Image Analysis Software

The Zeiss Image series of image analysis software is designed for use with Power Macintosh computers. The software covers the full range of counting, measurement, image, image enhancement, and image archiving applications. Users can employ gray scale or color acquisition, processing, and analysis. The program works seamlessly with other Macintosh-based applications such as Microsoft Excel and Word. Carl Zeiss. Circle 143.

Graphics Visualization Software

Mvox is a powerful, interactive package for the visualization and processing of two-, three-, and four-dimensional image structures. It has the ability to display and manipulate data in a variety of image and three-dimensional graphic formats. It also allows the user to invoke the full power of HIPS-2 image-processing software, thereby providing advanced image-processing capabilities in the Mvox environment. It has been successfully used to visualize and segment two- and three-dimensional medical images with stacks of slices, such as those derived from magnetic resonance imaging; two- and three-dimensional color images, such as histological slices from the Visible Human data set; two-dimensional remote sensing images with many channels; three-dimensional surface graphics, such as those used in computer-aided design programs; and time sequences of any of the above. SharpImage Software. Circle 144.

Azido Nucleotides

A line of unlabeled and 32P-labeled nucleotide photoaffinity probes is available, including probes for studying G proteins. These nucleotide analogs contain a photocleavable azido group substitution in the base ring of the nucleotide. Activation by ultraviolet light produces a highly reactive nitrone that inserts into either the peptide backbone or the amino acid side chains to form the covalent linkage. Probes can be photolyzed within 1 to 2 min with a hand-held ultraviolet lamp. The process makes use of common laboratory tools and a simple experimental setup. The probes are stable under normal room lighting, eliminating the need for a separate work area. Research Products International. Circle 145.

Image Analysis Systems

The gel documentation camera systems of Biophotonics Corporation have been paired with Bio Image software to offer a complete system for electrophoresis image analysis. Systems are available ranging from individual benchtop workstations to a system capable of multiple user network integration. Image analysis capabilities include application modules for one-dimensional analysis, two-dimensional analysis, blot analysis, and colony counting for both Windows and PowerMac systems. Bio Image. Circle 146.

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Circle No. 37 on Readers' Service Card

Methods of Moisture Content Determination is a 63-page brochure with specialized, practice-oriented background information. It contains tables, text, and plots that provide an overview of the measurement methods in use today. Mettler Toledo. Circle 148.

HPLC Column Manager is an eight-page brochure on a computerized system for tracking and managing high performance liquid chromatography columns. Phenomenex. Circle 149.

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Several TENURE-TRACK faculty positions are available starting fall 1997. Our primary teaching needs are in organic and biological chemistry. We are committed, however, to hiring the best person irrespective of area. We encourage applications for faculty positions that interest others disciplines such as biological, materials, and environmental sciences, as well as interests in the more traditional areas of chemistry. The emphasis is on research that can establish an exceptionally strong and highly visible research program that incorporates excellence in undergraduate and graduate education. A complete resume, a synopsis of research plans, and three letters of recommendation are required. Review of applications will begin October 2, 1996 and will continue until the positions are filled. Send inquiries to: Chairman of the Search Committee, Department of Chemistry, 110 Davey Laboratory, Penn State University, University Park, PA 16802. An Equal Opportunity Employer.

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University of California, Irvine

The Department of Chemistry invites applications for a tenure track position of ASSISTANT PROFESSOR. The area of interest is atmospheric chemistry. We are seeking an outstanding Ph.D. who will establish a vigorous research program in areas that will complement existing programs in atmospheric chemistry both within the Department of Chemistry as well as in Earth System Science. Typical, but not exclusive areas include the development of new techniques for fundamental measurements in atmospheric chemistry, modeling and photochemistry of organic or inorganic atmospheric species, or aerosol chemistry. The ability to effectively teach general and graduate level courses is required. Applicants should send their curriculum vitae, a list of publications, and a research proposal to: Professor B. J. Finlayson-Pitts, Atmospheric Chemistry Search Committee, Department of Chemistry, University of California, 516 Physical Sciences 1, University of California, Irvine, CA 92697-2025. Applicants should also arrange to have three letters of recommendation submitted on their behalf. To ensure full consideration, applications and all supporting materials should be received by November 15, 1996. The University of California is an Equal Opportunity Employer committed to excellence through diversity.

FACULTY POSITION

CIRCADIAN BIOLOGY

University of Virginia

The Department of Biology at the University of Virginia (http://www.virginia.edu) invites applications for a TENURE-TRACK/TENURED appointment. We are seeking an exceptional researcher and committed teacher who can contribute to and help us inves-

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We are currently looking for outstanding people in the following areas:

**Senior Research Chemist**

Ideal candidates will have a PhD in Organic or Medicinal Chemistry, or between 3-9 years experience. In-depth knowledge of Synthetic Organic Chemistry and Medicinal Chemistry, as well as a record of scientific excellence and contribution in the form of publications, presentations and patents is required. (Job # 96-JLW-1476)

**Associate Chemists**

- You will be responsible for the synthesis, isolation and characterization of novel organic compounds as candidates for drug discovery in a variety of therapeutic areas. Ideal candidates will have a BS or MS in Chemistry, Medicinal Chemistry, or equivalent industrial experience in Organic Synthesis. Knowledge and experience with multi-step synthetic sequences, chromatographic purification and modern spectroscopic methods highly desirable. (Job # 96-JLW-1357)
Research Chemist

Ideal candidates will have a Ph.D in Chemistry. Technical skills and in-depth knowledge of the scientific field, as well as the ability to initiate and conduct experiments that involve aspects of the overall pharmaceutical discovery process are required. (Job # 96-JLW-2405)

Research Development Scientist

You’ll be responsible for the conception, development and start-up of chemical processes for new planning skills. Industrial or postdoctoral experience in Analytical Chemistry desirable. Familiarity with complex instrumentation and data handling systems, with an emphasis on HPLC, GC and TLC is required. (Job # 96-LAM-1557)

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pharmaceutical compounds. You will also be instrumental in maximizing efficiency in chemical processes. Ideal candidates will have a Ph.D or MS in Organic Chemistry. Synthetic experience and familiarity with analytical techniques are essential. (Job # 96-LAM-1430)

Research Analytical Chemist

Ideal candidates will have a Ph.D or MS in Analytical Chemistry, along with strong project high profile challenges and multiple paths for professional advancement.

If you would like to find out how we can turn your inspiration into an innovation, please forward your resume to:

Abbott Laboratories, Job# , D583, AP6B, 100 Abbott Park Rd., Abbott Park, IL 60064.

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**Senior Scientist - High Throughput Screening**

This is an excellent opportunity for an individual with exceptional management and communications skills to take charge in setting-up and managing our first small molecule robotics screening group. Specifically, this will involve designing assays for automated screening, planning logistics to coordinate with project teams and communicating with the research management team. To qualify, candidates must have a Ph.D. in Pharmacology, Biochemistry or related field and at least 5 years of pharmaceutical or biotechnology experience dealing with robotics in both biochemical and cellular assay development. A thorough understanding of issues associated with robotics systems and data management is also essential.

Biogen offers what few companies in our industry can — Professional Challenge, Stability, Growth, and one of the strongest financial profiles in the industry. In addition, our compensation and benefits package, including equity participation, is one of the best in the industry, and is designed to attract and retain the finest talent available. If you are one of the best, this is your opportunity to join our expanding universe. Please forward your resume to:

Ron Cornila, Biogen, Inc., 14 Cambridge Center, Cambridge, MA 02142. FAX: (617) 679-2546

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**Synthetic Organic Chemists & Macromolecular Modellers**

Karo Bio AB is a research-intensive Swedish pharmaceutical company focused on the development of small molecule therapeutics for nuclear receptor-based diseases. We have collaborations with partners such as Novo Nordisk and Hoffmann-La Roche. Our company is at the forefront of nuclear receptor research and has access to receptor structures and proprietary screening technologies. With this unique technology base, we intend to develop new compounds for the treatment of major clinical indications.

*We are currently expanding our research and development efforts in the San Francisco Bay Area and are filling Ph.D. level positions in the areas of synthetic organic chemistry, combinatorial chemistry, and macromolecular modelling.* Successful candidates will have at least two years of postdoctoral experience and demonstrated expertise in synthetic organic chemistry, as well as familiarity with modern methods of combinatorial chemistry. Additional experience in the pharmaceutical industry is also desirable.

Please send your resume, including a complete list of publications, references and salary history to: Karo Bio Inc., Human Resources, P.O. Box 642311, San Francisco, CA 94164-2311.
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Denis Ryono, Ph.D.
Sr. Principal Scientist
Princeton, NJ

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Christa La Clair
Associate Research Scientist
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Bristol-Myers Squibb Pharmaceutical Research Institute, the R&D division of Bristol-Myers Squibb, is currently expanding its Medicinal Chemistry Division. Our Drug Discovery area has integrated several scientific teams to strengthen and expand its effort in organic synthesis and combinatorial chemistry approaches. Under the direction of a supervising scientist, the selected scientists will be responsible for the synthesis of novel pharmacologically active compounds using organic synthesis techniques and combinatorial approaches.

We are seeking experienced and highly motivated scientists with BS or MS degrees in organic chemistry and a minimum of two years' relevant research experience. Candidates must possess sound knowledge of the practical and theoretical aspects of synthetic organic chemistry including familiarity with modern analytical techniques for compound purification and characterization i.e., chromatography (TLC, Column Chromatography, HPLC) and spectroscopy (NMR, IR, MS).

Knowledge of Macintosh based software (ChemDraw, Word, Excel) is desirable.

Good written and communication skills are necessary for concise documentation, presentations, and discussion of scientific results.

We offer competitive salaries and benefit programs, a highly collaborative environment, a network of multidisciplinary teams and a strong commitment to scientific integrity.

If you are interested in opportunities in Princeton, New Jersey, please forward/fax your resume to: Bristol-Myers Squibb Pharmaceutical Research Institute, Human Resources, Dept. BM-611, P.O. Box 11279, Trenton, NJ 08620-0279. Fax: (609)581-8841.

If you are interested in opportunities in Wallingford, Connecticut, please forward/fax your resume to: Bristol-Myers Squibb Pharmaceutical Research Institute, Human Resources, P.O. Box 5101, 5 Research Parkway, Wallingford, CT 06492-7661. Fax: (203) 284-7762.

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Scott Martin
Research Scientist
Wallingford, CT

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BS/MS
Princeton, NJ and Wallingford, CT
Opportunities
Amgen, the world's largest biotechnology company, currently has the following opportunities within its Boulder, Colorado facility.

**INFORMATION CONSULTANT**
Job Code BPSC4567; Position acts as an information consultant networking with internal Amgen, Boulder clients to provide access and training on appropriate information resources, and consults with clients on their needs. Applicant will typically have a BS in Chemistry or related field, with a MS in Library Science preferred, and 6-9 years of technical experience in a library setting including on-line searching experience. Experience should include: 3 or more years' searching chemical and biomedical databases; 3+ years' computing in Mac, Windows, or UNIX environments; 2+ years' with presentations, demonstrations, or teaching, and 2 years' searching the Internet. Applicant must have the ability and confidence to search STN databases (including substructure, reaction, and Markush searching) supporting basic research and the licensing/patenting of new molecular entities. Ability to work and make decisions independently, and perform effectively on corporate strategic teams essential.

**RESEARCH ASSOCIATES (2 positions)**
Job Code BPSC5506: Position will assist the Senior-level Research Associates and Research Scientists in the synthesis, purification, and distribution of oligonucleotides for research use. Requirements include a BS/BA in Chemistry, Biology or a related field, and 1-2 years' laboratory research experience. Must be computer literate and have previous large-volume sample handling experience. Detail-oriented individuals with strong communication skills and a desire to work in a team environment preferred.

Job Code BPSC5721: Position is responsible for conducting experiments, organizing data, and analyzing results. Requirements include a BS in Chemistry or related field, with a MS in Organic Chemistry preferred, and 5-10 years of related research experience. Successful applicant will have experience with synthesis, purification and identification of small organic molecules. Applicant must have previous experience using standard spectroscopic techniques and HPLC techniques, and be familiar with all standard laboratory synthetic transformations. Knowledge and experience with high-speed synthetic techniques desired.

**RESEARCH SCIENTISTS (3 positions)**
All positions are responsible for designing, implementing, and directing specific scientific experiments which significantly contribute to attaining goals jointly established by the Research Staff.

Job Code BPSC5725: Requirements include a Ph.D. in Organic Chemistry or related field (preferably Synthetic Organic Chemistry), post-doctoral training or related experience, and typically 2 or more years of related experience in a research or laboratory setting. Successful applicant will have expert knowledge of synthetic organic chemistry with a proven track record of accomplishments supported by publications. Applicant must have good interpersonal communication skills. In addition, expert knowledge of medicinal chemistry, record of research proposals, and previous supervisory experience preferred.

Job Code BPSC5505: Requirements include a Ph.D. in Chemistry or Life Sciences, and 2 or more years' post-graduate research experience. Successful applicant will have a strong background in both solid-phase and solution-phase peptide chemistry, and general organic synthesis skills. Applicant must also have good communication skills, advanced scientific analysis and troubleshooting skills, and advanced laboratory work skills.

Job Code BPSC5722: Requirements include a Ph.D. in Chemistry or related field, and 7 or more years' related research experience. Successful applicant will have a strong track record of technical expertise and accomplishment in the field of peptide synthesis and low molecular weight protein total synthesis. Applicant must have knowledge of solid phase methodology, purification, analytical, and spectroscopic techniques. Applicant must also have experience with non-routine peptide synthesis, and knowledge/experience with automation and computer operation.

