately available for Staff Fellows and Senior Staff Fellows with NIAAA:

Staff Fellow or Senior Staff Fellow position available now for animal behavioral geneticist to focus on the neurogenetics of serotonin function. The position is in the laboratory of Dr. David Goldman, Section on Genetic Studies, Laboratory of Clinical Studies. Salary range is $24,000 to $52,825, depending upon qualifications and experience. Applicants should have a PhD or MD and training in molecular biology, recombinant DNA technology, or neurobiology.

Staff Fellow or Senior Staff Fellow position available now to investigate genetic variation and molecular mechanisms controlling expression of genes involved in serotonergic neurotransmission. The position is in the laboratory of Dr. David Goldman, Section on Genetic Studies, Laboratory of Clinical Science. Salary range is $24,000 to $52,825, depending upon qualifications and experience. Applicants should have a PhD or MD and training in animal behavior, genetics, and/or neurobiology.

The National Institute on Alcohol Abuse and Alcoholism (NIAAA), located at the National Institutes of Health campus, offers an environment of unparalleled academic opportunity. Four positions are immediately available for Staff Fellows and Senior Staff Fellows with NIAAA:

Staff Fellow or Senior Staff Fellow position available now for a fellowship to study the effects of ethanol withdrawal on drug-metabolizing enzymes. The Section focuses on the alteration of drug-metabolizing activity as the result of alcohol consumption. A unique opportunity exists for the successful applicant to participate in basic studies of enzyme activity and clinical studies involving altered pharmacokinetics of therapeutic agents. A background in biochemistry or pharmacology and experience with in vitro enzyme assays and/or HPLC is appropriate for this position. Applicants should have less than three years postdoctoral experience.

Each of these fellowship opportunities represents the chance to work side-by-side with some of the most cited physicians and scientists in the world, in one of the world's foremost biomedical research facilities. To apply for these positions, please send your CV, three letters of reference (or names of three references), and a one page description of relevant research interests to Mr. Michael Yuter, Personnel Management Branch, NIAAA, ADAMHA.

National Institute On Alcohol Abuse And Alcoholism
Alcohol, Drug Abuse, And Mental Health Administration
Building 31, Room 1B54, 9000 Rockville Pike, Bethesda, Maryland 20892
Equal Opportunity Employer
Molecular Biology
Diabetes and Rheumatoid Arthritis

Develop novel antigen identification methods, coordinate molecular biology efforts, construct cDNA libraries, develop eukaryotic and prokaryotic expression systems, and investigate the molecular mechanisms responsible for T cell non-responsiveness.

Requirements: Ph.D. in Molecular Biology or a related field with a molecular biology emphasis; 2-5 years' postdoctoral experience, or equivalent. Experience with tissue culture and immunological techniques is highly desirable.

Organic Chemist

Investigate the structural requirements for MHC class II-antigen binding via computer-aided design and synthesis of peptides and peptidomimetics.

Requirements: We prefer a Ph.D. in Organic Chemistry with a strong record of achievement, but we’re open to a wide range of backgrounds and qualifications. Experience with computer-assisted molecular modeling and medicinal chemistry techniques is desirable.

RESEARCH — PALO ALTO, CALIFORNIA

Instinctive For Some...

We don’t claim to be right for everyone. But for people who are attracted to a non-bureaucratic environment where consensus is freely tested, we can be the right choice. At ImmuLogic, our discoveries have allowed us to develop an advanced understanding of the events controlling the human immune system. At our state-of-the-art research facility in Palo Alto, California, we’re focused on developing therapeutic products for Type I diabetes, rheumatoid arthritis, and other autoimmune disorders.

With the success of our recent stock offering, and our ongoing collaboration with Merck and Company, Inc., we’re primed to continue our excellent research. We can also offer you an extremely competitive compensation/benefits package. Send your C.V. to Human Resources.

IMMULOGIC
Pharmaceutical Corporation
855 California Avenue, Palo Alto, CA 94304
An Equal Opportunity Employer.

