

POSITIONS AVAILABLE

SENIOR DEVELOPMENT ENGINEER

Description: Baker Petrolite, a Baker Hughes Company, has an immediate opening for a Sr. Product Specialist/ Sr. Development Engineer at the Sugar Land, Texas location. Education: PhD in chemical engineering or chemistry or higher degree. Prefer 2+ years of oilfield experience in the area of gas handling and processing. However, all outstanding candidates will be considered. Knowledge: Excellent written and verbal communication skills. Strong analytical skills and ability to conduct independent research projects. Must be a good team player. Responsibilities: Responsibilities include field technical support and service, development and commercialization of new products and technology, presentation of training seminars and publication of technical papers in the area of hydrogen sulfide scavengers. This position will require 25-30% travel to field locations. The candidate should be a strong experimentalist, some modeling experience a plus. The ideal candidate will have experience in the oilfield chemicals, industrial gas scrubbing operations, gas-liquid mass transfer, reaction kinetics, and contact tower design. **E-mail resume to joyce.buckalew@bakerpetrolite.com or fax to 281-275-7392.**

OLIN CHLOR-ALKALI DIVISION has 2 immediate openings in safety; 1 position (Olin Responsible Care Manager) in Niagara Falls, NY and 1 (Safety Manager) position located at the Charleston, TN facility. **To view job description and apply visit www.chattanoogajobs.com.** Please list in cover letter where you saw our ad.

ACADEMIC OPENINGS

FACULTY POSITIONS IN NANOTECHNOLOGY AT THE USC VITERBI SCHOOL OF ENGINEERING

The USC Andrew and Erna Viterbi School of Engineering invites applications for tenure-track positions in the area of Nanotechnology. This targeted faculty hiring is part of a new strategic initiative in the Viterbi School in the area of Nanotechnology. We are seeking individuals with exceptional academic credentials who can advance our on-going program in this field and play a nationally prominent role in its further growth. We are specifically interested in applicants with expertise in the intersection of Bioengineering and Nanotechnology. Outstanding candidates in the broader Nanotechnology area and its applications are also invited to apply. Faculty appointments at all tenure-track ranks (both junior and senior) will be considered. The appointments will be made in any of the academic departments comprising the Viterbi School, as appropriate. The possibility of joint appointments with other USC schools, such as the College of Letters, Arts and Science, the School of Pharmacy, and the Keck Medical School will also be considered. The Viterbi School is home to the Information Sciences Institute (ISI), two NSF ERCs (IMSC in Multimedia and BMES in Biomimetic MicroElectronics Systems), the first university center on Homeland Security (CREATE) and over 25 other centers and institutes. With a PhD population of more than 1000 students and a research volume of \$135 Million in external research funding, the Viterbi

School is a vibrant place for outstanding academic research and teaching. **Applications, including curriculum vitae and the names of three references should be sent to: Chair, Nanotechnology Search Committee, USC Viterbi School of Engineering, Olin Hall 200, University of Southern California, Los Angeles, CA 90089-1450. Equivalently, the applications can be posted on the web, using the following website: http://viterbi.usc.edu/academics/faculty/nanotechnology_position.htm** Applications will be considered beginning immediately and continuing until the positions are filled. The University of Southern California is an Equal Opportunity, Affirmative Action Employer.