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See chemistry recruitment advertisements in this issue of SCIENCE. The following organizations are recruiting chemistry professionals:
- Abbott Laboratories
- Amgen
- Biogen
- Bristol-Myers Squibb Pharmaceutical Research Institute
- Chugai Biopharmaceuticals, Inc.
- Corning Bio
- DuPont
- Genentech, Inc.
- Karo Bio, Inc.
- MIT
- Oakland University
- Pennsylvania State University
- Pfizer, Inc.
- Promega Corporation
- Rhone-Poulec Rorer
- Schering-Plough Research Institute
- St. Jude Children's Research Hospital
- 3-Dimensional Pharmaceuticals, Inc.
- University of Central Florida
- University of Massachusetts Boston
- University of Texas-Houston

http://www.sciencemag.org
The Musculoskeletal and Cardiovascular Research Groups of Procter & Gamble Pharmaceuticals have several openings for senior-level research scientists in our R&D laboratories in Cincinnati, Ohio, at our new $280 million Health Care Research Center. We are seeking established investigators who have made important research discoveries, and who are recognized by peers as leading thinkers and contributors to their respective scientific fields. Successful candidates will have an M.D. or Ph.D. degree in the appropriate field, an outstanding publication record, and a minimum of seven years relevant research experience beyond the doctoral degree.

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**Research Program Director, Vascular Biology**

The successful candidate will be an established senior researcher in the field of vascular biology with 4-8 years of independent investigation beyond the postdoc. This individual will build and lead a discovery group that is focused on biochemical and molecular biological mechanisms mediating normal and pathological vessel development including receptor-ligand interaction, signal transduction and gene regulation. This person will also discover and champion molecular approaches to therapies for preventing myocardial damage that occurs after acute and/or recurrent episodes of ischemia and reperfusion. The ideal candidate will have extensive experience in the cell and molecular biology of the cardiovascular system and a clear track record of expertise in the diverse cellular and physiological mediators controlling processes such as angiogenesis, atherosclerosis, restenosis, and other inflammatory responses of the endothelium.

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**Research Program Director, Skeletal Muscle Biology**

The successful candidate will be a leading researcher in the field of skeletal muscle biology with 4-8 years of independent investigation beyond the postdoc. This role will establish and lead a program in basic discovery leading to novel therapeutics for muscle atrophy. The incumbent will have responsibilities for multiple research projects and will direct other scientists. Individuals with specialization in the fields of cell and developmental biology, molecular biology, neuromuscular biology, or molecular endocrinology with expertise in mechanisms involved in skeletal muscle atrophy and repair are strongly encouraged to apply. Industry experience is not essential; however, supervisory experience and outstanding leadership skills are required. A clear track record of innovation and productivity is required.

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**Senior Research Scientist, Skeletal Muscle Biology**

The position requires an established research leader in skeletal muscle cell or molecular biology, neuromuscular biology, or molecular endocrinology with 2-3 years of independent investigation beyond the postdoc. The successful candidate will have responsibilities for conducting research leading to the identification of targets for treatment of skeletal muscle atrophy. Required skills include a working knowledge of modern molecular genetic profiling techniques and/or transcription assay design. The ideal candidate will have expertise in cell and molecular mechanisms involved in wasting and repair of skeletal muscle. Previous industry experience is not essential. Good oral and written communication and leadership skills are required.

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Recognized as the world leader in the development and delivery of innovative, cost-effective therapeutics, Amgen’s ground-breaking advances in cellular and molecular biology offer unlimited potential for significant discovery. Our facility in Thousand Oaks, CA has experienced tremendous growth. We are initiating a program in Small Molecule Drug Discovery that is focused on medicinal chemistry, molecular pharmacology and high throughput screening involving a variety of therapeutic areas.

We have immediate openings for experienced database designers in the following areas:

**ISIS DATABASE ANALYST/PROGRAMMER**

Primarily, you will design, implement and maintain ISIS chemical structure databases for our Small Molecule Chemistry Group. Your responsibilities will also include exchanging data with relational databases, such as ORACLE, using gateway utilities.

A BS in Computer Science or an advanced degree in Chemistry, and 3 years’ experience designing MACCS and ISIS databases is required. A solid background in relational database development is critical. Strong written and communication skills and the ability to work effectively with a multi-disciplinary, collaborative team are essential.

**COMPUTATIONAL SCIENTIST**

Using 4th Dimension or a related GUI product, the selected individual will design and develop user interfaces to relational databases in support of the Small Molecule Chemistry group. You will track data and design reports for all aspects of the group’s work which includes: reagent tracking, planning combinatorial chemistry syntheses, coordinating high throughput screening results, interacting with lab automation, and information exchange with molecular modeling programs.

A Ph.D. in Organic Chemistry, Biochemistry or equivalent and 2 years’ experience in programming high-level languages such as C, Fortran or Pascal are required. Competency in general methods of organic synthesis and analysis, or in methods of compound screening to discover novel small molecule drugs is a must. Experience working with relational databases is essential, as is the ability to work well in a team environment. Previous experience using the ISIS chemical structure database systems, ORACLE, or Sybase SQL databases is preferred.

We recognize that diverse perspectives are a key factor in the process of discovery.

At Amgen, your accomplishments are rewarded. We offer a highly competitive compensation and benefits package that includes a retirement and savings plan, an on-site fitness center and 3 weeks’ vacation. For immediate consideration, mail your resume to: Amgen, Staffing, Job Code: TPSC, P.O. Box 2569, Thousand Oaks, CA 91319-2569. E-mail: jobs@amgen.com. Consult our on-line Job Bulletin Board at amgen.bio.com for more information on other career opportunities available at Amgen. Principals only, please.

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The University of Washington
COLLEGE OF FOREST RESOURCES

**9-Month Tenure-Track Assistant Professor Positions**

The University of Washington College of Forest Resources invites applications for two 9-month tenure-track assistant professor positions. The successful applicants’ teaching and research programs are expected to contribute to an increasing emphasis on interdisciplinary approaches within the College and with other University programs. The University of Washington is building a culturally diverse faculty and strongly encourages applications from female and minority candidates. Although the College is seeking persons at the assistant professor rank, under unusual circumstances and commensurate with the qualifications of the individual, appointments may be made at the rank of associate professor or professor.

**Wildlife Science**

This position offers opportunities for a broadly trained vertebrate ecologist with experience in wildlife-habitat relationships and/or population ecology related to forest management.

**Responsibilities:** Develop a 3-quarter teaching profile, including courses in a vertebrate ecology specialty and in wildlife-forest relationships, and assistance in other undergraduate courses. Advise graduate and undergraduate students. Participate in public and professional outreach programs of the College. Develop a personal research program.

**Requirements:** Ph.D. in wildlife science or related field.

Application Closing Date: October 1, 1996. To apply, send a letter of application, resume/vitae, transcripts, and three (3) letters of reference to Dr. David A. Manuwal, Chairman, Wildlife Science Search Committee, University of Washington, College of Forest Resources, Box 352100, Seattle, Washington 98195-2100. E-mail: auklet@u.washington.edu.

**Landscape Plant Science and Management**

This position offers opportunities to pursue teaching, research, and public service in landscape plant science, particularly management and selection of plants for human-dominated landscapes.

**Responsibilities:** Develop a 3-quarter teaching profile, including Landscape Plant Management and other courses supporting the graduate and undergraduate programs of the Division of Urban Horticulture (e.g., part of Restoration Ecology) as well as interdisciplinary programs in the College and the University. Direct graduate students, technical staff, and postdoctoral fellows, as appropriate. Participate in public and professional outreach programs of the College. Contribute to the management of the Center for Urban Horticulture’s live plant collections at the Washington Park Arboretum, Union Bay Gardens, and Union Bay Natural Areas. Develop a personal research program in such areas as horticultural physiology, physiological effects of alternative management practices, evaluation of physiological ranges of landscape plants, characterization and classification of urban planting sites, plant testing and evaluation, production of native plants for habitat restoration, and introduction to the landscape industry.

**Requirements:** Ph.D. in horticulture, urban forestry, botany, ecology, or related field, including significant training in whole-plant physiology, and a record indicating actual or potential leadership in landscape plant science.

Application Closing Date: October 1, 1996. To apply, send a letter of application, resume/vitae, copies of official transcripts, statement of research interests (including an assessment of critical issues in the field), and three (3) letters of reference to Dr. Kern Ewing, Chairman, Landscape Plant Science and Management Search Committee, University of Washington, College of Forest Resources, Center for Urban Horticulture, Box 354115, Seattle, Washington 98195-4115.
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SENIOR SCIENTIST/
PROTEIN BIOCHEMIST
Excellent opportunity for a Senior Scientist with extensive experience in protein biochemistry and enzymology to work on the characterization and purification of proteases involved in the metabolism of the amyloid precursor protein. Background must include demonstrated expertise in protein purification, enzyme assays, enzyme kinetics, ELISA techniques and antibody generation. Experience in the purification and characterization of membrane proteins is a plus. Additional experience in basic molecular biology techniques, particularly protein expression in prokaryotic and eukaryotic systems, is desirable. To be considered for this position, please reference Dept. DMS/EP-PB/SS.

SENIOR SCIENTIST/
CELL BIOLOGIST
We are seeking a Cell Biologist with a strong background in neurobiology to study the molecular and cellular mechanisms responsible for neuronal degeneration in cerebral ischemia and Alzheimer's disease. Background must include experience with primary neuronal cultures, mammalian cell culture, ELISA techniques, antibody generation, immunocytochemistry, signal transduction assays and basic molecular biology techniques. To be considered for this position, please reference Dept. DMS/EP-CB/SS.

SENIOR SCIENTIST-
MOLECULAR BIOLOGIST/
ELECTROPHYSIOLOGIST
We are seeking a Molecular Biologist with additional expertise in electrophysiology to work on the cloning and electrophysiological characterization of novel drug discovery targets. Background must include extensive experience in all common molecular biological techniques such as cDNA library construction and screening, polymerase chain reaction, site-directed mutagenesis, Northern and Southern blotting and expression of cloned genes in prokaryotic and eukaryotic cells. The ability to express and electrophysiologically characterize novel cDNA clones in the Xenopus oocyte expression system is also essential. To be considered for this position, please reference Dept. DMS/EP-MB/E/SS.

We offer an excellent compensation package including a competitive salary and comprehensive benefits. For prompt, confidential consideration, we invite you to forward a resume indicating the Dept. Code for your position of interest and salary requirements to: Human Resources, Schering-Plough Research Institute, MS 1255, 2015 Galloping Hill Road, Kenilworth, NJ 07033-0539. We are an equal opportunity employer. We regret we are unable to respond to each resume. Only those selected for an interview will be contacted.

Schering-Plough Research Institute
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Ortho Diagnostic Systems Inc. provides reagent and instrument systems to hospital and commercial clinical labs and blood donor centers. We're a fast-moving and growing company within Johnson & Johnson, the world's largest and most comprehensive manufacturer of health care products with over $18 billion annual sales.

We have an immediate opportunity in CENTRAL NEW JERSEY (midway between New York City and Philadelphia) for a candidate with a Ph.D. in biomedical/medical science and 9+ years of experience in the diagnostic industry, including a strong background in hemostasis. Experience with instruments, reagent systems and a background in immunoassay development are required. A publication record and excellent communication skills are required. We will look to prepare reports and technical reviews and make presentations at scientific meetings.

The successful candidate will have demonstrated management skills and the ability to work in a team environment managing research personnel and assisting in directing internal and external research programs. Interpersonal skills are needed to work with QA, Manufacturing and Product Support to maintain reagent quality. Responsibilities include budget management and the identification of new product opportunities.

We offer a competitive salary and comprehensive benefits including medical/dental insurance, 401(k) plan, and our LIVE FOR LIFE Wellness Program with on-site fitness center. To apply, please send a copy of your resume suitable for scanning into our database (i.e., clean/clear, no graphics, and preferably unfolded) to: Dept. 812, Johnson & Johnson Recruiting, P. O. Box 16597, New Brunswick, NJ 08906-6597.

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ASSISTANT OR ASSOCIATE PROFESSOR
HUMAN GENETICIST/MOLECULAR GENETIC EPIDEMIOLOGIST
University of Cincinnati Medical Center
Cincinnati, Ohio

A full-time tenure-track faculty position is available immediately. The primary department for this appointment is the Department of Environmental Health in the College of Medicine; joint appointments with other Departments in the College (e.g., Pediatrics, Internal Medicine, or Pathology) could be negotiated. Candidate must have an M.D. or Ph.D. degree, at least 2-3 years of postdoctoral experience in molecular biology and genetics, and preferably an active/funded research program in human genetics and epidemiology. Additional research experience in the interaction between genes or gene products and occupational and/or environmental agents is strongly preferred. Primary criteria for level of appointment will include a relevant publication record in peer-reviewed journals, demonstrated ability through grant awards for significant population/clinical research, and evidence of successful teaching through student evaluations.

It is intended that the candidate join in the expansion of an existing research program in ecogenetics, and collaborate with other investigators having similar interests and objectives, specifically in the design and conduct of clinical and population studies of environmental exposures, in order to identify potentially high-risk subpopulations. Interdepartmental collaborations, through the Center for Environmental Genetics and the University of Cincinnati Medical Center, are very much encouraged.

Interested candidates should forward a curriculum vitae, a list of publications, a summary of research interests, and three letters of recommendation to: Daniel W. Nebert, M.D., or Grace Lemasters, Ph.D., Department of Environmental Health, University of Cincinnati, P.O. Box 670056, Cincinnati, OH 45267-0056. Applications must be received by August 31, 1996. The University of Cincinnati is an Equal Opportunity/Affirmative Action Employer.