R & D OPPORTUNITIES

MedImmune, Inc. is committed to the discovery and application of novel molecular and immunological strategies toward the development of vaccines and therapeutic agents for human infectious diseases. We currently have several openings in our research organization for creative, hardworking individuals with records of demonstrable productivity in the following areas:

ANTIBODY ENGINEERING. Scientist level—We require an MS/PhD with several years’ research experience in the rational design, molecular cloning and expression of recombinant immunoglobulin genes and the evaluation of the immunological properties of antibodies.

ANTIBODY ENGINEERING. Research Associate level—Candidates should have a BS/MS and several years’ laboratory experience in several of the following areas: RNA and DNA purification, cDNA cloning, PCR, DNA sequencing, Western and ELISA.

BACTERIAL GENETICS. Scientist level—You should have an MS/PhD in molecular biology/microbiology with several years’ research experience in the optimization of expression of eukaryotic viral genes in bacterial vector/host systems. Experience with mutagenesis techniques and in the development of live bacterial vaccine vehicles is also desirable.

IMMUNOLOGY. Research Associate level—We seek a BS/MS and laboratory experience in several of the following areas: lymphocyte functional assays, lymphocyte subset purification, immunofluorescence, small animal handling, Western immunoblot, ELISA, immunoprecipitation, hybridoma technology and antibody purification.

MAMMALIAN CELL EXPRESSION. Research Associate level—The successful candidate will possess a BS/MS and several years’ experience in mammalian cell culture, RIA and ELISA techniques and protein purification.

Virology. Research Associate level—You should have a BS/MS with several years of laboratory experience in mammalian cell culture, virus propagation, virus neutralization, and viral antigen detection, specifically with either HIV or HSV.

We offer competitive salaries, an excellent benefits package and a unique opportunity for professional growth. Applicants should submit their resume for prompt, confidential consideration to: MedImmune, Inc., Human Resources, 19 Firstfield Road, Gaithersburg, MD 20878. Equal Opportunity Employer.

TargetTech, Inc. is a research stage biopharmaceutical company pursuing a novel non-retroviral technology for gene therapy and treatment of selected cancers and viral diseases. This is an exceptional opportunity for highly motivated, innovative scientists with the desire to be an integral member of a multidisciplinary team in our start-up, entrepreneurial environment.

BS/MS Organic Chemists — We seek bio-organic chemists to participate in the preparation and characterization of pharmaceuticals for treatment of genetic disorders, cancer and viral diseases by targeted delivery. Chemists should be experienced in synthetic techniques using both organic and aqueous media.

Ph.D. Molecular Biologists — We seek scientists with demonstrated skills in the area of mammalian expression systems to develop programs focused on using proprietary technology for transfecting genes into cultured cells and animal models. Particular emphasis will be placed on exploring approaches for improving the level of expression of human genes that will be used therapeutically.

Ph.D. Cell/Receptor Biologist — Scientist with experience in general cell biology and receptor-mediated endocytosis. Individual will have responsibility to establish a program that will expand our novel receptor-mediated system and to improve delivery of DNA.

BS/MS Scientists Cell/Molecular Biology — We seek scientists who wish to participate as members of interactive teams. Cell biologists should be familiar with a range of cell biology/biochemistry methods. Molecular biologists should have proven skills in DNA/RNA isolation, Northern/Southern blotting, plasmid prep, PCR, etc.

TargeTech, Inc. is committed to providing a nurturing environment for creative, highly motivated scientists by offering competitive salaries, a comprehensive benefits package and equity participation in the company. Submit resumes to: TargeTech, Inc., Human Resources, 230 Pratt St., Meriden, CT 06450. We are an equal opportunity employer.

Research Scientists
Immunology

THE SCIENCE OF SUCCESS

Since its beginning in 1933, Schering-Plough's dedication to state-of-the-art immunological research has resulted in a host of life-giving and life-enhancing therapies for man, including the recent successful launch of Intron A. Our current work on IL-4, GM CSF and IL-10 creates excellent opportunities for qualified individuals to join this team-oriented environment.

