**Advertising Rate Information**

**CLASSIFICATIONS.** Positions open—placement bureaus, industrial positions, and academic positions. Positions wanted—members, nonmembers, student and national affiliates, retired members.

**Listings:** Published weekly, issued every Monday. Mailed Friday preceding date of issue.

**Closing Date for Classified Ads: Standard Set Ads—Thursday, 10 a.m. 17 days preceding publication date. Display Ads—Friday, 10 a.m. 17 days preceding publication date. No extensions. Cancellations must be received 14 days in advance of publication date (except legal holidays.)

**ACS MEMBER RATES**

“Situations Wanted” advertisements will be classified by the chemical field designated by the member. If not designated, placement will be determined by the first word of the text submitted.

**EMPLOYED MEMBERS**

“Situations Wanted” advertisements placed by employed ACS members and affiliates are accepted at $60 a line per insertion, no minimum charge. State ACS membership status and send advertisements to: Chemical & Engineering News, Classified Advertising, 676 East Swedesford Road, Suite 202, Wayne, PA 19087-1612. Phone: (610) 964-8011; Fax: (610) 964-8071.

**UNEMPLOYED & RETIRED MEMBERS**

Unemployed members and affiliates, members and affiliates under notice of involuntary unemployment within 60 days, and student members and affiliates who have not found employment two months prior to graduation may place free advertisements (up to 55 words in C&EN on a biweekly basis; maximum 18 insertions per calendar year).

Retired members who are looking for part-time employment, and who have applied for retirement status with ACS may place free advertisements (up to 55 words) in C&EN on a monthly basis (maximum 6 insertions per calendar year). The “Consultant Section” is reserved for retired members only.

To place an ad: Advertisers must include their name, address, daytime telephone number, ACS membership status, and details of their unemployment upon submitting a request. A box number will be assigned; however, if confidentiality is requested, a fee of $20 per insertion will be charged. Fax: (610) 964-8071. C&EN will typeset ads. Do not include any abbreviations. C&EN will type-set ads according to ACS member rates unless otherwise specified. ADS will be accompanied by a Purchase order number and a billing address. Mail or fax advertisements to Chemical & Engineering News, Classified Advertising, 676 East Swedesford Road, Suite 202, Wayne, PA 19087-1612. Phone: (610) 964-8061; Fax: (610) 964-8071.

**CONDITIONS.** In printing these advertisements ACS assumes no obligations as to qualifications of prospective employees or responsibility of employers, nor shall ACS obtain information concerning positions advertised or those seeking employment. Replies to announcements should carry copies of supporting documents, not original documents. Every reasonable effort will be made to prevent warding of advertising circulators. Employers who require applications on company forms should send duplicate copies. ACS considers all users of this section obligated to acknowledge all replies to their advertisements.

**IMPORTANT NOTICES.**

- Upon request, the Office of Professional Employment Services provides a copy of the ACS Employment Guidelines and furnishes information on terminations of chemical professionals.
- Employment in countries other than your own may be subject to government visa and other policies. Moreover, you should investigate thoroughly the generally accepted employment practices, the cultural conditions, and the exact provisions of the specific position being considered. Members may wish to contact the ACS Awards and International Activities Department for information it might have about employment conditions and cultural and cultural practices in other countries.
- Various state and national laws against discrimination, including the Federal Civil Rights Act of 1964, prohibit discrimination in employment because of race, color, religion, national origin, age, sex, marital status, physical handicap, or handicap status not based on a bona fide occupational qualification.
- These help wanted and situations wanted advertisements are for readers’ convenience and are not to be construed as instruments leading to unlawful discrimination.
- Position descriptions shall conform to the official ACS definition of a chemist which is available through the Office of Professional Services. Employers whose advertisements appear have been informed that position descriptions must conform to this definition.

**SYNTHETIC AND ANALYTICAL CHEMISTS NEEDED IN TAIWAN**

MS’s and Ph.D’s desired for a pharmaceutical and specialty chemical company located in Taiwan. Experience in (1) synthetic process development of pharmaceuticals, intermediates, and chiral compounds and (2) analytical development, including the design, development, and implementation of analytical methods. Applications are invited for (1) synthetic process development chemists and (2) analytical chemists. Considerable travel to Asia is expected. Competitive salaries and benefits are offered. Please send resume Dr. Steve Hsu, Simon Corporation, 131, Chusheng-Shan Rd., 16, Shang-Tou, Hsing advisory, P.O. Box 219, 213 S. Hill Street, South Bend, IN 46617. Telephone: 219-233-8207. Internet: nalepins@mas-tech.iag.net. ACS members still available are encouraged to search for positions.

**ACs Career Services**

The ACS Department of Career Services is pleased to serve our members by providing career assistance and programs for professional development. The Professional Data Bank (PDB) provides employers with information on scientific professionals seeking employment. The PDB is designed to match employers’ specifications with our registered members’ qualifications. The PDB is not confidential, operates on a year-round basis, and is free to ACS members and student and national affiliates. The Department of Career Services also has a Confidential Employment Listing Service (CEL) available to our members who wish to have their confidentiality assured, but who wish to be included in the PDB. The cost for adding an advertisement to the PDB is $46 net per line ($60 minimum). One line equals approximately 52 characters and spaces, centered headlines equal approximately 52 characters, bold caps, and spaces all in 7-point type. This means that if you submit a 10-line ad, your ad will be double-spaced, typewritten copy. Do not include any abbreviations. C&EN will type-set ads according to ACS member rates unless otherwise specified. Ads will be accompanied by a Purchase order number and a billing address. Mail or fax advertisements to Chemical & Engineering News, Classified Advertising, 676 East Swedesford Road, Suite 202, Wayne, PA 19087-1612. Phone: (610) 964-8061; Fax: (610) 964-8071.

**TO SUBMIT A CLASSIFIED AD:** Simply send us double-spaced, typewritten copy. Do not include any abbreviations. C&EN will type-set ads according to ACS member rates unless otherwise specified. Ads will be accompanied by a Purchase order number and a billing address. Mail or fax advertisements to Chemical & Engineering News, Classified Advertising, 676 East Swedesford Road, Suite 202, Wayne, PA 19087-1612. Phone: (610) 964-8061; Fax: (610) 964-8071.

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- Position descriptions shall conform to the official ACS definition of a chemist which is available through the Office of Professional Services. Employers whose advertisements appear have been informed that position descriptions must conform to this definition.

**YESPECIFIC AND ANALYTICAL CHEMISTS NEEDED IN TAIWAN**

MS’s and Ph.D’s desired for a pharmaceutical and specialty chemical company located in Taiwan. Experience in (1) synthetic process development of pharmaceuticals, intermediates, and chiral compounds and (2) analytical development, including the design, development, and implementation of analytical methods. Applications are invited for (1) synthetic process development chemists and (2) analytical chemists. Considerable travel to Asia is expected. Competitive salaries and benefits are offered. Please send resume Dr. Steve Hsu, Simon Corporation, 131, Chusheng-Shan Rd., 16, Shang-Tou, Hsing advisory, P.O. Box 219, 213 S. Hill Street, South Bend, IN 46617. Telephone: 219-233-8207. Internet: nalepins@mas-tech.iag.net. ACS members still available are encouraged to search for positions.
6.5 billion people call it home.
Now that’s a challenge. If you are looking for a company that is really making a difference, consider Monsanto Life Sciences Company.

We’re bringing pharmaceutical products to a market that satisfies unmet medical needs. We’re strengthening plant resistance to insects and disease, so crops grown throughout the world will be stronger. We’re developing new food ingredients, so food will taste better, and will be better for you.

And this is just the beginning.

Every day, our professionals develop new solutions that will keep our planetlivable for centuries to come.

Ready to save the world?

**PHARMA SECTOR**

Bringing to the world increasingly innovative and important pharmaceutical products that satisfy unmet medical needs.

**Pre-Clinical Opportunities in Suburban Chicago, IL**

**PRODUCTION PLANNING ENGINEER**

Utilize mixed integer linear programming to optimize production schedules, contracting plans, and business strategies. Develop production strategies for our customers, and coordinate activities with development engineering, product teams and contracting. Programming and systems development to streamline processes and development activities. Perform cost of goods analysis for new chemical processes. BS in Industrial Engineering and knowledge of database design and database programming required with up to 5 years experience. Knowledge of programming languages such as C, C++, and Visual Basic. Must be familiar with linear programming concepts and able to interact with professionals.

**ASSISTANT RESEARCH TOXICOLOGIST**

Conduct pre-clinical safety studies by performing non-routine and non-standardized procedures in the collection of data. Ensure that studies are performed in compliance with institutional SOPs and Good Laboratory Practices. Knowledge of pharmacology, pharmaceutical sciences, and toxicology is essential. BS in Toxicology or Biology. Must be a self-starter and able to work in a team environment.

**STUDY TOXICOLOGIST SUPERVISOR**

Evaluate the pre-clinical safety assessment of novel therapeutics used in worldwide preclinical testing of these agents. Assist in designing studies to meet scientific objectives, and ensure that the studies are conducted accurately and accurately reported in the report. Conduct study team meetings to assign tasks and dates for completion of tasks and supervise the Study Supervisors and/or Investigators during the conduct of the in-life portion of the study. Communicate findings from life data to Study Director and Study Pathologist. Interact with the Quality Assurance Unit during conduct of study, and in life data reviews, ensure completeness of raw data notebooks for Central File submission, and train/provide professional growth opportunities to technical staff. In addition, contribute to departmental strategic expertise by performing literature searches, developing new techniques, methodologies, and attending conferences and meetings. Interact with individuals at all levels within Product Safety Assessment and with personnel in other departments within the context of study design, conduct, and reporting.

**GROUP LEADER, PRE-CLINICAL PHARMACOKINETICS AND METABOLISM**

Develop pre-clinical pharmacokinetic and metabolism technical strategy for the development of new compound candidates. Lead drug candidates in the Arthritis, Cardiovascular, Oncology or Women’s Health & Sleep franchises. Lead a work team to accomplish Discovery and Development project goals. This involves planning, tracking, and converting data into information to form an in-depth knowledge base for a given compound. Identify key topics and develop a strategy for issue management. Serve as pre-clinical pharmacokinetic/metabolism expert on R&D Project Teams, as well as prepare reports and summaries for United States submissions. Knowledge of drug metabolism, Pharmacology, Farmacy, and Pre-Clinical Development. 

**GROUP LEADER SEPARATION PROCESS ENGINEERING**

Hands-on engineer with thorough grounding in engineering fundamentals and demonstrated skills in the design, development, and scale-up of separation processes for pharmaceutical and chemical processes. The individual should have the ability to come up with unique and creative solutions that are obvious to most people. Expertise in Chemical Engineering and 5+ years of experience in in-depth separation process development and scale-up required. Experience should include the design and execution of scale-up studies for new processes, and pilot plant scale, with at least 2 years leadership experience.

**SUPERVISOR PROCESS DEVELOPMENT ENGINEERING**

Explore, plan, design and conduct research in new technologies to develop oral solid or parenteral dosage forms. Provide leadership and processes for Phase II/III clinical studies and scale-up these products to commercial scale. BS in Chemical Engineering and 5+ years of experience in fine chemical development required. Extensive knowledge of unit operations, organic chemistry principles, and organic chemistry is essential, while experience in batch manufacturing, process control, and project management are a plus.

**SOLIDS AND PARENTERALS FORMULATORS**

Explore, plan, design and conduct research in new technologies to develop oral solid or parenteral dosage forms. Provide leadership and processes for Phase II/III clinical studies and scale-up these products to commercial scale. BS in Chemical Engineering and 5+ years of experience in fine chemical development required. Extensive knowledge of unit operations, organic chemistry principles, and organic chemistry is essential, while experience in batch manufacturing, process control, and project management are a plus.

**NMR SPECTROSCOPIST**

Join a team of NMR professionals responsible for providing support to drug Discovery and Development. The NMR team maintains and operates both full service and open access NMR laboratories equipped with a variety of high-resolution spectrometers, providing routine analyses, as well as designing and performing experiments for the solution of special problems, and investigating and implementing new technology. LC-NMR will be implemented at 600 MHz in early 1998. PhD in Chemistry and a strong theoretical and experimental background in 1D and 2D NMR, experience with computer and communication skills and the ability to work in a team environment a must. Experience with NMR, UNIX, and PC skills are desired.

