DEADLINES: Ads are due by Thursday, 10 a.m., 2 weeks prior to the issue date. Science is published each Friday, except the last Friday of the year. Call for holiday deadlines. Advertisements must be submitted in writing.

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

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

Rates: Ads are $43 per line; $430 minimum. One line equals 52 characters and spaces; centered headings equal 32 characters and spaces; 3% cash discount is granted to all prepaid ads.

Ads from Outside the U.S.: A discount of $30 will be offered to advertisers making payment in U.S. dollars by checks drawn on U.S. banks. Contact Annemarie Vis at +1 202 326 007 (telephone) or +1 202 326 0069 (FAX).

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

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

DISPLAY PERSONNEL ADS

For rates and info. about fractional display ads (all ads ½ page and larger), contact:

Recruitment Advertising
Deborah Cummings
Telephone: 202-326-6541
Janis Crowley, Recruitment Advertising Manager
Telephone: 212-496-7704
FAX: 202-682-0816
Annemarie Vis
European Recruitment Advertising
Telephone: +44 223 302 067
FAX: +44 223 302 068

CONDITIONS: Personnel advertising is accepted only with the understanding that the advertisers do not discriminate among applicants on the basis of race, religion, age, color, handicap or sexual preference. The AASAS encourages employers to actively recruit and employ underrepresented minority groups. Science reserves the right, at its discretion, to decline to publish advertisements submitted to it.

POSITIONS OPEN

Molecular biology (prefer plant emphasis), tenure-track ASSISTANT PROFESSOR. Teach 2 major courses, general education course, co-teach introductory majors course. Develop research involving undergraduates. Link molecular to macroscopic, relative, translate, sample of professional work, teaching evaluations (if available), 3 reference letters to: Dean K. P. Goodrich, Linfield College, McMinnville, OR 97128-6894. Screening begins April 6, 1994. Affirmative Action/Equal Opportunity Employer.

FACULTY POSITION IN BACTERIAL PATHOGENESIS
The Department of Microbiology at the College of Physicians and Surgeons of Columbia University is soliciting applications for a tenure-track faculty position at the level of ASSISTANT PROFESSOR. Applicants should have a strong background in prokaryotic molecular genetics and experience in an area directly related to bacterial pathogenesis. Applicants should have demonstrated a high level of academic achievement and the potential for developing an active research program. The Department has an active Graduate Program and all faculty are expected to participate in the graduate education. Interested individuals should send curriculum vitae and a statement of research interests, and also arrange to have three letters of reference sent to: The Microbiology Search Committee, Department of Microbiology, College of Physicians and Surgeons, Columbia University, 701 West 168th Street, New York, NY 10032. Columbia University is an Affirmative Action/Equal Opportunity Employer.


FACULTY POSITION ASSISTANT OR ASSOCIATE PROFESSOR
Division of Medicinal Chemistry & Pharmacuetics
College of Pharmacy, University of Kentucky
Applications are being accepted for a tenure-track faculty position in Medicinal Chemistry & Pharmacuetics at the University of Kentucky College of Pharmacy. The successful candidate will be expected to develop and/or maintain an independent and innovative research program in the pharmaceutical sciences. We are particularly interested in the areas of drug delivery and/or biotechnology. Many collaborative opportunities exist within the University of Kentucky Medical Center, which contains multidisciplinary research centers for pharmaceutical science and technology, cancer, aging, and membrane sciences. This faculty member will also actively participate in the teaching of formal courses in the professional and graduate programs, and take part in the direction of Ph.D. dissertation research. The applicant's selection of area will begin immediately and continue until the position is filled. To apply, submit curriculum vitae, a statement of research interests, and three letters of reference to: Peter A. Crooks, Ph.D., Division of Medicinal Chemistry & Pharmacuetics, College of Pharmacy, University of Kentucky, Lexington, KY 40536-0083. The University of Kentucky is an Equal Employment Opportunity/Affirmative Action Employer.

ASSISTANT PROFESSOR
The Department of Biology invites applications for a tenure-track position at the University of Kansas beginning fall 1994. A Ph.D. is required. The candidate is expected to teach in the areas of vertebrate anatomy, human anatomy and physiology, and general biology, as well as graduate courses in histology. Development of an active research program, pursuit of extramural support and supervision of M.S. students are expected. Application review begins on December 31, 1993, and will continue until the position is filled. For further information contact: Dr. William Bransch, Chair, Department of Biology, University of Kansas, Lawrence, KS 66045; FAX: (913) 864-2126. Equal Opportunity/Affirmative Action/Section 504, Title IX Employer.

ASSOCIATE PROFESSOR/PROFESSOR
Division of Pharmacology and Medicinal Chemistry
The College of Pharmacy, University of Cincinnati Medical Center, solicits applications for a full-time tenure-track position at the associate professor or professor level. Applicants must possess a Ph.D. in pharmacology, medicinal chemistry or a closely related field. The area of research emphasis is open, preference will be given to applicants whose research interests complement existing programs in the Division and the focus areas of the Medical Center, which include cardiovascular, cancer and neuroscience research. The successful candidate will be expected to demonstrate an active publication record of productive, funded research with transferable NIH or equivalent funding. All faculty are expected to participate in the undergraduate and graduate teaching responsibilities of the Division. Review of applications will begin April 15, 1994, and continue until the position is filled.

Submit complete curriculum vitae including publications, current research support and the names, addresses and telephone numbers of three references to:Dr. William Cacini, Division of Pharmacology and Medicinal Chemistry, College of Pharmacy, University of Cincinnati, Medical Center, 3223 Edine Avenue, Cincinnati, OH 45267-0004. The University of Cincinnati is an Affirmative Action/Equal Employment Opportunity Employer.

TENURE-TRACK, ASSISTANT PROFESSOR
NUTRITION AND FOOD SCIENCES
Nine-month position starting fall 1994. Ph.D. in nutrition required. Responsibilities include teaching graduate and undergraduate nutrition courses (including introductory courses in nutrition and health), advising, and developing research program complementing departmental research. Send letter, curriculum vita, and 3 letters of reference to: Dr. Andie Haueh, Chair, Search Committee, Department of Nutrition and Food Sciences, Texas A & M University, Denton, TX 76204. Review begins April 15, 1994. Affirmative Action/Equal Employment Opportunity Employer.

The Department of Zoology at the University of New Hampshire invites applications for a tenure-track position at the rank of ASSISTANT PROFESSOR. We seek those with research interests in the phylogeny of marine invertebrates who make use of molecular and/or ultrastructural techniques. Teaching responsibilities include a large 2-semester course in Human A & P as well as participation in courses in Invertebrate Biology and a course in area of expertise. The successful applicant is expected to maintain an active research program and to contribute to the graduate program. Applicants must have a Ph.D. and teaching experience in Human A & P. Applicants should know that there is a strong internal candidate. Applicants should send a statement of teaching and research interests, curriculum vitae, and name and address of three referees by May 2, 1994, to: Chair, Search Committee, Zoology Department, Spaulding Life Sciences Building, University of New Hampshire, Durham, NH 03824-3544. Women and minorities are encouraged to apply. UNH is an Affirmative Action/Equal Employment Opportunity Employer.

ASSISTANT PROFESSOR
AND POSTDOCTORAL POSITIONS
available to study movement disorders and pain in Parkinsonian syndromes. Techniques include: microdialysis, autoradiography, and molecular biology. Send curriculum vitae and names of three references to: Daniel S. Horne, Neurology, University of California, Irvine, Irvine, CA 92717. Refer to Position #94-2. UCI, rooted in education, enriched by diversity.
Astra is a pharmaceutical company in a phase of rapid growth. The company’s operations, which are highly international, consist in research and production and marketing of pharmaceuticals through subsidiaries in about 25 countries. The products are marketed in an additionally large number of countries through agents and licenses. The number of employees is somewhat more than 10,000, of whom 4,200 are in Sweden.

ASTRA PAIN RESEARCH UNIT
Astra Pain Research Unit is situated in Montreal, Canada and is a research satellite to Astra Pain Control in Sweden. The research is aimed in developing new pharmacals for treatment of pain and inflammation.

Astra Pain Research Unit (APRU) in Montreal

We seek to identify a highly distinguished scientist to direct and coordinate all chemistry efforts at our new drug discovery institute (APRU) in Montreal. It is likely that the successful candidate has previously directed large and diverse medicinal chemistry programs within a major pharmaceutical company. University Professors with thorough knowledge of drug discovery processes within the pharmaceutical industry are also encouraged to apply. A documented track record in medicinal chemistry is combined with an interest/experience in Computational Chemistry and Combinatorial Library Approaches.

APRU will be devoted to the discovery of compounds useful in treatment of pain and inflammation. One area of research will concern opioid peptides and alkaloids.

The Director of Chemistry will be expected to build our Department of Chemistry and to recruit other leading scientists. Excellent leadership and organizational skills are thus required.

We offer a competitive salary, generous benefits package and an environment that is conducive to professional success. For prompt confidential consideration, applications containing a curriculum vitae and a statement of past and present research interests should be sent to Human Resources Department, Astra Pharma Inc., 1004 Middlegate Road, Mississauga, Ontario L4Y 1M4.

Confidential inquiries may be directed to Dr. Claes Wahlestedt, Director, Astra Pain Research Unit in Montreal. Fax: (514) 973-3031.

No telephone enquiries please.

Astra is committed to Employment Equity and encourages applications from members of the designated groups.

National Institute of Allergy and Infectious Diseases
National Institutes of Health

PROTEIN X-RAY CRYSTALLOGRAPHER

A protein crystallography laboratory is being established with intramural funding to conduct an original research program and to interact with other scientists within the NIH intramural program. Ph.D. or M.D. applicants should have a record of achievement in solving protein structures by X-ray crystallography. Salary commensurate with credentials and research experience.

Qualified and interested candidates should send curriculum vitae and names and addresses of three references to:

John E. Coligan, Ph.D.
Chief, Laboratory of Molecular Structure
NIAID, NIH
Bldg. 4, Room 413
9000 Rockville Pike
Bethesda, MD 20892

(301) 496-3213 phone
(301) 402-0284 fax

NIH is an Equal Opportunity Employer

Temple University
School of Medicine

Faculty Positions, The Department of Microbiology and Immunology

The Department of Microbiology and Immunology invites applications for several tenure-track Faculty positions at the Assistant Professor, Associate Professor, or Professor level as part of the second phase of a major expansion. We are particularly interested in: (1) molecular immunologists or cellular immunologists employing contemporary molecular biology approaches; (2) investigators in molecular pathogenesis. The successful candidates will be expected to have significant research accomplishments, ability to establish and maintain a vigorous research program that will attract peer-reviewed funding and a commitment to excellence in educating graduate and medical students. Applicants at the Associate Professor or Professor level should demonstrate a consistent record of independent peer-reviewed funding and should have active competitive grants. Start up funds and newly renovated space are available for the appointed investigators.

