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## POSITIONS AVAILABLE

### CHEMICAL ENGINEER (MULTIPLE OPENINGS):

Responsible for batch chemical manufacturing processes as they relate to specialty/performance chemicals adhesive and sealant products; Responsible for providing engineering expertise to ensure that our processes are in compliance with U.S. government regulations and specifications; Provide relevant inputs to chemical batch processes, analyzing operating procedures, equipment and machinery functions to reduce processing time and costs, performing test and taking measurements through stages of chemical production. Must have a Masters Degree in Chemical Engineering, or closely related discipline, or foreign degree equivalent. Hrs. 8:30a-5:30p/M-F. Send resume to Paul Norfleet, HR Mgr., Chemence, Inc., 185 Bluegrass Valley Parkway, Alpharetta, GA, 30005 and reference Ad. AK/KC001.

### MERCK, ENGINEER/SCIENTIST

Merck & Co., Inc. is a global leader in the research, development, manufacturing and delivery of world-class pharmaceutical products and services. That's just one of the reasons we've consistently been recognized by Fortune as one of "America's Most Admired Companies." At Merck, we know that our talented workforce, across the globe, is the driving force behind our history of innovation. Now, the opportunities for career fulfillment in Merck's high growth, global pharmaceutical business have never been better. We are currently seeking the following Engineers/Scientists in the Pharmaceutical Technology and Engineering Department at our West Point, PA location (25 miles NW of Philadelphia).

- Manager or Senior Project Engineer/Scientist
- Project Engineer/Scientist
- Senior Engineer/Scientist
- Staff Engineer/Scientist

In these positions, you will be responsible for process design and capital project management, or for in-line process support and new product technology transfer for Merck pharmaceutical manufacturing plants of solid dosage forms and non-sterile oral suspensions worldwide. Each of these positions includes responsibilities starting with process development interface and continuing engineering scale-up and product demonstration for launch readiness. These positions also provide multiple avenues for personal and professional growth, as well as opportunities for domestic and international travel.

To qualify for the above positions, you should have the noted qualifications and experiences in pharmaceutical process engineering project development and execution, or solid or non-sterile liquid dosage form technology development, transfer, support, or

manufacturing. Motivated individuals with experience in food, oil, and fine chemicals industries will also be considered.

Key qualifications include: exceptional leadership and interpersonal skills; in-depth knowledge of pharmaceutical science and manufacturing unit operations; equipment specification and design skills; experience in project scheduling and resource management, strong communication skills, analytical methodology and troubleshooting knowledge; equipment qualification; SLC methodology and a solid working knowledge of GMP and process and cleaning validation requirements (or ISO requirements).

Depending on the position, a qualified candidate will possess a BS to a PhD in an appropriate engineering/scientific field, and a minimum of 1-6 years experience in product development; production support; or acceptable related experience.

Merck offers an excellent salary and benefits package as well as a tremendous opportunity for professional growth. Interested candidates should apply on-line at [www.merck.com/careers](http://www.merck.com/careers) and search for job number SORC0037. We are an Equal Opportunity Employer, M/F/D/V.

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**Lecturer/Senior Lecturer/Associate Professor in Bioengineering**  
Division of Chemical Engineering, School of Engineering

**The role:** Teach in the discipline of chemical engineering, particularly the new masters program in biomedical engineering; conduct research in an area of bioengineering, ideally with medical applications eg. tissue engineering, drug delivery systems, modelling complex biological systems; develop links with the medical engineering program and the newly established Australian Institute for Biomaterials and Nanotechnology.

**The person:** PhD in chemical engineering, bioengineering or a related field; strong research record relative to level of experience; excellence in teaching and research in the relevant discipline; ability to establish effective working relationships as part of an interdisciplinary team.

**Remuneration:** AUD\$65,249 – \$77,483 p.a. (Level B) or AUD\$79,930 – \$92,164 p.a. (Level C) or AUD\$96,242 – \$106,029 p.a. (Level D), which includes 17% employer superannuation contributions. Continuing, full-time appointment at Academic Level B, C or D. Level of appointment will be commensurate with qualifications and experience.