**ANALYTICAL CHEMISTRY**

**CHEMICAL SCIENCES**

Our Chemical Sciences department is currently seeking various levels of pharmaceutical professionals with the following qualifications: BS/MS in Chemistry with 0-5 years experience, written and verbal communication skills, knowledge of GC, TLC, HPLC, UV/Vis, IR and wet chemical methods required. GLPs and analytical chromatography method development experience along with special training in pharmacokinetics, PK/PD, and a minimum of 3-5 years experience in the pharmaceutical industry are essential. Specialized skills in high performance liquid chromatography are a plus.

**GROUP LEADER PROCESS DEVELOPMENT ENGINEERING**

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**DEVELOPMENT ENGINEERS**

Independently carry out all engineering aspects of the development process to design and implement the production of new chemical entities on various scales. This includes reducing emissions, costs and assisting technology transfers. The candidate will also train department personnel and is responsible for Process Safety Reviews. BS/MS in Chemical Engineering and 1-7 years of pharmaceutical or fine chemical experience required. Extensive knowledge of unit operations, chemical engineering principles, and chemical engineering is essential, while experience in batch manufacturing, process control, and project management are a plus.

**GROUP LEADER, PRE-CLINICAL PHARMACOKINETICS AND METABOLISM**

Develop pre-clinical pharmacokinetic and metabolism technical strategy for the development of new compound candidates. Lead drug candidates in the Arthritis, Cardiovascular, Oncology or Women’s Health & Sleep franchises. Lead a work team to accomplish Discovery and Development project goals. This involves planning, tracking, and converting data into information to form an in-depth knowledge base for a given compound. Identify key topics and develop a strategy for issue management. Serve as pre-clinical pharmacokinetic/metabolism expert on R&D Project Teams, as well as prepare reports and summaries for United States submissions. Knowledge of drug metabolism, Pharmacology, Farmacy, and Pre-Clinical Development. 

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throughout solution-phase and solid-phase synthetic routes to enable the automated production of chemical libraries. Other responsibilities include the development of novel methods/reagents for chemical library production and purification, in addition to steady state and kinetic analysis of chemical library production and purification. Experience with molecular networking and in silico design of chemical libraries is required.

**RESEARCH INVESTIGATOR**

Design and synthesis of new molecular scaffolds utilizing structure-based discovery and/or design of multi-step chemical library synthesis. Experience with molecular networking and in silico design of chemical libraries is required.

**Opportunity in Southwest Los Angeles, CA**

**RESEARCH CHEMIST**

Design and synthesis of molecular scaffolds and the validation of solution-phase and solid-phase synthetic routes to enable the production of chemical libraries. Other responsibilities include the development of novel methods/reagents for chemical library production and purification, in addition to steady state and kinetic analysis of chemical library production and purification. Experience with molecular networking and in silico design of chemical libraries is required.

**SR. PROCESS CHEMIST**

Develop and optimize processes for pharmaceutical products, to include managing products from lab to pilot work to full scale manufacture. Conduct organic synthesis, enzymology and protein expression assays, and purification, and spectral analysis. Experience with molecular networking and in silico design of chemical libraries is required.

**Opportunity in Suburban Chicago, IL**

**RESEARCH CHEMIST**

Design and synthesis of molecular scaffolds and the validation of solution-phase and solid-phase synthetic routes to enable the production of chemical libraries. Other responsibilities include the development of novel methods/reagents for chemical library production and purification, in addition to steady state and kinetic analysis of chemical library production and purification. Experience with molecular networking and in silico design of chemical libraries is required.

**Opportunity in Southwest Los Angeles, CA**

**RESEARCH CHEMIST**

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**Opportunity in Southwest Los Angeles, CA**
Working on the molecular level to conquer, treat, or prevent debilitating diseases.

**Chemical Research at Schering-Plough**

At Schering-Plough Research Institute, we are pursuing scientific research that will ultimately help improve the health and extend the lives of millions of people around the world. At our Drug Discovery Facility in Kenilworth, NJ, scientists are focused on developing increasingly advanced treatments for cancer, allergies, cardiovascular disease, central nervous system disorders and infectious diseases. You could play an integral role in our next big breakthrough by joining us in our state-of-the-art research laboratories.

**Scientists**

Our expanding Chemical Research Department has exceptional opportunities for Scientists with BS/MS degrees and 0-6 years of experience in synthetic organic chemistry. A strong knowledge of modern spectroscopic and chromatographic techniques is essential. A background in high-speed synthetic methods is desirable but not essential.

We offer an excellent compensation package including a competitive salary and comprehensive benefits. For prompt, confidential consideration, we invite you to apply on-line at [http://www.sp-research.com](http://www.sp-research.com) or send a scannable resume and cover letter, original copy only, referencing Dept. CR-SW, to: Schering-Plough Research Institute, MS #1250, 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.

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Eisai Research Institute

**Research Investigator—Chemistry**

There are several positions available in our chemistry research group. As a member, you will be expected to design and execute challenging synthetic sequences with the goal of discovering novel therapeutic compounds. Candidates must be team players and have a proven ability in multi-step organic synthesis as well as outstanding oral and written communication skills. Required for this position is a Ph.D in Organic Chemistry, 2 years’ postdoctoral experience preferred. Please include letters of recommendation and a research summary.

**Research Chemists**

We are looking for several knowledgeable individuals with the ability to carry out multi-step organic synthesis as a member of our drug discovery team. The ideal candidates must hold a B.S. or M.S. degree in Organic Chemistry plus 2 years’ synthetic experience in an academic or industrial laboratory and hands-on experience in IR, NMR, HPLC and modern Chromatography methods.

Our Andover facilities offer the cultural advantages of Boston with the beauty of New England’s White Mountains and rugged coast. Eisai offers an outstanding compensation package including 401(k) match and profit sharing. Please include letters of recommendation and a research summary with your resume and fax or forward to:

**Human Resources**

Eisai Research Institute

4 Corporate Drive
Andover, MA 01810

Fax: (978) 794-4910
Email: hr_eri@eisai.com

For more information visit the Eisai Ltd. Co. web site at:

[www.eisaixo.jp](http://www.eisaixo.jp)

We are an equal employer M/F/D/V
Metabolism and Pharmacokinetics

Several positions are available in both our New Brunswick, New Jersey research locations for candidates with a Ph.D. in biochemistry, medicinal chemistry, pharmaceutical sciences or a related discipline. Proficiency in the use of HPLC, LC/MS and other techniques used in metabolism and pharmacokinetic studies is essential.

Drug Discovery Support - Participate in an interdisciplinary team involved in the discovery of new drug molecules. Design and conduct in vitro and in vivo metabolic and pharmacokinetic studies to support the discovery process in order to optimize properties of compounds entering development. Candidates will be expected to develop innovative approaches to support drug discovery. (Please respond to either the CT or NJ address and use code: PRMMHLKRWCE)

Early Biotransformation - Design and conduct in vitro and in vivo studies to determine the biotransformation of drugs during the drug discovery and early development phases. The enzymes responsible for biotransformations, as well as the effect of the drugs on CYP450 will also be determined. Correlative in vivo biotransformation analysis will be performed in selected animal species. Major metabolites will be characterized using LC/MS techniques. Experience in LC/MS and in the P450 enzyme system is essential. (Please respond to the CT address and use code: PRMMHRMCE01)

Late Biotransformation - Candidates will perform registrational studies to determine the metabolic fate of drugs in development. Responsibilities include the isolation and identification of drug metabolites from biological samples obtained from non-clinical and clinical studies. Candidates must have experience in a wide variety of separation techniques and a thorough knowledge of structural elucidation of organic molecules using modern spectroscopic methods including NMR and MS. Experience in the use of radiolabeled molecules is desirable. (Please respond to the NJ address and use code: PRABKKCE01)

Chemical Process Research

Group Leader - For this position in our New Brunswick, NJ facility, candidates should have a Ph.D. in Organic Chemistry with 8-12 years post-doc experience and knowledge of modern and classical synthetic organic chemistry as well as modern analytical techniques and instrumentation. The selected scientist will provide scientific management of personnel and projects directed toward the synthesis of new drug candidates. Specific responsibilities include the conception, planning, direction, and patient protection of innovative, scalable routes to compounds of interest, and the generation and communication of research proposals, plans and results. (Please respond to the NJ address and use code: PRMHRM0853)

Chemical Process Engineering

Associate Research Scientist - For this position in our New Brunswick, NJ facility, candidates should have an M.S./Ph.D. in Chemical Engineering with 5-10 years of experience, which involves chemical process development and related problem-solving skills. Selected scientist will perform developmental studies in the chemical engineering department within Process Research and Development, with latitude for independent judgement, decision and action, and conduct bench-scale studies and pilot plant experiments. (Please respond to the NJ address and use code: PRMSSK1757)

Chemistry

We have several positions available for Chemists at both our Princeton, New Jersey and Wallingford, Connecticut sites.

Combinatorial Chemists - Candidates should have a B.S./M.S. in Organic Chemistry, along with laboratory experience in modern spectroscopic and experimental techniques and preparative chromatography with a working knowledge of synthetic organic chemistry. Candidates selected will use state-of-the-art technology in high throughput synthesis and purification. (Please respond to your preferred address and use code: PRTGGVCE01)

Organic Chemists - Candidates should have a B.S./M.S. degree in organic chemistry, with a minimum of 2 years relevant research experience. You will be responsible for the synthesis of novel pharmacologically active compounds using organic synthesis techniques and combinatorial approaches. 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) is essential. Proficiency with Macintosh-based software (ChemDraw, Word, Excel) is desirable. (Please respond to your preferred address and use code: PRTGGVCE02)
Hoechst Marion Roussel

Research Strategic Intent
"To be FIRST in converting science into innovative, commercially attractive products in our areas of research focus"

Hoechst Marion Roussel, a world leader in pharmaceutical healthcare, is dedicated to extending and enhancing human life through discovery, development, and manufacture of innovative pharmaceutical products. We have a heritage of breakthrough discovery in medicine, and a commitment to innovation and excellence that is integral to our long history. Our commitment to the future has created the need for the following opportunities.

Join a company where your individual contributions are recognized and acknowledged within an environment of team-based discovery research. These positions, located in our modern complex in a pleasant suburban setting, provide a competitive salary with a flexible benefits program, a company Performance Sharing Plan and immediate participation in 401(k) Savings and Retirement Plans. For consideration, mail your resume (suitable for scanning) to: Staffing Manager, D103-H, Ref# 1997BW0018, Hoechst Marion Roussel, Route 202-206, P.O. Box 8800, Bridgewater, New Jersey 08807-0800 or e-mail at jobs@hmri.com. For additional company information, we invite you to visit our website: www.hmri.com.

An affirmative action employer M/F/D/V.

Opportunities in Core Research Functions (Ph.D M.S. B.Sc.)

• PHYSICAL METHODS

Ph.D. level scientists with experience in Mass Spectrometry, NMR Spectroscopy or Separations and Physical Methods.

• PHARMACOKINETICS and DRUG METABOLISM

Positions available at all levels (Ph.D., M.S., B.Sc.) for qualified scientists familiar with preclinical pharmacokinetic and metabolism drug discovery research. Candidates should have a thorough knowledge of general biochemical assays, drug absorption processes, metabolic profiling and in-vitro screening studies.

• COMPUTATIONAL CHEMISTRY and MOLECULAR MODELING

Computational chemist with a Ph.D. in Chemistry and experience interacting with medicinal chemists on problems related to QSAR, diversity, and ADMET using a variety of programs including SYBYL.

Join a company where your individual contributions are recognized and acknowledged within an environment of team-based discovery research. These positions, located in our modern complex in a pleasant suburban setting, provide a competitive salary with a flexible benefits program, a company Performance Sharing Plan and immediate participation in 401(k) Savings and Retirement Plans. For consideration, mail your resume (suitable for scanning) to: Staffing Manager, D103-H, Ref# 1997BW0018, Hoechst Marion Roussel, Route 202-206, P.O. Box 8800, Bridgewater, New Jersey 08807-0800 or e-mail at jobs@hmri.com. For additional company information, we invite you to visit our website: www.hmri.com.

An affirmative action employer M/F/D/V.

Hoechst Marion Roussel

Hoechst Marion Roussel
The Pharmaceutical Company of Hoechst

Director, Physical Sciences S&T Division

The Office of Naval Research (ONR) is seeking an outstanding individual to serve in this Civil Service position in the Senior Executive Service (SES). Salary range is $97,000 to $115,700 (plus locality pay) per year, depending on qualifications. In addition to salary, career SES appointees are eligible to compete for performance awards and bonuses. Filling of this position is subject to position allocation availability.