The Department of Microbiology and Immunology is supported by extensive peer-reviewed funding and has a very strong graduate program providing students with advanced training in molecular microbiology and immunology. Interactions are encouraged with other basic and clinical departments and the Fels Institute for Cancer Research and the Thrombosis Center of Temple University School of Medicine.

Interested individuals should send a curriculum vitae, bibliography, a summary of research achievements and research plans and the names and addresses of four references to:

Chris D. Platssoucas, Ph.D., Professor and Chairperson, Department of Microbiology and Immunology, Temple University School of Medicine, 3400 North Broad Street, Philadelphia, PA 19140.

Temple University is committed to Affirmative Action/Equal Employment Opportunity and strongly encourages applications from women and minorities.
Department of Microbiology and Immunology

POSTDOCTORAL PROJECT INVESTIGATORS, OR RESEARCH ASSISTANT PROFESSOR positions are available to work on: (1) The molecular cloning and identification of tumor-specific antigens in human malignancies; (2) development and characterization of human T-cell clones; (3) molecular characterization of T-cell antigen receptors involved in anti-tumor immunity or autoimmune diseases. Experience in molecular cloning and expression systems, development and characterization of human T-cell clones is needed. Positions supported by NIH research grants. Interested candidates should send a curriculum vitae, bibliography, and names and addresses of three references to: Chris D. Platsoucas, Ph.D., Professor and Chairman, Department of Microbiology and Immunology, Temple University School of Medicine, 3400 N. Broad Street, Philadelphia, PA 19140.

Temple University is committed to Affirmative Action/Equal Employment Opportunity and strongly encourages applications from women and minorities.

BIOMEDICAL SCIENCE

Media Relations

Internationally renowned scientific research organization has an immediate opportunity for a Media Relations professional to disseminate the research results of approximately 300 biomedical scientists located at universities and research institutions throughout the U.S. and abroad.

The individual we seek must be knowledgeable in molecular biology, have at least 5 years media relations experience in a university or research setting, and should be familiar with leading science writers and media. Bachelor's degree and excellent science writing skills are required; computer proficiency is preferred.

We are a results-oriented, intellectually demanding organization that offers an excellent salary and benefit package including paid relocation to the Washington, DC area. Please send resume to: Media Relations/ MM, 8300 Greensboro Drive, Suite 1210, McLean, VA 22102. An equal opportunity employer.

POSTDOCTORAL FELLOWS

At the Glaxo Inc. Research Institute, located in Research Triangle Park, N.C., the focus is drug discovery and development through novel research. As part of our commitment to research, our Postdoctoral Fellowship Program supports scientific endeavors and scholarships through the development of researchers at the early stage of their careers. We are currently seeking to fill four openings for Postdoctoral Fellows in the following areas:

BIOANALYTICAL STRUCTURAL CHEMISTRY

This Ph.D. level position is available within a multidisciplinary team to study the role of SH2-protein interactions. This position requires broad knowledge of protein-protein interactions, protein structure-function relationships, protein chemistry and interest/experience in the regulation and characterization of effector proteins involved in signal transduction. Experience with some of the following techniques is preferred: mass spectrometry, immunoaffinity and micro-column chromatography, CD, fluorescence, microcalorimetry, and/or Biacore. Individual must have the ability to interact effectively with other scientists in areas such as: molecular biology/expression, peptide chemistry, amino acid sequencing and analysis, molecular modeling, and mass spectrometry. Please refer to Job # ASC911712 on all resumes.

BIOCHEMISTRY

(Signal Transduction Pathways)

Individual will join a multidisciplinary team studying the role of SH2, SH3 and catalytic domains of src-tyrosine kinase in oncogenesis. Protein chemistry and molecular biological techniques will be used to define the nature and interactions of the catalytic and ligand binding properties of src-tyrosine kinase. Experience in protein chemistry, molecular biology and cell culture is required. Experience in signal transduction is preferred. Please refer to Job # ASC911714 on all resumes.

CELL BIOLOGY

Individual will determine the mechanisms involved in the transformation of cells by the p53 associated protein, mdm-2. The individual will collaborate with both Glaxo and academic scientists working on the biochemistry of cell cycle control. Experience in molecular biology coupled with a strong interest in cell cycle regulation are required. Please refer to Job # ASC911716 on all resumes.

CELL DIFFERENTIATION

Individual will study cellular and molecular aspects of cell lineage commitment and differentiation, using murine embryonic stem cells as a model system. Candidates must have expertise in long-term tissue culture and molecular techniques. Experience with ES cells is desirable. Please refer to Job # ASC911718 on all resumes.

These Fellowship openings offer you the opportunity to strengthen your scientific reputation and career advancement by publication and presentation of outstanding research conducted in an excellent environment. In addition, Glaxo is proud to offer a highly competitive compensation package. Applicants should send their curriculum vitae, a statement of research interest, a list of professional references, and the Job # of interest, to: Human Resources Department, Glaxo Inc., P.O. Box 13398, Research Triangle Park, NC 27708. (No Phone Calls or Agency Referrals, Please.) An Equal Opportunity Employer M/F/D/V.

Glaxo Inc.
The Time For Achievement Is Now

©1994 NAS: Media delete copyright notice.
ASSISTANT PROFESSOR

The Department of Neurology at the University of Minnesota is seeking a full-time tenure-track Assistant Professor to develop a program in Neurogenetics, with particular attention to the molecular neurogenetics of inherited and sporadic ataxias. This individual will be expected to both carry on his or her independent research studies directed at the identification and pathogenic understanding of the ataxias at the molecular genetic level. Candidates must have a Ph.D. in genetics, graduate and postdoctoral training in Neurogenetics and documentation of a record of productive research in genetics and molecular genetics with a demonstrated expertise in the ataxias. Start date: July 1, 1994. Last date for receipt of applications: April 30, 1994. Applicants should submit curriculum vitae to: Richard W. Price, M.D., Professor and Head, Department of Neurology, Box 295 UMC, 420 D. L. Ackroyd Laboratory, Minneapolis, MN 55455. The University of Minnesota is an Equal Opportunity Employer and Employer.

ASSISTANT PROFESSOR

The Hormel Institute, a lipid research center of the University of Minnesota, invites applications for a faculty appointment at the level of Assistant or Associate Professor. Qualifications: Candidates must demonstrate the ability to establish and carry out independently fundable research program of biomedical or technological relevance that will complement ongoing programs. Preference will be given to applications addressing fundamental research in lipid metabolism, cell biology, or a strong basic background in molecular/cell biology, and a successful research record in areas related to cell signaling and the regulation of membrane-dependent cellular functions. A Ph.D. (or equivalent) degree and 2 to 3 years of postdoctoral experience are required. Applicants must have a Ph.D. degree and relevant postdoctoral experience. The successful applicant will be expected to establish an NIH-funded, independent research group, to oversee a well-equipped and staffed core facility for protein sequencing and analysis, and to participate in university-wide research programs of the department. Applicants should submit curriculum vitae, selected reprints, a brief description of previous and anticipated research, and letters of recommendation to: Dr. William G. Chaney, Ph.D., Chair, Biochemistry and Molecular Biology Search Committee, University of Alabama at Birmingham, THT 311, UAB Station, Birmingham, AL 35294.

FACULTY POSITION. The Department of Biochemistry and Molecular Biology of the University of Nebraska Medical Center invites applications for a tenure-track appointment in protein purification, characterization and modification. We are particularly interested in candidates who will advance basic understanding of physiological processes and functional aspects of individual proteins in gene regulation and/or signal transduction. Applicants must have a Ph.D. degree and relevant postdoctoral experience. The successful applicant will be expected to establish an NIH-funded, independent research group, to oversee a well-equipped and staffed core facility for protein sequencing and analysis, and to participate in university-wide research programs of the department. Applicants should submit curriculum vitae, selected reprints, a brief description of previous and anticipated research, and letters of recommendation to: Gerald M. Folot, M.D., Director, Division of Cardiovascular Disease, University of Alabama at Birmingham, THT 311, UAB Station, Birmingham, AL 35294.

Siena College

ASSISTANT PROFESSOR OF BIOLOGY

Two temporary positions anticipated for 1994–95: Position 1—lecture and laboratory in Comparative Anatomy. Position 2—lecture-only course in introduc- tory Zoology. Both positions include teaching in our introductory majors' course. An extension of both positions for the 1995–96 academic year is possible. Applicants must have a Ph.D. in an appropriate area of Biology. Siena is an undergraduate liberal arts institution located in upstate New York's Capital District with a Biology Department of 16 faculty and approximately 40 undergraduate students. Applicants should send curriculum vitae, the names and addresses of at least three references, and a statement of teaching philosophy to: Dr. Lawrence Woodworth, Head, Biology Department, Siena College, 515 Loudon Road, Loudonville, NY 12211. Siena College is an Equal Opportunity Employer and employer of choice for applicants from all qualified candidate groups including women and minorities.

DEPARTMENT OF MICROBIOLOGY

COLORADO STATE UNIVERSITY

Faculty Position

Molecular Biology of Plant Pathogenesis

The Department of Microbiology at Colorado State University invites applications for a tenure-track ASSISTANT PROFESSOR position to address the molecular biology of plant pathogenesis. Preference will be given to candidates employing molecular biology and biochemical approaches to investigate the fundamental processes in the interaction of bacterial pathogen and host. Candidates should possess the Ph.D., D.V.M./Ph.D., M.D./Ph.D. or equivalent degree, and relevant postdoctoral training. The successful applicant will be expected to sustain an externally funded research program, to contribute to the teaching of undergraduate and graduate levels and to continue solid academic and professional growth. Interested persons should send curriculum vitae, statement of research interests and goals, and a list of three references to: Chair, Department of Microbiology, Colorado State University, Fort Collins, CO 80523; Telephone: 303-491-6700. Colorado State University is an Equal Opportunity/Affirmative Action Employer.