The University of California, San Diego, Department of Chemistry and Biochemistry invites applications for several tenure track and tenured faculty positions in biochemistry at the Assistant or Associate Professor level. Candidates must have a Ph.D. and a demonstrated ability for creative research and teaching at the undergraduate and graduate levels. The committee is interested in receiving applications from chemists, biochemists, structural biochemists, and molecular biologists. Applicants will be considered in all areas, but the committee is particularly interested in applicants with an expertise in three areas: macro-molecular structure, cell proliferation and growth control, and RNA. Salary commensurate with qualifications and based on University of California pay scale. Positions subject to availability of funds. Candidates should send a curriculum vitae, a list of publications, reprints of up to five representative papers, a summary of research plans, and names and addresses of three references to: Chair, Biochemistry Search Committee 3-277, University of California, San Diego, Department of Chemistry and Biochemistry - 0332, La Jolla, CA 92093-0332. The deadline for applications is October 15, 1996, but until positions are filled all applications received will be assured full consideration. The University of California is an equal opportunity/affirmative action employer.

Much of the success of Bayer Corporation, Pharmaceutical Division, is based on innovation and research. At the same time, all of our success is based on the talent and drive of our people. As an integral part of Bayer, a $26.8 billion global leader, we have the resources to provide our employees with a supportive, state-of-the-art, multidisciplinary environment that encourages their professional growth and makes our success possible. Join our dedicated team of professionals in the following positions in our Scientific Affairs Group:

Scientific Editor

You will plan, develop, write, revise, produce and place articles and other publications in the scientific press and medical/health literature based on Bayer strategies and objectives. You will also plan, develop and implement continuing education programs and materials in accordance with Bayer strategies and in conjunction with professional societies and continuing education agencies, as well as develop and implement appropriate US components of the international publication strategies and objectives.

A strong scientific/medical background, a PhD or MD/PhD in a scientific/medical discipline, plus a minimum of five years' experience in a related scientific/medical/medical-pharmaceutical area required. A minimum of four years' experience must include medical writing. Demonstrated ability to interpret scientific and clinical trial data, strong scientific writing ability and excellent editorial and interpersonal skills essential. Must be independent, creative, innovative and able to juggle a variety of projects. Must also be a self-starter and able to maintain a high level of productivity with minimal supervision. Ability to supervise consultants and motivate individuals along with knowledge of word processing, bibliographic, statistic and database services necessary.

Medical Writer

You will write, edit and submit articles in scientific and medical journals based on Bayer strategies and objectives. Using your scientific background, you will develop, execute and coordinate continuing education programs and materials, implement specific communication strategies (manuscripts, abstracts, posters, slides, text and electronic database searches). To qualify, you should possess a BS/BA in science or health related field and a minimum of 5 years' experience as a medical writer in a related area, or a MD and a minimum of 3 years' medical writing experience. This position requires excellent communication skills and the ability to handle a variety of projects simultaneously. A high degree of organization and computer skills are necessary.

We offer attractive compensation and benefits. For immediate consideration, please forward a resume, including salary history, to: Bayer Corp., Pharmaceutical Division, Dept. N-828-B, 400 Morgan Lane, West Haven, CT 06516. Fax telephone calls please.

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Pharmaceutical Division
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RHÔNE-POULENC RORER, one of the world’s leading pharmaceutical companies, is seeking highly motivated, team oriented scientists to join our U.S. Pharmaceutical Discovery team devoted to the discovery of innovative cardiovascular and bone products. These challenging opportunities are available at our state-of-the-art facility located in Collegeville, Pennsylvania - in the western suburbs of Philadelphia.

**BONE METABOLISM**

**BIOCHEMISTS**
Requires a Ph.D. with 0-6 years postdoctoral experience. Candidates should possess a strong knowledge and technical ability in biochemistry and enzymology with an established publication record in this area. A minimum of 2 years bone biology experience also necessary. **Respond to position B-1.**

**CELLULAR BIOLOGISTS**
Requires a Ph.D. with 0-6 years postdoctoral experience. Candidates should possess a strong knowledge and technical ability in molecular and cell biology with an established publication record in this area. A minimum of 2 years bone biology experience also necessary. **Respond to position B-2.**

**CELLULAR BIOLOGISTS**
Requires an M.S. and 2-5 years experience with cell culture techniques or a minimum of 5 years experience with cell culture and basic molecular techniques. Experience in bone biology is preferred. **Respond to position B-3.**

**BIOCHEMISTS**
Requires an M.S. and 2-5 years experience working in a biochemistry and molecular biology environment. Experience in bone biology is preferred. **Respond to position B-4.**

Rhône-Poulenc Rorer offers a competitive compensation and benefits package.
For confidential consideration, please submit ONE copy of your resume/CV along with the position(s) you are applying to:

Rhône-Poulenc Rorer Research & Development Human Resources, Mall Stop H37 Position(s) ______, P.O. Box 5096 Collegeville, PA 19426-0800

**CARDIOVASCULAR BIOLOGY**

**CELLULAR BIOLOGISTS**
Requires a B.S./M.S. and 1-5 years laboratory experience. Candidates should possess a strong knowledge of cell culture techniques. A background handling adenoviruses desired. **Respond to position C-1.**

**MOLECULAR BIOLOGISTS**
Requires a B.S./M.S. and 1-5 years experience working in a research laboratory. Candidates should possess a strong knowledge of molecular biology, gel electrophoresis/protein RNA blots, immunological/radiochemical assays, and cell culture techniques. Some cardiovascular pharmacology experience is also necessary. **Respond to position C-2.**

**BIOLOGISTS**
Requires a B.S./M.S. and 1-5 years experience working in a research laboratory, which must include performing in vivo and in vitro experiments. A strong knowledge of biochemistry and cell biology is also necessary. **Respond to position C-3.**

**PHARMACOLOGISTS/BIOLOGISTS**
Requires a Ph.D. and 2 years postdoctoral experience using in vivo models of atherosclerosis and thrombosis. Candidates should possess a demonstrated record of accomplishment in thrombosis or atherosclerosis research. **Respond to position C-4.**

**PHARMACOLOGISTS**
Requires a Ph.D. and 4-6 years postdoctoral experience in drug discovery and an accomplished record of achievement and expertise in the area of in vivo models of cardiovascular disease, including ischemic heart disease, PVD, and heart failure. Candidates should possess detailed knowledge of the pathophysiology of these disease states and an understanding of cellular and molecular biology and enzymology. **Respond to position C-5.**

**BIOCHEMISTS/CELL BIOLOGISTS**
Requires a Ph.D. and 2 years postdoctoral experience in cell biology, cell biochemistry, or molecular biology. Candidates should possess an accomplished record of achievement and expertise in the development and application of novel assays to detect and quantify levels of proteins/nucleic acids in cells and tissues. Involvement in cardiovascular disease research projects and a background working in the areas of ischemic heart disease and heart failure required. A sound understanding of cardiovascular physiology and pharmacology is also necessary. **Respond to position C-6.**

We are an equal opportunity employer, M/F/D/V.
Southern Research Institute has a challenging opportunity for a Crystallographic Postdoctoral Research Fellow in our Life Sciences Division. Southern is a world class non-profit research center with annual revenues exceeding $32 million. The Life Sciences Division conducts basic research on anti-cancer and anti-infective drugs, including the design, synthesis and evaluation of drug candidates, as well as pre-clinical drug development studies, including drug formulation, toxicology and pharmacology.

This NIH-funded position will focus on the crystal structure analysis of compounds bound to Toxoplasma gondii HGPRT. Crystals that diffract to 1.7 Å resolution are in hand. This position is part of a larger project to design novel drugs to treat Toxoplasmosis. The project also includes the production and characterization of mutan and chimeric HGPRTs, and the synthesis and testing of inhibitors. Other crystal-structure based drug design projects in the laboratory focus on Pneumocystis carinii DHFR, T. gondii DHFR-TS and UPRT, and Plasmidial falciparum HGPRT.

Successful candidates will be highly motivated, have a Ph.D. in Protein Crystallography, demonstrated experience in the determination of protein crystal structures, and should be interested in Structure-Based Drug Design. Experience with data collection at synchrotron radiation sources is a plus.

Interested candidates should mail or fax their CV and the names, addresses and telephone numbers of three references to: Jeff Prince, Human Resources Dept., 162, Southern Research Institute, P.O. Box 55305 Birmingham, AL 35255-5305, Fax: (205) 581-2200.

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Every day, Searle produces some of the world's most revolutionary products. And as a quickly expanding, wholly-owned subsidiary of Monsanto, a $16.2 billion, Fortune 100 leader in agricultural products, pharmaceuticals, food ingredients and chemicals, we're constantly impacting the lives of people around the world, and improving the career opportunities for our professionals.

Cardiovascular Thrombosis Research Scientist

As part of our multi-disciplinary Cardiovascular Disease Research Group, you will be an integral part of thrombosis and anticoagulation research. We seek a Ph.D. researcher with an established reputation, post-doctoral experience and publication track record in the areas of thrombosis, platelet biology and hemostasis. You'll also need excellent communication skills, an ability to prioritize your work and demonstrate intellectual integrity and trustworthiness. An ability to resolve conflicts and encourage individuals to take responsibility is a must.

There's only one thing more diverse than our business units and that's our talented group of professionals. To join them in a unique environment that's specifically designed for communication and innovation, send your resume to: MONSANTO COMPANY, MH, Human Resource Department, Job # CTRS, 800 N. Lindbergh, Mail Zone C3ND, St. Louis, MO 63167. EOE.

Postdoctoral/Professional Researcher Fellowships in the Department of Anatomy and Neurobiology
University of California, Irvine

Several positions for research in individual laboratories are available at the postdoctoral and professional researcher series level as follows:

Tallie Z. Baram, M.D., Ph.D.
Cellular mechanisms of developmental epilepsies; the developmental neurobiology of stress.

Robert H. Blanks, Ph.D.
Eye movements/posturography.

Anne L. Calof, Ph.D.
Molecular mechanisms regulating neurogenesis and programmed cell death.

James H. Fallon, Ph.D.
Chemical neuroanatomy, transmitters and growth factors.

Christine M. Gall, Ph.D.
Neurotrophic factors, neuronal gene expression, functional neuroanatomy.

Roland A. Gioili, Ph.D.
Vissuomotor system; structure/function relationships.

Edward G. Jones, M.D., Ph.D.
Transmitter regulation in primate cerebral cortex; neuropathology of schizophrenia.

Leonard M. Kitzes, Ph.D.
Auditory system anatomy and physiology.

W. Ian Lipkin, M.D.
Neurotropic viruses and viral pathogenesis, Borna disease virus.

Diane K. O'Dowd, Ph.D.
Regulation of electrical excitability and synaptic connectivity in the developing nervous system.

Charles E. Ribak, Ph.D.
Epilepsy, neurotransmitters and hippocampal circuits.

Richard T. Robertson, Ph.D.
Developmental neurobiology of cerebral cortex.

Martin A. Smith, Ph.D.
Regulation of gene expression during synapse formation.

Ivan Soltesz, Ph.D.
Plasticity of cortical inhibition.

John E. Szent, Ph.D.
Spinal cord and peripheral nervous system.

John H. Weiss, M.D., Ph.D.
Glutamate receptors, calcium, and mechanisms of selective neurodegeneration.

Interested applicants should send curriculum vitae to: Dr. Richard T. Robertson, Professor and Chair, Department of Anatomy and Neurobiology, University of California, Irvine, CA, 92697-1275

University of California is an Equal Opportunity/Affirmative Action Employer committed to excellence through diversity.

Oregon Health Sciences University
Biochemistry & Molecular Biology
ASSISTANT PROFESSORS (2)

The Department of Biochemistry and Molecular Biology at OHSU, School of Medicine, is committed to a period of significant expansion. We are recruiting tenure track faculty at all levels, although our emphasis is on junior colleagues. We wish to recruit outstanding young scientists studying problems of central interest to biochemists and molecular biologists.

We will offer attractive start-up packages, competitive salaries, and the opportunity to participate in the growth and development of a dynamic and interactive department in a highly desirable location. Faculty will be expected to establish competitive research programs and assist in graduate and medical school teaching. Applicants at the Assistant Professor level should have a Ph.D. with several years of postdoctoral experience. Applications should be received by September 30, 1996.

Interested applicants should send a copy of their curriculum vitae, a description of their research plans and interests, and the names of three references to:

Professor Jack H. Kaplan, F.R.S.
Faculty Search
Department of Biochemistry and Molecular Biology
Oregon Health Sciences University
3181 S.W. Sam Jackson Park Road, L224
Portland, OR 97201-3098

OHSU is an Affirmative Action/Equal Opportunity Employer.
Public Announcement Regarding a New Research and Development Project on “Technology for Novel High-Functional Materials”

Announced by the New Energy and Industrial Technology Development Organization on August 16, 1996

In order to promote the research and development of industrial technology, the New Energy and Industrial Technology Development Organization (NEDO), under the Industrial Science and Technology Frontier Program of Ministry of International Trade and Industry’s Agency of Industrial Science and Technology, will entrust each of the following research themes for the “Technology for Novel High Functional Materials” project. Therefore, we would like to announce that all interested companies and research organizations can apply to participate in this entrusted project in compliance with the description below.

Themes of the Research and Development Project
“Advanced Stimuli Responsive Materials;” “Precision Catalytic Polymerization;” “Polymer Structure Control;” “Multi-dimensional Polymer Structures.”