This key position is in science and technology management in the Department of the Navy (DoN) and the Department of Defense (DoD) and includes responsibility for managing and directing integrated programs of basic and applied research/exploratory development, and advanced technology development in chemistry, physics, environmental quality, and logistics. The incumbent will identify world-class scientists and engineers who can contribute to the R&D needs of DoN and DoD and procure their services under contracts and grants, and will be responsible for financial and human resources for science and technology.

Candidates must have progressive, responsible and substantial experience (preferably at the doctoral level) in management of research, technology and/or development programs in chemistry or physics including strong experience in physical chemistry; polymer and electrochemical sciences; surface, organic, and solid state chemistry; theoretical, laser, and laser optics physics; non-linear dynamics; physical acoustics; or plasma physics. This experience must include recent publications, presented papers, invited talks, leadership roles in professional organizations, and substantial growth in programmatic coordination of large integrated science and/or technology projects. Experience with environmental or logistics issues relating to the Naval Forces is desirable.

Applicants are requested to complete the appropriate supplemental forms. Applicants may download a copy of the vacancy announcement from ONR's web site (http://www.onr.navy.mil). If you do not have access to the Internet, please call ONR’s Vacancy Hotline: (703) 696-0972. Hearing impaired applicants may use our TDD number: (703) 696-3573. For additional information or applying for the position, please contact Ms. Sandra Weston at (703) 696-0383. For technical information, contact Dr. R. DeMarco at (703) 696-4408.

Applications will be accepted through 12/08/97 and must be received by that date. Interested persons should submit their application and supplemental forms to: ONR, Satellite Human Resources Office, Attn: Ann. #97-23 (C&E), 800 N. Quincy St., Arlington, VA 22217-5660.

ONR is an Equal Opportunity Employer and promotes diversity in the workplace. Women and minorities are encouraged to apply.
Enter the next generation of pharmaceutical discovery and development

**Drug Metabolism & Pharmacokinetics**

**At Schering-Plough**

It's an exciting time at the Schering-Plough Research Institute. Every day, some of the world's brightest minds are discovering breakthrough therapeutic agents and treatments that will improve the health and extend the lives of millions of people around the world. As we continue to experience unprecedented growth, we are moving confidently into the 21st century and seek exceptional Scientists whose goal is to make a difference in the areas of Drug Metabolism and Pharmacokinetics in support of both drug discovery and drug development.

**Senior Scientists**

**Bioanalytical, Drug Development**

Will develop and validate sensitive, selective and robust LC-MS assays for quantitation of drugs and their metabolites in biological matrices. Involves implementation of new automation and separation techniques, spectrometric technologies for quantitative bioanalysis. Requires a PhD in Chemistry or Biochemistry and 1-3 years of related experience including HPLC and mass spectrometry. For consideration, respond to Dept. DD71-02-BG.

**Pharmacokinetics**

Will conduct pharmacokinetic analyses, interpret and present results, and prepare reports for both preclinical and clinical studies. Requires a PhD in Pharmaceutical Sciences and 6-3 years of relevant industrial/academic experience. Experience with pharmacokinetic/pharmacodynamic and population pharmacokinetic modeling is highly preferred. For consideration, respond to Dept. DD97-52-BG.

**Drug Metabolism/Pharmacokinetics Documentation**

Will prepare preclinical documentation for domestic and international submissions of new drugs, summaries for annual IND/NDA reports, and responses to regulatory agency questions. Requires a PhD in Pharmaceutical Sciences and 1-4 years of experience which includes in-depth knowledge of Drug Metabolism/Pharmacokinetics. For consideration, respond to Dept. DD97-55-BG.

**Bioanalytical and Metabolite Identification**

Will operate and maintain a Finnigan TSO API or LCO API LC/MS system as well as develop methods for quantitative analysis of drugs in plasma and identify metabolites in plasma, urine and bile. Requires a PhD in Analytical Chemistry and at least 2 years of LC/MS/MS experience which includes both method development and structural elucidation. For consideration, respond to Dept. DD71-43-BG.

**Principal Scientist/Mechanistic Absorption Specialist**

**Exploratory Drug Metabolism**

Will relate various physiochemical and molecular parameters to drug permeability and absorption, with the ultimate goal of designing compounds with good oral bioavailability. Requires a PhD in Physical Organic Chemistry, Chemistry or Biochemistry and at least 6 years of experience emphasizing computational chemistry. Knowledge of computer programs that calculate molecular and physiochemical parameters plus the ability to apply interactive molecular modeling, molecular mechanics/dynamics and quantum mechanics to computational assisted drug design are essential. A working knowledge of mathematical modeling and understanding of permeability and oral absorption are also required. For consideration, respond to Dept. DD97-92-BG.

**Associate Principal/Principal Scientist**

**Bioanalytical, Drug Discovery**

Will use Finnigan TSO 7000 and LCO LC/MS systems for both bioanalytical assays and metabolite identification in new drug discovery. Requires a PhD and at least 3 years of experience operating LC-API/MS/MS equipment. Experience with LC/MS API 365 or Finnigan TSO 7000/CO-MS systems is highly desirable. Ideal candidates will have at least 3 years in a drug metabolism department of a major pharmaceutical company. For consideration, respond to Dept. D996-07-BG.

**In Vitro Drug Disposition**

Will participate in analytical method development and analysis of biological samples for drug candidates and metabolites as well as conduct in vitro metabolism studies. Requires a BS degree and at least 4 years of experience in drug metabolism and bioanalytical method development. Must be able to use modern analytical techniques such as HPLC and GC. Experience with LC-API/MS/MS equipment. Experience with SCIEX API 365 or Finnigan TSO 7000/MS systems is highly desirable. Ideal candidates will have at least 3 years in a drug metabolism department of a major pharmaceutical company. For consideration, respond to Dept. DD71-46-BG.

**Bioanalytical, Drug Discovery**

We seek a Scientist with an LC/MS background to support ADME studies. Requires a BS degree in Analytical Chemistry, Medicinal Chemistry or a related discipline and at least 4 years of experience or an MS and at least 2 years of bioanalytical LC/MS and computerized data acquisition experience. Hands-on experience in liquid chromatography with UV, radioactivity and mass spectrometric detection is desired. Additional experience in extraction/purification and isolation of drugs and metabolites from biological fluids is highly preferred. For consideration, respond to Dept. DD71-72-BG.

Candidates for the above highly interactive positions on multidisciplinary research teams must possess excellent verbal/written communication, interpersonal and computer skills. We offer an excellent compensation package including a competitive salary and benefits. For prompt, confidential consideration, we invite you to apply on-line at [http://www.sp-research.com](http://www.sp-research.com) or send a scannable resume and cover letter, original copy only, referencing the Dept. Code for your position of interest, to: Schering-Plough Research Institute, MS #1250, 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.
From Florida to Minnesota, from Pennsylvania to California, from the United Kingdom to Japan and South America...you will find Cargill. Our diverse businesses span the globe and provide the stability, growth and resources needed to allow innovative research and development to become tomorrow's products and technologies. If you would like to join a company that is raising the standard of living worldwide, consider one of the following opportunities located at our worldwide headquarters in suburban Minneapolis, MN:

**PRINCIPAL RESEARCH PROGRAM FACILITATOR**

Working in our Central Research area, this position will identify, assess, develop and deploy advanced control and engineering modeling capabilities across the corporation, including optimization of existing processes and design and testing new products and processes. We are looking for candidates with a PhD in Chemical Engineering or Physical Chemistry and 5-10 years of experience including control/modeling from petrochemical and other chemical process industry. Strong math skills and thesis or educational focus in control theory and/or kinetic modeling are also required. Job #09798-030.

**SENIOR RESEARCH ENGINEER**

Supporting the execution of process optimization projects that improve the profitability of the business, this is a great opportunity to use your advanced control and engineering modeling expertise. Applicants must have either an MS in Chemical Engineering and 3-5 years of experience in the chemical or petrochemical process industry or a PhD in Chemical Engineering with thesis on control and/or modeling. Job #09798-037.

**SYNTHEtic ORGANIC CHEMIST**

Increased client demand has created this opportunity to maximize your synthetic organic chemistry skills by developing new and value-added products and processes for Cargill's Oleosseeds product line. We are looking for a creative and innovative individual with a PhD in Organic Chemistry (Synthetic), post-doc, or 0-3 years experience. A familiarity with vegetable oil chemistry (thesis or experience) and a solid understanding of analytical chemistry techniques and methods are essential. Job #09798-038.

**SENIOR BIOLOGICAL CHEMIST**

Increased demand for valuable natural products in our raw materials stream has created an opportunity for an experienced person in biological chemistry. The successful candidate will be able to integrate biochemistry and organic chemistry to analyze opportunities and come up with ways of making exciting new products. Ideal applicants will have a PhD (or equivalent experience) in biochemistry, organic chemistry, or other relevant discipline and 3-5 years industrial experience. Job #09798-040.

As one of the largest and most diversified companies in the world, Cargill can provide dedicated team players with strong communication skills many unique opportunities for career development as well as an attractive compensation and benefits package. Please send resume and salary requirements (must specify job # of interest) to Cargill, Selection Department #10, PO Box 5697, Minneapolis, MN 55440-5697. No phone calls please. Equal Opportunity Employer.

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**Polymer Materials Scientist**

The qualified candidate will provide expertise in polymer synthesis and organic chemistry to the Saphlex Product Development Group. Responsible for assuring that new resin formulations meet code and special customer specifications. Hands-on laboratory and modeling work will include measurement of key performance properties including impact strength, adhesion to glass, rheology, and thin film stress analysis. A Ph.D. in Polymer Science or Materials Science with 0-5 years' work experience, and a strong background in polymer physics and mechanical properties is highly desirable. Good communication, experimental design, data analysis, and computer skills are essential.

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**Polymer Process Development Chemist**

The qualified candidate will provide expertise in polymer synthesis and organic chemistry to the Saphlex Product Development Group. Apply knowledge of chemistry to improving polymer manufacturing processes and discovering new processes. Carry out hands-on laboratory work and develop processes through pilot and full scale manufacturing. This position requires a Ph.D. in Organic Chemistry and 0.5-5 years' experience. Background in polymer synthesis is desirable. Good lab practice and communication skills are essential.

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**Post-Doctoral Associate in Surface Chemistry (One Year Term)**

Work as part of a multidisciplinary analytical team supporting the Saphlex Product Development Group. Apply knowledge of surface science and chemistry to investigate aspects of adhesion and durability in Saphlex laminates with metallic glass. A Ph.D. in Physical Chemistry, Physics or Materials Science with 0.5 years' experience and background in surface chemistry or surface science is required.

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Solutia Inc., formerly the chemical businesses of Monsanto Company, is a new chemical company with a 96 year history and over $3 billion in annual sales. The Saphlex Division of Solutia Inc. is the world's leading supplier of plasticized polyvinyl butyral sheet used in the manufacture of safety glass for automobile windshields and architectural applications. The Saphlex Product Development group at our Springfield, Massachusetts R&D center is an interdisciplinary team engaged in the development of improved polyvinyl butyral resin processes and new Saphlex formulations. The group has the following immediate openings:

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**SYNTHETIC ORGANIC CHEMIST**—Kelly Scientific Resources has open positions for individuals with the following qualifications for assignment at Elk LIB Company in Indianapolis, Indiana. Ph.D. in Organic Chemistry (Synthetic), post-doc, or 0-3 years experience. A familiarity with vegetable oil chemistry (thesis or experience) and a solid understanding of analytical chemistry techniques and methods are essential. Job #09798-038.

**PHYSICAL SCIENTIST/SPECTROSCOPIST**

PhD. physical scientist for fundamental and applied research in the areas of Polymer Materials Characterization/Interactions of Polymeric Materials with Solids and Liquids. Must be "hands on" with good laboratory and analytical skills. Familiarity with Near IR and Raman Spectroscopy essential. Computer modeling of molecular interactions desirable. Fax resume 609-485-7149, email ykamath@triprinceton.org, write TRJ/Princeton, P.O. Box 625, Princeton, NJ 08542.

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**Chemical & Engineering News**

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Magellan Laboratories Incorporated, located in Research Triangle Park, N.C., is a provider of comprehensive analytical resources to the pharmaceutical industry. Our expertise and integrity are valued by clients who require a wide range of developmental testing needs that include: IND, NDA, ANDA stability testing, method development and validation, in-process testing, microbiology services, structural chemistry and much more.