ASSOCIATE SCIENTIST (6 positions)

Will investigate the role of cytokines in models of autoimmune diseases. Ability to work with small animals and in-vivo immunology experience is required. Position requires Bachelor's degree in biology, cell biology or immunology with 2-3 years' experience.

ASSOCIATE SCIENTIST

Evaluate and implement new techniques to investigate molecular mechanisms of gene regulation. To qualify, you must have a B.S. degree with 4+ years' experience or M.S. with 2+ years in the areas of recombinant DNA and cell culture techniques, northern blotting, cDNA and genomic cloning, transfection of mammalian cells, maintenance of tissue culture lines, PCR and nucleic acid sequencing. Familiarity with sequence analysis software is necessary.

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

Schering-Plough
PRODUCT DEVELOPMENT
Assay Development/Quality Control

Amylin Corporation in San Diego, CA, is a development stage pharmaceutical company working on products for diabetes and related metabolic disorders, initially based on amylin, a recently discovered pancreatic beta cell hormone (see Cooper et al., Biochemistry et Biophysica Acta (1989) 1014:247-50). The Department of Product Development has two new openings for outstanding individuals with demonstrated accomplishment in assay development and quality control procedures. These individuals will be part of a new Quality Control group within the company. They will be responsible for developing and supporting a range of assays for in-process testing/validation and specification/release of bulk and final product. Experience with recombinant proteins is preferred.

Senior Staff Scientist: We are seeking a qualified M.S. or Ph.D. with industrial experience, knowledge of GMP and GLP, and hands-on expertise in assay development, assay validation, and written documentation. This person will direct the group's activities and manage the interface with Regulatory Affairs.

Research Associate: We are seeking a qualified individual with good assay development skills and previous experience with transfer of assays to QC and GMP/GLP.

Amylin Corporation offers a stimulating and challenging opportunity to participate in a new area of biomedical science, as well as an excellent benefits package which includes equity ownership participation. Please send your curriculum vitae and names and addresses of three references to: Ms. Audrey McGovern, Human Resources Administrator, Amylin Corporation, 9573 Towne Centre Dr., Suite 250, San Diego, CA 92121, or FAX (619) 552-2212. Amylin Corporation is an Equal Opportunity Employer.

RESEARCH OPPORTUNITIES IN BIOTECHNOLOGY

The Department of Biotechnology is seeking applicants for our ongoing program of crop improvement. Pioneer offers competitive salaries, excellent facilities and a highly cooperative research environment. Successful candidates will be expected to interact extensively with ongoing programs in transformation, gene expression, gene isolation or RFLP programs.

RESEARCH ASSOCIATE, VECTOR CONSTRUCTION (JOB #1365) - The successful candidate for this position will be part of a team of people responsible for the design and construction of vectors for proper expression in plants. The vector construction effort is carried out in the DNA Core Facility of the Gene Expression group. A B.S. degree or equivalent work experience in biological sciences, molecular biology or related field and 3 years directly related laboratory experience are required. Applicants should also have experience in cloning and/or vector construction methods.

SENIOR RESEARCH ASSOCIATE, GENE EXPRESSION ASSAYS (JOB #1361-A) - The successful candidate for this position will be responsible for designing, developing and performing transient assays for gene expression in plant tissues within the Gene Expression group. A M.S. degree in biological sciences or equivalent work experience plus 3 years directly related laboratory experience or a B.S. degree or equivalent work experience plus 5 years directly related laboratory experience are required. Applicants should also have experience in use of particle bombardment for transient and/or stable transformation in plants.

Applications received by November 11, 1991 will be assured of consideration. However, applications will be considered until the positions are filled.

Pioneer Hi-Bred International, Inc. is an Equal Opportunity/Affirmative Action employer.