**Contact:** Prof Jim Utster, telephone +61-7-3365-3616, email [j.utster@cheque.uq.edu.au](mailto:j.utster@cheque.uq.edu.au).

**Applications close:** 15 August 2003.

**Reference No:** 3008439.

The University is an equal opportunity employer.

**How to apply:**

- visit [www.jobsatUQ.net](http://www.jobsatUQ.net) to obtain a copy of the position description and selection criteria
- include a covering letter, curriculum vitae and statement addressing the selection criteria
- quote the vacancy reference number on your covering letter

**THE UNIVERSITY OF QUEENSLAND AUSTRALIA**

### GE SILICONES, PRODUCT DEVELOPMENT CHEMIST

GE Silicones, a division of GE Specialty Materials, headquartered in Waterford, NY, a world leader in the manufacture and sale of silicone products in the automotive, personal care, construction, labelsystems, electronics and consumer hardware industries, has an opening in their Waterford, NY location.

Product Development Chemist

You will be required to provide technical leadership in design and commercialize of new products and platforms, including developing new materials for growth, working with customers, commercial team to define new opportunities, and working with suppliers to find cost effective material solutions. Invent, develop and apply new technology to specialty materials using statistical design of experiments to deliver Six Sigma performance. Scale-up products from laboratory to manufacturing floor, ensuring consistent manufacturing performance of products.

Requirements include PhD in Chemistry, Polymer or Material Science, and minimum of 2 years industrial experience in product development, including silicone/organosilicone monomer/polymer synthesis, material characterization and experience with chemical processes. Strong verbal, written and presentation skills are essential.

Apply for the above position by referencing GESM/322070/WB461 in the subject line of your e-mail message. Please use the following e-mail address: [opportunities@gecareers.com](mailto:opportunities@gecareers.com) (TEXT ONLY, NO ATTACHMENTS).

We offer a competitive salary, outstanding benefits package and the professional advantages of an environment that supports your development and recognizes your achievements. We are an equal Opportunity Employer.

### EXPONENT, SR. MANAGING ENGINEER, THERMAL SCIENCES

Exponent is a leading independent consulting firm providing solutions to complex engineering and scientific problems. We are currently seeking a Senior Managing Engineer to provide leadership, vision and direction to our Menlo Park office.

This consultant will be responsible for attracting and developing clients, managing a team of engineers, and providing consulting services in the broad area of thermal sciences. Consulting services will include: planning and executing experimental test programs; performing analytical and numerical analyses; reconstructing accidents (failures) involving industrial processes, combustion systems, turbines, pressure vessels, boilers, consumer products and appliances; and communicating findings in the form of reports or presentations to our clients or a public forum such as a government entity or in a legal setting. This position offers an opportunity to expand the breadth of the individual's practice by working with Exponent's multiple disciplines to solve a wide variety of complex problems.

This position requires a Ph.D. in Engineering with at least ten years of professional experience in issues related to thermal sciences, fire science and combustion. The candidate must have developed client relationships, be a recognized expert in his/her field with a strong publication history, be able to attract projects to support full-time staff, and have the skills needed to manage a group of highly motivated professionals. Testifying experience in trials and/or before government panels is a plus. The ideal candidate will be expected to expand his/her own expertise through peer-reviewed publications, and to develop the careers of support staff.

With experience and data gathered from thousands of fire- and explosion-related investigations, Exponent assists its clients in evaluating failures and in instituting preventive measures. The work experience of Exponent thermal science engineers ranges from residential and vehicle fire analysis to the investigation of fires and explosions at chemical processing, petrochemical,

manufacturing, and other industrial facilities.

Exponent offers an excellent benefits package, including company-subsidized medical, dental, vision, life insurance, and a 401(k) Retirement Program with a 7% company contribution. These benefits become effective on the first day of employment. We are an Equal Opportunity Employer. For consideration, please contact:

Human Resources

Req. #1347KB

Exponent

149 Commonwealth Drive

Menlo Park, CA 94025

Fax: 650-328-3049

[careers@exponent.com](mailto:careers@exponent.com)

[www.exponent.com](http://www.exponent.com)

### GAS EQUIPMENT ENGINEERING CORPORATION, PROCESS ENGINEER

Gas Equipment Engineering Corporation is a premier manufacturer of plants for manufacture of industrial gases. We currently have a need for a Chemical/Mechanical Engineer with experience in cryogenic air separation plants, PSA oxygen/nitrogen units, membrane nitrogen production units, automation/PLC programming and troubleshooting skills. Job may include up to 30% travel, some international. Salary commensurate with experience and qualifications. US Citizenship required.