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CHEMIST II
BS in Chemistry with 2-3 years experience in HPLC. Must have a strong pharmaceutical lab background. Other skills in combination: IR, TLC and ultraviolet spectroscopy dissolution. Job # HC-256-21.

SYNTHESIS SCIENTIST I
Ph.D in Synthetic Organic Chemistry with 0-3 years experience in organic syntheses. Experience with multistep synthetic reactions for small organic molecules. Experience in isolation, crystallization, and chromatographic purification required. Must be able to interpret NMR, MS, and IR spectroscopic data. Job # BW-256-28.

SCIENTIST I
Ph.D in Chemistry with 3-5 years experience in aerosols. Will conduct testing of pharmaceutical products, drug substances, or intermediates using complex methods. Job # HC-256-22.

STUDY DIRECTOR
Ph.D in Chemistry with 8+ years of pharmaceutical experience. Selected individual will be responsible for the overall direction, coordination, and evaluation of group leaders; supervision and coordination of activities of staff involved in pharmaceutical testing; and directing laboratory work to ensure highest quality scientific standards and regulatory compliance. Job # LC-256-10.

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Synthetic Organic Chemists
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Schweizerhall Development Company, a member of Switzerland's prestigious Schweizerhall Group and leading specialty chemical supplier, has several positions available for highly motivated development chemists at our new state-of-the-art laboratories in Greenville, S.C. Responsibilities involve all phases of synthetic projects from initial conception to the preparation of product for shipment in a cGMP environment. Good oral and written communication skills are essential. The successful candidates must have a MS degree in synthetic organic chemistry or BS degree with related industrial experience. Exceptional career opportunities are available for the following:

Reactor Laboratory Manager
The candidate will manage a new pilot reactor facility which has 50 and 100 gallon reactors in a cGMP environment. Demonstrated skills in process development, scale-up, and the management of a pilot reactor facility in the areas of a specialty organics or APIs are required. Knowledge of good manufacturing practices, technology transfer, and modern analytical techniques is highly desirable. The ability to work with teams of laboratory chemists and production personnel is essential.

Process Development Chemist
The candidate will develop chemical processes and prepare drug candidates for clinical trials in a synthetic organic laboratory under cGMPs. Demonstrated skills in process development within a kilo-laboratory are preferred. Knowledge of good manufacturing practices and modern analytical techniques is highly desirable.

We offer competitive salaries, a comprehensive benefits program, and an excellent work environment. Qualified candidates should forward resume and salary requirements to: Schweizerhall Development Co., 1106 Perimeter Road, Greenville, SC 29605, Fax: (864) 492-9215. An Equal Opportunity Employer.

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The National Ignition Facility (NIF) Project at LLNL is currently constructing the world’s largest laser and is seeking experienced process engineers to develop, implement, and optimize equipment for processing of large optics elements. We are seeking experienced professionals in the field of optical materials processing.

**Process Engineer**

Responsible for development and implementation of automated precision cleaning processes and fabrication of associated equipment to clean and coat large optics. Requires an MS, Ph.D. or equivalent in Chemical Engineering, Chemistry, or Materials Science with practical experience in process specification and implementation. Experience in manufacturing either optical glass or conventional glass products and familiarity with a variety of materials characterization methods are highly desirable.

Demonstrated skills in process definition/documentation and project management are necessary requirements for both positions. Successful candidates must possess excellent communication skills and be willing to work as a team member in a highly technical and schedule-driven environment.

We are also seeking qualified Chemists, Chemical Engineers, Metallurgists, Materials Scientists and Technicians.

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For consideration, send your resume to: Lawrence Livermore National Laboratory, Attn: Barbara Tuck, L-578, P.O. Box 808, R4367/4275, Dept. AJCEAK7BT, Livermore, CA 94551-0808. U.S. Citizenship and the ability to obtain a Department of Energy clearance is required. LLNL is an Equal Opportunity Employer.

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OCTOBER 20, 1997 C&EN
In the highly competitive global pharmaceutical marketplace, there are many "Bayer Facts" which distinguish us as a leader. To name a few, we are part of Bayer Corporation, a $32 billion international diversified organization and one of the most broadly-based healthcare companies in the U.S. Our Pharmaceutical Division has responsibility for the research and development of treatments for cancer, metabolic disorders, rheumatic diseases, infectious diseases, cardiovascular diseases and dementia.

We are seeking several Research Scientists to join our state-of-the-art facility in West Haven, CT.

RESEARCH SCIENTISTS-Ph.D
We are seeking highly motivated, creative and independent-thinking Organic Chemists to join our Institute for Chemistry. Areas of involvement include the design of therapeutic agents, focusing on the synthesis of peptidomimetics and heterocyclic molecules. Qualifications include a Ph.D in Organic Chemistry, with 0-2 years of experience, preferably in the pharmaceutical industry. A strong background in modern synthetic chemistry, modern chromatographic and analytical techniques including HPLC, NMR, and MS, is expected. Responsibilities include planning and conducting multistep syntheses, communicating results to project team members and supervising a laboratory with two associate scientists.

Please refer to Position RS/SC on resume.

RESEARCH ASSOCIATE
MEDICINAL CHEMISTRY
With a focus on designing therapeutic agents and peptidomimetics and heterocyclic molecules for the treatment of rheumatic, metabolic and CNS disorders, the selected candidates will design conduct multistep syntheses and communicate results to scientifically-oriented group members. Qualified candidates will have a BS/MS, 1-3 years of relevant experience, a strong background in modern synthetic chemistry and a thorough knowledge of modern chromatographic and analytical techniques (HPLC, NMR, and MS).

Please refer to Position RA/IMC on resume.

RESEARCH ASSOCIATE
SYNTHETIC CHEMISTRY
We are seeking a BS/MS Organic Chemist with a high level of motivation and 2+ years of synthetic organic chemistry experience in the pharmaceutical industry. Responsibilities will include the development and optimization of large-scale synthetic routes to preclinical drug candidates and bulk intermediates. Knowledge of analytical instrumentation is required; practical experience in scaling up multistep syntheses is highly desired.

Please refer to Position RS/SC on resume.

[Company logos and contact information]

In the highly competitive global pharmaceutical marketplace, there are many "Bayer Facts" which distinguish us as a leader. To name a few, we are part of Bayer Corporation, a $32 billion international diversified organization and one of the most broadly-based healthcare companies in the U.S. Our Pharmaceutical Division has responsibility for the research and development of treatments for cancer, metabolic disorders, rheumatic diseases, infectious diseases, cardiovascular diseases and dementia.

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Pharmacokinetics

The selected candidate will have a BS/MS in a biological related discipline with 5-10 years experience. A strong background in preclinical pharmacokinetics and/or toxicology is required, including experience in study coordination, data analysis and interpretation, and working knowledge of good laboratory practices (GLPs). Previous supervisory experience of technical staff is desired.

Combinatorial Chemistry

The selected candidate should have a BS/BA or MS degree in chemistry with a good understanding of organic chemistry and organic chemistry techniques. Experience in organic synthesis will be valuable. Previous experience in solid phase peptide synthesis and experience using computer controlled instrumentation will be valuable.

Organic/Medical Chemists

Selected candidates should have a BS or MS degree in chemistry with a working knowledge of organic chemistry. They should also possess good lab skills in synthesis including reaction setup, monitoring, and workup. Be able to routinely utilize the chemistry literature in the course of research. Previous experience with HPLC is desired, but not required. Good oral and written communication skills are required.

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CHEMIST/CHEMICAL ENGINEER

Small South Jersey Manufacturing company seeks: (1) Formulation chemist to run product development and QA Lab — soap industry experience a plus (2) Chemist or chemical engineer to run Quality/Safety Department. ISO 9000 experience a plus. Individuals sought should be multitask oriented. Benefits include medical, bonus, and profit sharing plans. Send resume and salary history to Dept. C, P.O. Box 70, Burlington, NJ 08016.

SENIOR PROCESS ENGINEERING SPECIALIST

Duties: Responsible for the development of catalytic distillation, ethylene, benzene, cumene and styrene technologies; analyze pilot plant data; develop design criteria for scale up; optimize process parameters and develop process schemes for commercial scale plant; lead process engineers in preparation of proposals and development of basic engineering and detailed engineering of catalytic distillation, ethylene, benzene, cumene and styrene plants. Requires: Masters in Chemical Engineering and 5 years experience as a Process Engineer. M.E. B.S. 7:15 A.M.-5:15 P.M., 7:15 A.M.-15 P.M. $65,000/Yr. Apply at the Texas Workforce Commission, Houston, Texas, or send resume and salary history to Dept. C, P.O. Box 70, Burlington, NJ 08016.

MOLECULAR BIOLOGIST

Leading manufacturer of clinical laboratory products has immediate opening for a molecular biologist in our Research and Development Department. The selected individual will have an advanced degree with a minimum of 5 years related experience. Flow cytometry experience a plus. Position requires — position interacts with marketing and manufacturing personnel. We offer a competitive salary and comprehensive benefits package which includes profit sharing and 401(k), medical, life and long term disability insurance; dental reimbursement; paid time off and holiday pay. Send resume and salary history in complete confidence to: Strick Laboratories, Inc. (Attn: Personnel Dept.), P.O. Box 37625, 14124 Industrial Road, Ontario, NE 68137-3625. Email: cshebeck@streck.com
SYNTHETIC ORGANIC CHEMIST
( BS/MS)

Transcell Technologies, Inc. is dedicated to developing carbohydrate-based pharmaceuticals. We currently have outstanding opportunities available for Synthetic Organic Chemists to work in our combinatorial chemistry program.

Individuals should have 0-5 years of experience in synthesis, purification and structural identification of carbohydrate compounds required for combinatorial chemical library projects. Qualified candidates must possess experience with purification (various chromatography techniques) and compound identification (NMR, IR, mass spectrometry). The successful candidate will be a good experimentalist, an independent thinker, and be interested in working in a multidisciplinary research group.

Transcell Technologies occupies modern corporate and research facilities in the Princeton area. We offer a competitive salary and a comprehensive benefits package including medical, dental, and vision insurance and a 401 (k) plan. Please send resume with salary requirement to: Transcell Technologies, Inc., Human Resources, 3 Cedar Brook Drive, Cranbury, NJ 08512. No agencies or phone calls, please.

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Synaptic Pharmaceutical Corporation is a research based company engaged in the exploration of new biological targets and therapeutic agents. Our approach to human target-based drug design has yielded important advances at the forefront of drug discovery.

Organic/Medicinal Chemists
Join our interdisciplinary team of scientists in a stimulating research environment which offers distinct opportunities to leverage your expertise.

Research Scientists
Requirements include PhD in synthetic organic/medicinal chemistry plus 2-4 years of postdoctoral experience. Excellence in broad areas of organic synthesis is essential, experience of new technologies such as parallel/combinatorial synthesis is preferred. The ability to communicate and effectively interact within a multi-disciplinary team is essential. Candidates must have a strong desire to make breakthrough contributions in drug discovery. (Dept-238)

Research Associates
Requirements include a BS/MS degree, a strong background in organic chemistry and knowledge of the current literature. Experience of multi-step organic synthesis, purification, and characterization (IR, NMR, MS, HPLC) of novel organic molecules is essential. (Dept-239)

We offer a competitive compensation and benefits package, including a 401(k) and stock option plan. For consideration, please send your resume in confidence to: Dept#(see positions above), Human Resources Manager, Synaptic Pharmaceutical Corporation, 215 College Road, Paramus, NJ 07652. An EOE. M/F/D/V.

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Manager of Bioinformatics
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As Manager of Bioinformatics, you will supervise computer infrastructure support to Genomics and Molecular Biology, as well as serve as the primary focal point between the scientific community and information technology services (data center, desktop computing and information engineering). In addition, you will provide appropriate staffing, project management and applications support within a matrix organization of several scientific groups and plan, initiate, develop and support systems activities for Molecular Biology and other scientific venues to ensure client satisfaction.

Qualifications include a BS in Computer Science, a scientific discipline or equivalent education/experience in Science and Information Technology, along with nine years' IT experience. Qualified candidates must possess extensive project management experience, including Microsoft client/server applications, relational databases, UNIX, C, PERL and Internet/Intranet Development. A background in standard sequence analysis methods/programs, C/C++ is desirable.