CHEMOSENSORY DATABASE MANAGER

needed (i) assume major responsibility for the management of a project supported by a grant from the National Institute of Health (NIH); (ii) organize and oversee key components of a patient chemosensory evaluation and treatment program. This individual will also assist with the administration of a chemosensory research program. A Ph.D. is desirable. Send curriculum vitae and names of three references to: Richard L. Doty, Ph.D., Director, Smell and Taste Center, University of Pennsylvania Medical Center, 3400 Spruce Street, Philadelphia, PA 19104. The University of Pennsylvania is an Equal Opportunity/Affirmative Action Employer.

EDITORS

Laboratory Animal Science

The American Association for Laboratory Animal Science seeks a distinguished professional to serve as editor of the Association's journal, Laboratory Animal Science. The candidate must be active in the field. Additional qualifications include a significant record of published research in the field of laboratory animal science and comparative medicine, organizational and teamwork skills, tact and judgment. Editorial experience is desirable but not necessary. Submit cover letter and curriculum vitae by June 1, 1994, to: Chairman, LAS Editorial Board, 70 Timber Creek Drive, Cortona, TX 78018.
The European Molecular Biology Laboratory, an international research organization situated in Heidelberg, Germany, invites applications for positions at:

**THE EUROPEAN BIOINFORMATICS INSTITUTE (EBI)**

A new outstation of the European Molecular Biology Laboratory (EMBL), the European Bioinformatics Institute (EBI), is currently being established at the genome campus at Hinxton Hall near Cambridge (UK). The EBI will foster leading-edge research and development in bioinformatics. Its international flavour, the close interaction of biologists and computer scientists, and its modern computing facilities will guarantee an exciting and stimulating working environment.

**BIOLOGISTS/ANNOTATORS**

The EBI, in collaboration with the GenBank group (U.S.A.) and the DNA Database of Japan, produces the world's largest nucleotide sequence databases and, in collaboration with the University of Geneva, the SWISS-PROT protein sequence database. We plan to recruit the following new staff:

**SWISS-PROT DATABASE CO-ORDINATOR (Ref. no. 94/10)**

To supervise the production of the SWISS-PROT protein sequence data base at EMBL and to co-ordinate its future development in interaction with collaborators at the University of Geneva. Candidates should have a Ph.D. in molecular biology or protein biochemistry, communication skills and co-ordinating abilities. Computing and scientific database experience is essential.

- **NUCLEOTIDE SEQUENCE DATABASE ANNOTATORS (5) (Ref. no. 94/11)**
  - We seek biologists to join the team of annotators to prepare data for inclusion in the EMBL nucleotide sequence database. The job involves extracting biological information relevant to a given sequence, either from a paper or from an electronic submission form or from an electronic data submission system. Experience of annotation is desirable. It should have a broad knowledge of molecular biology.

- **PROTEIN SEQUENCE DATABASE ANNOTATORS (3) (Ref. no. 94/12)**
  - Experience with computers is highly desirable. Communication skills are essential in the interaction with data submitters and external expert groups world-wide.

**BIOLOGISTS/USER SUPPORT**

We seek biologists to provide external user support and to establish collaborative links with experts world-wide.

- **USER SUPPORT OFFICER (Ref. no. 94/13)**
  - The job includes the organisation of a help desk and documentation in support of EBI products and services for external users and customers. It also includes the planning and execution of training courses. Applicants should be able to communicate efficiently in verbal and printed form.

- **BIOLOGICAL USER LIAISON OFFICER (Ref. no. 94/14)**
  - To interact closely with external users of EBI products on scientific issues. This job is strongly research-oriented and includes collaborations with external scientists to solve database or sequence analysis problems and the co-ordination of interactions with European genome projects. It also includes the planning and execution of training courses. The successful candidate will have a significant bioinformatics research background at the Ph.D. level and strong communication skills.

**PROGRAMMERS/BIOLOGISTS**

The activities of the EBI Service Branch will concentrate on biological database production and related research and development. We seek programmers for the development and maintenance of software related to the databases maintained at EMBL. The jobs are suitable for computer scientists or biologists with a strong computing background. Involvement in various collaborative projects at the EBI is expected. For all candidates communication skills are essential to guarantee successful interaction with EBI researchers and database users.

- **DATABASE PROGRAMMERS (3) (REF. NO. 94/15)**
  - To build software for the EMBL nucleotide sequence database and other databases at the EBI. Applicants must be fluent in Pascal and/or C programming on VMS or UNIX platforms. Experience with relational database management systems such as Oracle or Sybase is desirable.

- **DOS/UNIX DATABASE PROGRAMMER (Ref. no. 94/16)**
  - To work on the maintenance and development of the SWISS-PROT protein sequence database. The successful candidate will have significant C programming skills on MS-DOS and UNIX computers. Experience with communication between these systems and personal computers will be helpful. A strong biological background is required.

- **DATABASE ADMINISTRATOR (Ref. no. 94/17)**
  - To maintain and develop the systems for overall management of the EBI databases in a production environment. Applicants should be proficient in modern database technology and be practically oriented. Experience with the Oracle database management system and associated development tools is essential.

**BIOLOGISTS/COMPUTER SCIENTISTS**

The activities of the EBI Service Branch will concentrate on biological production and related research and development. We seek biologists/computer scientists to form the core of an expanding application-oriented R&D team at the EBI. Projects will be highly interactive, so all applicants should have the ability to work in teams and to communicate efficiently. A broad interest in biological information systems and databases is expected from all candidates.

- **R&D OFFICER - EXTERNAL INFORMATION SERVICES (Ref. no. 94/18)**
  - To design and develop information products for molecular biologists. The job involves the production of new databases of biological information resources, the establishment and maintenance of network information services and the creation of CD-ROM information products. The successful candidate will have a broad knowledge of existing biological information resources and of current developments in molecular biology, as well as an understanding of biologists information demands. Computing experience and programming skills are highly desirable. Applicants should be familiar with information discovery tools such as Gopher or WWW, and experience with database management systems will be helpful.

- **R&D OFFICER - INFORMATION RETRIEVAL SYSTEMS (Ref. no. 94/19)**
  - To work on the design and development of new information retrieval systems, utilizing network communication methods as well as CD-ROM technology. Substantial C programming skills are essential. The successful candidate will be familiar with biological databases and information retrieval systems and should have a thorough knowledge of computer networking. Experience with database management systems will be helpful.

- **R&D OFFICER - DATABASE DEVELOPMENT (Ref. no. 94/20)**
  - To work on the design of new generations of biological databases and the integration of heterogeneous database systems. Candidates should have a broad understanding of database theory and database design. Practical experience with relational databases is necessary, and an interest in object-oriented technology is desirable. Applicants must have substantial programming and implementation skills.

**COMPUTER SYSTEM MANAGERS**

The activities of the EBI Service Branch will concentrate on biological database production and related research and development. We seek computer scientists or biologists with a strong computing background to form an efficient group of closely interacting system managers responsible for a heterogeneous computing environment. Direct involvement in various research projects at the EBI is expected. For all positions, the ability to communicate and interact efficiently with others is essential.

- **SYSTEM MANAGERS (2) (Ref. no. 94/21)**
  - To join a team responsible for the management of a mixed environment of Open VMS, McIntosh and MS-DOS computer systems. The successful candidate will have substantial professional experience in managing at least two of these platforms. Additional knowledge of Unix system management is required for one of these posts. Hardware experience would be useful.

- **SOFTWARE SUPPORT OFFICER (Ref. no. 94/22)**
  - To install and maintain application software packages and databases for in-house use, to provide user support and to organise documentation and training. This job is suitable for biologists with a strong computing background. Educational skills and the ability to communicate effectively with end users are essential for the successful candidate.

Personal initiative and self-motivation for all the positions

As an inclusive international organization, EMBL invites applications from all qualified candidates. Women and nationals of Southern European or other under-represented Member States are encouraged to apply.

Closing date for application: 18 April 1994

Please write briefly for an application form to:

EBM: Personnel Section, Postfach 10.2209, 69012 Heidelberg, Germany.
Fax: +49 6221 387 555

Applications may also be submitted electronically to ebi-jobs@embl-heidelberg.de.

Please do not forget to quote the appropriate reference number.
POSITIONS OPEN

TENURE-TRACK POSITION IN CELLULAR-MOLECULAR BIOLOGY
Texas A&M University Health Science Center

The Department of Medicine invites applications to fill a tenure-track position in cellular-molecular biology at the ASSISTANT PROFESSOR level. An experienced scientist with a Ph.D. or M.D. degree and postdoctoral research training is sought to further develop an existing research program in cardiovascular disease. Demonstrated research experience in secretion and proliferative responses in hepatocytes and/or bile duct epithelium is highly desirable. The candidate must have demonstrated the ability to develop a graduate and postgraduate training program. It is anticipated that the successful candidate will interact with others at Texas A&M University Health Science Center in molecular biology as well as those engaged in hepatobiliary research. Applicants should send curriculum vitae and outline of research interests and names of three individuals who have agreed to provide letters of recommendation to: Gene D. LeSage, M.D., Chief, Section of Liver Disease, Scott and White Clinic/Texas A&M University Health Science Center, 2401 South 31st Street, Temple, TX 76508. Equal Opportunity Employer/Affirmative Action Employer.

BEHAVIORAL NEUROSCIENCE

The Department of Psychology at the University at Albany, State University of New York, is seeking to fill a position in behavioral neuroscience/behavioral biology at the VISITING ASSOCIATE PROFESSOR level. This appointment held during the academic year September 1994 or January 1995. Specific area of research interest is open, but Ph.D. degree (by September 1994) is required; strong candidates might show interest in collaborative work on a research program on genetics and neurobehavioral effects of alcohol. Responsibilities would include both undergraduate and graduate teaching, including psychopharmacology. This is a temporary replacement position (1 to 3 years), with a possibility of renewal through five years. Applicants should submit curriculum vitae, sample reprints/preprints, a statement of research interests and any letters of recommendation to: Dr. N. B. McCutcheon, Chair, Behavioral Neuroscience Search Committee, Department of Psychology, The University at Albany, SUNY, Albany, NY 12222 by May 1, 1994. The University at Albany is an Equal Opportunity/Affirmative Action Employer. Applications from women, minority persons, handicapped persons, and/or special disabled or Vietnam-era veterans are especially welcomed.