CHAIR, CHEMICAL ENGINEERING DEPARTMENT, UNIVERSITY OF LOUISVILLE

The J.B. Speed School of Engineering at the University of Louisville invites nominations and applications for the position of Professor and Chair of the Chemical Engineering Department starting August 2005. The successful applicant will: Hold undergraduate and earned doctorate degrees in chemical engineering; have a distinguished record in undergraduate and graduate level teaching, scholarly research, and service to the profession, and the intent to continue performing at a high level in these areas; be qualified for appointment as a tenured full professor of chemical engineering; have the vision and skills needed to lead the department to its goals of excellence in research and teaching; have the ability and personality to promote academic scholarship, foster industrial and community partnerships, and enhance the fund raising efforts and endowment of the department; possess excellent communication, interpersonal and managerial skills. The Department of Chemical Engineering at the University of Louisville has 13 faculty (three, including this position, are currently being recruited), and approximately 100 undergraduates, and 50 graduate students enrolled in its MEng, MS and PhD programs. Department research strengths are in nanotechnology, biotechnology and materials. Opportunities exist for collaboration in bioengineering, nanotechnology, materials processing, microelectronics and surface science at state-of-the-art research facilities in the Speed School and at the UofL Medical Center. The University of Louisville is the major metropolitan research university in Kentucky. Louisville is a metropolitan area of over million people located on the Ohio River. It enjoys all four seasons and offers many educational and recreational opportunities, as well as an outstanding quality of life. Applications will be considered upon receipt and until the position is filled. **Send curriculum vitae (limited to 10 pages), contact information for five references, and a statement of interest by e-mail to CHE Department Chair Search Committee, c/o P. Lumley, PLLUMLO1@Louisville.edu.** The University of Louisville is an Affirmative Action, Equal Opportunity Employer and encourages qualified women and minorities to apply.

FACULTY POSITIONS IN CHEMICAL ENGINEERING DEPARTMENT, J.B. SPEED SCHOOL OF ENGINEERING, UNIVERSITY OF LOUISVILLE

Applications are invited for up to two tenure track faculty positions in the Chemical Engineering Department, at least one at the Assistant professor level. The successful candidates will teach undergraduate and graduate

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courses in chemical engineering and will be expected to develop a nationally-recognized, externally funded research program. Preferred research areas are biochemical and bioprocess engineering, biotechnology and advanced materials; however, exceptional candidates in other research areas will be considered. Candidates should have a bachelor's degree in chemical engineering and an earned doctorate, preferably in chemical engineering. Opportunities exist for collaboration in bioengineering, materials processing, microelectronics, and nanotechnology at state-of-the-art research facilities in the Speed School, and in clinical studies at the UofL Medical Center. Review of applications will begin on January 15, 2005 and will continue until the position is filled. **Send a curriculum vitae (limited to 5 pages), contact information for at least three references, and a brief statement of research and teaching interests by e-mail to PLLUML01@Louisville.edu: Faculty Search Committee, c/o P. Lumley, Chemical Engineering Department, University of Louisville, Louisville, Kentucky 40292. For additional information on Chemical Engineering at UofL see www.Louisville.edu/speed/chemical.** Minority and female candidates are encouraged to apply. The University of Louisville is an Equal Opportunity, Affirmative Action Employer.

CHEMICAL ENGINEERING FACULTY POSITION

Brigham Young University's Chemical Engineering Department announces an opening for a permanent (continuing-status) faculty position. The ideal candidate would have 5 to 15 years of experience and an established research program in bioprocess or biomolecular engineering. However, motivated candidates with any research emphasis at any experience level will be considered. Rank will be consistent with qualifications and experience. The position will remain open until filled. Interviews will begin in March 2005 with the successful candidate starting as early as September 2005. Undergraduate and doctorate degrees in chemical engineering or a related field are required. BYU, an equal opportunity employer, requires all faculty to observe the university's honor code and dress and grooming standards. Preference is given to qualified members in good standing of the affiliated church, The Church of Jesus Christ of Latter-day Saints. **Interested applicants should electronically submit a curriculum vitae, statements of research objectives and teaching objectives, names of three professional references, a list of publications and research awards, and a completed BYU employment application (see <http://yjjobs.byu.edu>).**

GORDON A. AND MARY CAIN CHAIR IN CHEMICAL ENGINEERING AND PROFESSOR

The Gordon A. and Mary Cain Department of Chemical Engineering is seeking highly-qualified candidates for Chair of the Department. It is comprised of 16 full-time faculty and has averaged five PhD, 10 MS and 61 BS graduates per year over the last five years. Its endowment includes a recent \$10 million donation from alumnus Gordon A. Cain, and totals approximately \$22 million. All candidates or nominees should have the education and experience required for a full professor level: PhD or equivalent degree in Chemical Engineering or a closely related field. The standard of appointment for an Endowed Chair must have the following: national/international reputation as an eminent scholar and/or teacher within his/her discipline; record of prominent leadership roles on such entities as editorial boards, advisory boards, and professional associations; outstanding publication record; record of external research or recognition for innovation in teaching and development of grants and awards. Responsibilities include: departmental administration; commitment to teaching both graduate and undergraduate students; excellence in research. **Application deadline is June 1, 2005 or until a candidate is selected. Nominations, applications (including e-mail address), or requests for additional information should be sent to: Department Chair Search Committee, Gordon A. and Mary Cain Department of Chemical Engineering, Louisiana State University, Ref: #004786, Baton Rouge, LA 70803-7303, (225) 578-1426.** Louisiana State