Please send resume indicating the JOB # and the names, addresses and telephone numbers of three references to:

PIONEER HI-BRED INTERNATIONAL, INC.
Plant Breeding Division
Department of Biotechnology Research
Attn: Jane Blacketer
P.O. Box 38
Johnston, IA 50131-0038

Postdoctoral Researchers
Neuroscience

Genentech, Inc., a leader in the biotechnology industry, has exceptional opportunities to join our progressive company. Consider one of the following:

Neurotrophin Biology

In this position, you will study the biology of neurotrophins. Qualified candidates must have a related PhD and an interest in the role of neurotrophins in neuronal development or in degenerative disorders. Special consideration will be given to those who wish to investigate the role of trophic factors in human CNS disorders and/or animal models of disease. Dept. YS/HP.

Molecular Neurobiology

In this position, you will study the role of mammalian transcription factors, related to Drosophila neurogenic genes, in neuronal development and phenotype regulation. Requires a related PhD and a background in Molecular Biology with an interest in cellular neurobiology, specifically in the area of the structure and function of the neurotrophins NT-3 and BDNF. Dept. YS/JW.

A second position also exists for a Postdoctoral Researcher trained in molecular biological techniques. Studies include the analysis of neurotrophic factors using a combination of molecular, anatomical and pharmacological approaches. A specific project includes the use of mutagenesis to analyze structure-activity relationships between the neurotrophic factors and their receptors. Dept. YS/SP.

Genentech offers an extensive benefits package which includes fully paid dental/medical/vision coverage for you and your dependents, child care facilities and free health club membership. For immediate consideration, please send your resume, indicating dept. of interest, to Genentech, Inc., Human Resources, 400 Point San Bruno Blvd., South San Francisco, CA 94080. We actively support and promote affirmative action and equal employment opportunity.

Genentech, Inc.
ASSISTANT BIOPHYSICIST position available at teaching hospital affiliated with leading medical school to conduct research into the optimization of radiation therapy of cancer. Duties include: the development of bio-physical models of radiation effects on tissue and the quantitation of the quality of treatment. The position requires: Ph.D. degree in physics with minimum of 2 years of postdoctoral research in mathematical methods of the physical sciences. Applicants should submit a letter of application, including curriculum vitae, a statement of research interests, and three letters of reference. Current salary: $65,000. Interested individuals should send letter of application, curriculum vitae, statement of research and teaching interests, and three letters of reference to: Chairperson, Department of Biophysics, University of California, San Francisco, CA 94143.

Conduct research into the physical aspects of tumor biology and radiation therapy. The position requires: Ph.D. in physiology, biochemistry, or related fields with strong background in radiation biology. Applicants should submit a letter of application, including curriculum vitae, statement of research and teaching interests, and three letters of reference. Current salary: $65,000. Interested individuals should send letter of application, curriculum vitae, statement of research and teaching interests, and three letters of reference to: Chairperson, Department of Radiation Biology, University of California, San Francisco, CA 94143.

Minimum qualifications: Bachelor's degree with 1 year of experience in the area of research. Salary: $30,000 per year. Interested applicants should contact: Dr. J. A. Smith, 500 Research Drive, Madison, WI 53706.

CONDUCT RESEARCH into the physical aspects of tumor biology and radiation therapy. The position requires: Ph.D. in physiology, biochemistry, or related fields with strong background in radiation biology. Applicants should submit a letter of application, including curriculum vitae, statement of research and teaching interests, and three letters of reference. Current salary: $65,000. Interested individuals should send letter of application, curriculum vitae, statement of research and teaching interests, and three letters of reference to: Chairperson, Department of Radiation Biology, University of California, San Francisco, CA 94143.

Conduct research into the physical aspects of tumor biology and radiation therapy. The position requires: Ph.D. degree in physics or related fields with strong background in radiation biology. Applicants should submit a letter of application, including curriculum vitae, statement of research and teaching interests, and three letters of reference. Current salary: $65,000. Interested individuals should send letter of application, curriculum vitae, statement of research and teaching interests, and three letters of reference to: Chairperson, Department of Radiation Biology, University of California, San Francisco, CA 94143.

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Senior Research Scientist
Biopolymer Laboratory

The Medical Research Division of American Cyanamid Company currently seeks a Senior Research Scientist to join its Cardiovascular and Central Nervous System Research efforts at our Lederle Laboratories located in a campus-like environment at Pearl River, New York, just 25 miles north of New York City.