Interested individuals mail, fax or e-mail your resume* to: Parke-Davis Pharmaceutical Research, Human Resources Department, Job Code: DB-97317, 2800 Plymouth Road, Ann Arbor, MI 48105. Fax: (313) 998-3394. E-mail: resume@aa.wl.com

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Engineer Associate

Participate in product development activities for rubber applications. This includes developing the understanding of product performance and improving the value of rubber products. You will also support internal process development and co-development programs with customers.

This position demands a solid understanding of the fundamental principles of polymer rheology, rubber processing and polymer/rubber technology. You must have a breadth of experience with rubber compound performance and testing such as dynamic and fracture properties. You should also have experience with statistical experiment design and analysis techniques in product development; test development capability is a plus.

A Ph.D. in polymer engineering, polymer science, polymer chemistry or chemical engineering is preferred. You should also have at least three years' experience in the rubber industry, preferably in R&D. Extensive product development experience in tire and/or industrial rubber product areas is desired.

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catalysis and strategic chemicals.

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an R&D laboratory in Houston, Texas. The laboratory is a
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chemical engineers and supporting staff in an informal
environment. Its mission is front-end R&D in the field of
catalysis and strategic chemicals.

We are presently seeking an individual with broad experience in the synthesis, modification, and characterization of solid materials, especially those with potential uses as

Mixed-metal oxides would be highly desirable. It is anticipated that most applicants will have a Ph.D. in inorganic chemistry or materials science, but relevant experience will be considered more important than academic back­
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**ACADEMIC POSITIONS**

**THE PRESBYTERIAN COLLEGE DEPARTMENT OF CHEMISTRY** is seeking a qualified individual to fill a full-time, tenure-track faculty position beginning in late August, 1998. Position responsibilities include the teaching of lectures and laboratory sections in general chemistry and introductory organic chemistry, as well as advanced organic chemistry and introductory biochemistry, two courses that alternate with each other in fall semesters. Minimal qualifications of the person selected for the position are a Ph.D. degree in chemistry, a concentration of study in organic chemistry as indicated by the graduate transcript and/or laboratory and research experiences, excellent command of the English language with respect to both dictation and writing, and a sincere enthusiasm for teaching. Qualified individuals who are interested in applying for this position should formally indicate that interest with a letter and a curriculum vita sent to: Professor Jeffrey Byers, Search Chair, Department of Chemistry and Biochemistry, Miami University, Oxford, OH 45056. Review of complete applications including c.v., statement of teaching and research interests, undergraduate and graduate transcripts, and at least 3 current letters of recommendation must be received by December 1, 1997. Letters of recommendation must address ability or potential as a teacher and researcher and be sent directly by the authors. Professor Jeffrey Byers, Search Chair, Department of Chemistry and Biochemistry, Miami University, Middletown Campus, Middletown, OH 45056-0802. Fax: 937-941-5951; e-mail: web@middlebury.edu; Web: www.middlebury.edu/chem. Middletown Campus is an equal opportunity employer.

**MIDDLEBURY COLLEGE, TENURE-TRACK ORGANIC CHEMIST** The Department of Chemistry and Biochemistry invites applications for an Assistant Professor to begin fall, 1998. The successful candidate should have a Ph.D. and be committed to excellence in teaching and research at a predominantly undergraduate, liberal arts college. Teaching must include general chemistry and introductory organic chemistry. Experience in graduate student research is expected, area of research specialization open. Applications including c.v., statement of teaching and research interests, undergraduate and graduate transcripts, and at least 3 current letters of recommendation must be received by December 1, 1997. Letters of recommendation must address ability or potential as a teacher and researcher and be sent directly by the authors. Professor Jeffrey Byers, Search Chair, Department of Chemistry and Biochemistry, Middletown Campus, Middletown, MD 45056. Fax: 937-941-5951; e-mail: web@middlebury.edu. Middletown Campus is an Equal Opportunity Employer and it encourages applications from women and members of minority groups.

**CHEMICAL TECHNOLOGY: Department of Chemistry and Biochemistry, Miami University**

Middletown Campus: tenure-track opening at the assistant professor level. Ph.D. required in analytical or experimental physical chemistry. Teaching experience in chemical technology and industrial experience or strong ties to industry preferred. The Middletown Campus is a two-year campus that offers a newly established AAS degree in Chemical Technology, the first two-years of courses toward a B.A. in chemistry, and service courses. Duties will include teaching and developing courses in chemical technology, advising students, directing student projects and co-op experiences, and providing service to the chemical technology program. In place of a traditional research program, the development of a program of independent studies, fostering the development of the chemical technology program will be expected. More information concerning the requirements for this position can be found at our web site at http://www.midd.muohio.edu/mum/wmum.html. Applicants should submit their vita, and statements on a.) approaches to teaching, and b.) anticipated scholarly contributions to a chemical technology program and have three letters of recommendation sent to the Chemical Technology Search Committee, Department of Chemistry and Biochemistry, Miami University, Oxford, OH 45056. Review of complete applications will begin on December 15, 1997. The search will continue until the position is filled. Because Miami University is an Equal Opportunity/Affirmative Action employer, women and minorities are particularly encouraged to apply.

**POSTDOCTORAL ASSOCIATES**

**TEXAS A & M UNIVERSITY**

Vacancies exist for postdoctoral co-workers to participate in projects on solid phase synthesis of organic molecules. These positions are available immediately. Salary commensurate with experience and qualifications. Please fax or email information to Professor Kevin Burgess, Department of Chemistry, Texas A&M University, Fax: 409-845-8839; email Burgess@chemvax.tamu.edu. A/A/E.

**INDUSTRIAL POSITIONS**

**SENIOR SCIENTISTS**

(2 Positions Available)

- **Computational Chemistry**
  - The selected candidate will apply his/her expertise to generating combinatorial databases and developing strategies for generating native compound screening. Other responsibilities include applications of methods such as pharmacology and QSAR for analysis of chemical libraries for lead identification and optimization. A Ph.D. in Computational Chemistry, Computer Science or a related physical science is required. Applicant should have a strong background in artificial intelligence methodologies, such as neural networks and an active interest in chemoinformatic database development and mining.

Excellent communication skills are essential for both positions, as the incumbents must interact with Scientists at BIPI, our other research centers and collaborators from other organizations.

**Boehringer Ingelheim Pharmaceuticals, Inc.'s R&D facility is located on a campus-like setting in a beautiful area of Western Connecticut, bordering New York State. We offer excellent facilities and a supportive and challenging environment as well as a competitive salary package and generous relocation benefits to those that qualify. For an opportunity to contribute to our innovative programs, please send your curriculum vitae to:**

**Boehringer Ingelheim Pharmaceuticals, Inc., Dept. CP-98A, 900 Ridgebury Road, PO. Box 368, Ridgefield, CT 06877-0368; phone: (800) 344-4095 ext. 5201; email: cprice@bi-pharm.com. As a progressive health care company, we have a smoke-free environment. We are an equal opportunity employer. MF/DV.**
SYNTHETIC CHEMISTS

Zeneca Pharmaceuticals, a large international company dedicated to the challenge of discovering and developing important new therapeutic agents, is continuing to expand its Medicinal Chemistry Department at our U.S. corporate headquarters in suburban Wilmington, Delaware. Career opportunities are available for chemists who want the support and resources of a large corporation but desire the team approach and open idea-sharing environment of a smaller organization.

As part of a team of dedicated scientists, the successful candidates will be charged with discovering novel drug therapies under the direction of a supervising scientist. They will be key contributors to the synthesis, isolation, and characterization of novel organic compounds.

A strong background in organic synthesis including the ability to conduct multistep synthetich sequences, chromatographic purifications, and spectral interpretations is required. There are other positions open which require additional experience with combinatorial libraries and solid phase synthesis. Qualified candidates will have at least a BS degree in organic chemistry. Summer and winter internships are also available for students in the local area.

We offer an excellent compensation and flexible benefits program, including relocation, and opportunities for growth with one of the world's leading pharmaceutical research organizations. For consideration, please send your resume to: Darla Wilson, Human Resources, Code 98-01, Zeneca Pharmaceuticals, 1800 Concord Pike, P.O. Box 15437, Wilmington, DE 19850-5437. An Equal Opportunity Employer M/F/D/V.

CHEMISTS/CHEMICAL ENGINEERS

Bend Research, Inc., a recognized leader in the research and development of novel materials and processes for advanced separations and the delivery of bioactive compounds, is seeking

Ph.D. or M.S.-Level Chemists or Chemical Engineers to work on the development of novel, controlled- and immediate-release pharmaceutical formulations for human health. Available positions are:

Senior Analytical Chemist, with a Ph.D. or M.S. degree in Analytical Chemistry and at least 3 years' experience in pharmaceutical analysis, to work with formulation-development scientists. Must have strong problem-solving skills in physical-chemical analysis, chromatographic separations, and methods development.

Pharmaceutical Formulation Scientist, with a Ph.D. in Chemistry or Chemical Engineering, to work on pharmaceutical oral dosage-form development. Must have strong problem-solving skills, entrepreneurial interests, and ability to work on a team. Experience with tabletting, granulation, coating, or other pharmaceutical processes preferred.

Successful candidates will have good hands-on skills and will be skilled in designing experiments and interpreting and presenting their results in a reliable manner. In addition, successful candidates will possess good communications and entrepreneurial skills, the ability to learn quickly, the ability to work independently in a fast-paced environment, and the ability to work well on problem-solving teams with colleagues in diverse fields. A good sense of humor is a must.

Bend Research is located near Bend in Central Oregon, the premier recreational area in the Northwest, where the Beautiful Cascade Mountains meet the rivers and forests of a high-desert region with sunshine and blue skies. Bend Research offers competitive salaries and benefits, as well as excellent opportunities for growth.

Please send a cover letter, resume, list of professional references with telephone numbers, and, if within 3 years of your degree, college transcripts to:

BEND RESEARCH, INC. 9250 Research Road, Bend OR 97701-8599 E-Mail: maier@bendres.com

Home Page: http://www.bendres.com

Equal Opportunity/Affirmative Action Employer

Women and minorities are encouraged to apply.

ACADEMIC POSITIONS

ASSISTANT PROFESSOR

Applications and nominations are sought for an Assistant Professorship (tenure track) beginning in August, 1998. The University of Wyoming, invites applications from Ph.D. chemists and nominations for a renewable-track faculty position at the Assistant Professor level beginning August, 1998. We seek a faculty member with research interests in the materials or biological aspects of inorganic chemistry. The successful applicant is expected to establish a vigorous and creative research program that will attract extramural funding and capable co-workers, and to demonstrate excellence in teaching at both the graduate and undergraduate levels. Applicants should submit a letter of application, a complete curriculum vitae, copies of transcripts from undergraduate and graduate studies, a description of research proposals with equipment costs, and arrange to have three letters of recommendation sent to: Professor Eric A. Maatta, Chair Assistant Professor Search Committee, Department of Chemistry, College of Science, University of Wyoming, Laramie, WY 82071-3838. The closing date for receipt of applications is December 1, 1997. The University of Wyoming is an Affirmative Action/Equal Opportunity Employer.

KANSAS STATE UNIVERSITY

ASSISTANT PROFESSOR

The Department of Chemistry invites applications for tenure-track faculty position at the Assistant Professor level beginning in August, 1998. We seek a faculty member with research interests in the materials or biological aspects of inorganic chemistry. The successful applicant is expected to establish a vigorous and creative research program that will attract extramural funding and capable co-workers, and to demonstrate excellence in teaching at both the graduate and undergraduate levels. Applicants should submit a letter of application, a complete curriculum vitae, copies of transcripts from undergraduate and graduate studies, a description of research proposals with equipment costs, and arrange to have three letters of recommendation sent to: Professor Eric A. Maatta, Chair Assistant Professor Search Committee, Department of Chemistry, College of Science, University of Wyoming, Laramie, WY 82071-3838. The closing date for receipt of applications is December 1, 1997. The University of Wyoming is an Affirmative Action/Equal Opportunity Employer.

ANNOUNCEMENT OF OPENING

CHEMISTRY DEPARTMENT

INSTRUMENTATION FACILITIES MANAGER

Occidental College invites applications for a new position in NMR Spectroscopy and Electronics. In addition to the upkeep and repair of departmental instrumentation, duties include the operation, routine maintenance, and student training on two high-field Bruker NMR spectrometers that support laboratory courses and faculty research. Preference will be given to those individuals with experience with Bruker NMRs, Silicon Graphics workstations, and electronics repair. The minimum requirement is a BS in chemistry or equivalent with experience, higher degree preferred.