DEPARTMENT HEAD
Department of Biochemistry and Genetics

The Connecticut Agricultural Experiment Station invites applications for the position of Head of the Department of Biochemistry and Genetics. The candidate will be expected to exercise leadership and vision in conducting and leading research on the biochemistry, genetics, or biotechnology of agricultural crops. The position became available in 1988 and has had three leaders in 106 years: T. B. Osborne, H. B. Vickery, and I. Zelitch. The individuals will be expected to have demonstrated outstanding achievement as demonstrated by publication of a substantial number of research papers that show a high level of skill, creativity, and originality. Candidates should possess the Ph.D. degree and be able to successfully compete for extramural research support. Salary is competitive.

Please submit curriculum vitae, a brief statement of research accomplishment, three letters of recommendation, and the names and addresses of three references to: Dr. John F. Anderson, Director, The Connecticut Agricultural Experiment Station, P.O. Box 403, New Haven, CT 06504. Deadline for application is May 15, 1994, or until a suitable candidate is found. The Connecticut Agricultural Experiment Station is an Equal Opportunity/Affirmative Action Employer.

EDITOR, Journal of Clinical Pharmacology, Official Journal of American College of Clinical Pharmacology. Emphasis in the field of pharmacology, either basic, clinical, or both, is required. Experience as an editor, or as a member of editorial boards of scientific journals, is necessary. Interested and qualified candidates should submit current curriculum vitae by no later than July 31, 1994, to: American College of Clinical Pharmacology, Executive Office, 200 Oriskany Boulevard, Yorkville, NY 13495-1332.

POSITIONS OPEN

BIOCHEMISTRY FACULTY POSITION: The Department of Chemistry at Portland State University (PSU) intends to fill a tenure-track position in Biochemistry for the fall of 1994. The position is at the ASSISTANT/ASSOCIATE PROFESSOR level. The position will involve teaching at the undergraduate and graduate levels, and will require that the person selected carry out a vigorous research program. The Department of Chemistry is a major part of a Ph.D. program in Environmental Sciences and Resources, and preference will be given to candidates whose research interests will be likely to strengthen this program. Applicants are asked to send curriculum vitae (with a list of publications and a list of courses taught), and a brief description of research plans. Applicants must arrange for three personal references. Screening of applicants will continue until the position is filled; however all materials should be received by April 15, 1994, and applicants are encouraged to apply early. Mail applications to: Dr. David H. Peyton, Department of Chemistry, PSU, P.O. Box 751, Portland, OR 97207–0751.

CHAIR, DEPARTMENT OF BIOCHEMISTRY: Applications and nominations are invited for the position of Chair of the Department of Biochemistry in the James H. Quillen College of Medicine at East Tennessee State University. Candidates must have a Ph.D. or M.D. degree, an established research program and a distinguished record of research accomplishments including peer-reviewed funding, a commitment to teaching medical students and graduate students, and a desire to build and lead a division. The Department provides a strong commitment to graduate and medical education in an expanding research environment with anticipated construction of an additional basic science building. Applicants should provide curriculum vitae and names, addresses, and telephone numbers of four references. Screening of applications will begin April 1, 1994, and application materials will be held until April 15, 1994. Applications and nominations should be sent to: Dr. Robert W. Wiersig, Search Committee Chair, Department of Physiology, East Tennessee State University, Johnson City, TN 37614–0576. Applications from women and minorities are encouraged. East Tennessee State University is an Equal Opportunity Employer.

CHAIRMAN
Department of Neurosurgery
School of Medicine
The University of Mississippi Medical Center

The University of Mississippi Medical Center invites applications and nominations for the position of Chairman of the Department of Neurosurgery, a full department with excellent clinical and research facilities. The Department of Neurosurgery is a major component of the University of Mississippi Medical Center’s health care program. The University has a total of 593 beds. The 376-bed Department of Veterans Affairs Medical Center in Jackson, creating a very busy service with a diverse and challenging patient population.

Candidates should be eligible for licensure in Mississippi and diplomates of the American Board of Neurosurgery; have contributed significantly to the field clinically and/or scientifically; be able to provide dynamic leadership in administering a comprehensive program of resident education, patient care, and research.

There is an extremely pleasant and very affordable living in Jackson, a city noted for education and health care, which is an urban state capital metropolitan area of over 400,000 with outstanding schools, culture, and recreation, and good weather.

Prior to July 15, 1994, nominations should be forwarded to, or interested individuals should send a self-descriptive cover letter, curriculum vitae, and names of three references to: John H. Elchhorn, M.D., Professor and Chairman, Department of Neurosurgery, School of Medicine, University of Mississippi Medical Center, 2500 North State Street, Jackson, MS 39216. The University of Mississippi Medical Center is an Equal Opportunity Employer, M/F/D/V.

POSITIONS OPEN

The Franklin International School is seeking an UP- PER SCHOOL BIOLOGY AND CHEMISTRY TEACHER starting 15 August 1994. The assignment will include teaching International Baccalaureate biology courses and an integrated science course. The school has excellent laboratory facilities and a strong college preparatory academic program. Please send cover letter and curriculum vitae to: Mr. Lord, High School Principal, Franklin International School, An der Waldlust 15, 61440 Oberursel, Germany. Fax: (49) 6171 203384.

ASSOCIATE CHIEF OF STAFF, RESEARCH—The Denver VAMC is seeking candidates for this important role. Responsibilities include coordination of the Director's office, management of a small staff, and strong candidates for this position will include a large, active, multidisciplinary research effort involving basic, clinical, and HSRD research. Applicants should be U.S. citizens with administrative and research credentials and should preferably have a senior level faculty appointment at the University of Colorado Health Science Center. Applications will be accepted until 1 September 1994 or until the position is filled. Send curriculum vitae plus three references to: Robert J. Anderson, M.D., Chair of Search Committee, Medical Service (111), Denver VA Medical Center, 1055 Clermont Street, Denver, CO 80220. The VAMC is an Equal Opportunity/Affirmative Action Employer and minority and protected groups are encouraged to apply.

PRESIDENT AND CHIEF EXECUTIVE OFFICER
NEW ENGLAND AQUARIUM

The New England Aquarium is conducting a nationwide search for a president and chief executive officer. The Aquarium, which opened 25 years ago on Central Wharf in Downtown Boston, is visited annually by 1.3 million people. Its tanks and gallery exhibits include more than 700 species of sea life. The Aquarium is committed to increasing public and scientific understanding of aquatic life and environments and is a center for marine research. Candidates should have a record of leadership and accomplishments in a significant non-profit, academic, governmental or commercial field and a deep personal commitment to the preservation of marine life and environments. The search committee invites applications and nominations for the position, which should be sent to:

Malcolm MacKay
Managing Director
Russell Reynolds Associates, Inc.
200 Park Avenue, 23rd Floor
New York, NY 10166

The Aquarium is an Equal Opportunity Employer. Women and minorities are encouraged to apply.

The Research Institute of the Palo Alto Medical Foundation and the Department of Health Research and Policy, School of Medicine, Stanford University, are jointly seeking an individual interested in clinical epidemiology and outcomes research. The individual will be a PAI. The PAI is a member of the Department of Health Research and Policy at Stanford University, and will serve as Head of the Department of Health Services Research at the Palo Alto Medical Foundation. Office and research space, some research support and salary will be supplied by the Palo Alto Medical Foundation. The Department at the Foundation will have responsibility for supervising outcomes research at the Palo Alto Medical Foundation and throughout the Sutter Health System. The individual would be expected to conduct research and consult on outcomes of clinical outcomes and/or health policy and to attract significant extramural support for research. In addition, the department will have teaching and student supervision responsibility at Stanford University. It is anticipated that the individual will be appointed at the level of Associate Professor (Research), but more senior or junior candidates will be considered, depending on qualifications.

Stanford University is committed to increasing representation of women and members of minority groups on its faculty and staff. Applications and nominations for the positions should be addressed to: Dr. Allen Cooper, Palo Alto Medical Foundation, 860 Bryant Street, Palo Alto, CA 94301. Attn: Mark Harky, Stanford University Medical Center, Department of Health Research and Policy, HRP Redwood Building, Stanford, CA 94305. Telephone call could be placed through the HRP Department secretary at (415) 723-5081.
THE SECOND GRANT OFFERING BY MIZUTANI FOUNDATION FOR GLYCOSCIENCE

Mizutani Foundation for Glycoscience announces the availability of research grants for basic research in glycoscience. The suggested projects for this year include general studies in glycoconjugates: their organic chemistry, biochemistry, biophysics, molecular biology, cellular biology, and medical application.

Mizutani Foundation for Glycoscience is a non-profit, private organization devoted to the advancement of glycoscience. The foundation was established on October 1, 1992 with funds donated by Mr. Masakane Mizutani, Chairman of Seikagaku Corporation, Tokyo, Japan.

Qualification: An applicant must (a) have a doctor’s degree equivalent to the Ph.D. or M.D. degrees in the USA in a field relevant to the proposed project, (b) have a documented capability of performing independent studies, and (c) be a member of a research institute where he or she can carry out the proposed project.

Grant: As much as 10,000,000 Japanese Yen (approximately 95,000 US Dollars at the current exchange rate), including overheads, per annum may be requested. As a rule, the grant will be approved for one (1) year only. However, certain exceptional proposals may be considered for two (2) years. The total budget allocated for this year’s new research proposals is approximately 100,000,000 Yen.

The approved grant will be issued to the research institute to which the principal investigator is affiliated. The grant may be used for various items necessary for the proposed study, but not for the stipend of the principal or collaborative investigators.

Selection: The research proposals will be reviewed and evaluated by the committee of specialists appointed by the board of trustees of the foundation for the originality, scientific merit, and feasibility. The potentiality of the principal investigator and the research environment will also be considered.

Application form: The official application form (in English) may be obtained by sending a letter or fax (no telephone calls) to the North American Office of Mizutani Foundation for Glycoscience: Department of Biochemistry, Meharry Medical College, 1005 David Todd Jr. Blvd., Nashville, TN 37208, USA (Fax: [1] 615-327-6442). The Japanese version can be obtained at the Tokyo office shown below.