Please e-mail resume to [info@gasequip.com](mailto:info@gasequip.com) or fax to (203) 878-4123.

## ASSISTANT PROFESSOR OF CHEMICAL ENGINEERING

The department of Chemical Engineering at Lafayette College invites applications for a tenure-track faculty position at the assistant professor level. The successful candidate should have a BS in Chemical Engineering, earned doctorate in Chemical Engineering or a closely related field, and be able to teach core undergraduate chemical engineering courses and laboratories. Those with industrial and/or teaching experience are encouraged to apply. Applications from people of color and women are most welcomed.

Lafayette College is a small, residential college where faculty/student interaction is highly valued and is a necessary part of the academic program. The college is suitable for faculty who can balance the demands of teaching and scholarship and would be interested in interdisciplinary teaching.

Send your curriculum vitae, a statement of teaching interests, research plan, and contact information for three professional references to Dr. Javad Tavakoli, Chair, Search Committee, Department of Chemical Engineering, Acopian Engineering Center, Lafayette College, Easton, PA 18042. Review of applications will begin October 31, 2003. The College is an equal opportunity and encourages applications from women and minorities.

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**AMGEN, ENGINEER II/III**

Amgen, the world's largest biotechnology company, is currently seeking an Engineer II/III to join our Juncos, Puerto Rico facility. In this role, you will provide engineering and technical support to the purification and bulk filtration areas of a new cell culture manufacturing facility for the production of bulk biologics. Responsibilities include overseeing the system ownership function of ensuring appropriate maintenance, monitoring, change control and performance of purification processing equipment systems; evaluating and/or modifying standard engineering techniques; and recommending operating policy modifications. Requires a Bachelor's degree in Engineering, 6-8+ years experience in an FDA-regulated operations/manufacturing environment and a detailed knowledge of purification strategies and process equipment, design and operation (chromatography systems, columns and column packing methodologies, tangential flow and dead end filtration). Thorough understanding of P&IDs, Process Control and Automation specifications, as well as GMP design considerations is essential, as is expertise in GMP compliance, change control, validation and project management. Direct experience with regulated environments (cGMP, OSHA, EPA) is required, and experience with direct support of a computerized maintenance management system is preferred. Fully bilingual (English/Spanish) candidates are desired and strongly encouraged to apply.

Visit our website at [www.amgen.com](http://www.amgen.com), referencing Job ID: amge-00000751, and apply online. EEO/AA

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**H2GEN INNOVATIONS, INC., CONTROLS TEAM MEMBER**

A dynamic new engineering and manufacturing company in Alexandria, VA developing hydrogen generation equipment seeks a talented, energetic and resourceful engineer for full-time employment to join their controls team as a field implementation, installation and automation engineer beginning immediately. The successful individual will have proven skills and experience in field commissioning, start-up and technical support of PLC based hardware and equipment. The individual's experience in field commissioning units will be either with chemical or manufacturing plants, process units or equipment. The individual will have a good understanding of Siemens Step 7 PLC & HMI programming, and experience with hardware elements associated with PLC platforms. Familiarity with electrical systems and wiring, basic instrumentation and sensors is desired. Experience with transportable, turnkey systems is highly desired. The ability to understand complex processes and troubleshoot systems of equipment from various manufacturers is desired. A bachelor's degree in chemical, mechanical or electrical engineering with at least 2 years experience is required, and an advanced degree is desired. The candidate must be willing to travel and work in a dynamic team environment. The compensation package will include competitive salary, comprehensive benefits, 401K, 2 weeks annual paid vacation, holidays and sick leave. Generous stock-option bonuses will be awarded for high performance.