Outline of the Research and Development Work to be Entrusted
The purpose of the research and development of “Advanced Stimuli Responsive Materials” is to achieve the expression of stimuli responsive type separation/release/motion functions and to refine them, and to realize synthesis and organization of a polymer, which continuously changes its shape/properties according to changes in the condition of a molecular aggregate depending on a stimulus, and hybridization of stimuli responsive polymers and different types of materials. As for “Precision Catalytic Polymerization,” the goal is to develop polymerization catalysts and innovative precise addition polymerization that accurately controls the primary structure of molecular weight, stereoregularity, copolymerization, terminal structure, etc. The objective of the research and development of “Polymer Structure Control” is to develop precise structure-controlled polymer synthesis technology by controlling condensation and ring-opening reactions at the atomic/molecular level. The objective of the research and development of “Multi-dimensional Polymer Structures” is to generate precise synthesis technology using enzymatic catalysts and chemical synthesis technology for producing polymers with non-covalent bond linkages and new topological structures.

Procedures for Application
(1) Qualification Criteria
All companies or research organizations who meet the following qualification criteria may submit applications to participate in the above project.
1. The applicant must be a company or organization having human resources who are experienced and well-qualified to carry out the research and development in the field covered by or related to the project.
2. The applicant must be in sound financial condition and have the ability to manage finances as necessary to fully carry out the project work.
3. The applicant must be able to comply with NEDO’s instructions, if such are necessary, to fully carry out the project work.
4. The applicant must have attended the explanatory meeting held by NEDO as set forth in item (2) below or been represented at the meeting by a responsible agent or representative who is capable of accurately conveying the contents of the meeting in detail.

(2) Explanatory Meeting
An explanatory meeting will be held on the date shown below in order for NEDO to fully explain the details of the project research and development work to be entrusted and the application documents to be submitted. All companies or research organizations who are interested in submitting an application to participate in the project are required to attend this meeting or to send an agent or representative to attend on their behalf. Japanese will be the only language used during the meeting.

Date: Thursday, August 22, 1996
Time: 11:00-12:00
Place: NEDO’s Head Office, Meeting Room 360
31st Floor, Sunshine 60 Building
1-1, Higashi-Ikebukuro 3-chome
Toshima-ku, Tokyo 170

(3) Further Information
For further information regarding the research and development work to be entrusted under the above project, please contact NEDO by telefax as follows:

New Energy and Industrial Technology Development Organization
Contract Division, Accounting Department
28th Floor, Sunshine 60 Building
1-1, Higashi-Ikebukuro 3-chome
Toshima-ku, Tokyo 170
Telefax: +81-3-5992-1184
The University of Texas-Houston Health Science Center, Dental Branch announces the reopening of the search for a CHAIRPERSON for the Department of Basic Sciences at the level of professor. The department currently has 35 faculty members and encompases gross anatomy, histology, neurosciences, genetics, biological chemistry, immunology, microbiology, physiology, behavioral sciences, and oral biotematology. Desired credentials include a Ph.D. or equivalent, demonstrated administrative and teaching experience, current funded research, and the ability to develop students. The selected candidate will assume a leadership role in the integration of basic and clinical teaching and research.

The UTHSC is located in the Texas Medical Center and comprises the School of Dental Medicine, School of Nursing, School of Public Health, Graduate School of Biomedical Sciences, and School of Allied Health. There are excellent opportunities for collaborative research, teaching, and student research training. The UTHSC is an Equal Opportunity/Affirmative Action Employer. Women and underrepresented minorities are encouraged to apply. Additional information about the Dental Branch is available at our WWW site: http://www.db.uth.tmc.edu. Interested persons should send a letter of application, curriculum vitae, and names of four references by November 1, 1996, to:

Dr. Karen A. Storhøi
Associate Dean for Research
University of Texas-Houston Health Science Center
Dental Branch
6516 John Freeman Avenue Room 4.109
Houston, TX 77030
Email: kstorhoi@bte.db.uth.tmc.edu.

FACULTY POSITION
Division of Basic Sciences
Fred Hutchinson Cancer Research Center
The Division of Basic Sciences of the Fred Hutchinson Cancer Research Center (FHCRC) is soliciting applications to fill an open faculty position at the JUNIOR FACULTY level. Applicants with outstanding accomplishments in any field of molecular, cellular, and/or developmental biology will be considered. Candidates should send a curriculum vitae, a concise statement of their research plans, and three letters of reference to:

Faculty Search Committee
Fred Hutchinson Cancer Research Center
Division of Basic Sciences
Mailstop B1-530
1124 Columbia Street
Seattle, WA 98104
Application deadline: October 31, 1996. FH CRC is an Equal Opportunity Employer committed to diversity.

Chemistry Department, University of Utah. Applications are invited for a tenure-track FACULTY POSITION in the area of inorganic chemistry. Candidates must have the background, ability, and motivation to establish vigorous and active contemporary research programs and to excel as educators. The appointment is anticipated to be filled at the junior level, but senior candidates will be considered. A Ph.D. is required, and postdoctoral experience is desirable. Applicants should have three letters of recommendation sent directly to the search committee. Initial correspondence should include a detailed curriculum vitae and a statement of your research plans. Reply to: Inorganic Search Committee, Department of Chemistry, 2040 Henry Eyring Building, University of Utah, Salt Lake City, UT 84112. Deadline for receipt is October 14, 1996, or until a suitable candidate is identified. The University of Utah is an Affirmative Action/Equal Opportunity Employer, encourages applications from women and minorities, and makes reasonable accommodation to known disabilities of applicants and employees.

The Department of Biology, University of Puerto Rico, Rio Piedras invites applications for a tenure-track position at the ASSISTANT PROFESSOR level. The candidate is expected to develop an active research program in plant molecular biology. Systematic integration of genetics and molecular biology at the biochemical, molecular, and cellular levels is expected. A Ph.D. is required. The appointment is for a period of five years, subject to renewal. Interested persons should send summary of research activities, teaching experience, and names of three references to: Dean, College of Arts and Sciences, Universidad de Puerto Rico, P.O. Box 23360, San Juan, PR 00931-3360. University of Puerto Rico is an Affirmative Action/Equal Opportunity Employer.

CENTRE FOR STRUCTURAL BIOLOGY
STATE UNIVERSITY OF NEW YORK
Dentistry at Buffalo X-Ray Crystallographer
As part of a multidisciplinary initiative in Structural Biology, a tenure position is available at the ASSOCIATE OR PROFESSOR level for a structural biologist with a strong experience in the development of x-ray protein crystallography. The individual should have expertise in determining high-resolution x-ray crystallographic structures. Application is encouraged to join a team already engaged in the development of x-ray crystallographic methodology.

The University of Georgia College of Agricultural and Environmental Sciences seeks applicants for the HEAD OF THE DEPARTMENT of Entomology. A Ph.D. in Entomology or related field as well as demonstrated excellence in research, teaching, and service is required. Candidates should send a curriculum vitae, a concise statement of their research plans, and three letters of reference to:

Stephen Wachtel, Ph.D.
Department of Entomology
University of Georgia
852 Jefferson Avenue
Memphis, TN 38103
ASSISTANT PROFESSOR
BIOCHEMISTRY
Applications are invited for a tenure-track faculty position at the ASSISTANT PROFESSOR level in the Department of Chemistry and Biochemistry at Utah State University. The successful candidate will be expected to develop a strong research program in molecular biology. Applicants with strong demonstrated experience in the development of x-ray crystallography methodology, and three letters of recommendation should send their application to: Biochemistry Search Committee, Department of Chemistry, 4000 South State Street, Logan, UT 84322-0300. Review of completed applications will begin 15 October 1996 and will continue until the position is filled. Logan is located in the scenic Cache Valley and is surrounded by magnificent mountains and natural beauty.

ASSOCIATE PROFESSOR/PROFESSOR
Stanford University School of Medicine
The Division of Otolaryngology-Head and Neck Surgery invites applications for a Ph.D. or M.D. director of the Lern Soo Lim Molecular Biology Laboratory at the ASSOCIATE PROFESSOR or PROFESSOR level. The individual will direct and conduct independent research in pathogenesis of head and neck diseases. Opportunity exists for collaborative, interdisciplinary research with other investigators at Stanford University Medical Center. Qualifications include the Ph.D., or M.D., or equivalent degree; completed postdoctoral fellowship in molecular biology, genetics, tumor immunology, or cancer biology; advanced training with evidence of productivity in research; and a commitment to teaching. Candidates should submit a letter of application, curriculum vitae, and three letters of recommendation to:

W. Lee, M.D.
Department of Surgery
Stanford University Medical Center
450 C Street
Stanford, CA 94305

Equity is committed to increasing representation of women and minority groups on its faculty and particularly encourages applications from such candidates.

FACULTY POSITION
MOLECULAR PHARMACOLOGY
The Department of Pharmacology, University of Missouri–Columbia, invites applications for a tenure-track position at the ASSISTANT or ASSOCIATE PROFESSOR level, focusing on the application of molecular biology and genetics to study problems in pharmacology. Research areas of interest include but are not limited to: structure, function and regulation of receptors, membrane transport proteins, and ion channels; molecular mechanisms of neurotransmission, neuromodulation, and neuroplasticity; and neurotransmitters and growth factors. Successful candidates are expected not only to have a strong record of research accomplishment but also to have the potential to participate in the teaching of medical and graduate students. Please send curriculum vitae, a brief description of research plans, and the names of three references to: Dr. Hyun Dju Kim, Professor and Chair, Department of Pharmacology and Molecular Biology, University of Missouri–Columbia, School of Medicine, MS17B Medical Sciences Building, Columbia, MO 65212. An Equal Opportunity/Affirmative Action Employer.
NIH Has A New Address.

The National Institutes of Health has introduced a new website. Now, the latest news about clinical and research training opportunities at NIH can be accessed by visiting us at http://helix.nih.gov:8001/oe/

At the site, you can quickly obtain information regarding clinical and postdoctoral training. Review the NIH tenure-track openings. Take a look at the NIH Postdoctoral Research Fellowship Opportunities Catalog which chronicles research being conducted in all NIH laboratories. You can even apply electronically for positions.

All from the convenience of your keyboard.

Plus, the website links to all NIH institute and laboratory home pages, provides a calendar of events, and offers links to many other areas.

We used to ask you to call us or send your curriculum vitae. Now, the best way to find out about world class opportunities at NIH is through the world wide web.

National Institutes Of Health
Office Of Education
http://helix.nih.gov:8001/oe/
The NIH is an Equal Opportunity Employer

RESEARCH ASSOCIATE

- The Environmental Science Program at the University of Massachusetts Boston seeks applicants for a Research Associate position in Organic Geochemistry. Candidates should have an interest in both applied and basic research concerning the fate, transport, and transformation of organic compounds in coastal ocean environments. Will be responsible for operation of the Gas Chromatography-Mass Spectrometry analytical facilities and occasional assistance in maintenance of other major analytical instruments. Development of a collaborative research program with other Program and Departmental faculty having an interest in environmental research.

Qualifications: Ph.D. post-doctoral experience preferred; or a M.S. with extensive experience. Individual will supplement the base salary via grant/contract funds. Application review will begin on September 15, 1996, and continue until the position is filled. Please send your resume, research experience and interests, and the names of at least three references to: Chair, Organic Geochemist Search Committee, Environmental Science Program, University of Massachusetts Boston, 100 Morrissey Blvd., Boston, MA 02125-3393. An Affirmative Action, Equal Opportunity, Title IX employer.

CHEMISTRY

RESEARCH ASSOCIATE

Good Science begins
with good people!

At Pfizer we recognize that scientists are the driving force behind our success as a leading developer of novel drug therapies and life-enhancing health care products. Our state-of-the-art research facilities and continuing investments in R&D make it a place to support individuals who are working hard to make a difference. Continued growth has created opportunities for:

BS/MS SCIENTISTS

Medicinal Chemistry

We seek knowledgeable scientists with experience in synthetic organic chemistry and strong theoretical and laboratory background. These positions require a BS or MS in a relevant field, and effective oral and written communication skills.

Pfizer Scientists have the opportunity to interact with members of the world's finest scientific communities, enjoy a competitive salary, medical/dental coverage and the many lifestyle advantages of our southeastern Connecticut location. For confidential consideration, please send your curriculum vitae for electronic scanning (i.e., eliminate italics, bullets, bolds, underlines and staples), college transcripts and three references, indicating Ad# 1159 to: Employee Resources, Pfizer Inc, Central Research Division, Eastern Point Road, Groton, CT 06340.

U Mass Boston

We are an equal opportunity employer M/F/D/V.
ASSISTANT OR ASSOCIATE PROFESSOR
ENVIRONMENTAL PHYSIOLOGY

A TENURE-TRACK position is available for an environmental physiologist studying physiological responses of animals to environmental changes. Preference will be given to those addressing evolutionary questions and inclusion of model field components. Teaching responsibilities will include undergraduate cell/systems physiology at introductory and graduate levels and a graduate course in an area of specialization. Qualifications include a Ph.D. in an area of relevant biological science, with demonstrated training and publications in environmental physiology, postdoctoral experience is preferred. The successful candidate will be expected to maintain a funded research program. Salary and start date will be at the assistant professor level, with research start date beginning on October 14, 1996. Applicants should indicate whether they wish to be considered at the assistant or associate professor level. Send letter of application, curriculum vitae, and three letters of recommendation to: Barbara D. Doss, Chair, Environmental Physiologist Search Committee, Department of Zoology, Washington State University, Pullman, WA 99164-4236. FAX: 509-335-3184.

Washington State University is an Equal Opportunity/Affirmative Action Educator and Employer. Members of protected groups are encouraged to apply.