Interested persons should send a resume, college transcripts, and arrange for three letters of recommendation to be sent to the address below.

Dr. Phoebe K. Dea, Fletcher Jones Professor and Chair, Department of Chemistry. Occidental College, 1600 Campus Road, Los Angeles, CA 90041, Telephone: (213) 259-2625, Fax: (213) 484-9112, E-mail: dea@oxy.edu Occidental College is an equal opportunity employer. Women and minority candidates are encouraged to apply.

THE DEPARTMENT OF CHEMISTRY, UNIVERSITY OF WYOMING, invites applications from Ph.D. chemists and nominations for a renewable-track faculty position at the Assistant Professor level beginning August, 1998. We seek a faculty member with research interests in the materials or biological aspects of inorganic chemistry. The successful applicant is expected to establish a vigorous and creative research program that will attract extramural funding and capable co-workers, and to demonstrate excellence in teaching at both the graduate and undergraduate levels. Applicants should submit a letter of application, a complete curriculum vitae, copies of transcripts from undergraduate and graduate studies, a description of research proposals with equipment costs, and arrange to have three letters of recommendation sent to: Professor Eric A. Maatta, Chair Assistant Professor Search Committee, Department of Chemistry, College of Science, University of Wyoming, Laramie, WY 82071-3838. The closing date for receipt of applications is December 1, 1997. The University of Wyoming is an Affirmative Action/Equal Opportunity Employer.

The University of Wyoming is an equal opportunity employer. Women and minority candidates are encouraged to apply.
The University of Connecticut invites applications for a tenure-track faculty position at the rank of Assistant Professor. Special consideration will be given to applicants with a research focus in Biological Applications. Qualifications include a Ph.D. in chemical engineering or closely related area and a commitment to excellence in research and teaching. Target starting date is September 1, 2000. The city of Storrs is a lively, research-intensive university environment expected. The successful candidate will collaborate with researchers in several fields and develop courses in biochemistry and contribute to the organic and general chemistry courses and to colloquium courses. Research activity involving undergraduates is also expected. The Chemistry Department is ACS certified and has a full-time staff of seven. Letter of application, curriculum vitae, statement of research and teaching interests, and names of three references for Prof. Doug Cooper, Search Chair, Chemical Engineering Dept., U-22, 191 Auditorium Road, University of Connecticut, Storrs, CT 06269-3222. The review process will begin January 5, 2000, though applications will be accepted until the position is filled. A.A/E/OE (Search 99NASR)

Wabash College seeks applicants for a tenure-track position at the assistant professor level in biochemistry starting July 1, 1998. Undergraduate degree in chemistry and Ph.D. in biochemistry or related field required. A strong commitment to excellence in teaching and scholarship is required. A Ph.D. in biochemistry or related field is expected. The successful candidate will develop coursework in biochemistry and contribute to the organic and general chemistry courses and to colloquium courses. Research activity involving undergraduates is also expected. The Chemistry Department is ACS certified and has a full-time staff of seven. Letter of application, curriculum vitae, statement of research and teaching interests, and names of three references for Prof. Robert Olsen, Co-Chair, Chemistry Department, Wabash College, Crawfordsville, IN 47933-0832. Wabash College, a small liberal arts college for men, encourages applications from women and minority candidates.

The Science of Agricultural Genetics

Pioneer Hi-Bred International, Inc. is the world leader in agricultural genetics. Founded in 1926, we are a publicly held company that invests more than $115 million in research and product development. Pioneer branded products are grown in almost every crop-producing continent in the world. Our headquarters in Des Moines, Iowa, is adding to our research team.

Pioneer offers an opportunity to interact among talented colleagues with diverse specialties. We offer competitive salaries and excellent comprehensive benefits. Des Moines is a pleasant mid-sized city that ranks well above the national average in lifestyle and education. Our headquarters is located in a mix of beautiful open spaces and city advantages. For confidential consideration, send 3 copies of your resume and cover letter indicating job number to: Pioneer Hi-Bred International, Inc., Attn: Personnel, P.O. Box 1504, Johnston, IA 50131-1504.
Teaching responsibilities include science education, experience, and a willingness to contribute to an assistant professor level, effective August 1998. Masters Yale U. seeks a Ph.D. trained mass spectroscopist. contact: Walter McMurray, Ph.D., Director, MASS SPECTROSCOPIST The Cancer Center/Institutional review board. Letters of reference to: Southeastern OK State University. Mass Spectrometry Resource, Yale University School of Medicine, 333 Cedar Street, New Haven, CT 06510. Telephone: (203) 795-6169. Email: walter.mcmurray@yale.edu. Yale University is an Equal Opportunity/Affirmative Action Employer. Women and minorities are especially encouraged to apply.

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Innovative. Progressive. Responsive. This best describes our philosophy at Novartis Pharmaceuticals Corporation. Resulting from the merger of Ciba and Sandoz, Novartis is now the largest pharmaceutical company in the world. And we will continue to grow by discovering, developing and manufacturing innovative prescription drugs that treat a wide variety of diseases and conditions (including organ transplantation, cardiovascular diseases, schizophrenia, cancer, epilepsy and arthritis). We are helping millions of people live longer, healthier lives. To do this effectively, we are investing over $1 billion annually in pharmaceutical research and development.

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As a member of our Drug Metabolism and Pharmacokinetics Department, you will be directly involved in selecting the best drug candidates for promotion, and work in close collaboration with Discovery Research. Applicants are expected to complete their research on LC/MS/MS technologies to the pharmaceutical evaluation process (specifically rapid method development, high-throughput quantitation and pharmacokinetic analysis in a non-GLP setting). You will also be responsible for simple preparation techniques, HPLC and mass spectrometric sample analysis; and data interpretation and dissemination. Experience in the implementation of automated technologies for all of the above is highly desirable. Additional duties will include involvement in in vitro, in situ or in vivo pharmaceutical studies; and direct involvement in project teams is encouraged. Requirements include a Master's degree or equivalent in Analytical Chemistry or related discipline along with 6-8 years of relevant experience. The ability to work in a multidisciplinary environment with minimal supervision is important; a high level of self-motivation is a must.

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ACADEMIC POSITIONS

SOUTHEASTERN OKLAHOMA STATE UNIVERSITY

ACADEMIC POSITIONS

Chemistry and Science Education: Tenure-track, Asst. Professor level, effective August 1998. Masters required. Deadline May 1, 1998. All letters of reference to: R&D Staffing, Novartis Pharmaceuticals Corporation, 535 Morris Avenue, Building G2, Summit, NJ 07901. Please indicate position code on resume AND envelope. We are an equal opportunity employer M/F/D/V. We appreciate your interest in our Company. Unfortunately, we will only be able to respond to those candidates chosen for interviews or additional follow-up.

POLYMER SCIENCE AND ENGINEERING UNIVERSITY OF MASSACHUSETTS AMHERST

The University of Massachusetts Amherst invites applications for two faculty positions in the Department of Polymer Science and Engineering. We anticipate that one appointment will be at the associate professor level and the other at the assistant professor level. Both appointments will begin as early as September 1998. Applicants in all areas of polymer science and engineering will be considered; candidates with interest and experience in materials synthesis or polymer physical chemistry are especially encouraged to apply. Applicants should send a curriculum vitae, three letters of recommendation and statements of research and teaching interests to: Chair, Department of Polymer Science and Engineering, University of Massachusetts, Amherst, MA 01003. Interviews will commence by December 1. General information on the University of Massachusetts may be obtained from: http://www.umass.edu; general information on the Polymer Science and Engineering Department may be obtained from: http://www.pse.umass.edu. The University of Massachusetts is an Affirmative Action/Equal Opportunity Employer and members of minority groups are especially encouraged to apply.

POSTDOCTORAL POSITIONS available immediately to work on applications of magnetic resonance spectroscopy to protein dynamics and magnetic relaxation agents using a combination of high resolution NMR, solid state, and magnetic relaxation dispersion spectroscopy. Please send resume to Robert G. Bryant, Chemistry Department, University of Virginia, Charlottesville, VA 22901 or E-mail to RGB4@virginia.edu. The University of Virginia is an equal opportunity/affirmative action employer.
**ACADEMIC POSITIONS**

**JUNIOR RESEARCHER**, 80007, Hawaii Natural Energy Institute, SOEST, University of Hawaii, full-time, extramural funds, non-tenure track. Begin approx. 12/1/97. DUTIES: Design, fabricate, operate, & repair supercritical flow reactors designed to produce important new medical therapies. In 1996, we introduced our first proprietary product, AVONEX® (Interferon beta-la), a treatment for relapsing forms of multiple sclerosis, and achieved our goal of becoming a fully operational biopharmaceutical company. Today we are seeking the following committed professional to join our expanding global team.

**INDUSTRIAL POSITIONS**

**RESEARCH POSITIONS**

Tularik is a privately-held biotechnology company dedicated to the discovery and development of novel therapeutics. We are currently seeking the following professional to join our team:

**Senior Research Associates**

**Medicinal Chemistry**

As part of a multidisciplinary drug discovery team, you will design & synthesize novel organic molecules with potential biological activity. Candidates should possess a Master's degree in Medicinal Chemistry and experience in multi-step organic synthesis & current spectroscopic techniques. As part of a multidisciplinary drug discovery team, you will design & synthesize novel organic molecules with potential biological activity. Candidates should possess a Master's degree in Medicinal Chemistry and experience in multi-step organic synthesis & current spectroscopic techniques. Candidates should possess a Master's degree in Medicinal Chemistry and experience in multi-step organic synthesis & current spectroscopic techniques.

**Postdoctoral Research**

**Combinatorial Chemistry**

Our Chemistry Department seeks an individual with an interest in combinatorial chemistry and the direct application of basic research to drug discovery. (Position Code CEN1020-PDC)

**RESEARCH POSITIONS**

Tularik, Inc., Human Resources

**Creating Drugs That Regulate Genes**

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**OCTOBER 20, 1997**
Assay miniaturization. Faster compound screening. Focused on fluorescent assay technologies and an ultra-high throughput screening system designed to allow assay miniaturization. Aurora Biosciences Corporation is preparing to take full advantage of the vast opportunities being created by advances in genomics and combinatorial chemistry. These are the technological issues we’re addressing at Aurora. In collaborations with companies such as Bristol-Myers Squibb, Eli Lilly and Warner-Lambert, we are moving drug discovery technology into the new millennium, creating hope for millions and opportunities for a select few.

ASSOCIATE DIRECTOR, ENGINEERING
Supervise and manage a team of individuals in the development of complex robotic and electro-mechanical systems, including design and testing of mechanical instrumentation, software development, and subsystems. Requires a strong background in mechanical and/or electrical engineering. Knowledge of CAD and Project Management Tools, including SD Design Tools also necessary.

SOFTWARE DEVELOPER
Develop and implement efficient routing and scheduling algorithms in Unix environments and provide software tools to manufacture systems, develop programs for high throughput screening. Requires a BSEE or equivalent, and strong understanding of artificial intelligence techniques and statistical control techniques, as well as proficiency in programming in C++ and UNIX workstations is necessary.

ELECTRICAL ENGINEER
Design and implement electrical circuits for instrumentation and subsystems. Requires a BSEE or related degree and experience in the design and implementation of industrial sensors, actuators and control logic. Experience in circuit design and simulation, including PCB fabrication, instrumentation and biomedical laboratories, power distribution, and infrastructure is also necessary.

ELECTRO-MECHANICAL ASSEMBLER
Build electro-mechanical systems and subassemblies. Requires knowledge of mechanical systems and subsystems; integration of larger systems; and experience in the field of biotechnology automation. Requires solid understanding of industrial sensors, actuators and control logic. Experience in the design and implementation of industrial sensors, actuators and control logic is also necessary.

INTEGRATION/TOMOGRAPHY ENGINEER
Lead team of 3-5 individuals in developing reagent delivery and imaging systems. Requires a BSEE or related degree and experience in the development of complex robotic and electro-mechanical systems. Requires strong understanding of mechanical and/or electrical engineering. Knowledge of CAD and Project Management Tools, including SD Design Tools also necessary.