Send resume and salary requirements to: [lomax@h2gen.com](mailto:lomax@h2gen.com)

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**AMGEN, MANAGER, AREA SPACE PLANNING**

Amgen, the world's largest biotechnology company, is currently seeking a Manager, Area Space Planning to join our Juncos, Puerto Rico facility. Position is responsible for the management and development of strategic facility plans for the Amgen Manufacturing, Limited site. Your primary focus will be overseeing the development of strategic, proactive facility management plans that will direct the construction timing and scope of Amgen facilities worldwide. Working closely with all levels of the client organization to translate business requirements into highly functional facility plans, you will also be responsible for communicating these plans throughout the Amgen organization. Requires a Bachelor's degree in Architecture, Facilities Management, Business or a related field, and 5-10 years experience programming and designing highly technical buildings with an emphasis in biotech facilities. Experience managing technical professionals is preferred, and strong skills in negotiating and assessing the business requirements of client groups while balancing financial requirements are essential. Fully bilingual (English/Spanish) candidates are desired and strongly encouraged to apply.

Visit our website at [www.amgen.com](http://www.amgen.com), referencing Job ID: amge-00000318, and apply online. EEO/AA

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**ACADEMIC OPENINGS**

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**CANADA RESEARCH CHAIR (CRC) IN "AIR QUALITY AND POLLUTION CONTROL ENGINEERING"**

The Centre for Environmental Engineering Research and Education (CEERE) in the Faculty of Engineering at the University of Calgary invites applications for a Canada Research Chair (CRC) in air quality and pollution control engineering. The appointment will be at the Professor rank (Tier 1 CRC) or Professor/Associate Professor rank (Tier 2 CRC) in a department of the Faculty of Engineering (Chemical & Petroleum, Civil, or Mechanical & Manufacturing). The candidate should hold an earned doctoral degree, preferably on an environmental engineering topic. The candidate will have an excellent to outstanding record of accomplishment in research and teaching related to environmental engineering, particularly in air quality and pollution control in the energy industry. As an active member of CEERE, the candidate will provide strong initiative and leadership in research and education of graduate students pursuing the environmental engineering specialization. The candidate will develop research programs in one or more areas relevant to the air quality issues for the energy industry in Alberta, such as greenhouse gas emissions and climate change; atmospheric transport of primary/secondary pollutants; human health impacts of air pollution; development of innovative and cost-effective technologies for air pollution prevention and control; air quality issues in energy recovery, production and combustion; development of remote sensors for atmospheric pollutants; spatial and temporal modelling and analysis of environmental systems.

The candidate will be required to prepare the CRC nomination package for submission by the University of Calgary. Information on the Canada Research Chairs Program, established by the Canadian government for fostering research excellence in Canada, is available at their Website ([www.chairs.gc.ca](http://www.chairs.gc.ca)). The Canada Foundation for Innovation ([www.innovation.ca](http://www.innovation.ca)) provides infrastructure support to Canada Research Chairs. The infrastructure and research laboratories of the Calgary Centre for Innovative Technology ([www.eng.ucalgary.ca/CCIT/](http://www.eng.ucalgary.ca/CCIT/)) in the University of Calgary will be available to the successful candidate.

With this prestigious appointment in the Faculty of Engineering, the University of Calgary aims to build on its existing strength in "Energy and the Environment", as described in its recent academic plan "Raising Our Sights" ([www.ucalgary.ca/unicomm/raising](http://www.ucalgary.ca/unicomm/raising)). Several well-established multi-disciplinary groups in the University of Calgary are pursuing research projects on a wide range of environmental topics. CEERE was created by the University of Calgary for undertaking innovative environmental engineering research and development, with the support of leading energy and environmental businesses and organizations.

Calgary is situated within one hour driving distance of Banff National Park and other provincial parks in the Canadian Rockies. With a population approaching one million, Calgary is the centre of the Canadian hydrocarbon energy industry as well as the "engineering capital" of Canada. The successful candidate will be expected to closely interact with energy corporations and research organizations located in Calgary, in Alberta, and in Canada.