Tenure-track position at the ASSISTANT PROFESSOR level, available July 1, 1997, as part of a Departmental growth program. Applicants should have a Ph.D. and/or M.D., relevant postdoctoral experience, a strong research background, and be using state-of-the-art methods to define molecular mechanisms that regulate cell functions. Outstanding candidates would be expected to complement current Departmental teaching and research programs in the areas of cardiovascular pharmacology, receptor pharmacology, neuropharmacology, signal transduction, and regulation of cell growth will be considered. To ensure full consideration, applications must be received by September 30, 1996. Applicants should send a curriculum vitae, along with a summary of research interests and goals, and a letter indicating the names of three references to: Faculty Search Committee, Department of Pharmacology, University of Wisconsin Medical School, 1300 University Avenue, Madison, WI 53792-7388. The University of Wisconsin is an Equal Opportunity/Affirmative Action Employer.

California Institute of Technology invites applications for a tenure-track position as ASSISTANT PROFESSOR in the field of inorganic chemistry. The initial appointment will be for four years. Outstanding individuals with a Ph.D. and a strong commitment to research and teaching excellence are encouraged to apply. Applicants are expected to submit a curriculum vitae, publication list, a description of proposed research, and three letters of recommendation to: Professor J. Barton Smith, Optical Chemistry Search Committee, California Institute of Technology, Pasadena, CA 91125. Applications should be received by November 15, 1996. The California Institute of Technology is an Equal Opportunity/Affirmative Action Employer. Women, minorities, veterans, and disabled persons are encouraged to apply.

POSITIONS OPEN

ASSISTANT/ASSOCIATE PROFESSOR
DIRECTOR OF THE LABORATORIES

The Section of General Surgery at the University of Chicago invites applications for a faculty position at the ASSISTANT/ASSOCIATE PROFESSOR level to serve as Director of the Laboratories. We are seeking an independent investigator able to conduct and direct high quality basic science research in molecular oncology of gastrointestinal malignancies. Qualifications include a Ph.D. degree and completion of a relevant postdoctoral fellowship. The candidate should have evidence of productivity in research with publications in peer-reviewed journals and current independent research funding. Responsibilities include independent basic science research; development of translational strategies; participation in the management of the clinical programs of the Section of General Surgery; and the overall direction of the research programs of the Section. Please send inquiries and curriculum vitae to: David G. Proctor, Chair, Department of Surgery, University of Chicago, Section of General Surgery, 5841 South Maryland Avenue, MC 5094, Chicago, IL 60637. The University of Chicago and its Medical Center are Affirmative Action/Equal Opportunity Employers. Women and minority group members are encouraged to apply.

UNIVERSITY OF SOUTH CAROLINA
Molecular, Cell, and Developmental Biology

The Department of Biological Sciences at the University of South Carolina invites applications for a tenure-track faculty position at the level of ASSISTANT PROFESSOR. Candidates should have a Ph.D. in molecular, cell, and developmental biology, although individuals with expertise in signal transduction are particularly encouraged to apply. The University maintains a wide range of research areas that are amenable to all faculty. These include, among others, facilities for oligonucleotide synthesis, monoclonal antibody production, transgenic mice, automated DNA sequencing, light and electron microscope electron microscopic. The Search Committee will begin reviewing applications on October 15, 1996. Interested individuals should send updated curriculum vitae, a description of research interests, three letters of recommendation to: Dr. Vicki Bowman Vance, Search Committee Chair, Department of Biological Sciences, University of South Carolina, Columbia, SC 29808. An Equal Opportunity/Affirmative Action Employer.

The Department of Biochemistry at the University of Texas Health Science Center at San Antonio invites applications for two twelve-month, state-funded, tenure-track faculty positions at the ASSISTANT or ASSOCIATE PROFESSOR level. Candidates with research experience in one of the areas of biochemistry described below will be considered. Special consideration will be given to candidates with research interests in the following areas: 1) Biochemistry/Cell Biology—complex lipids, intracellular targeting, protein folding, protein disorders, cell biology; 2) Macromolecular Structure—high resolution structural (x-ray crystallography, NMR) and the dynamics of macromolecules. Applicants should send a curriculum vitae, a brief research prospectus, and the names of three references to: Faculty Search Committee, Department of Biochemistry, The University of Texas Health Science Center at San Antonio, 2703 Floyd Curl Drive, San Antonio, TX 78284-7760. For information about the Department of Biochemistry, see http://bio02.uthscsa.edu/biochem.html. The deadline for applications is October 1, 1996. An Affirmative Action/Equal Opportunity Employer.

ASSISTANT PROFESSOR of Nutrition: 12-month research/teaching appointment (75/25); tenure-track. Earned doctorate in nutrition or closely related discipline with research focus and advanced training in nutrition required. The successful candidate will be expected to establish an independent basic research program in stem cell biology and must be qualified to serve as Assistant Director of the Cell Biology Co-Directed Cell Biology Laboratories. Must be Board-certified in Clinical Pathology with expertise in transfusion medicine. Preference will be given to candidates with research experience in isolation and manipulation of hematopoietic stem cells and molecular biology. Candidate should send a curriculum vitae, a brief description of research interests, and three letters of recommendation by October 1, 1996. All applicants must be Board-certified, M.D., Department of Laboratory Medicine, Yale University School of Medicine, 333 Cedar Street, P.O. Box 208035, New Haven, CT 06520-8035. Yale University is an Affirmative Action/Equal Opportunity Employer. Women and minority group members are encouraged to apply.

CLINICAL PATHOLOGIST

The Department of Laboratory Medicine at Yale University School of Medicine is seeking applicants for a faculty position at the rank of ASSOCIATE PROFESSOR to join the Clinical Pathology Laboratories. The successful candidate will be expected to establish an independent basic research program in stem cell biology and must be qualified to serve as Assistant Director of the Cell Biology Co-Directed Cell Biology Laboratories. Must be Board-certified in Clinical Pathology with expertise in transfusion medicine. Preference will be given to candidates with research experience in isolation and manipulation of hematopoietic stem cells and molecular biology. Candidate should send a curriculum vitae, a brief description of research interests, and three letters of recommendation by October 1, 1996.
## RESEARCH SCIENTISTS

### Process Development Scientist

The Optimization and Process Development organization is searching for scientists to work as members of interdisciplinary project teams to develop commercial processes for new crop protection chemicals. This will include laboratory investigations of chemical processes on a fundamental level, optimization and scale-up of those processes to a semi-commercial and full commercial production. Technical support of existing products to improve efficiency and ensure quality is another important aspect of the job.

Minimum requirements include a Ph.D. in organic chemistry with 5-10 years of experience in process development. A strong knowledge of heterocyclic synthesis preferred. Familiarity with a wide variety of analytical techniques such as NMR, IR, MS, UV, HPLC, and GC is required. Experience in pilot-scale operation and direct manufacturing support are highly desirable within a diverse technical organization. Excellent communication skills and an ability to work successfully in team environments within a diverse technical organization are essential.

Qualified applicants should send a resume with references by September 27, 1996, to:

**DuPont Human Resources**

**Agricultural Products SCI-1**

**Experimental Station**

**Building 402, Room 3206**

**Wilmington, DE 19880**

### Formulation Scientist

Agricultural Products is seeking exceptional formulation scientists to conduct laboratory research. The successful candidate will design and optimize finished product compositions for new crop protection chemicals to meet customer, regulatory and commercial manufacturing requirements. Work will extend from laboratory development and optimization to scale-up of these products and, ultimately, to support of commercial manufacture. Technical support for existing products to improve productivity and ensure quality is another important aspect of the job.

Minimum requirements include a Ph.D. in chemistry or engineering and 5-10 years of experience in formulation development. Experience in solid formulations, especially extrusion, and sophisticated liquid formulations is preferred as is experience in the direct support of manufacturing. Excellent communication skills and the ability to work effectively in team environments within a diverse technical organization are essential.

Qualified applicants should send a resume with references by September 27, 1996, to:

**DuPont Human Resources**

**Agricultural Products SCI-2**

**Experimental Station**

**Building 402, Room 3206**

**Wilmington, DE 19880**

### Research Chemist

The Chemical Discovery Section is searching for a chemist with a strong background in synthetic organic chemistry to join an interdisciplinary team composed of chemists, biologists and biochemists whose objective is to discover new products for crop protection.

Minimum requirements for the position include a Ph.D. in organic chemistry with strong synthetic skills. A background in heterocyclic chemistry and/or phosphorus chemistry is desirable. Candidates should also have very good interpersonal skills, excellent skill in written and oral communication, and strong computer skills.

Qualified applicants should send a resume with references by September 27, 1996, to:

**DuPont Human Resources**

**Agricultural Products SCI-3**

**P.O. Box 30**

**Newark, DE 19714**

### Organic Chemist

The Chemical Discovery and Optimization Section is searching for organic chemists to conduct multifaceted synthetic organic reactions under the guidance of a Ph.D. chemist. Responsibilities include set up of reaction apparatus, combination of reagents and solvents, monitoring reactions, work-up, separation, purification (recrystallization, distillation, chromatography) and analysis (NMR, IR, melting point). Other tasks include overseeing the maintenance/organization of the lab, notebook record keeping and computer database searching.

Minimum requirements for the position include a B.S. in chemistry or equivalent work experience in an organic laboratory. Knowledge of basic organic reactions, understanding of chemical nomenclature, ability to perform fundamental chemical calculations, familiarity with fundamental chemical principles, and familiarity with analytical tools of the trade, especially NMR spectroscopy.

Qualified applicants should send a resume with references by September 27, 1996, to:

**DuPont Human Resources**

**Agricultural Products SCI-4**

**P.O. Box 30**

**Newark, DE 19714**

*An Equal Opportunity Employer*
ASSISTANT PROFESSOR, Biochemistry. California State University, Long Beach invites applications for a tenure-track position commencing August 1996. Applicants must have a Ph.D. in biochemistry or a closely related area with a strong background in chemistry and a demonstrated potential for effective teaching and for developing an externally-funded research program involving undergraduate and/or master’s students. Post-doctoral experience preferred. To apply, submit a letter of application, a curriculum vitae, a statement of teaching interests, and have official transcripts from undergraduate and graduate institutions and three letters of recommendation sent to: Dr. Nancy A. Hallinan, Chair, Department of Chemistry and Biochemistry, California State University, Long Beach, 1250 Bellflower Boulevard, Long Beach, CA 90840-3903. FAX: 310-985-5965. California State University is an Equal Opportunity/Affirmative Action/Title IX Employer. 

IOWA STATE UNIVERSITY BIOTECHNOLOGY INDUSTRIAL ALLIANCE

A position is available for a liaison between Iowa State University and the biotechnology industry. The individual will develop university/industry research agreements; assist industry in accessing the university research, business, and educational strengths; and collaborate in economic development organizations to foster business development in Iowa. Minimum requirements: M.S. or Ph.D. in a molecular biology-related discipline. Three years of post-doctoral experience and successful development and management of biotechnology business projects are required. Excellent written and verbal communication skills in English, and positive interpersonal skills are essential. Send resume and names of three references to: Dr. Mary Lou Kinnaird, Office of Biotechnology, 1210 Molecular Biology Building, Iowa State University, Ames, IA 50011-3260. Telephone: 515-294-6866; FAX: 515-294-4269; Email: mfk@iastate.edu. Iowa State is an Equal Opportunity/Affirmative Action Employer. 

PRINCIPAL RESEARCH SCIENTIST—Water- 

Shed Management. Develop multidisciplinary research programs (Great Lakes and coastal habitats). Preference to those able to integrate questions at ecosystem level and work with existing Center strengths in aquatic ecology, fisheries, GIS, toxicology, earth sciences, hydrology, planning, Ph.D. watershed management, applied limnology, those related field required. Must demonstrate ability to obtain external funding, scientific achievement and aptitude, potential for conducting research in the Great Lakes including working with fisheries management agencies, and the ability and willingness to offer supervision to graduate students in the discipline to complement current programs and facilities and administrative skills. Initial three year appointment/ 

potential for renewal. Curriculum vitae, names of three references, and letter of application, are due by September 15, 1996 to: Dr. Jules Sutex, SUNY College at Buffalo, 1300 Elmwood Avenue, Buffalo, NY 14222. Closing date: September 15, 1996. Affirmative Action/Equal Opportunity Employer. 

The National Institute of Neurological Disorders and Stroke (NINDS), Stroke Branch, SB (SBP) has an immediate opening for a 2-year FELLOWSHIP to study the role of cytokines and leukocytes in the initiation and progression of stroke, using both rodent models and samples from ongoing human clinical trials. Advances in our labs are using both rodent and clinical trial sets in culture studies, and acute stroke management. Candidates must be U.S. citizens or permanent residents and have a Ph.D. in a relevant area, such as neuroscience, immunology, and molecular biology. The SBP has an immediate opening for a Ph.D. candidate interested in collecting blood from subjects for DNA analysis, and subsequent genetic counseling (travel required). The applicant should have an M.S. degree in genetic counseling and one to two years of related experience. Send curriculum vitae and names of three references to: Dr. Lynda Shapiro, OIBM, P.O. Box 5389, University of Oregon, Charloeson, OR 97420. The University of Oregon is an Affirmative Action/Equal Opportunity Employer committed to cultural diversity and compliance with ADA. 

POSTDOCTORAL FELLOWSHIP PROGRAM Molecular Host Defense

Positions available immediately to study antimicrobial properties of mammalian phagocytes and epithelia with the direction of Prof. Robert Lehrer and Toamas Ganz. Experience is required in one or more of the following: a) peptide chemistry, b) microbial genetics, c) biochemistry, d) cell biology of phagocytes or epithelia. Send curriculum vitae and names of three references to: Molecular Host Defense Laboratories, 37-055 CHS, UCLA School of Medicine, Los Angeles, CA 90095. FAX: 310-266-8766. Equal Opportunity Employer. 