INTERNET SOFTWARE DEVELOPER
Develop software-oriented applications using Oracle host database and HTML/MAIL/WWW clients. Requires experience in graphical user interface design (GUI) design, including knowledge of human interface, elements of programming software and database design. Requires understanding of principles of scientific instruments and statistical processes, capability of programming in SQL and strong knowledge of database languages, Oracle Web Server. Web Objects, Microsoft Information Server and Vector server products also necessary.

SERVICE SUPPORT MANAGER
Provide computer installation management and technical support for high throughput screening installations. Requires 5+ years' experience servicing computerized laboratory equipment, programming, and UNIX workstations. Requires strong understanding of artificial intelligence techniques and statistical control techniques, as well as proficiency in programming in C++ and UNIX workstations. Must also have excellent customer service skills and be able to train operators and maintenance staff. Up to 50% travel required. Preference for technical skills in biology and/or medicine.

SENIOR RESEARCH ASSOCIATE,
COMPOUND ACQUISITION AND SUPPLY
Manage the storage, tracking and distribution of the company's growing compound collection. Requires a BSCS (graduate degree preferred), and 3+ years' related experience in the field of biotechnology automation. Requires strong understanding of industrial sensors, actuators and control logic. Experience in the design and implementation of industrial sensors, actuators and control logic is also necessary.

RESEARCH ASSOCIATE, CHEMISTRY
Responsible for synthesis of novel molecules and their characterization. Requires a BSc in Chemistry. Excellent organizational skills and experience in chemical analysis is also necessary. Knowledge of synthetic methods and software programs also necessary.

ASSOCIATE DIRECTOR,
SOFTWARE DEVELOPMENT
Responsible for database management. Requires a BSEE (graduate degree preferred), and experience in database management. Requires strong understanding of artificial intelligence techniques and statistical control techniques, as well as proficiency in programming in C++ and UNIX workstations. Must also have excellent customer service skills and be able to train operators and maintenance staff. Up to 50% travel required. Preference for technical skills in biology and/or medicine.

These are the technological issues we're addressing at Aurora. In collaborations with companies such as Bristol-Myers Squibb, Eli Lilly and Warner-Lambert, we are moving drug discovery technology into the new millennium, creating hope for millions and opportunities for a select few.
**Combinatorial & Medicinal Chemistry**

Ph.D., M.S. and B.S. level positions are available for experienced synthetic organic and medicinal chemists both in combinatorial and medicinal chemistry to develop and execute high-throughput synthesis of small molecule libraries, and to design small molecule therapeutic agents. The ideal candidates will have strong synthetic or medicinal and analytical skills as well as experience in the use of automated techniques in library synthesis and purification.

3-Dimensional Pharmaceuticals, Inc. is a drug discovery company engaged in the discovery of innovative pharmacetics by integrating advanced technologies in structure-based drug design, combinatorial chemistry, and chemi-informatics. Located in Exton, PA, 3DP offers a comprehensive compensation and benefits package. Qualified individuals are invited to send their cover letter and resume with contact data for three references to:

3-Dimensional Pharmaceuticals, Inc. Attn: Human Resources Department 665 Stockton Drive, Suite 104 Exton, PA 19341

http://www.3dp.com

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**ACADEMIC POSITIONS**

**university of the west indies mona, jamaica**

Lecturer/Senior Lecturer in Organic Chemistry

Department of Chemistry

Applicants should have a Ph.D. in Organic Chemistry and demonstrated experience in teaching and research. Qualified candidates are welcome in all areas of Organic Chemistry but those individuals with a commitment to undergraduate and graduate education and the establishment of a vigorous research program will be given preference.

**COMPETITIVE COMPENSATION PACKAGE**

Detailed applications (two copies) giving full particulars of qualifications, experience, date of birth, nationality, marital status, and names and addresses of three referees should be sent to the Campus Registrar (Attention: Assistant Registrar, Appointments), the University of the West Indies, Mona, Kingston 7, Jamaica. Further particulars are available from the same source or from the Association of Commonwealth Universities (46129), 36 Gordon Square, London WC1H 0PF (tel. 071 387 8572 Ext. 206; fax: 071 813 1055; email: appts@acu.ac.uk). In order to expedite the appointment procedure, applicants are advised to ask their referees to send confidential reports directly to the University without waiting to be contacted.

The final date for receipt of applications is 31 October 1997.

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**INDUSTRIAL POSITIONS**

**Colleges of Science and Engineering**

**PROFESSORSHIP OF CHEMICAL ENGINEERING**

Applications are invited from suitably qualified candidates for appointment to the newly created post of Professorship of Chemical Engineering. The appointee will be expected to lead the development of new courses in Chemical Engineering at both undergraduate and post-graduate levels, to contribute to the teaching of Chemical Engineering modules to existing courses and to develop his/her own research activity. In principle, applications will be welcome from applicants with a background in any branch of Chemical Engineering but experience in reactor and/or unit design and process optimisation and control operations as well as in the design and delivery of courses in Chemical Engineering will be particularly welcome.

The Professorship carries with it a significant start-up budget for equipment, donated by the University of Limerick Foundation and the appointee is expected to use this to help him/her to establish a research group of international standing. In this context, it should be noted that the University already employs a significant number of Chemical Engineers and Chemical Technologists with whom the appointee might expect to collaborate. The successful candidate will therefore be an experienced researcher of international standing with experience of supervising research in either an academic or industrial environment. If the candidate is an academic, it is desirable that the appointee will have had regular and demonstrable contact with the academic community and some experience in course delivery.


Application material is available from:

Personnel Department, University of Limerick, Limerick, Ireland.

Tel. +353-61-333644 Fax: +353-61-331881

Email: personnel@ul.ie

Closing date for receipt of completed application forms is: Friday 28th November, 1997.

Informal enquiries may also be made to the Dean of the College of Science, Professor Julian Ross (tel. +353-61-202641, fax +353-61-202602, e-mail: rossj@ul.ie), or to the Dean of Engineering (Professor Eamonn McQuade, tel. +353-61-202666, fax +353-61-202567). Further information about the University and the Colleges of Science and Engineering and their constituent departments can be obtained from http://www.ul.ie

The University of Limerick is an equal opportunities employer and is committed to selection on merit. As women are under-represented in the areas of Science and Engineering, particularly at this level, applications from women are particularly welcome.
CHEMISTRY FACULTY POSITION AT FLORIDA STATE UNIVERSITY
Florida State University Department of Chemistry invites applications for a tenure-track, associate professor level position in EXPERIMENTAL PHYSICAL CHEMISTRY. As part of our continuing expansion, we expect the hiring of several new faculty members at all levels. The Department is launching a new MS program in Chemistry and requires additional expertise in the National High Magnetic Field Laboratory, the Materials Research and Technology Center, the Institute for Science in Public Policy, Florida State Center for Creative Technologies, and the Center for Magnetic Resonance Imaging. Applications will be considered until the position is filled or until February 1, 1998.

RESEARCH FACULTY POSITION—CHEMISTRY/PHYSIOLOGY. The Department of Chemistry invites applications for a postdoctoral position. The research effort will be in the area of biophysical chemistry with the goal of understanding the mechanisms of action of various drugs. The successful candidate should have a strong background in biophysics and some experience with biophysical techniques. Send curriculum vitae, copies of publications, and the names and addresses of two references to: Dr. D.E. Williams, Department of Chemistry, Florida State University, Tallahassee, FL 32306-4400. Review of applications will begin immediately and continue until the position is filled.

MESA STATE COLLEGE — INORGANIC CHEMISTRY. MESA State College invites applications for a tenure-track, assistant professor position at the associate professor level. A Ph.D. in inorganic or organometallic chemistry by spring 1998 is required. The successful candidate will be expected to develop a strong research program and to include teaching upper division courses in inorganic and organometallic chemistry. Preference will be given to candidates with a strong background in experimental chemistry, with a particular interest in the area of coordination chemistry, bioinorganic chemistry, or inorganic materials. The successful candidate will be expected to teach courses in inorganic chemistry and general chemistry. Applicants must have a Ph.D. in chemistry and must be committed to excellence in teaching and scholarship. A Ph.D. is expected to be completed by the time of appointment. Applicants should submit a letter of interest, a curriculum vitae, a statement of teaching philosophy, evidence of teaching effectiveness, and three letters of recommendation to: Dr. Gary J. Poch, Chair, Department of Chemistry, MESA State College, 10500 E. Larkspur Lane, Colorado Springs, CO 80921. Application deadline is November 15, 1997.

AA/EOE

RESEARCH FACULTY POSITION—CHEMISTRY. The Department of Chemistry invites applications for a tenure-track, assistant professor position in analytical chemistry for fall 1998. Applicants must have a Ph.D. in chemistry and a strong commitment to undergraduate education. Preference will be given to candidates with a background in experimental analytical chemistry, surface science, or another field complementary to current faculty research. The successful candidate will be expected to establish a funded research program involving undergraduates. Penn State-Behrend is a four-year and graduate college offering the bachelor of arts and the bachelor of science degrees, and the master of arts degree. The apparatus, instruments, and reagents available to students are of the highest quality. A doctoral program is expected to begin within three years. Applications are invited for this position. Send CV, and names of three references to: Dr. David P. Duda, Chair, Department of Chemistry, Penn State-Behrend, One Behrend College Drive, Erie, PA 16410. Review of applications will begin immediately and continue until the position is filled.

POSTDOCTORAL RESEARCH ASSOCIATE. The Institute for Molecular Science invites applications for a postdoctoral position in photochemistry. The candidate will work on photodynamic therapy (PDT) and develop new techniques and applications of PDT. The candidate should have a Ph.D. in organic chemistry, biochemistry, or related fields. Send CV and names of three references to: Ms. Laura G. Sanchez, Institute for Molecular Science, 1101 Amagasaki, Nagano, Japan. Review of applications will begin immediately and continue until the position is filled.

THE UNIVERSITY OF TEXAS-PAN AMERICAN

ANALYTICAL CHEMISTRY

THE UNIVERSITY OF TEXAS-PAN AMERICAN invites applications for a tenure-track position at the assistant professor level beginning September 1, 1998. Appointments are available beginning January 1, 1998. The Department of Chemistry invites applications for full-time, nine-month, non-tenure-track faculty positions beginning Fall 1998. The Department of Chemistry invites applications for a full-time, nine-month, non-tenure-track faculty position beginning Fall 1998. The Department of Chemistry invites applications for a full-time, nine-month, non-tenure-track faculty position beginning Fall 1998.

UNIVERSITY OF FLORIDA

ANALYTICAL FACULTY POSITION

The Department of Chemistry at the University of Florida invites applications for a tenure-track position at the assistant or associate professor level, starting August 1998. The Department invites applications for a tenure-track position at the assistant professor level, starting August 1998.

DNA BENDING

A two-year NIH-funded postdoctoral position is available, starting May 1997. The position will investigate new methods of probing intron DNA bending (see J. Am. Chem. Soc. 1995, 117, 6096; ibid., 1996, 118, 7038). Experience with in vivo or in vitro techniques is preferred. Send CV (including publication list), and a list of three references (with phone numbers and e-mail addresses) to: Dr. D. Marko, Department of Chemistry, University of California, Davis, CA 95616. The University is an Equal Opportunity/Affirmative Action employer and encourages applications from women and minorities.

POSTDOCTORAL POSITION

Experience in air-sensitive monomer/polymerization synthesis techniques, polyurethanes, epoxies, and/or natural oil-based coatings is needed. Dr. Mark D. Gnanou, Department of Chemistry, School of Engineering, University of Central Florida, P.O. Box 165000, Orlando, FL 32816. The University is an Equal Opportunity/Affirmative Action employer and encourages applications from women and minorities.

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A two-year NIH-funded postdoctoral position is available, starting May 1997. The position will investigate new methods of probing intron DNA bending (see J. Am. Chem. Soc. 1995, 117, 6096; ibid., 1996, 118, 7038). Experience with in vivo or in vitro techniques is preferred. Send CV (including publication list), and a list of three references (with phone numbers and e-mail addresses) to: Dr. D. Marko, Department of Chemistry, University of California, Davis, CA 95616. The University is an Equal Opportunity/Affirmative Action employer and encourages applications from women and minorities.
Postdoctoral Position
Battelle, Pacific Northwest National Laboratory

Position is available for a candidate with a strong background in geochemistry related to ceramics and glasses. The successful candidate will develop basic understandings of distributions, solubilities, and releases of radionuclides and neutron absorbers in crystalline ceramics, glasses, and glasses by studying their local atomic environments. The duties include synthesis of pure crystals and ceramics, kinetic and thermodynamic study of radionuclide transfers between crystals and glasses at high temperatures, property characterization, durability studies, data reduction, report and paper writing. U.S. citizenship is required for handling Pu-containing samples.