The successful candidate should be thoroughly familiar with oligonucleotide technologies including their synthesis, purification, sequencing, and utilization for DNA library screening, primer extension analysis, DNA and mRNA polymerase chain reactions, gel shift assays, and DNA sequencing by conventional methods and using DNA sequencers. Knowledge of sequencing data management and analysis using available software such as construction of restriction maps, prediction of mRNA secondary structure, mRNA translation, and screening of various DNA and protein databases is also required.

A Ph.D. with 3-5 years experience is preferred, but we will consider MA or BS level individuals. Good interpersonal skills are required to supervise a research technician and interface effectively with other researchers for updating them on current developments in oligonucleotide technologies and sequencing data management. The pursuit of personal research interests will be strongly encouraged.

We offer a competitive salary and comprehensive benefits. Apply with curriculum vitae and minimum of three references to: Sotirios Karathanasis, Ph.D., Department Head, Molecular Cardiology, American Cyanamid Company, Lederle Laboratories, Pearl River, NY 10965. FAX: (914) 735-1978. An Equal Opportunity Employer M/F/D/V.

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**POST-DOCTORAL SCIENTIST**
MOLECULAR/RECEPTOR BIOLOGY

Support new areas of growth with your strong research background

Hoechst-Roussel Pharmaceuticals Inc., fast-growing subsidiary of Fortune 100 Hoechst Celanese, has an immediate opportunity for a creative problem solver to join the Neuroscience Group at its Bridgewater, NJ research facility.

In this challenging role you'll work with Interleukin 1 and other cytokines to investigate their roles in the neurodegenerative processes associated with Alzheimer's Disease. Your goal is to gain an understanding of cytokine receptor mediated signal transduction in neuronal systems, and to explore the potential for therapeutic intervention at the level of cytokine-signalling.

To qualify, you'll need a Ph.D. in Molecular Biology, Biochemistry or related discipline. Experience in molecular and receptor biology is essential. A background in cytokines, neurobiology and tissue culture will be a plus.

We offer an excellent salary, comprehensive benefits, including dental, and on-site fitness center. For prompt consideration, please send your resume with salary history/requirements to: Steven Scott, Section 3100, Hoechst-Roussel Pharmaceuticals Inc., Route 202-206, P.O. Box 2500, Somerville, NJ 08876-1258. An affirmative action employer M/F/H/V.

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**Molecular Biology**

**Senior Research Scientist**

**Center for Molecular Biology**

ASSISTANT, ASSOCIATE AND FULL PROFESSOR - Applications and nominations are invited for university-funded research-track faculty positions at the assistant, associate or full professor level in the Center for Molecular Biology, an interdisciplinary program in the Division of Research and Graduate Studies. Research laboratories with excellent equipment and support facilities are located in the new Biological Sciences Building on the main campus of the University in proximity to one of the largest medical centers in the United States. Substantial start-up funds are available for these positions. The Center currently has nine full-time and three half-time primary faculty and will be undergoing substantial expansion during the next few years. Candidates should have a Ph.D. degree in molecular biology or a related area, or an M.D. or M.D./Ph.D. degree, and also have several years of postdoctoral training. The successful candidates will be expected to establish vigorous independent research programs that will be highly competitive for extramural funding. Candidates with interest and/or experience in promoting economic development through effective technology transfer are especially encouraged to apply. Applicants should send curriculum vitae, a brief description of current and future research interests (three to four pages), a bibliography and reprints of significant publications, and recommendations from at least three references by Nov. 30, 1991:

Dr. Robert H. Rownd, Director
Center for Molecular Biology
Wayne State University
Biological Sciences Building
5047 Gullen Mall
Detroit, Michigan 48202

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

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**Microbiologist**

Kelco Division of Merck & Co., Inc., located in San Diego, CA, is a leading manufacturer of specialty polymers. We have an immediate opening in the Fermentation Section of Basic Research.