POSTDOCTORAL STUDIES available immediately to work on immunology, and new aspects of chemotherapy with the direction of Prof. Bhattacharya. Send curriculum vitae and names of three references to: Molecular Host Defense Laboratories, 37-055 CHS, UCLA School of Medicine, Los Angeles, CA 90095. FAX: 310-266-8766. Equal Opportunity Employer.
Our agricultural products are redefining biotechnology's limits on a daily basis.

We're Ceregen.

As a subsidiary of the Fortune 100 Monsanto Company, Ceregen is a world leader in the discovery and development of agricultural products based on advanced chemistry and biotechnology. And our professionals are playing a key role in their on-going development and support — and in our future.

Plant Molecular Biologist

This individual will join an exciting and successful Regulatory Science team within a world-class plant biotechnology organization that has recently marked a number of genetically engineered plant products. While working with a mini-team of molecular biologists responsible for a variety of genetically engineered crop plants, you will provide technical leadership in defining the molecular structure of DNA introduced into plants, particularly monocot plants transformed by particle gun bombardment.

We require a BA/BS or MS in Molecular Biology along with extensive experience - preferably characterizing DNA integrated into genetically engineered plants or genomic mapping using Southern blots and PCR. The ability to identify and integrate new, relevant technologies into the Regulatory Science Molecular biology function is desired. Excellent communication skills, PC literacy, and proven leadership skills are essential.

Not only are we committed to advancing our company, we’re also committed to advancing the skills of our professionals. And as just one of the many Monsanto Business Units, we can offer you exceptional growth potential! For consideration, please send your curriculum vitae with references and a brief letter of professional goals, in Microsoft Word 6.0, to: Monsanto Company, Job # PMB, 700 Chesterfield Parkway North, Mail Zone GG4J, St. Louis, MO 63168. Fax: 314/537-5667. E-mail: rmeade@ccmail.monsanto.com. To be considered, resumes must be received by September 9th. An Equal Opportunity Employer M/F/D/V.

CEREGEN

Monsanto

DIRECTOR, LINUS PAULING INSTITUTE
OREGON STATE UNIVERSITY

The Linus Pauling Institute of Science and Medicine, located in Palo Alto, California, will soon be dissolved and the Linus Pauling Institute (LPI) will be established in Corvallis, Oregon, at Oregon State University. The mission of the Linus Pauling Institute at Oregon State University is to develop a research program dedicated to elucidation of the roles of micronutrients, phytochemicals, and microconstituents of food in human health.

Oregon State University invites nominations and applications for the position of Director, Linus Pauling Institute. The Director will hold an endowed chair at Oregon State University. This is a 12-month, 1.0 FTE appointment at the rank of Professor with a 9-month tenure commitment in a department appropriate to the individual's background. Salary range will be commensurate with experience and qualifications. The Director is expected to maintain an active research program in a human health related area that complements the mission of the Linus Pauling Institute. The Director will provide leadership for the Institute and will work closely with development personnel to acquire funding for the Institute. A doctorate degree in a human health related area is required.

We are seeking an individual who has a highly recognized, established research program and a record of successful experience in obtaining funding for research in a human health related area. A record of successful interaction with groups and with other scientists is essential.

Nominations should include name and address of the nominee and a letter addressing the qualifications of the individual. Applicants should submit a letter of interest and a resume along with names, addresses, and phone numbers.

Four references to:

Richard A. Scanlan, Dean of Research
Oregon State University
312 Kerr Administration Building
Corvallis, OR 97331-2140
email: harriso@ccmail.orst.edu

References will not be contacted without prior approval of the applicant. Nominations are due September 10, 1996. For full consideration, apply by October 1, 1996; position shall remain open until filled. Position is available January 1, 1997. OSU is an AA/EOE employer and has a policy of being responsive to dual-career needs.

ADVANCING HEALTHCARE PRODUCTS AND SERVICES WORLDWIDE

DIRECTOR, LINUS PAULING INSTITUTE
OREGON STATE UNIVERSITY

Gliatech Inc., a rapidly growing healthcare company dedicated to the development of drugs to treat disorders of the nervous system, is seeking a motivated scientist to contribute to its ongoing exploratory research programs. The qualified candidate will have a Ph.D. in the biological sciences with at least two years of postdoctoral training. The position requires past research experience in protein biochemistry or enzymology, and demonstrated expertise with molecular biology methodologies, including the generation and characterization of stably transfected cell lines and the analysis of gene expression.

Along with an exciting and challenging work environment, Gliatech offers a competitive compensation and benefits package, including a 401(k) plan, health, dental and life insurances, and exceptional growth potential. For consideration, send a resume with the names of at least three references to:

Gliatech
23420 Commerce Park Road
Beachwood, OH 44122
DEVELOPMENTAL BIOLOGY
UNIVERSITY OF MICHIGAN

The Department of Biology at the University of Michigan solicits applications for a faculty position. Applications at all levels will be considered. We seek individuals who use molecular and/or genetic approaches to analyze pattern and development. The successful candidate must have a Ph.D. in biology, genetics, or related field, and postdoctoral experience. The selected candidate will join an expanding group of cellular and molecular biologists interested in the development of C. elegans, Drosophila, zebrasfish, Xenopus, chick and Arabidopsis. In addition to establishing a successful research program, the candidate will be expected to participate in undergraduate and graduate teaching of the department. To apply, send a curriculum vitae, copies of reprints, briefs of present research and future research plans, and arrange to have three letters of reference sent directly to: October 1, 1996, to:

Chair, Developmental Biology Search Committee
Department of Biology
University of Michigan
Natl Sci. Research Building
Ann Arbor, MI 48109-1048

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

POSTDOCTORAL POSITIONS
NUCLEIC ACIDS NMR

Available immediately, as member of RNA research team, structure/designers and activity measurements; applicants should have macromolecular NMR experience. Our equipment includes: 500 MHz (three-channel, three-axis gradients) NMR, workstations, software for processing data and re-strained molecular models; position open for high level NMR and bioinformatics modeling. Competitive salary, commensurate with experience. Reply with detailed résumé, date available, experience/technical ability in NMR, and three letters of reference sent to: Dr. P.J. Fassler, Biochemistry, Box 7622, North Carolina State University, Raleigh, NC 27695-7622 U.S.A. Email: Agri@bscserver.bch.ncsu.edu.

A&PC is a rapidly expanding biotechnology company specializing in the development of biomaterials for treatment of cancer, AIDS, autoimmune diseases, and cancer. Applicants must be innovative, highly motivated individual(s) with a Ph.D. or M.D. degree. We offer an excellent salary, benefits, and opportunities for professional growth. Please send résumé to:failure/Scanliff FAX: 216-444-9170; Email: thé@acp.com.

POSTDOCTORAL POSITION
Mammalian Cell Cycle Control

A POSTDOCTORAL POSITION is available immediately to carry out basic research on human cell cycle regulation and the cellular response to DNA damage in a laboratory at the Texas Children's Cancer Center at Baylor College of Medicine in Texas Children's Hospital. Applicants should have experience in cell cycle control in mammalian cells and biochemical characterization of protein modifications. Please submit a curriculum vitae, description of research experience, and three letters of reference to: Dr. J. McLaughlin, M.D., University of Texas Health Science Center and Hematology Service, 6621 Fannin Street, Houston, TX 77030. Email: spalno@bcm.tmc.edu; FAX: 713-770-4202; Baylor College of Medicine is an Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL POSITION
GENE REGULATION

Position available to study the role of the transcriptional co-activator CBP in gene regulation and development (see Nature, 380: 642, 1996; Nature, 374: 85, 1995). Experience in biochemistry, molecular biology, or genetics desirable. Send curriculum vitae to: Dr. W. Chambon, Department of Cell Biology, Albert Einstein College of Medicine, Jack and Pearl Resnick Campus, 1300 Morris Park Avenue, Bronx, NY 10461. Email: Opportunity. Email: Opportunity.

POSTDOCTORAL POSITIONS
THREE POSTDOCTORAL POSITIONS

The following positions are available immediately: a) Investigations of the catalytic mechanism of procaryotic type I DNA topoisomerases. Experience with DNA topoisomerases, protein purification, and in vitro mutagenesis techniques is highly desirable; b) Investigations on the interaction of butyrate in fatty acid and polyketide biosynthesis in Streptomyces and an analysis of the machinery of type I topoisomerases. A background in microbial biochemistry with Streptomyces DNA is highly desired for these positions. Applicants should send a curriculum vitae and reference letters to: Dr. R. J. DiGate or: Dr. K. A. Reynolds, Department of Pharmaceutical Sciences, University of Maryland School of Pharmacy, 20 N. Pine Street, Baltimore, MD 21201.

POSTDOCTORAL POSITION
M. D. Anderson Cancer Center
Anticancer Drug Delivery/Tumor Targeting

Available immediately for NCI-funded projects to investigate the mechanisms of action and determinants of intra-tumor distribution of anticancer agents with different physicochemical properties. A Ph.D. or M.D. degree and background in experimental cancer therapy, tumor biology, or pharmacology is required for this position. Excellent salary, benefits, and opportunities for professional growth. Please send résumé and references to: Dr. R. D. Dyer, Department of Pharmacology, M.D. Anderson Cancer Center, 1515 Holcombe Boulevard, Houston, TX 77030. Equal Opportunity Employer.

POSTDOCTORAL POSITIONS
HARVARD MEDICAL SCHOOL
Hematopoietic Stem Cell Gene Regulation and Therapy

Two POSTDOCTORAL RESEARCH ASSOCIATE positions available immediately for Ph.D. to investigate stem cell gene regulation and the use of specific promoters in gene therapy and the use of adenovirus associated virus (AAV) vectors. Extensive experience in transcription factor research, stem cell biology, and/or AAV regulation required. Please send résumé and three references to: Dr. D. Tenen, Harvard Medical School, Room 954, 77 Avenue Louis Pasteur, Boston, MA 02115. FAX: 617-667-3299.

POSTDOCTORAL ASSOCIATE Position available to study the cell biology of HIV infection in T-cell lines, peripheral blood T-cells, and lymph node tissue, and to work on related projects including the role of synergy formation in the pathogenesis of AIDS. Requires Ph.D. in cell biology or related field. Experience in tissue culture techniques is highly desirable, and experience with cell and molecular biology and microscopy are desirable. Send curriculum vitae and names of three references to: Dr. D. R. Soll, Department of Biological Sciences, 138 Biology Building, University of Iowa, Iowa City, IA 52242-1324. The University of Iowa is an Equal Opportunity/Affirmative Action Employer. Women are encouraged to apply.

POSTDOCTORAL POSITION
study activation of phospholipases A 2 and D and their interrelationship in human neutrophils. Ph.D. with experience in cellular, molecular, or lipid biochemistry required. Experience with MAP kinase, Ras, or Rac desirable. Send curriculum vitae and names of three references to: Dr. P. M. H. Salloum, Department of Medicine, Pulmonary and Critical Care, Bowman Gray School of Medicine, Medical Center Boulevard, Winston-Salem, NC 27157. Affirmative Action/Affirmative Action Employer. Women are encouraged to apply.

POSTDOCTORAL POSITION
available to study regulation of ribosome biogenesis in S. cerevisiae. Experience with the molecular biology of yeast is essential. Please send curriculum vitae and names of three references to: Dr. R. L. Buhler, Department of Cell Biology, Albert Einstein College of Medicine, Jack and Pearl Resnick Campus, 1300 Morris Park Avenue, Bronx, NY 10461. Equal Opportunity Employer.

POSTDOCTORAL POSITION
available to study regulation of ion transporters and channels by PI3P. A strong background in signal transduction and biochemistry is required. Submit curriculum vitae and three references to: Dr. D. W. Hilgemann, University of Texas Southwestern Medical Center at Dallas, Dallas, TX 75235-9040. FAX: 214-698-8685. An Affirmative Action/Equal Opportunity Employer.
Chugai Biopharmaceuticals, Inc. (CBI) is seeking individuals to provide guidance and expertise to support our Drug Discovery efforts. Selected individuals will supervise and mentor direct reports and provide bench leadership in focused areas utilizing state-of-the-art biotechnological methods to discover and commercialize new drug entities.

**ANALYTICAL CHEMIST**

Requires Ph.D. in Analytical Chemistry. Chemistry or related discipline and 3+ years’ industrial experience, with pharmaceutical industry experience strongly preferred. Must be competent in all aspects of modern analytical instrumentation including HPLC, CE, MS, GS-MS, UV, FTIR, NMR, etc. Requires supervisory experience and demonstrated experience in cross-functional support roles. Must be detail oriented and possess excellent written and verbal communication skills. GMP experience, including document preparation and compliance preferred.

**STAFF CHEMIST**

Requires Ph.D. in Organic Chemistry, Medicinal Chemistry or related discipline and 6+ years’ post-doctoral experience. Experience in modern synthetic organic/medicinal chemistry and working knowledge of standard analytical methods (HPLC, CE, GC, MS, UV, FTIR, NMR) are essential. Must have supervisory experience. Two positions require demonstrated success in combinatorial chemistry including library production and lead optimization (peptidomimetics and/or small molecules). One position requires expertise in molecular modeling for drug discovery (MSI and/or Tripos software).

We offer a competitive salary and excellent benefits package. Interested candidates should forward C.V. and salary requirements to: Chugai Biopharmaceuticals, Inc., Attn: Human Resources, 8275 Nancy Ridge Drive, San Diego, CA 92121. CBI supports a drug-free workplace. We are an Equal Opportunity Employer.