Deadline: New applications for the grants awarded on April 1, 1995 will be accepted from July 1, 1994 through August 31, 1994 at the Tokyo Office of Mizutani Foundation for Glycoscience: Sen-i Kaikan, Suite 5F, 3-1-11 Nihonbashi-honcho, Chuo-ku, Tokyo 103, Japan (Fax: [81] 3-3246-1265).
FACULTY POSITION IN BIOCHEMISTRY

The Division of Basic Medical Sciences at Mercer University School of Medicine invites application for a tenure-track position in Medical Biochemistry; rank and salary are commensurate with experience. The successful applicant will contribute to an interdisciplinary, problem-based medical education program in which small-group tutorials replace lectures. The applicant will be expected to develop a strong research program and contribute to the medical education program. Applicants should have a doctoral degree in biochemistry and postdoctoral training. Applicants should send curriculum vitae, a description of research interests and a statement of philosophy on the role of teaching in research in medical education. Apply to: Dr. Robert J. Moon, Division of Basic Sciences, Mercer University School of Medicine, Mercer University, Macon, GA 31207. Equal Opportunity/Affirmative Action Employer. Women and minority candidates are encouraged to apply.

FACULTY AND POSTDOCTORAL POSITIONS IN BIOCHEMISTRY/MOLECULAR BIOLOGY

The Department of Dermatology, University of Michigan invites applications for faculty and postdoctoral positions to join a 50-member multidisciplinary research environment to study molecular mechanisms of skin repair. It is anticipated that demonstrated excellence in job performance will lead to long-term employment. Applicants should possess a Ph.D. with expertise in Biochemistry and/or Molecular Biology. Faculty applicants should have 5 years of postdoctoral experience, with demonstrated research excellence and strong written and oral communication skills. Selected applicants will be expected to conduct primary and collaborative research projects in a variety of areas, including:

- Retinoid and vitamin D–mediated gene regulation
- Functions of nuclear receptor superfamily members
- Molecular mechanisms of cell activation by ultrasound
- Immunological basis of skin irritation

Send curriculum vitae to: John J. Caples, M.D., Professor and Chair, Department of Dermatology, University of Michigan, 1301 East Catherine, Kreege I, R6558, Ann Arbor, MI 48109-0528.

The University of Michigan is a non-discriminatory, Affirmative Action Employer.

PLANT PHYSIOLOGY. The Ecology and Evolutionary Biology Department at Rice University seeks to fill a new CHAIRSHIP in PLANT PHYSIOLOGY. This is a 2-year appointment for a recent Ph.D. for research and teaching. Preference will be given to candidates with interests in mechanisms of transport in wetlands, carbon cycling, plant-soil microbial interactions, or global change. The teaching commitment is a one-semester upper-level course in botany and a one-quarter seminar on the use of the canopy as a laboratory. Applications, including curriculum vitae, a summary of research and teaching interests, and three letters of reference, are to be sent to: Dr. R. L. Saas, Ecology and Evolutionary Biology Department, Rice University, P.O. Box 1892, Houston, TX 77251 by 30 April 1994. Rice University is an Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL POSITION CARDIOLOGY

Position available in the laboratory of Dr. Janet Robishaw at the Weis Center for Research. This position offers the opportunity to combine pharmacological and molecular biological approaches to investigate the function of different α1-adrenergic receptor and G protein subtypes in normal and cardiac myocytes. The successful applicant for this position will have a Ph.D. degree with experience in one or more of the following areas: receptors, signal transduction, activation of cDNA’s into cells, analysis of receptor-G protein coupling and phospholipase C.

The Weis Center for Research is a well-equipped facility located in a semi-rural area. Competitive salary and fringe benefits are available. Send curriculum vitae and three letters of reference to: Geisinger Human Resources (JHR), 100 Robert L. Kriner Freeway, Danville, PA 17821-1529, Equal Opportunity Employer, M/F/H/V.

POSTDOCTORAL POSITION IMMUNOLOGY

This is a 2-year appointment for a recent Ph.D. in immunology for research on the role of cytokines in the activation and proliferation of T and B lymphocytes. The position is located in a research laboratory dedicated to the study of immune responses. Send curriculum vitae and three letters of reference to: Dr. William J. Fitch, Department of Immunology, Medical College of Virginia, P.O. Box 680200, Richmond, VA 23298-0200.

POSTDOCTORAL POSITION GENETICS OF DRUG SUSCEPTIBILITY

Research in this exciting and important area will focus on the generation of infectious HIV variants with altered susceptibility to inhibitors of the virally encoded protease. Research will be conducted in the context of an active program focused on the discovery and development of novel anti-HIV therapeutics. The ideal candidate will have a Ph.D., M.D. or equivalent with a strong background in molecular virology and recombinant DNA techniques. Experience in research interests and names of three references: to: Mary Jeanette, The DuPont Merck Pharmaceutical Company, Postdoctoral Program, Position #94-LTB, P.O. Box 80400, Wilmington, DE 19880-0400.

Two postdoctoral positions are available in the department of Immunology to work on projects related to the study of immune responses to infectious agents. One position will require a recent Ph.D. degree with experience in immunology. The other position will require a recent Ph.D. degree with experience in molecular biology. Salary equivalent to NIH and K awards. Send curriculum vitae and three letters of reference to: Dr. William J. Fitch, Department of Immunology, Medical College of Virginia, P.O. Box 680200, Richmond, VA 23298-0200.

Two postdoctoral positions are available on an NIH Institutional Training Grant in the area of diabetes and hormone action. Topics include the regulation of insulin secretion in pancreatic beta cells and molecular signaling mechanisms resulting in secondary complications of diabetes. Minority applicants are encouraged to apply. Send curriculum vitae and list of three referees to: Dr. Judy C. Harrison, National Institute of Environmental Health Sciences, Department of Biochemistry and Biophysics, University of Pennsylvania, Philadelphia, PA 19104. FAX: 215-898-9918. Equal Opportunity Employer.

POSTDOCTORAL FELLOW JOHNS HOPKINS UNIVERSITY

Position available immediately to study the functional morphology and motor control of fish feeding and swallowing using high-speed analysis, electromyography, or biomechanics is desirable. This position is an NIH-funded program to develop research capabilities relevant to rehabilitation medicine and the brain injury. As part of a research team for one to three years in duration. Send curriculum vitae and list of three references (name, address, telephone) to: Dr. Jeffery R. Palmer, Johns Hopkins University, Neurorheology Laboratory, 730 N. Wolfe Street, Professional Building, 5601 Loch Raven Boulevard, Baltimore, MD 21239. FAX: 410-532-4719.
Prize Competition
announced by the
Anna - Monika - Foundation

for the investigation of the biological substrate and functional disturbances of depression by approval of the Minister of the Interior of Nordrhein-Westfalen, Düsseldorf, 9 June, 1965

The Foundation announces the following prizes:

First Prize US-Dollars 15,000.00-
Second Prize US-Dollars 10,000.00-
Third Prize US-Dollars 5,000.00-

preferably for studies of biochemical, histological, neurophysiological, neuropathological, psychopharmacological, psychiatric or psychosomatic nature. The studies should be carried out in close cooperation with a psychiatric clinic, a university or an equivalent scientific institution. As far as possible, the papers should give information about recent advances in knowledge that should be helpful in promoting treatment and would open new paths of progress. The papers may be written in German, French or English and should be submitted to the Chairman of the Committee, Prof. Dr. H. Helmchen, Berlin, Germany. Besides hitherto unpublished studies or papers published in the past two years in an international professional journal may also be submitted. Deadline for submission to the Committee is 30 September, 1994. To help the Committee to come to a speedy decision, it is requested that a maximum of three publications in four copies as well as a summarizing report (approx. 600 words) of the studies submitted for the competition should be included. Prizes will be awarded until end of July, 1995. If, in the opinion of the Committee, no papers of sufficient merit are submitted, it reserves the right to present no award. Prizes and their amounts will be awarded according to the merits of the study in question. Subject to the Committee's decision, each prize can be divided between two papers.

The Committee Judges:
Chairman: Professor Dr. H. Helmchen
Psychiatrie Klinik und Poliklinik der Freien Universität Berlin, Eschenalst 3, 14050 Berlin, Germany

Honorary Chairman:
Professor Dr. med. P. Kielholzt, Seergen, Aargau, Switzerland

Members:
Professor Dr. J. Angst, Psychiatrie Universitätsklinik, Zürich, Switzerland
Professor Dr. K. Beyreuther, Zentrum für Molekulares Biologie der Universität Heidelberg, Germany
Professor Dr. M. Burger, Friedrich-Miescher-Institut, Basel, Switzerland
Professor Dr. A. M. Freidman, New York, USA
Professor Dr. K. Heinrich, Düsseldorf, Germany
Professor Dr. F. Herr, Department of Psychiatry, Health Sciences Center, State University of New York, USA
Professor Dr. A. Herz, Max-Planck-Institut für Psychiatrie, München, Germany
Professor Dr. F. Höhstr, Max-Planck-Institut für Psychiatrie, München, Germany
Professor Dr. H. Möller, Institut für Pharmakologie der ETH und Universität Zürich, Switzerland
Professor Dr. D. Palm, Zentrum für Pharmakologie der Johann Wolfgang von Goethe-Universität, Frankfurt/M., Germany
Professor Dr. P. Pichler, Paris, France
Professor Dr. P. Propping, Institut für Humangenetik der Universität Bonn, Germany
Professor Dr. K. Sandhoff, Institut für Organische Chemie und Biochemie der Universität Bonn, Germany
Professor Dr. W. Stoffel, Institut für Biochemie der Medizinischen Fakultät der Universität Köln, Germany

Managing Director:
Professor Dr. B. Hess, Am Kaiserhain 19, 44139 Dortmund, Germany

BIOLOGY DEPARTMENT
HIRAM COLLEGE
(Search Deadline Extended)

Hiram College, an independent liberal arts institution located in the Western Reserve of Northern Ohio, invites nominations and applications of the following positions in the Biology Department:

BIOLGIST/ BIO-ETHICIST

This position is classified as a one-year, non-tenure track sabbatical replacement. This person will normally teach courses in Biology for the Non-Major, Introductory Botany (usually team-taught), and possibly Molecular/Cellular Biology. In addition to the 4 courses to be offered in the department, the individual will be expected to teach 2 courses dealing with some aspect of Bioethics. These two courses will be open to all students. The successful candidate will have a Ph.D. in the life sciences and a strong commitment to teaching at the undergraduate level.

ANIMAL PHYSIOLOGIST/ VERTEBRATE BIOLOGIST

This position is a non-tenure track position in Animal Physiology and Vertebrate Biology. The successful candidate should have a commitment to teaching at the undergraduate level and to involving undergraduates in research. Interested parties should submit a curriculum vitae, statement of philosophy on teaching and research, and three letters of reference by April 8, 1994 to Dr. Matthew H. Hiles, Biology Department, Hiram College, Hiram, OH 44234.