University at Baton Rouge has an increasing enrollment of 30,000 students and is classified as a Doctoral/Research-Extensive University by the Carnegie Foundation. More information about LSU and the Baton Rouge area can be obtained by visiting www.lsu.edu. More information about the Department can be obtained by visiting www.che.lsu.edu. LSU is an Equal Opportunity/Equal Access Employer.

NATIONAL UNIVERSITY OF SINGAPORE, DEPARTMENT OF CHEMICAL AND BIOMOLECULAR ENGINEERING

The Department of Chemical & Biomolecular Engineering at National University of Singapore invites applications for tenure-track faculty positions at all levels. The Department is one of the largest internationally with excellent in-house infrastructure for experimental & computational research. A PhD in chemical engineering or related areas and a strong research record with excellent publications are required. Please refer to <http://www.chbe.nus.edu.sg/> for more information on the areas of interest and for application details. **Applicants should send a full curriculum vitae (including key publications), a detailed research plan, a statement of teaching interest, and a list of names of at least three references to: Prof. Raj Rajagopalan, Head of Department (Attention: Ms. Nancy Chia, email: checls@nus.edu.sg).**

BIOENGINEERING CLUSTER POSITIONS, COLLEGE OF ENGINEERING AND MINERAL RESOURCES, WEST VIRGINIA UNIVERSITY.

The College anticipates filling up to three tenure-track faculty positions in Bioengineering at the Assistant or Associate Professor level. Successful applicants are expected to develop externally funded research programs and to teach in one of the following departments: Mechanical and Aerospace Engineering, Computer Science and Electrical Engineering, or Chemical Engineering. A PhD in Engineering or a closely related field is required. Candidates should demonstrate strong oral and written communication skills. The candidates will be expected to work as a team, to help develop Bioengineering research in the College, and to collaborate with the School of Medicine in one of the following areas of research: Cancer-cell Biology, Cardiovascular Sciences, Diabetes, Endocrinology, Lung Disease and Environmental Sciences, Neurosciences, and Tissue Engineering. Review of applications will begin April 15, 2005 and will continue until the positions are filled. Women and minorities are strongly encouraged to apply. Applicants who are not US citizens must include a statement of authorization to work in the US. **Applicants should send a letter describing their qualifications, a curriculum vita, a teaching plan, a research plan, and names, addresses, e-mail addresses, and telephone numbers of three references to: Professor Dady B Dadyburjor, the chair of the Bioengineering Search Committee. Electronic submissions are encouraged and should be sent to bioengg-cemr@mail.wvu.edu. Mailed material may be sent to the Department of Chemical Engineering, West Virginia University, Morgantown, WV 26506-6102.** WVU is a comprehensive land-grant institution with an enrollment of over 25,000 students. The University has a Carnegie Doctoral Research Extensive ranking. The University is at the center of a developing high-technology corridor, providing challenges and opportunities for the candidates. Additional information may be found on the college website at <http://www.cemr.wvu.edu>. West Virginia University is an Equal Opportunity/Affirmative Action Employer.