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**FELLOWSHIPS AVAILABLE IN MICROBIAL STRUCTURAL BIOLOGY**

A group of the life sciences faculty at Penn State is pleased to announce the establishment of a National Science Foundation Research Training Grant whose goal is to foster innovative, interdisciplinary research and training at the interface between the chemistry/biochemistry and the physiology of diverse microbes. Novel aspects of the program include dual preceptors for graduate students; research teams that encompass undergraduate, graduate, and postdoctoral students; and extramural internships in a variety of professional environments.

Faculty participants: S.J. Benkovic; Enzyme Reaction Mechanisms; J.M. Bollinger; Assembly of Fe-S Clusters in Enzymes; J.E. Brenchley; Physiology of Psychrophiles; D.A. Bryant; Electron Transport Pathways in Photosynthetic Bacteria; G.K. Farber; Protein Crystallography; J.G. Ferry (Director); Physiology of Archaea; J.H. Golbeck; Spectroscopy of Electron Transport in Photosynthetic Bacteria; K.A. Johnson; Enzyme Reaction Mechanisms; J.T.J. LeCoute; NMR Spectroscopy of Proteins; C.R. Matthews; Protein Folding and Assembly; K.M. Merz; Computational Biochemistry

Fellowships for undergraduate, graduate, and postdoctoral students are available. Information and applications can be obtained from Yvonne Kladde (ylk102@psuvm.psu.edu), program secretary, NSF Research and Training Program, 108 Atwood Laboratory, The Pennsylvania State University, University Park, PA 16802. Penn State is an Affirmative Action/Equal Opportunity Employer. Women and minorities are encouraged to apply.

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**FACULTY POSITION BIOCHEMIST, MOLECULAR BIOLOGIST FOR AN ASSISTANT/ASSOCIATE PROFESSOR POSITION IN FORENSIC MOLECULAR BIOLOGY**

Scientists with a background in forensic science and molecular biology/biochemistry are urged to apply for an assistant/associate professor opening in the Chemistry Department’s Forensic Science program. A doctoral degree in chemistry, biochemistry, or molecular biology is preferred; a doctoral degree in an associated field will be considered. It is preferred that the candidate have two years of crime laboratory experience in molecular biology and crime laboratory operations to include classical biochemical and immunological procedures and case reporting and testifying. A candidate with molecular biology experience including RFLP analyses (with an awareness of radioactive and non-radioactive techniques) and PCR methods (including Polymarker and STR analyses), will be considered.

The ideal candidate is expected to establish a well-funded research program dealing with the problems encountered by crime laboratory scientists. The faculty member will be responsible for developing the newly initiated Forensic Molecular Biology track in the Forensic Science curriculum. This will include recruitment and counseling of students, design and implementation of new courses in Forensic Molecular Biology, and working with professional organizations. Up to 25% of the faculty member’s time may be spent working in association with forensic professional organizations on a cooperative or contractual basis involving the development of training programs for current and new employees. The faculty member may have some teaching duties in undergraduate or graduate chemistry courses.

The University of Central Florida is a rapidly growing university with over 26,000 students in the expanding dynamic community of Orlando, Florida. Degree programs are offered at all levels. Applications and all support documents must be postmarked by September 30, 1996. Candidates should have three letters of recommendation sent to: Dr. Glenn Cunningham, Chair, Department of Chemistry, University of Central Florida, Orlando, FL 32816-2366. Review of candidates’ applications will begin immediately after the closing date and interviews are expected to begin in October. The candidate selected is expected to begin in January 1997. The University of Central Florida is an equal opportunity, affirmative action employer and women and minorities are encouraged to apply.
CUTTING EDGE SCIENCE

Genentech is a pace-setting biotechnology company that discovers, manufactures and markets human pharmaceuticals for significant unmet medical needs. Our product pipeline is the richest in the industry and we are the only biotech company with five marketed products. To continue our record of success, we are seeking the following professionals for our growing organization.

Scientist/Molecular Virologist
You will be responsible for characterizing retroviruses and other viruses, nucleotide analysis of proteins of interest, contributing to regulatory submissions and supervising a lab responsible for the molecular detection of viral and other infectious agents. To qualify, you must be a bench Scientist current in molecular virology literature and technology and possess a Ph.D. and 2+ years of post-doc experience utilizing molecular virological techniques such as nucleotide sequencing, PCR and nucleic acid synthesis. Additionally, you'll need the proven ability to effectively supervise lab personnel. Job Code: MCD02

Scientist, Cell Banking & Testing
You will work in a collaborative environment with a group responsible for cell banking/preservation and cell characterization. Your responsibilities will include freezing/thawing optimization for our current banks; developing high density growth conditions; developing cell concentration, large bank and large volume freeze down methods; and cryoprotectants evaluation. You will also perform cell age characterization for regulatory submissions, train cell banking and manufacturing personnel, and strive to improve our current protocols. You must possess a Ph.D. with at least 2 years' postdoctoral industrial experience and broad-based experience in cell culture and molecular biology as well as familiarity with cell genomics. Experience with GMP and regulatory filings is a plus. Job Code: MSMD

Scientist, Pharmacokinetics and Metabolism
You will head a lab group that focuses on isolation and analysis of active compounds and their metabolites from complex biological matrices. Typically, this position will be responsible for the planning and executing IND-enabling ADME studies of molecules in development (both proteins and small molecules). To qualify, you must have a Ph.D. in Biochemistry, Pharmacology or related discipline, 2+ years of post-doc experience; strong communication skills; the ability to collaborate successfully within interdisciplinary project teams; and a strong background in HPLC methods development and protein/glycoprotein analytical work. Mass spectrometry expertise and experience in small molecule metabolism work are also desirable. Job Code: MCMS

Join us and enjoy our exciting success and progressive benefit package that includes free health club membership, 3 weeks paid vacation, 6 weeks sabbatical after 6 years, fully paid medical/dental/vision coverage, and Company stock purchase opportunities for full-time employees. For consideration, send your resume indicating appropriate Job Code to Genentech, Inc., Human Resources Dept., 4500 Redwood Blvd., South San Francisco, CA 94080. If possible, please avoid bold, underline or italic type faces. You may also e-mail your resume indicating Job Code to jobs@gene.com (ASCII files only with a maximum line width of 76 characters). For more information about Genentech, visit http://www.gene.com. Genentech is an Equal Opportunity Employer. We value the contributions of our diverse workforce.

CORNING Bio

Leadership in Outsourced cGMP Manufacturing of Recombinant Proteins and Peptides
Corning Bio is a full service cGMP manufacturing organization that provides pharmaceutical and biotechnology companies with a world-class outsourcing alternative for production of recombinant proteins and peptides from phase I through commercial production. We are currently recruiting for the following key positions at our new facility in Research Triangle Park, North Carolina:

Director, Analytical Protein Chemistry
In this key position, you will establish an analytical protein chemistry capability at Corning Bio with responsibility for product characterization of proteins produced at Corning Bio's development and cGMP manufacturing facilities. You should have experience discussing protein characterization with the FDA in regard to the filing of IND's and PLAs as well as in developing an analytical package for a "well characterized protein" as defined by the FDA. Your analytical experience should include mass spectrometry, protein sequencing, peptide mapping, glycosylation analysis and other biochemical and biophysical protein analytical tools. Experience in transferring assays to a quality control group is also desired. A Ph.D. (or equivalent experience) in analytical protein chemistry along with eight plus years relevant experience is required. Leadership capability along with the ability to interact with manufacturing and quality groups is also required. (Job Code: SC-201)

Research Associate, Purification Development
In this position, you will be responsible for the development of processes for the manufacturing of biopharmaceuticals and the transfer of these processes to Corning Bio's cGMP manufacturing facility. M.S. (or equivalent experience) in biochemistry or protein chemistry is required. Two plus years of experience in protein purification and protein chemistry is also required along with knowledge in the areas of chromatographic methods, centrifugation and ultrafiltration techniques. Relevant cGMP experience will be considered a significant plus. (Job Code: SC-202)

Research Associate, Cell Culture and Fermentation Process Development
In this position, you will be responsible for the development of cell culture and fermentation processes for the manufacturing of biopharmaceuticals. You will also be involved with the development of these processes at Corning Bio's cGMP manufacturing facility. Relevant cell culture and/or fermentation experience along with knowledge in sterile technique is required. Experience in computer monitoring and control of bioreactors is a plus. You should have an M.S. (or equivalent experience) in cell biology or microbiology. (Job Code: SC-203)

Senior Process Development Engineer
In this key position, you will be responsible for engineering projects in support of process development and cGMP manufacturing. You should be knowledgeable in all aspects of bioprocessing unit operations including ultrafiltration systems, centrifugation, chromatography and fermentation/cell culture engineering. Experience in process control system hardware and software design is also required. You will develop unit operations at development scale and design and transfer them to operate at plant scale. M.S. or Ph.D. (or equivalent experience) in chemical or biochemical engineering is required. (Job Code: SC-204)

Manager, Quality Control, Protein Analytical Chemistry
In this key position you will be responsible for establishing an analytical chemistry capability within a quality control group supporting the manufacturing of biopharmaceuticals in Corning Bio's cGMP manufacturing plant. You should be knowledgeable in all aspects of operating a laboratory under GLPs, including assay validation and statistical controls. You will be involved in the transfer of existing quality control group and the validation of assays from process development, clients and the scientific literature. These assays will be used for in-process testing, lot release and stability testing. Additionally you will be responsible for establishing raw material testing protocols for the release of raw materials to manufacturing. M.S. or Ph.D. (or equivalent experience) in analytical protein chemistry is required. (Job Code: SC-205)

Please send resume with job code to: Corning Bio, Human Resources, P.O. Box 13865, Research Triangle Park, NC 27709-3865, Fax: (919) 648-9070. PRINCIPALS ONLY.
Corning Bio is an equal opportunity employer.
ASSOCIATE MOLECULAR BIOLOGIST

The scope of this position will cover gene cloning or expression and the biochemical purification of proteins. Other responsibilities include handling pathogenic microorganisms.

We're seeking a seasoned scientist with a BS or MS in Molecular Biology or Biochemistry and experience in gene cloning and DNA manipulation. We also require a background in bacteria handling, and some experience in protein purification.

With 50,000 employees worldwide and more than $10 billion in annual sales, we've established ourselves as a respected global business and innovative leader in the changing healthcare industry. For consideration, please send your resume with salary history to: Abbott Laboratories, Job #96-NCW-2012, DS83, APS1, 100 Abbott Park Rd., Abbott Park, IL 60064. Abbott is an Affirmative Action Employer/Smoke-Free Environment.

OAKLAND UNIVERSITY
BIOLOGICAL SCIENCES

Applications are invited for three tenure-track positions at the Assistant Professor level (one of which may be considered at Associate Professor level) starting August 15, 1997.

1. Biochemistry
2. Eukaryotic Genetics
3. Molecular Biology

Candidates must have a record of excellence in research using modern techniques of molecular biology and/or biochemical signaling with biomedical applications, and demonstrated potential for excellence in teaching. Start-up funds and laboratory space are available for establishing a vigorous research program. A Ph.D. and postdoctoral experience are required.

Oakland University is a state-supported institution situated on a 1,400-acre campus 25 miles north of Detroit. The Department of Biological Sciences is a well-equipped, research-oriented department in the College of Arts and Sciences. Successful applicants will be expected to develop and maintain an independently funded research program. Teaching responsibilities include a) an introductory biology course and a course in the candidate's specialty (biochemistry, genetics, microbiology, immunology, or parasitology) in alternate semesters, and b) participation in the departmental Master's degree program and an interdisciplinary doctoral program in biomedical sciences.

Applications will be reviewed for further consideration, including the interview process, by a search committee for each position. Applicants should identify the position of interest, submit curriculum vitae, a statement of research plans and teaching potential, key reprints, and names of three references before September 27, 1996, to:

Search Committee
Department of Biological Sciences
Oakland University
Rochester, MI 48309-4401

Oakland University is an Affirmative Action/Equal Opportunity Employer and encourages applications from women and minorities.

SCHOOL OF BIOLOGICAL SCIENCES
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MARINE BIOLOGY
(CONVERTIBLE)
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FACULTY OF
SCIENCE AND
ENGINEERING

REF 96131. The School of Biological Sciences wishes to appoint a lecturer with an interest in the biology/ecology or behaviour of marine organisms or communities. The appointee will join an interdisciplinary School, within which the existing Marine Biology group comprises a recently appointed Professor of Marine Biology and two other academic staff. The appointment of a further two academic staff to support marine aquaculture activities is also in progress. Current research activities within the group include: benthic community ecology; larval ecology and behaviour; marine microbiology and fish and fisheries biology.

Candidates with research interests which complement and extend the activities of the group are especially encouraged to apply. Appointees will have access to facilities in Adelaide and the new $2 million Lincoln Marine Science Centre in Port Lincoln. The position will be available from January 1997 for a period of three years initially, with the possibility of conversion to a continuing position.

The appointee will contribute to the development and teaching of Marine Biology within the undergraduate program; supervise graduate students (Honours, MSc and PhD); conduct research in an aspect of marine biology or ecology and participate in the research programmes of the School.

A PhD or equivalent and an aptitude for, and interest in, teaching undergraduates and supervising postgraduates is essential. Applicants should have demonstrated significant research ability and output. Appointment at Lecturer level is not normally made above $47,885 pa.