Hiram College is an Equal Opportunity Employer. Women, minorities and persons with disabilities are encouraged to apply.

HEALTH SCIENTIST ADMINISTRATOR (HSA)
GS-601-12/13/14
GM-94-0006

The National Institute of General Medical Sciences, National Institutes of Health, Bethesda, MD is seeking a HSA, responsible for stimulating, planning, advising, directing, and evaluating program activities for (1) a portfolio of research grants in the areas covering the structure and function of proteins, nucleic acids, and protein nucleic acid complexes and (2) a portfolio of institutional training grants in the area of molecular biophysics.

Applicants should be physical biochemists with an appreciation of the role of molecular structure in the biological processes. In addition, applicants must possess specific knowledge, skills and abilities (KSAs) in order to qualify for this position. There are a number of documents that must be submitted when applying for this position. Applicants who fail to submit all of the required documents will not be considered for the position; therefore, it is crucial that applicants call to obtain this information.

For Information regarding the qualifications and application requirements, please call the NIGMS Personnel Office on (301) 594-7767. TDD: (301) 594-6894.

Announcement closes 4/11/94.

U.S. Citizenship is required.
NIH is an Equal Opportunity Employer.
LeukoSite is a growing biopharmaceutical company focused on processes of cell adhesion, inflammation, and autoimmune disease. The company is located in Boston and has strong ties with the Harvard Medical School through its founder, Dr. Timothy Springer, and other members of its Scientific Advisory Board. A talented team of scientists has been assembled to lead the company's research and discovery program. We have two positions at the senior scientist level:

**Senior Scientists**

**Molecular Biology of Chemokines, Chemokine Receptors**

This scientist with Ph.D. postdoctoral experience will be part of a multidisciplinary team investigating the role of chemokines and their receptors in inflammation and immunity. A broad background in molecular biological techniques plus an excellent publication record are required. Knowledge of G protein coupled receptors and chemokines would be valuable. Code 803B

**Phage Display/Protein Engineering**

This person will initiate a program in developing and optimizing lead peptide antagonists of several classes of proteins critical in early phases of inflammatory processes. A demonstrated expertise in phage display or relevant technology is essential in either doctoral or postdoctoral studies. Code 802B.

Please send your resume, cover letter referencing appropriate position code, and the names of three references to: Human Resources Administrator, LeukoSite Inc., 800 Huntington Ave., Boston, MA 02115, USA; FAX (617) 278-3399. An Equal Opportunity Employer.

---

FACULTY OF SCIENCE AND ENGINEERING

SCHOOL OF BIOLOGICAL SCIENCES

**PROFESSOR OF BIOLOGY (MICROBIOLOGY)**

A$77,900 pa

Ref 940859. The University is seeking an outstanding scholar with a distinguished research record for the Chair of Biology (Microbiology) in the School of Biological Sciences.

The appointee should have the capacity to attract both postgraduate and undergraduate students; have a genuine interest in, and capacity for, teaching; preferably have expertise compatible with the general areas of environmental microbiology/bioremediation/microbiological biotechnology, and be able to provide a strong research focus for new and established academic staff in the School, by providing research and teaching leadership in a way which would maximise the performance of the School in general and the microbiology group in particular.

Further information is available from the Head of Faculty, Dr. JW Rice, phone (61 8) 201 3693 or fax (61 8) 201 3399. Selection criteria, conditions of appointment, and a detailed statement on the structure and scope of the School of Biological Sciences are available from Ms J Fox, Human Resources Division, phone (61 8) 201 2507 or fax (61 8) 201 3131.

Applications, addressing the selection criteria, quoting the reference number, and giving full details of qualifications and experience and the names, addresses and facsimile numbers of three referees of whom confidential enquiries may be made, should be lodged, with the Manager, Human Resources, Flinders University, GP 01 Box 2100, Adelaide SA, Australia 5001 by 30 April 1994.

The University reserves the right not to make an appointment or to invite applications.

Equal Opportunity is University Policy.

---

**CHAIRPERSON AND NEUROLOGIST-IN-CHIEF**

Department of Neurology and Neuroscience

THE NEW YORK HOSPITAL-CORNELL MEDICAL CENTER

The New York Hospital-Cornell Medical Center seeks a distinguished Neurologist for appointment as Professor and Chairperson, Department of Neurology and Neuroscience, Cornell University Medical College, and Neurologist-in-Chief, The New York Hospital. Candidates must present evidence of experience and accomplishment in teaching, research, clinical services, and administration.

Send a current curriculum vitae, which includes a list of publications, to: Dr. Jack D. Barchas, Chair, Neurology Search Committee, The New York Hospital-Cornell Medical Center, 525 East 68th Street, Box 171, New York, New York 10021. EEO/AA/M/F/D/V.

The New York Hospital-Cornell Medical Center
IMMUNOLOGIST

Astra is seeking an immunologist to join a small team of qualified researchers within our Preclinical Department of Immunology.

You will have a Ph.D. and post doctoral experience in the field of immunology, with emphasis on T lymphocytes. You will be a specialist within your particular area and have outstanding technical and theoretical capabilities. Both cellular immunology and molecular biology are equally familiar to you. Experience in the pharmaceutical industry is an advantage, but will not be mandatory.

If you would like to take part in the development of innovative immunological research, spanning from preclinical research to clinical applications, this is a unique opportunity. As a member of the Department of Immunology, you will join a team of six scientists and technicians dedicated to the development of new drugs and to basic research in the field of autoimmunity, transplantation and cancer.

Further information can be obtained from Dr Carl Harald Janson, tel. +46 8 55 32 73 47, Dr Mats Ferm, tel. +46 8 55 32 86 87 or Dr Alf Larsson, +46 8 55 32 71 30.

Applications should be sent to Astra Arcus AB, Personnel, S-151 85 Södertälje, Sweden.

Astra Arcus is a research company in the Astra Group, is engaged in R&D in primarily two areas—CNS and Infection. Astra Arcus employs some 400 people and the company is located in Södertälje, 35 kilometres south of Stockholm.

VIROLOGIST

SmithKline Beecham Pharmaceuticals, a worldwide leader in pharmaceutical research, is seeking an Associate Senior Investigator for our Molecular Virology and Host Defense Department. The department’s 40 members work on projects which encompass basic and applied research on many aspects of molecular virology and immunology of infectious diseases including the discovery of novel antivirals, viral pathogenesis, immunomodulation, hemato-regulatory cytokines and stromal-cell biology.

The selected candidate will plan, supervise, and implement research aimed at the discovery and development of novel therapeutic antiviral agents for Hepatitis C and related positive-sense RNA viruses. Using knowledge of molecular tools and viral culture techniques, the selected candidate will identify viral molecular targets, explore mechanisms of anti-viral drug action and select lead compounds. Responsibilities also include providing leadership in multi-disciplined antiviral programs. Qualifications include a Ph.D. (or equivalent) in virology, a minimum of three to five years postdoctoral experience in Hepatitis C or related viruses and an excellent record of scientific achievement as evident from publications, patents, abstracts and presentations. Outstanding applicants with broader backgrounds in other areas of virology will also be considered. Excellent communication skills and the ability to work effectively with individuals of varied backgrounds and disciplines are required, with industry and supervisory experience preferred.

Our state-of-the-art research facility is located in suburban Philadelphia. We offer a competitive compensation/benefits package as well as a stimulating work environment in which to grow and excel. For confidential consideration, please forward your resume with salary requirements to: SmithKline Beecham Pharmaceuticals, #H0068, PO Box 679, Conshohocken, PA 19428. We are an Equal Opportunity Employer, M/F/D/V.
POSTDOCTORAL POSITIONS (2, one-year) are available 1 July 1994 to study fate of soil erosion and contaminants in Maumee Bay, Lake Erie. Experience with High Performance Liquid Chromatography, Gas Chromatography, X-ray Fluorescence and Atomic Spectrometry is desirable. Send by 22 April 1994 curriculum vitae, copies of publications, statement of research interest and, and three letters of recommendation to: Victor F. Sleight, Biology Department, University of Toledo, Toledo, OH 43606-3390. Equal Employment Opportunity/Affirmative Action Employer.

POSTDOCTORAL POSITION available to study novel cytokine-mediated regulation of membrane receptor expression and functions in mast cells. Studies focus on examining regulatory mechanisms at the mRNA and protein levels. Candidates should have a strong background in molecular biology. Send curriculum vitae and three references to: Howard R. Katz, Ph.D., Harvard Medical School/Children's Hospital and Women's Hospital, 250 Longwood Avenue, Room 607, Boston, MA 02115. An Affirmative Action/Equal Opportunity Employer.

POSTDOCTORAL FELLOWSHIPS

Six faculty members of the JOHNS HOPKINS UNIVERSITY invite applications for postdoctoral fellowships in a program on "Lipid and protein traffic and dynamics in polarized epithelial cells." The faculty and their areas of interest include:

Michael Edidin: Plasma membrane domains; traffic of lipid anchored proteins
Douglas Fambrough: Ion transport ATPases and organic anion transport
Carolyn Machger: Goliath complex structure and composition
Robert Pagano: Distribution and transport of lipids
Trina Schroit: Role of micropinocytosis in membrane traffic

The program is highly interactive—groups meet together regularly and a number of collaborative projects are ongoing. Other full-time postdoctoral candidates, preferably Ph.D. candidates, should send a statement of research interests to: Dr. Michael Edidin, Department of Biology, The Johns Hopkins University, 3400 North Charles Street, Baltimore, MD 21218. FAX: 410-516-5213; E-mail: Edidin@HUVM.S.HCF.JHU.EDU.

The Johns Hopkins University is an Equal Opportunity/Affirmative Action Employer.

PHYSICS EDUCATION RESEARCH ASSOCIATE

The Department of Physics and Astronomy and the Division of Science Education of the College of Natural Science at Michigan State University is accepting applications for a research associate position in Physics Education Research. The successful candidate will begin work during the fall semester of 1994. Details are available from: Dr. Raymond Brock, Chair, Physics and Astronomy Department, Michigan State University, East Lansing, MI 48824-1100. Michigan State University is an Equal Opportunity/Affirmative Action Employer.