Selected candidate will conduct fermentation process development research with special emphasis on utilizing computerized process control strategies to optimize microbial polysaccharide production. To qualify, you should hold a BS in Microbiology or Biochemical Engineering or equivalent and have excellent oral and written communication skills. Operational knowledge of lab-scale fermentation equipment and computers (PC, VAX) is an advantage but this position is suitable for a new college graduate.

We offer an excellent salary and benefits package with ample opportunities for personal and professional growth. Please send resume with references in confidence to: Ruth Algeo, Manager-Human Resources, Kelco Division of Merck & Co., Inc., 8355 Aero Drive, San Diego, CA 92123.

An Equal Opportunity Employer M/F/H/V
POSITIONS OPEN

Looking for individual with 5 to 10 years of experience in INDUSTRY, working with strain selection in fungal systems of enzymes. Ph.D. in microbial genetics or physiology preferred. We are an aggressive growth-oriented company located in the Sunbelt which is looking to develop and build an international biotechnology/microbiological business! Excellent location and room with growth for the organization. Once in a lifetime opportunity if you are the person we are looking for.

Send resume in confidence to: Box 11, SCIENCE Classified Advertising, 1333 H Street, N.W., Room 940, Washington, DC 20005.

University of California, Berkeley. Survey Research Center invites applications for ASSISTANT RESEARCHER/ASSOCIATE. The successful candidate will work under supervision of two investigators to formulate and test mathematical models of the transmission dynamics of HIV infection in homosexual men, including: (1) testing of alternative models of change in sexual behavior among members of the San Francisco Men's Health Study cohort; (2) "sensitivity analysis" of such models; (3) study of the effects of sexual mixing patterns using simulation procedures. Prepare articles for submission to journals. Ph.D. in biology or related field. A non-resident position starting 1 December, 1991, with an annual salary of $41,600 and an excellent benefits package. No interview or removal expenses are available. The initial appointment at 75% time is for 12 months with possibility of extension. Send curriculum vitae and name/address of three references by 10 November 1991 to: M. J. Ng, Survey Research Center, 2588 Channing Way, Berkeley, CA 94720. The University of California is an Equal Opportunity/Affirmative Action Employer.

BIOCHEMISTRY. ASSISTANT RESEARCH BIOCHEMIST. Experience required in biochemical analysis, cell culture, HPLC operation, working knowledge of computer software with analytical applications, experience in molecular genetic technology. M.D. or Ph.D. in biological sciences required. Salary related to established UCSC salary scale. Apply by 31 October 1991 to: Dr. J. E. Seegmiller, Associate Director, Sam and Rose Stein Institute for Aging, University of California, San Diego, La Jolla, CA 92039-0613. Equal Opportunity/Affirmative Action Employer.

PLANT ECOLOGIST

Ecophysiologist with gas exchange, water relations, photosynthesis, and computer fluency. Temporary, professional 1 (1 year) possible, located in Corvallis, Oregon; $31,116, GS-11. Considerable summer fieldwork may be required. Contact: Dr. Nancy E. Gruulke, Forestry Sciences Laboratory, 5200 S.W. Jefferson Way, Corvallis, OR 97331. Telephone: 543-780-7262.

SENIOR RESEARCH CHEMIST. Research involving synthesis of novel peptides and other vascular disorders utilizing synthesis and optical resolution of complex, unusual a-amino acids. Separation of complex, multi-component mixtures. Purifying polar substances, e.g. peptides. Evaluate tissue and blood levels applying complex media such as blood or tissue extracts. Apply state of the art technology involving peptide and protein purification. Design and synthesis of biologically active agents. Investigate structure function relationships. Synthesis of novel unnatural amino acids; resolution of D- and L-isomers. Conversion of amino acids. Utilize chromatographic and spectroscopic techniques. Requirements: Ph.D. organic chemistry, 4 years of experience as researcher with extensive experience in synthesis and optical resolution of complex amino acids in peptide synthesis and in separation of complex, multi-component mixtures. Excellent general knowledge of techniques for purifying polar substances. Experience in separation of peptides from complex media and polypeptide synthesis by solid phase, solution methods. Address methods of research and design in synthesis of biologically active agents and relationship with receptors. Background in isolation, purification and characterization of naturally occurring novel hormones from biological sources. Chromatographic techniques, structure characterization and characterization of peptides. Forty hours per week; $50,400 salary; complete curriculum with Philadelphia Job Bank, 444 North 3rd Street, Philadelphia, PA 19123, JO #4430317. Must have proof of legal authority to work in the United States.