Applicants should submit a curriculum vitae, a research plan which would form the basis for CRC nomination, a statement of teaching philosophy, copies of all academic transcripts, and the names and addresses of three referees to:

**Professor Anil K. Mehrotra, PhD**  
**Professor & Director of CEERE**  
**University of Calgary**  
**Faculty of Engineering**  
**Calgary, Alberta T2N 1N4**  
**Canada**

The application deadline is October 15, 2003. Subject to the success of the candidate's CRC nomination, the appointment could commence as early as September 2004.

Canada Research Chairs are open to individuals of any citizenship.

The University of Calgary respects, appreciates and encourages diversity.

### RICE UNIVERSITY, CHAIR OF THE DEPARTMENT OF BIOENGINEERING

Rice University invites applications for the position of Chair of the Department of Bioengineering. Applicants should have a strong multidisciplinary background in their respective field and substantial experience in independent research and in obtaining competitive funding. We are particularly interested in candidates with exceptionally strong research expertise who can provide leadership for the continued development of the well-established department.

The successful applicant would facilitate and participate in our established research collaborations with institutions at the adjacent Texas Medical Center, groups at the Institute of Biosciences and Bioengineering at Rice University and with the Keck Center for Computational Biology in Houston. Applicants would be expected to develop and teach courses in the areas of biomedical engineering. Applicants should send a curriculum vitae, which includes a list of publications, a statement describing their research program and names of at least three references to:

**Rice University**  
**Department of Bioengineering MS-142**  
**Attn: Professor David Hellums, Chair**  
**P O Box 1892**  
**Houston TX 77251-1892**

Applications will be reviewed as received and should be forwarded by October 1, 2003.

Rice University is an equal opportunity employer.

### THE DEPARTMENT OF CHEMICAL ENGINEERING AT COLORADO STATE UNIVERSITY

seeks applications and nominations for two tenure-track chemical engineering faculty positions at the assistant or associate professor level. Successful junior candidates will develop well-funded research programs and actively participate in education and scholarship activities. Candidates with more experience must have a national/international reputation in their research area. There are no restrictions on research area for candidates; however, applicants with research interests in nanotechnology, molecular engineering, or biological engineering are particularly encouraged. A Ph.D. or equivalent in chemical engineering, biomedical engineering, or related field is required. Important information regarding the application process may be found at <http://chesearch.engr.colostate.edu>. Electronic submission of application materials at this web site is strongly preferred. If necessary, hardcopy applications may be sent to: Search Committee Chair, Department of Chemical Engineering, Colorado State University, Fort Collins, CO 80523-1370. Review of applications will begin October 1 and continue until the position is filled. Colorado State University is an Affirmative Action/Equal Opportunity Employer and encourages qualified women and minorities to apply.

### LOUISIANA STATE UNIVERSITY, ASSISTANT/ASSOCIATE PROFESSOR

Department of Mechanical Engineering  
Baton Rouge, Louisiana 70803  
(Tenure-track)

Required Qualifications: Ph.D. or equivalent degree in Mechanical Engineering or related field. Additional Qualifications Desired: research emphasis in the nano-imprint lithography, nanomolding, or a combination of nanoscale and microscale molding, with particular emphasis on high aspect ratio molding of polymers and ceramics on these scales. This position has been made available through the Governor's Biotechnology Initiative (GBI), directed toward enhancing the state's technology base in biotechnology. The candidate must be capable of building a highly competitive research program and will be responsible for teaching courses at the undergraduate and graduate level. LSU has developed a strong interdisciplinary program in

microsystems for biology applications (BioMEMS; [www.cmm.lsu.edu](http://www.cmm.lsu.edu)). This is a tenure-track position and preference will be given to candidates at either the Assistant or Associate Professor level. Female and minority candidates are encouraged to apply. Salary will be commensurate with qualifications and experience. Application package should include: 1. Resume (including e-mail address); 2. Summary proposal/individual proposals on research topics that the candidate wishes to pursue; 3. Summary of the applicant's teaching philosophy. In addition, three letters of reference should be sent to the search committee at the address below. Application deadline is April 1, 2004, or until candidate is selected. Please submit to: GBI Faculty Search Committee, Professor Michael C. Murphy, Department of Mechanical Engineering, 2508 CEBA, Louisiana State University, Ref: Log #1062, Baton Rouge, LA 70803.

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