RESEARCH ASSOCIATE, PENN STATE UNIVERSITY

The Physics Department of the Pennsylvania State University invites applications for a research associate position in experimental low-temperature physics. Applicants must have Ph.D. in physics and a strong record in low-temperature physics research as applied to quantum fluids and critical phenomena. Demonstration of the ability to design, construct and operate dilution refrigeration systems is required. Knowledge of the techniques associated with experiments in restricting geometries, such as high-resolution thermometry and low-temperature electronics, as well as some knowledge of the fabrication of such systems is required. Research duties include design and operation of the experimental facilities, the design and execution of experiments and the analysis and interpretation of their results, and guiding graduate students in similar activities. Salary Range: $26,000 to $28,000. Location: University Park, PA. Application Deadline: Office of Personnel Management. Approximate date to be filled: September 15, 1994. Send letter of application, résumé and list of references to: Dr. Arthur A. Arain, Dean of Graduate Studies, The Pennsylvania State University, University Park, PA 16802. Application Deadline: May 1, 1994. An Equal Opportunity/Affirmative Action Employer. Women and minorities encouraged to apply.

POSTDOCTORAL/RESEARCH ASSOCIATE POSITION available to study the structure/function of P-glycoprotein in multidrug resistant cancer cells. Ph.D. in molecular biology or biochemistry required. Experience with recombinant DNA techniques and site-directed mutagenesis is desirable. Send curriculum vitae and names of three references to: A. R. Safa, Ph.D., University of Chicago, Argonne National Laboratory, 845 S. South Maryland Avenue, MC 2115, Chicago, IL 60637.
Leon S. Wolfe Symposium

Lips in the Nervous System: From Structure to Signal Transduction
International Meeting to Honor Professor Leon S. Wolfe
New Orleans, May 10-12, 1994

Sponsored by: Merck Research Laboratories, Merck/Frosst, Upjohn Company, and the Louisiana State University Neuroscience Center of Excellence

Themes: Lipids, Isoprenoids and G-proteins, Lipids in Neural Cell Signal Transduction, Gangliosides and Glycosphingolipids and Neurobiology of Disease

Speakers and Chairpersons include: Roy Baker (Toronto, Canada), Nicolas G. Bazan (New Orleans, Louisiana), Pierre Béraquet (Paris, France), Roger F. Butterworth (Montreal, Canada), John W. Callahan (Toronto, Canada), Emrino Costa (Washington, D.C.), M. Diks (Montreal, Canada), Aled Edwards (Hamilton, Canada), Anthony W. Ford-Hutchinson (Pointe-Claire, Canada), M. Haltia (Helsinki, Finland), George Hauser (Belmont, Massachusetts), Lloyd A. Horrocks (Columbus, Ohio), R.D. Jolly (Palmerston, New Zealand), Prizioe B. Jungalwala (Waltham, Massachusetts), Eiki Kominami (Tokyo, Japan), Eduardo G. Lapeina (Research Triangle Park, NC), J. Alexander Lowden (Regina, Canada), Guy M. McKhann (Baltimore, Maryland), Mario Moscarrello (Toronto, Canada), Hugo Muser (Baltimore, Maryland), Mary Murphy (Halifax, Nova Scotia), Cecil R. Pace-Asciak (Toronto, Canada), Hanna M. Pappius (Montreal, Canada), M. Philippart (Los Angeles, California), L. Puglisi (Milan, Italy), Thomas A. Reader (Montreal, Canada), Betty I. Roxx (Toronto, Canada), Abraham Rosenberg (Los Angeles, California), Takao Shimizu (Tokyo, Japan), Marion E. Smith (Palo Alto, California), Maurizio Soma and Rodolfo Paololetti (Milan, Italy), Theodore L. Sorkes (Montreal, Canada), Matthew W. Spence (Edmonton, Canada), Grace Y. Sun (Columbia, Missouri), Donald B. Tower (Chevy Chase, Maryland), M. Anthony Verity (Los Angeles, California), Steven U. Walkley (Bronx, New York), John R. Wharton (Toronto, Canada), Victor P. Whiteaker (Cambridge, England), Allan J. Yates (Columbus, Ohio), Ephraim Yavin (Rehovot, Israel), Moussa B.H. Youdim (Haifa, Israel), and Robert Zand (Ann Arbor, Michigan)

Organizers: Nicolas G. Bazan
Louisiana State University
Neuroscience Center of Excellence
New Orleans
Flavio Coecacci
Division of Neurosciences,
The Hospital for Sick Children
Toronto, Canada

For Information
2020 Gravier Street, Suite B
New Orleans, LA 70112
Tel: (504) 566-6700 ext. 321
FAX (504) 568-5801

Lifetime careers and/or assisting students
providing...
ASSISTANT LABORATORY SUPERVISORS

Antarctic Support Associates is recruiting for Assistant Laboratory Supervisors, full-time and contract. These positions are responsible for planning and coordinating support for science projects in laboratory facilities at McMurdo and Palmer Stations and aboard two research vessels. Successful candidates must have the following skills: 1) knowledge of the operation, maintenance and troubleshooting of modern analytical instruments, 2) experience with OSHA Laboratory Standards, and 3) strong communication and computer skills in word processing, electronic mail (Internet), spreadsheets and data bases.

Educational background and technical experience working in a modern analytical laboratory, at the undergraduate and/or graduate levels, in disciplines such as biology, chemistry, environmental science, geology, limnology, meteorology and oceanography are desired.

The positions require annual deployments for up to 5 to 12 months to Antarctica. Proof of U.S. citizenship is required, and applicants must be able to pass strict medical, physical and psychiatric exams.

For consideration, please fax (303-790-9130) or mail a typed resume with cover letter no later than 22 April 1994 to:

Antarctic Support Associates
61 Inverness Drive East, Suite 300
Englewood, CO 80112
Attn: HR-Assistant Laboratory Supervisor

Equal Opportunity Employer

WEST VIRGINIA STATE COLLEGE

INORGANIC/ANALYTICAL CHEMISTRY

Applications are invited from persons holding a Ph.D. degree in Inorganic Chemistry for a full-time, tenure-track position in an ACS-approved Chemistry Department of a four-year state college. A strong commitment to excellence in teaching is mandatory and a background in GC-MS, FT-IR spectroscopy and NMR spectroscopy is desired. Responsibilities include teaching advanced inorganic chemistry lecture and lab, instrumental analysis lecture and lab, general chemistry lecture and lab courses and other duties as determined by department needs. Position starts August 15, 1994. Salary and rank negotiable. Excellent benefit package.

ORGANIC CHEMISTRY

Applications are invited from persons holding a Ph.D. degree in Organic Chemistry for a full-time, tenure-track position at the Assistant or Associate Professor level in an ACS-approved Chemistry Department of a four-year state college. A strong commitment to excellence in teaching is mandatory and a background in NMR and FT-IR spectroscopy is desired. Responsibilities include teaching undergraduate courses, instrumental analysis, and lab courses in organic, general, and organic chemistry. Position starts August 15, 1994. Salary and rank negotiable. Excellent benefit package.

GENERAL/ANALYTICAL CHEMISTRY

Applications are invited from persons holding a Ph.D. degree in Analytical Chemistry for a full-time, tenure-track position in an ACS-approved Chemistry Department of a four-year state college. A strong commitment to excellence in teaching is mandatory and a background in GC-MS, FT-IR spectroscopy and NMR spectroscopy is required. The department offers four-year B.S. in Chemistry and two-year A.A.S. in Chemical Technology degrees. Undergraduate research is required in the four-year programs. Responsibilities include teaching general chemistry lecture and lab courses for non-science and science majors, quantitative analysis, and instrumental analysis lecture and lab for chemical technology and chemistry majors and other duties as determined by department needs. Position starts August 15, 1994. Salary and rank negotiable. Excellent benefit package.

WEST VIRGINIA STATE COLLEGE is an historically black college, which has evolved into a fully accessible, racially diverse and multicultural baccalaureate institution with a Community College Division. Because of this tradition, the College enrols a wide range of students and assists them in achieving their academic, civic, and career potential. The University recognizes that diversity in a campus environment nationally recognized as a "Living Laboratory of Human Relations." West Virginia State College (WVSC) is the largest institution of higher education in the Charleston, West Virginia metropolitan area serving approximately 5,000 students. West Virginia State College is an Affirmative Action/Equal Opportunity Employer and actively solicits applications from women and minorities.

Send application letter, resume, statement of teaching and research philosophy, official undergraduate and graduate transcripts, and three letters of recommendation by May 1, 1994 to:

Barbara J. Oden, Ph.D.
Vice President for Academic Affairs
West Virginia State College
P.O. Box 1000
Institute, WV 25112-1000

Group Supervisor

Adenovirus Production

Genetic Therapy, Inc., a leading biotechnology company, is developing viral-mediated gene transfer methods applicable to human gene therapy. The Tissue Culture Core Laboratory is seeking a scientist to lead a group responsible for adenovirus production.

Candidates should possess an MS or Ph.D. and have a strong background in adenovirus or other human virus vaccine production. Preference will be given to candidates familiar with GMP compliance.

GTI offers a stimulating and challenging environment, with competitive salaries and benefits. Please send a resume, along with the names and addresses of two references to:

GTI Group Supervisor

Adenovirus Production

Genetic Therapy, Inc.
Human Resources - TCC/SUP-3
19 Firstfield Road
Gaithersburg, MD 20878

GTI is an equal opportunity employer.
Baculovirus / Insect Cell Molecular and Cellular Biologists

**MicroGeneSys**
is a recognized leader in the development of vaccines employing the use of the baculovirus/insect cell expression system. Recent success in our R&D programs has created several outstanding opportunities for qualified scientists who thrive in a challenging environment. The successful candidate will join the Molecular Biology or Cell Culture departments and will participate in innovative research programs for the development of vaccines and immunotherapeutics for infectious diseases and cancer.

**Molecular Biology.** Senior and staff scientist positions are available for individuals with a Ph.D. and a minimum of four years experience in the development of baculovirus expression vectors. Applicants must have demonstrated success in the cloning and expression genes baculovirus vectors as well as a strong foundation in molecular techniques including cloning, sequencing, and PCR technology.

**Cell Culture.** Senior and staff scientist positions are available for individuals with a Ph.D. and a minimum of four years experience in insect cell biology. Experience in all aspects of insect cell culture and demonstrated success in the production of recombinant proteins in insect cells are required. The ideal candidate would also have hands-on experience in the evaluation of protein expression and processing in insect cells and in the development of improved cell lines.