Further information and position documentation must be obtained from Associate Professor J Wheldrake, Head of the School of Biological Sciences, phone (618) 201 2229, fax (618) 201 3015 or email john.wheldrake@flinders.edu.au. Prospective applicants are also encouraged to discuss the position with Professor S Hall, phone (618) 201 2280, fax (618) 201 3015 or email stephen.hall@flinders.edu.au. Further information in relation to this position and the School of Biological Sciences can be obtained via the World Wide Web site http://www.bio.flinders.edu.au/80/

Applicants must address the selection criteria in the documentation. Applications, quoting the reference number, and giving qualifications, experience and the names, addresses and facsimile numbers of three referees of whom confidential enquiries may be made, should be lodged, in duplicate, with the Manager, Human Resources, Flinders University, GPO Box 2100, Adelaide SA 5001, or fax (618) 201 3131 by 4 October 1996.

The University reserves the right not to make an appointment or to invite applications.
The Biotechnology Laboratory at the University of British Columbia was established in 1987 to catalyze the interdisciplinary development of Biotechnology at UBC. The laboratory now comprises 13 independent faculty members with a strong record in attracting external funding. It includes an efficient administrative support system, excellent core facilities for molecular biology, a bioprocessing unit, and a teaching laboratory. The University is now searching for a distinguished scholar to serve as a new Director commencing July 1, 1997, or soon thereafter.

The candidate should be an internationally recognized scientist who will provide leadership, direction and vision to the Biotechnology Laboratory. The candidate will possess effective interpersonal and administrative skills and the ability to maintain strong, positive interactions with other academic units on campus and with the private biotechnology sector. The candidate should be willing to participate in fund-raising activities.

The new Director will lead the continued development of the Biotechnology Laboratory and will be provided with generous laboratory space, administrative support staff and facilities. The new Director will also hold an academic appointment in an appropriate Department.

UBC welcomes all qualified applicants, especially women, aboriginal people, visible minorities and persons with disabilities. In accordance with Canadian immigration requirements, this advertisement is directed to Canadian citizens and permanent residents. The position is subject to final budgetary approval.

Applications or nominations for the directorship should include the curriculum vitae of the candidate, together with the names of three references, and be sent by September 15, 1996, to:

Search Committee
Biotechnology Laboratory Directorship
c/o Dr. Barry C. McBride
Dean of Science
6270 University Boulevard, Room 1505
Vancouver, BC V6T 1Z4
CANADA

The German Cancer Research Center (DKFZ) and the Faculty of Medicine at the University of Heidelberg will jointly appoint a scientist as head of a division at the DKFZ.

Applicants should have outstanding scientific qualifications in the fields of molecular genome analysis focused on cancer-related genes. Activities within the Human Genome Project are desired. The position requires the German "Habilitation" or an equivalent scientific qualification. Applications from female scientists are encouraged.

Please send your application with a curriculum vitae, a list of publications, and references by September 10, 1996, to:

Deutsches Krebsforschungszentrum, Stiftungsvorstand,
Im Neuenheimer Feld 280, D-69120 Heidelberg, Germany.
**University of Cambridge**

**Professorship of Zoology and Directorship of the Museum of Zoology**

Applications are invited for the above newly-established Chair from evolutionary biologists with an established record of excellence in research in one of the following areas: molecular evolution, biodiversity, palaeontology, or systematics. The successful candidate will also be appointed as the Director of the Museum of Zoology.

Pensionable stipend £38,993

Informal enquiries should be made to Professor Malcolm Burrows, Department of Zoology, Downing Street, Cambridge CB2 3EJ, tel: +44 (0)1223 336601. E-mail: mb135@cus.cam.ac.uk. Further information may be obtained from the Secretary General of the Faculties, General Board Office, The Old Schools, Cambridge CB2 1TT, to whom applications (10 copies), marked 'confidential', should be sent with the names of two referees by 30 September 1996.

The University follows an equal opportunities policy.

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**SR. VICE CHANCELLOR ACADEMIC AFFAIRS**

University of California, San Diego invites nominations and applications for the position of Senior Vice Chancellor-Academic Affairs. The position acts as principal advisor to, and acts for, the Chancellor; and is responsible for academic personnel and resource allocations for the general campus. Candidates are sought who possess distinguished academic background, a strong commitment to teaching and scholarly values, and proven leadership.

For full consideration, please submit nominations and applications by 9/1/96 to: Prof. David Miller, Chair, Search Committee, UC, San Diego, 9500 Gilman Drive, La Jolla, CA 92093-0967 or E-mail sendcv@ucsd.edu. EOE/AA Employer.

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**Deutsches Krebsforschungszentrum**

**Professorship (C3) for Tumorvirus Characterization**

The German Cancer Research Center (DKFZ) and the Faculty of Medicine at the University of Heidelberg will jointly appoint a scientist as division head within the research program of Applied Tumor Virology.

Applicants should have outstanding scientific records in the field of tumorvirus characterization and be able to contribute with innovative ideas to the research program Applied Tumor Virology. The incumbent will also be responsible for the Reference Center for Human Pathogenic Papillomaviruses. The position requires the German "Habilitation" or an equivalent scientific qualification. Applications from female scientists are encouraged.

Please send your application with a curriculum vitae, a list of publications, and references by September 10, 1996, to:

Dekanat der Medizinischen Fakultät der Ruprecht-Karls-Universität Heidelberg, Im Neuenheimer Feld 346, D-69120 Heidelberg, Germany.

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**Deutsches Krebsforschungszentrum**

**Head of the Division Mechanisms of Viral Oncogenesis**

Applicants should have outstanding scientific qualifications and focus on innovative research programs like "Mechanisms of viral oncogenesis" with special emphasis on viral interference with the cell cycle regulation.

The position is planned for a junior research group. Scientific qualifications of this department will contribute to the DKFZ research program Applied Tumor Virology. Remuneration will be according to BAT 1a. Applications from female scientists are encouraged.

Please send your application with a curriculum vitae, a list of publications, and references by September 30, 1996, to:

Stiftungsvorstand, Deutsches Krebsforschungszentrum, Im Neuenheimer Feld 280, D-69120 Heidelberg, Germany.
POSTDOCTORAL POSITION SCRIPPS RESEARCH INSTITUTE

One POSTDOCTORAL POSITION is available to study structure/function relationships of serine proteases and their role in normal and pathological processes. Contribution is not limited to the co-evolution of specificity between serine proteases and serpins (see Nature, 339:721-724; PNAS, 87:3530-3533, JBC, 265:21423-21426), regulation of the intracellular activation of these enzymes, and the role of serpins in the activation of other coagulation or fibrinolytic proteases. The Scripps Research Institute provides a stimulating environmental science, and is a very pleasant place to live. If interested, please send your curriculum vitae and two letters of recommendation to: Dr. Ronald G. Triolo, Scripps Research Institute, La Jolla, CA 92037; Fax: 720-441-4667.

POSTDOCTORAL RESEARCH POSITION is available for structure-function studies of the renal Na+/Cl- dependent absorption transporters. Candidates should have a Ph.D. in molecular biology, biochemistry, pharmacology or related field and a minimum of 1 year of research experience. Candidates should be highly motivated and interested in applying modern techniques to molecular and cellular biology. Experience with transgenic mice, microinjection, viral transduction, and cell biology are highly desirable. Send curriculum vitae, writing samples, and names of three references to: Dr. David F. Hart, Department of Molecular Biology, Scripps Research Institute, La Jolla, CA 92037; Fax: 720-441-4667.

POSTDOCTORAL POSITION available to study plant chloroplast proteins. The research will focus on targeted proteins or organelles and the functions of organelles in photosynthesis and energy conversion. Candidates should have a Ph.D. in Molecular Biology, Biochemistry, or a related field and a minimum of 1 year of research experience. Please send curriculum vitae and two letters of recommendation to: Dr. D. DaCosta, Depart-
POSTDOCTORAL FELLOWSHIPS
MOLECULAR CANCER BIOLOGY

POSTDOCTORAL POSITIONS open September 1, 1996 with a newly established research group at the M.D. Anderson Cancer Center for talented Ph.D. and/or M.D. scientists in the following disciplines:

- Apoptosis—Current studies include: 1) mechanisms by which apoptotic responses to chemotherapy are modulated by growth factors, 2) signal transduction pathways and by regulators of cell cycle traversal; 2) mechanisms of apoptosis induced by therapeutic agents including the role(s) of anti- and pro-apoptotic proteins.
- Growth Factors—Ongoing investigations include: 1) novel mechanisms of action of anti-EGF receptor monoclonal antibodies; 2) mechanisms of hergulin/NDF action on regulatory interferon response elements, tyrosine kinases and estrogen receptors in breast carcinoma cells.
- Cell Cycle—Research focuses on: 1) regulation of cyclin dependent kinase inhibitors; 2) regulation of nuclear matrix proteins.

Experience in molecular biology, biochemistry, and signal transduction is desirable. For immediate consideration, please send curriculum vitae and names of three references to: Drs. John Mendelsohn, Rakesh Kumar, Zhen Fan, Laboratory of Cell Growth Regulation, M.D. Anderson Cancer Center, 1515 Holcombe Boulevard, Box 91, Houston, TX 77030, An Equal Opportunity Employer.

POSTDOCTORAL FELLOWSHIPS
Biactive Lipids and Neuronal Degeneration

Two positions are available October 1, 1996, and January 1, 1997, for Ph.D. or M.D. with experience in molecular biology (i.e., PCR, Northern blotting, molecular cloning, EMMA) and neurochemistry. Projects involve dissecting intracellular signaling pathways involving platelet activating factor and eicosanoids in animal models of epileptogenesis and neuronal cell death. The laboratories are well equipped and will move in March 1997 to a newly built building.

Send curriculum vitae, a brief letter stating scientific background and career goals, and names and telephone numbers of three references to: Dr. Nicolas G. Bazan, Louisiana State University Medical Center, Neuroscience Center, 2020 Gravier Street, Suite B, New Orleans, LA 70112. Louisiana State University Medical Center is an Affirmative Action/Equal Employment Opportunity Employer.

POSTDOCTORAL POSITIONS
Cytokine-Receptor Recognition, Mimicry, Antagonism

One position starts September 1996, to map receptor recognition sites on IL-1. A second, November 1996, to map IL-1 and antagonists of ILS. Requires Ph.D. in biochemistry, or related experience in molecular biology and protein chemistry. Send resumes and three references to: Irwin Chaiken, Ph.D., University of Pennsylvania School of Medicine, 913 Stellar Chance Laboratories, 422 Curie Drive, Philadelphia, PA 19104. FAX: 215-349-5572; Email: chaiken@mail.med.upenn.edu.

POSTDOCTORAL FELLOWSHIP
MOLECULAR RADIOBIOLOGY
THE JOHNS HOPKINS UNIVERSITY SCHOOL OF MEDICINE

A two-year POSTDOCTORAL FELLOWSHIP is available in the Division of Radiation Oncology of the Oncology Center. This fellowship is sponsored by a gift from ISOTENT INC. to support a postdoctoral fellow to characterize radiation inhibition of arterial restenosis.

The Radiobiology Laboratory is seeking an individual who has successfully completed doctoral studies with demonstrated strength in molecular biology, associated with cell death and proliferation. Knowledge of radiation biology is desirable, but not required. Applicants should send a letter of interest together with a curriculum vitae and a list of three references to: Dr. Jerry R. Williams, Director, Radiobiology Laboratory, Room 2-121, Johns Hopkins Oncology Center, 600 N. Wolfe Street, Baltimore, MD 21287-5001.

The Johns Hopkins University is an Equal Opportunity, Affirmative Action Employer, and actively encourages interest from minorities and women.

POSTDOCTORAL POSITIONS available to study the catalytic mechanism, substrate specificity/rational inhibitor design, and regulation of protein-tyrosine phosphatases. Experience with enzyme kinetics, molecular biology, molecular and/or protein crystallization and/or crystalline vitre, names and telephone numbers of three references to: Dr. Zhong-Yin Zhang, Department of Molecular Pharmacology, Albert Einstein College of Medicine, Jack and Pearl Resnick Campus, 1300 Morris Park Avenue, Bronx, NY 10461. Email: zyzhang@accom. yu.edu. Equal Opportunity Employer.

RESEARCH GRANTS ON LYME DISEASE PREVENTION

The American Lyme Disease Foundation, Inc. is providing support for three to five proposals of $10,000 each for Lyme and/or tick-borne infections. For details, contact: David L. Welt, Executive Director, American Lyme Disease Foundation, Mill Pond Office, 293 Route 100, Somers, NY 10589. Telephone: 914-277-6970; FAX: 914-277-6974.

COURSES AND TRAINING
Short Course on Time-Resolved Fluorescence Spectroscopy

The Center for Fluorescence Spectroscopy (CFS), at the University of Maryland School of Medicine, is offering a short course on Principles and Applications of Time-Resolved Fluorescence Spectroscopy in Baltimore, March 24 to 28, 1997. The course will cover basic and advanced topics in fluorescence, including time- and frequency-domain measurements, Forster energy transfer, chemical sensing, imaging, fiber optics, infrared fluorescence, two-photon excitation, instrumentation, and fluorescence microscopy. Textbook, course materials, lunches, and refreshments will be provided. The instructors include Drs. J. R. Lakowicz, I. Gryczynski, and R. B. Thompson.

For further information, a schedule, and fees, please contact: Ms. Mary Rosenfeld, Ms. Suzy Rhinehart, or Professor J. R. Lakowicz at the CFS, Department of Biochemistry and Molecular Biology, 108 North Greene Street, Baltimore, MD 21201. Telephone: 410-706-8409; FAX: 410-706-8408; Email: cfs@sg.ab.umd.edu. Deadline for enrollment is February 28, 1997, with later enrollment if space permits.

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Continued from page 1013

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