POSITIONS OPEN

Nichols Institute's Reference facility, a leading innovator in laboratory technology, is seeking the following positions.

SENIOR RESEARCH SCIENTIST: The qualified candidate should possess a Ph.D. in biological sciences, with strong research interest and experience in steroid hormone analysis by HPLC and chemical modifications. Five years of research laboratory experience is preferred. A background with protein hormonal assays is a big plus. Will be responsible for the innovative research programs.

LABORATORY SUPERVISOR (POLYPEPTIDES): Candidates must possess a Ph.D. in biological sciences with prior experience with hormonal immunossay methods, experience in protein chemistry and chemiluminescence preferred. Reference laboratory management experience a plus. Responsibilities include performing R&D on peptide hormones, and management of the laboratory department. A commitment to quality and to staff is required.

POSITIONS OPEN

TECHNICAL SUPPORT POSITION

The Genetics Computer Group (GCG) is seeking an individual with a strong background in molecular biology/biochemistry, experience with computer operating systems and strong interpersonal skills to provide technical support for the international community of scientists that use the GCG sequence analysis software package. Applicants must have a minimum of a master's degree in molecular biology or a related field. Submit curriculum vitae with references to: Genetics Computer Group, Inc., 578 Science Drive, Suite B, Madison, WI 53717.

MARKETPLACE

DNA SEQUENCING

U.S. POSTAL SERVICE

Statement required by the Act of 12 August 1970, Section 3685, Title 39, United States Code, showing the ownership, management, and circulation of:

1. - 6. Science is published weekly on Friday, except the last week in December, at 1333 H Street, N.W., Washington, DC 20005. Date of filing: 30 September 1991. This is also the address of the publisher, the editor, and the managing editor, who are, respectively, Richard S. Nicholson, Daniel E. Kosland, and Monica M. Bradford.

7. The owner is American Association for the Advancement of Science, 1333 H Street, N.W., 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.

9. The purpose, function, and nonprofit status of this organization and the exempt status for federal income tax purposes have not changed during the preceding 12 months.

10. The average number of copies of each issue during the preceding 12 months is (A) Total number of copies printed: 162,010; (B) Paid circulation: (1) Sales through dealers and carriers, street vendors, counter sales: None; (2) Mail subscriptions: 154,983; (C) Total paid circulation: 154,983; (D) Free distribution by mail, carrier, or other means: samples, complimentary, and other free copies: 2,828; (E) Total distribution: 157,811; (F) Office use, leftover, unaccounted, spoiled after printing: 4,199; (F) Returns from news agents: None; (G) Total: 162,010.

Actual number of copies of single issue published nearest to filing date are (A) Total number of copies printed: 160,000; (B) Paid circulation: (1) Sales through dealers and carriers, street vendors, counter sales: None; (2) Mail subscriptions: 151,274; (C) Total paid circulation: 151,274; (D) Free distribution by mail, carrier, or other means: samples, complimentary, and other free copies: 4,284; (E) Total distribution: 155,558; (F) Office use, leftover, unaccounted, spoiled after printing: 4,442; (F) Returns from news agents: None; (G) Total: 160,000.

I certify that the statements made by me above are correct and complete. (signed) Michael Spinella, Director, Membership/Circulation.
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"Yep. Mmm, the lasagne looks tasty."

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"Wouldn't have tested otherwise."

"And regulatory compliance?"

"It checks out..."

"...which is more than I can say about that meatloaf."

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If you would like to review the specifics of these assays or know which companies were involved, contact one of the numbers listed.

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