MicroGeneSys, Inc. offers competitive salaries and benefits as well as growth potential as we expand. Please forward your resume in complete confidence to:

MicroGeneSys, Inc.
Human Resources, Dept. MBCC
1000 Research Parkway
Meriden, CT 06450-7159

MicroGeneSys is an Equal Opportunity Employer

---

**Research Scientist**

Seeking an individual with a strong record of scientific achievement to develop an independent research program. Applicants with a Ph.D. and/or M.D. degree and current federal research support are strongly encouraged to apply. Children's Hospital Oakland Research Institute (CHORI) is a well-equipped, basic research facility located on the campus of Children's Hospital Oakland. Current research programs encompass molecular biology, biochemistry, immunology, cell biology and mass spectrometry. CHORI offers a stimulating scientific environment with minimal teaching and administrative responsibilities, excellent compensation and benefits, combined with an ideal geographic location.

Qualified candidates should forward your application to Children's Hospital Oakland Personnel Department, Attention Bertram H. Lubin, M.D., Chair, Search Committee, 747 52nd Street, Oakland, CA 94609. Children's Hospital Oakland is an Equal Opportunity/Affirmative Action Employer.

Children's Hospital Oakland
The pediatric medical center for Northern California

---

**Scientist**

**DNA Synthesis R&D**

We are seeking a Research Scientist for the Nucleic Acid Synthesis product line. Responsibilities will include developing and optimizing automated DNA/RNA synthesizers, synthesizing reagents, and performing oligonucleotide analysis. Requires an MS or Ph.D. in Chemistry, or equivalent, in experience with instrument development or nucleic acid chemistry. A demonstrated knowledge of modern analytical methods and techniques is a must. (Ref. #1891)

**Consumable Development Manufacturing**

Help take our multicomponent kits for fluorescent DNA sequencing and PCR analysis from laboratory prototype to commercial product. Your responsibilities will include laboratory bench development, product coordination, and the creation of documentation needed to commercialize the product. This position requires an MS or Ph.D. in Biochemistry or Chemistry, or equivalent, with a relevant background in DNA analysis techniques and some product commercialization experience. The right candidate will have technical skills in the areas of DNA sequencing, PCR analysis, and biomolecule separations (chromatography, HPLC, electrophoresis). (Ref. #1892)

We offer a competitive salary and generous benefits package. Please send your resume, indicating appropriate department code, to: Applied Biosystems, 850 Lincoln Centre Drive, Foster City, CA 94404. We are an equal opportunity employer.
POSTDOCTORAL RESEARCH ASSOCIATE—ANALYTICAL CHEMISTRY

Responsibilities involve the development of analytical methods for measuring drug concentration in biological fluids, using equipment such as HPLC and GC. Ph.D. in analytical chemistry or related discipline. Familiarity with the use of capillary electrophoresis. Deadline for application is April 15, 1994, or until position is filled. Interested candidates should submit introductory letter, curriculum vitae and three references to: Timi Edeki, M.D., Ph.D., Department of Pharmacology, Meharry Medical College, 1905 D.B. Todd Boulevard, Nashville, TN 37208. Telephone: 615-327-6636, FAX: 615-321-2957.

RESEARCH SCIENTIST

A research position is available to set up an independent group within the Research and Development Department with focus on the development of viral systems for heterologous protein expression in higher eukaryotes. This position requires hands-on technical expertise as well as ability to function as supervisor/trainer. The successful candidate will serve as a scientific resource for the Company, participating in grant writing and publishing original research. Salary dependent on experience and credentials. Send curriculum vitae and names and addresses of three references to: Human Resources, In vitrogen Corporation, 3985 B Sorrento Valley Boulevard, San Diego, CA 92121. An Equal Opportunity Employer.

POSITION IN MOLECULAR BIOLOGY available immediately to develop microsatellites for use in parentage verification tests. Individual will coordinate with other labs to establish microsatellites as public-domain information. Candidates should possess training in molecular genetics and have experience in sequencing of microsatellites using standard techniques (restriction digestion, PCR amplification, bacterial transformation, recombination, ligation, etc.). This appointment is for a period of one year but may be renewed on availability of funds. Send curriculum vitae, publications list, statement of research interests, and three letters of reference to: Dr. Jerry Caldwell, ImmGen, Inc., P.O. Box 10138, College Station, TX 77842. ImmGen, Inc. is an Equal Opportunity Employer and urges all qualified applicants to apply.

ANNOUNCEMENTS

NIH/NCI Postdoctoral Intramural Research Training Award to study mechanisms of preconception tumorigenesis by chemical carcinogens and metals. U.S. citizen, 0 to 5 years postdoctoral, experience with gene expression, methylation, and/or sequencing. Excellent career development opportunity. Dr. Lucy M. Anderson, Chief, Perinatal Carcinogenesis Section, Laboratory of Comparative Carcinogenesis, FCRDC, Frederick, MD 21702. Applications encouraged from women and minorities.

CALL FOR NOMINATIONS

The deadline for nominations for the Lighthouse Pisar Vision Award has been extended to May 1, 1994. The Lighthouse Pisar Vision Award and $15,000 are given annually to a nationally/internationally recognized person who has made a noteworthy contribution to overcoming blindness or visual impairment. Past award winners include Eliot Berson, M.D.; Prof. Norman Ashton; Sir John Wilson; and Carl Kupfer, M.D. For more information, contact: Gilda Gold, 212/808-0077, extension 1427.

COURSES AND TRAINING

CARDIOVASCULAR PATHOPHYSIOLOGY FOR ENGINEERS AND SCIENTISTS

A one-week intensive course sponsored by the Massachusetts Institute of Technology, June 6-10, 1994, Cambridge, Massachusetts. Dr. Richard J. Cohen, Program Director. Basic Principles of Cardiovascular Physiology, Cardiovascular Medicine, Diagnostic and Therapeutic Technologies. Contact: Director of the MIT Summer Professional Program, Telephone: 617-253-2101.

MARKETPLACE

CUSTOM DNA SYNTHESIS

- Price $2.19 per base
- Superb Technical Support
- Impeccable Quality
- World's Fastest Service

MIDLAND

THE UNDISPUTED #1 CUSTOM DNA SYNTHESIS SERVICE

THE MIDLAND CERTIFIED REAGENT COMPANY
3112-A West Cuthbert Avenue
Midland, Texas 79701
Phone 1-800-247-6799 FAX 915-694-2387

Circle No. 1 on Readers’ Service Card

COURSES in Analytical Chemistry or Microvascular Systems

MARKETPLACE

HUMAN ENDOTHELIAL CELLS

VENOUS, ARTERIAL, AND MICROVASCULAR SYSTEMS

True pools of >50 donors, frozen < 6 PD in vitro, >500,000 cells, complete CS growth medium system characterized and tested for cytokine-stimulated leukocyte adhesion, negative for HIV-1 DNA by PCR

Circle No. 13 on Readers’ Service Card

OLIGONUCLEOTIDES

Volume orders of 200-500 total bases

No set-up fee; shipped in 24hrs.

Tel: 1-800-778-4DNA • Fax 1-800-786-4DNA

Circle No. 3 on Readers’ Service Card

ABSTRACTS Bioreagents™

Custom Receptor Binding, Enzyme, and RNA Preparations

Fast, Cost-Effective Service

Analytical Biological Services Inc.
(800) 391-2391

Circle No. 15 on Readers’ Service Card

Circle No. 39 on Readers’ Service Card

ABS Bioreagents™

Circle No. 10 on Readers’ Service Card

Circle No. 12 on Readers’ Service Card

Circle No. 11 on Readers’ Service Card

Circle No. 17 on Readers’ Service Card

Circle No. 18 on Readers’ Service Card

Circle No. 2 on Readers’ Service Card

5 mg in 5 days $25 per residue

Research Genetics
(1-800-533-4363

Circle No. 31 on Readers’ Service Card
TaKaRa Taq.....

Stands High among other DNA Polymerases due to its High Quality and Extended Capabilities; Licensed for PCR in various Application Fields* in addition to Research Field.


Recombinant DNA polymerase derived from Thermus aquaticus possesses excellent characteristics to feature Powerful PCR performance suitable to any application.

Our Stringent QA/QC Procedures include the Following Testing:

Endo- and Exo- nuclease Activities... Not detected when 10 units TaKaRa Taq is incubated at 74 °C for one hour in the presence of either 0.6 μg of λ-DNA or 0.6 μg of λ-Hind III respectively.

Nicking Activity... Not detected when 10 units TaKaRa Taq is incubated with 0.6 μg of supercoiled pBR322 DNA at 74 °C for one hour.

Validation of PCR Performance... Assured through the amplification of λ-DNA fragments in various extension lengths from 0.5 kb to 10 kb and the single copy gene amplification of human genomic DNA fragments.

TaKaRa PCR Amplification Kit

for Economical and Optimal PCR Amplifications:

A dNTP Mixture in a single tube saves your preparation time, while an Enzyme Dilution Buffer enables you to perform reduced volume reactions for reagent saving. A MgCl₂ solution along with a 10x PCR Buffer without Mg²⁺ provides you a system for your own PCR optimization.

TaKaRa RNA PCR Kit

for your PCR Perfection without Compression:

AMV Reverse Transcriptase facilitates high temperature reactions to prevent extension compression caused by the hindrance of higher order structure of RNA. Furthermore, a combination of Oligo(dT)₄₀ M4 Adaptor Primer and M13 M4 Primer enhances both specificity and productivity of the amplification.
Kodak Imaging Technology for Biological Research.

Kodak Scientific Imaging Systems combines the molecular biology expertise from its IBI roots with Kodak leading-edge imaging technology for picture-perfect research results. We're dedicating our unique strengths to maximize the quality of your life science research data. Names you trust from the IBI Biolyzer and the FLAG® system to Kodak XAR film—are all part of the Scientific Imaging Systems family.

And there are more innovations on the way. Like our new BioMax MR film designed specifically for nucleic acid sequencing. Our redesigned line of horizontal electrophoresis units. And our Kodak Digital Color printers for cost-effective, presentation-quality images at a moment's notice.

You can learn more about our powerful biological research and imaging product systems without leaving your lab. The new '94-'95 Kodak catalog gives you the information you need to select the right tools for your research. Request a copy of our catalog today.

Call (800) 243-2555 or fax (203) 786-5694. To place an order, contact your local Baxter Scientific Products or VWR Scientific sales office.