FACULTY POSITION IN ENERGY SCIENCE AND TECHNOLOGY AT MIT

The Department of Mechanical Engineering is seeking outstanding candidates for a tenure-track assistant professor position in the field of energy science and technology. The Department is looking for individuals who will contribute to the engineering of modern energy conversion systems and processes. Energy sciences in the areas of surface and membrane chemistry and physics are of particular interest, as well as work on microscopic-level phenomena relevant to the engineering of surfaces and interfaces where reactions and transport occur. Topics of interest include, but are not limited to, improving the efficiency and durability of fuel cells; boosting the rating of energy storage in different

forms; the design of compact and efficient reformers; thermoelectric devices and photovoltaics and their integration with other energy conversion processes; physical and chemical storage of hydrogen and other energy carriers; the operation of high-temperature electrolysis; renewable technologies and integrated thermochemical, photochemical and biochemical processes for energy conversion. Candidates must have a PhD in their field. The successful candidate is expected to teach at the undergraduate and graduate levels in Mechanical Engineering courses including energy conversion subjects. The candidate will also be expected to develop an outstanding research program. **Interested candidates should send their CV, a brief statement describing their scholarly interests in research and teaching and contact information for five references to: Energy Search Committee, Massachusetts Institute of Technology, 77 Massachusetts Avenue, Room 3-173, Cambridge, MA 02139-4307.** MIT is an Equal Opportunity/Affirmative Action Employer. Women and underrepresented minorities are especially encouraged to apply.

DEPARTMENT OF PETROLEUM ENGINEERING, STANFORD UNIVERSITY, POSTDOCTORAL RESEARCH ASSISTANT

We seek applicants for a postdoctoral research assistant to perform research on gas injection processes for oil recovery and CO₂ sequestration. Selected applicant will conduct research on mathematical description of two- and three-phase flow in which components transfer between flowing phases. We seek to extend existing method-of-characteristics theory of one-dimensional, dispersion-free flow of multicomponent mixtures to systems with variable initial and injection compositions. Candidates should have a good background in petroleum or chemical engineering and significant experience in applied mathematics of conservation equations. Applicants should have earned their PhD w/in last 3 years. **Submit curriculum vita with names and addresses of three ref-**

erences by April 30, 2005 to: Prof. Margot Gerritsen, Department of Petroleum Engineering, 367 Panama Street, Stanford University, Stanford, CA 94305-2220, e-mail: margot.gerritsen@stanford.edu. Stanford University has a strong institutional commitment to the principle of diversity. In that spirit, we particularly encourage applications from women, members of ethnic minorities, and individuals with disabilities.

DEPARTMENT OF CHEMISTRY AND CHEMICAL ENGINEERING AT THE SOUTH DAKOTA SCHOOL OF MINES AND TECHNOLOGY

A tenure track faculty position at the Assistant or Associate Professor rank in the field of Chemical Engineering is available in the Department of Chemistry and Chemical Engineering at the South Dakota School of Mines and Technology. A PhD in Chemical Engineering or a closely related discipline is required at the time of appointment. Applicants should demonstrate a commitment to excellence in teaching undergraduate and graduate courses in the area of chemical engineering. It is expected that the successful candidate will initiate and/or sustain a sponsored research program. The ideal candidate will have industrial experience as well as expertise in the area of bioprocessing. However, motivated candidates with expertise in nanotechnology, materials, or alternative energy systems will also be considered. Chemical Engineering faculty members participate in the MS Chemical Engineering and PhD Materials Engineering and Science graduate programs. The desired starting date of the appointment would be the fall 2005 semester. **For more information on the department and the institution please visit: www.sdsmt.edu. Send a letter of application, curriculum vitae, teaching and research plans, graduate transcript(s), and provide three reference letters to: Dr. Jan A. Puszynski, Chair of the Search Committee, College of Materials Science and Engineering, South Dakota School of Mines & Technology, 501 East St. Joseph St., Rapid City, SD 57701-3995.** Review of applications will begin on April 1, 2005 and will continue until the position is filled. SDSMT is an EEO/AA/ADA employer and provider.

Expert in Data Mining and Statistical Modeling

ExxonMobil Research and Engineering has an immediate opening for an expert in Data Mining and Statistical Modeling in the Corporate Strategic Research department located in Clinton, New Jersey.

The successful candidate will be responsible for analyzing large physical and experimental data sets in areas such as Geoscience, Process Modeling & Control, and High Throughput Experimentation.