Starting salary: $45,000/year or higher depending on qualifications and experience.

Initial appointment is for one year, renewable for an additional two years; potential to be promoted to permanent staff for the exceptional candidate when funding is available. Position Availability: December 1, 1997.

If interested, please provide your resume/CV and three letters of recommendation to: Dr. Xiangdong Feng, Battelle, PNNL, P.O. Box 999, Richland, WA 99353; Phone: (509) 373-7284; Fax: (509) 372-0682; Email: X_Feng@pnl.gov or contact Dale Doering, Associated Western University (AWU), P.O. Box 946-3800; Fax: (509) 946-3819; Email: ddoering@nw.awu.org

PNNL is an AA/EO employer and supports diversity in the workplace. M. F. V. D are strongly encouraged to apply.

ASSISTANT PROFESSOR
Department of Chemistry
The University of British Columbia

The Department of Chemistry at The University of British Columbia is seeking to fill a tenure-track opening at the assistant professor level starting July 1, 1998.

This appointment is in the area of synthetic organic chemistry. This position requires a Ph.D. degree, postdoctoral experience preferably, and an outstanding research record. The successful candidate will be expected to teach chemistry courses at the undergraduate and graduate levels. Candidates will be expected to develop an outstanding research program. The salary will be commensurate with qualifications. The proposed starting date for this position is August 21, 1998 or earlier. All interested applicants are asked to provide a professional curriculum vitae including teaching experience, a list of publications and an outline of a few pages describing their proposed program of research. Candidates for tenure-track positions should also request that three letters of reference be sent directly to the department. Candidates for tenure positions should include the names, addresses, and telephone numbers of at least three references. To ensure full consideration, applications must be received prior to January 31, 1998. Interviews may take place during the applications period, but a final decision will not be made until after the deadline for applications.

Applications should be addressed to:
Professor L. Weiler, Chairperson
Future Appointments Committee
Department of Chemistry
University of British Columbia
2036 Main Mall
Vancouver, BC
CANADA V6T 1Z1

FACULTY POSITIONS
(RANK OPEN)

DEPARTMENT OF MATERIALS SCIENCE AND ENGINEERING
UNIVERSITY OF ILLINOIS
AT URBANA-CHAMPAIGN

The Department of Materials Science and Engineering at the University of Illinois at Urbana-Champaign invites applications for regular, full time tenure-track or tenured faculty positions in Bio-materials and Polymers. To be considered for a tenure position, the applicant must have recognized national and international stature. Applicants for a junior position are preferred and should have strong qualifications for teaching materials science and engineering at the undergraduate and graduate levels. Candidates will be expected to develop an outstanding research effort of their own. Successful candidates must have a distinguished record of accomplishment in one or both of the areas specified.

Applicants must hold an earned Doctorate in an appropriate field. Salary and rank will be commensurate with qualifications. The proposed starting date for this position is August 21, 1998 or earlier. All interested applicants are asked to provide a professional curriculum vitae including teaching experience, a list of publications and an outline of a few pages describing their proposed program of research. Candidates for tenure-track positions should also request that three letters of reference be sent directly to the department. Candidates for tenure positions should include the names, addresses, and telephone numbers of at least three references. To ensure full consideration, applications must be received prior to January 31, 1998. Interviews may take place during the applications period, but a final decision will not be made until after the deadline for applications.

Applications should be addressed to:
Chair, Faculty Search Committee
Department of Materials Science and Engineering
1304 W. Green Street
Urbana, Illinois 61801
Telephone: (217) 333-1440
Fax: (217) 333-2736

The University of Illinois is an Affirmative Action, Equal Opportunity Employer.

Structure/Function of subcellular components

W.M. Keck Institute for Cellular Visualization at Brandeis University seeks a tenure-track assistant professor with research interests in structural/functional studies of sub-cellular/macromolecular machinery. We seek someone making imaginative use of existing methodologies or someone developing new technologies to study important biological structures: e.g., innovative light microscopy, probe microscopies, spectroscopic microscopy, mass spectrometry of macromolecules, electron tomography, laser tweezers or fluorescent probes. Candidates are expected to have a PhD (or the equivalent), postdoctoral experience, a strong record of research accomplishments, and skill at teaching both graduate and undergraduate students. Preference will be given to those with a background in the field of sub-cellular studies. We seek someone making imaginative use of existing methodologies or someone developing new technologies to study important biological structures: e.g., innovative light microscopy, probe microscopies, spectroscopic microscopy, mass spectrometry of macromolecules, electron tomography, laser tweezers or fluorescent probes. Candidates are expected to have a PhD (or the equivalent), postdoctoral experience, a strong record of research accomplishments, and skill at teaching both graduate and undergraduate students. Preference will be given to those with a background in the field of sub-cellular studies.


ACADEMIC POSITIONS

JUNIOR AND SENIOR FACULTY POSITIONS AT NORTHEASTERN UNIVERSITY.

The Northeastern University Chemistry Department continues to expand and establish multidisciplinary programs in materials science with the appointment of both a senior tenured associate or full professor and a tenure-track assistant professor starting August 1998. Applicants with research interests in any area of organic chemistry, or interdisciplinary research at the interface of organic and physical chemistry, will be considered. The successful candidate must be an American citizen or have permanent resident status.

University of Florida Faculty Position in Organic Chemistry

The Department of Chemistry at the University of Florida invites applications for a tenure-track position in Organic Chemistry beginning as Assistant Professor starting August, 1998. Applicants must have research interests in any area of organic chemistry, or interdisciplinary research at the interface of organic and physical chemistry, and be expected to develop a vigorous research program that will attract extramural funding. A strong commitment to teaching at both the undergraduate and graduate levels is also expected. Applicants should include a curriculum vitae, description of previous research and plans for future research, and three letters of reference. Materials should be sent to Dr. James B. Conder, Department of Chemistry, University of Florida, P.O. Box 117200, Gainesville, FL 32611-7200. Applications must be received by December 1, 1997, for full consideration.

Appalachian State University is seeking applicants for two tenure-track Assistant Professor positions starting August 1998. Priority will be given to candidates who (1) hold the Ph.D. in Inorganic Chemistry with current specialization in bioinorganic-relevant transcription factors or (2) hold the Ph.D. in chemistry with demonstrated experience as an introductory chemistry coordinator. The successful candidate must develop and teach introductory chemistry courses and research programs at the undergraduate level.

Appalachian State University is seeking applicants for two tenure-track Assistant Professor positions starting August 1998. Priority will be given to candidates who (1) hold the Ph.D. in Inorganic Chemistry with current specialization in bioinorganic-relevant transcription factors or (2) hold the Ph.D. in chemistry with demonstrated experience as an introductory chemistry coordinator. The successful candidate must develop and teach introductory chemistry courses and research programs at the undergraduate level.

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ASSISTANT PROFESSORS

Appalachian State University

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Appalachian State University is seeking applicants for two tenure-track Assistant Professor positions starting August 1998. Priority will be given to candidates who (1) hold the Ph.D. in Inorganic Chemistry with the ability to teach at both the undergraduate and graduate levels. All applicants must demonstrate a commitment to teaching excellence. Successful candidates will be expected to teach undergraduate and graduate courses.

Appalachian State University is seeking applicants for two tenure-track Assistant Professor positions starting August 1998. Priority will be given to candidates who (1) hold the Ph.D. in Inorganic Chemistry with current specialization in bioinorganic-relevant transcription factors or (2) hold the Ph.D. in chemistry with demonstrated experience as an introductory chemistry coordinator. The successful candidate must develop and teach introductory chemistry courses and research programs at the undergraduate level.

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ANALYTICAL CHEMIST, PH.D: Extensive experience in GC/MS, LC/MS; method development, mass spectral interpretation, and instrument operation. Expertise in the development of analytical methods for hazardous waste. Experience in preparing analytical reports, and having knowledge of environmental regulations.

ANALYTICAL CHEMIST, PH.D: Extensive experience in GC/MS, LC/MS; method development, mass spectral interpretation, and instrument operation. Expertise in the development of analytical methods for hazardous waste. Experience in preparing analytical reports, and having knowledge of environmental regulations.

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**SITUATIONS WANTED**

(ACS Members)


**PHYSICAL**


**POLYMER**


**COMPOSITE/FIBER SCIENTIST:** Eighteen years experience in plastics and fibers for thermostet and thermoplastic composites, interlaminar studies to improve adhesion, PAN stabilization and surface modification, waterbased emulsions of engineering resins for use as finishes. Also, cost analysis, R&D, ISO, propmg and negotiations with vendors. Box 302-B-9.


**THE OTHER**

PH.D. CHEMIST: 15 years experience in industrial related R&D. Strong background in solid, liquid, inorganic, organc polymer chemistry and instrumentation. Expertise in traditional and advanced surface processes and characterizations of composites, crytallography, morphology, tribology, permeation, thermal, electronic, mechanical performance, and non-rigidity. P.D. Box 1933, Reif, ME 04642. Phone: 573-364-6474; Fax: 573-341-2071; E-mail: xie@umr.edu.

**FINANCIAL ANALYST:** Seeking money management, industry or securities employment. Strong market writing and computing skills. Has chemical engineering degree and MBA. Salary and location flexible. Call (908) 988-9403. Box 408-A-10.


QUALITY PROFESSIONAL: with expertise in ISO 9001/14001 auditing/consulting with environmental regulatory and analytical laboratory experience including FDA/GMP/Supertend is available to meet larger or small company needs. Call (217) 482-5318 for immediate consideration. Box 404-A-10.

**SITUATIONS WANTED**

(ACS Members)


**PH.D. ANALYTICAL/ENVIRONMENTAL:** Seeks nontraditional position: technical training, editing, law, etc. Management, editing, and teaching experience 8 yrs. Internet literate. IBM and Mac exp. Knowledgeable in GC, numerous detection methods, HPLC, UV-VIS, chemiluminescence. Contact (303) 444-6963. Box 403-D-8.


**GLOBAL MARKETING EXECUTIVE:** 30+ years marketing and sales experience in consumer products, food processing, fiber industries internationally. Highly successful introducing new businesses/products, resurrecting product lines. Seek senior marketing/sales position. Relocation, travel OK. Contact Marketing Executive, 40 Bridge Street, Sewaren, NJ 07077. Phone (732) 626-0136; Fax (732) 634-0586.

**CONSULTANT**

**EPOXY CONSULTING**


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Scale-up, troubleshooting, design, size distribution, purity and polymorphs. Product microanalysis. Laboratory experimentation. In-house seminars. Dr. Wayne J. Geach, 708-749-7200, Fax 708-749-7208.

**NEW BUSINESS DEVELOPMENT:** Over 30 years experience in plastics and fibers for thermoset and thermoplastic composites, interfacial studies to improve adhesion, PAN stabilization and surface modification, waterbased emulsions of engineering resins for use as finishes. Also, cost analysis, R&D, ISO, propmg and negotiations with vendors. Box 302-B-9.

**SECONDARY ION MASS SPECTROMETRY:** Available on contract basis. An "inch", advertisement measures 7" deep on one column. Additional space in even lineal inch units. Maximum space—4" per Directory per issue. Set ads due 21 days in advance of publication. Plated ads, 17 days. Centcom Ltd., 676 East Swedesford Road, Suite 202, Wayne, PA 19087-1612 Matt McCloskey 610-966-8061.
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<tr>
<td>Thermogen Inc</td>
<td>65</td>
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<tr>
<td>Tripos Associates, Inc.</td>
<td>OBC</td>
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<tr>
<td>+Union Carbide Corporation</td>
<td>48</td>
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<tr>
<td>Valco Instruments</td>
<td>59</td>
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<tr>
<td>Wacker Chemicals (USA) Inc.</td>
<td>69</td>
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<tr>
<td>+Weyl Gmbh</td>
<td>83</td>
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<tr>
<td>+Wilshire Chemical Company</td>
<td>84</td>
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<tr>
<td>Zeneca Specialties</td>
<td>45</td>
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<td>*See ad in Chemyclopedia.</td>
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<tr>
<td><strong>Companies so marked appear in the Demographic edition.</strong></td>
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<tr>
<td><strong>Companies so marked appear in the foreign edition only.</strong></td>
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