The candidate should have the following qualifications:

- A Ph.D. degree in Petroleum/Chemical Engineering, Operations Research, Computer Science, Statistics, Applied Mathematics, or other related fields.
- Experience in Statistical Data Analysis, Knowledge of Data Mining Principles & Algorithms, and experience in Scientific Computing.
- Some desirable qualifications are experience with Petroleum and/or Chemical Industry problems, experience in modeling physical systems, familiarity with data mining and general scientific software tools.
- Although desirable, prior industrial work experience is not necessary.

ExxonMobil offers an excellent working environment and a competitive compensation and benefits package. Please submit your cover letter and resume to our web site: www.exxonmobil.com/careers/usa. Please apply to Chemical Engineer-Research and reference MTSDM-2170BR in both letter and resume. Additional information about the position may be obtained by contacting Dr. Krishnan Kumaran (908) 730-2876, Fax: (908) 730-3323.

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Expert in Mathematical Programming and Optimization

ExxonMobil Research and Engineering has an immediate opening for an expert in Mathematical Programming and Optimization in the Corporate Strategic Research department located in Clinton, New Jersey.

The successful candidate will conduct research and development involving mathematical programming; optimization and logistics of several components of the oil-industry supply chain. In addition, he/she will be responsible for deterministic and/or heuristic algorithm development, implementation, and application to representative business units.

Candidates should have the following qualifications:

- Ph.D. degree in Operations Research, Industrial Engineering, Chemical Engineering/Applied Mathematics with Systems Engineering background, or related disciplines.
- Experience in Supply Chain modeling, analysis, and optimization, with particular emphasis on Inventory Management, Transportation and Distribution Logistics, and/or Planning and Scheduling.
- Theoretical and practical experience is required in the areas of mathematical programming algorithms and heuristics applied to supply chain problems.
- Proficiency is needed in current commercial and academic mathematical programming and optimization modeling languages and algorithms.
- Expertise in Stochastic Processes modeling, and in forecasting methods, is highly desirable, although not necessary.

ExxonMobil offers an excellent working environment and a competitive compensation and benefits package. Please submit your cover letter and resume to our web site: www.exxonmobil.com/careers/usa. Please apply to Chemical Engineer-Research and reference MTSOPT-2169BR in both letter and resume. Additional information about the position may be obtained by contacting Dr. Kevin C. Furman (908) 730-2281, Fax: (908) 730-3323.

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THE UNIVERSITY OF CINCINNATI, DEPARTMENT OF CHEMICAL & MATERIALS ENGINEERING

The University of Cincinnati is seeking to fill two tenure-track faculty positions in Chemical Engineering at the associate or full professor level. Applicants will be expected to teach chemical engineering courses at the graduate and undergraduate levels. Research interests are preferred to be in the general area of membrane science and technology. Specialties in the membrane area could be in biomedical, pharmaceutical or biosensor applications, but related areas such as thin films, surface properties and mem-

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brane synthesis are acceptable. Applicants are expected to have a PhD degree in chemical engineering or a closely related area. US citizenship or permanent resident status is preferable but not essential. Applicants will be expected to develop and maintain a high quality, funded research program and to play leadership roles in both the NSF Industry/University Cooperative Research Center in Membrane Applied Science and Technology (MAST) and the NSF Integrative Graduate Education and Research Traineeship (IGERT) program. Additional information about the ChE program is available at http://www.eng.uc.edu/dept_chme/. The University of Cincinnati has long been recognized internationally for its research programs in membrane science, which now include MAST Center, an NSF IGERT grant and an NSF Research Experiences for Undergraduates (REU) summer site program in membrane science. The University strongly supports integrative research programs including biomedical applications of membranes since the Colleges of Engineering, Arts and Sciences, Medicine and Pharmacy are in close proximity, as are several major hospitals. The University of Cincinnati is one of two comprehensive research universities in the State of Ohio system. It has an enrollment of over 35,000 in an attractive urban environment within a metropolitan area of 2 million. The University has competitive salaries and provides attractive fringe benefits for its employees, including a tuition remission policy. **Applicants should submit a cover letter briefly outlining career plans, a resume, publication list, statement of teaching and research interests, and names and contact information of three references. Electronic submission (in pdf format) is preferred, and should be sent to the e-mail address listed below. Review of applications will begin on March 15, 2005 and continue until the positions are filled. Address for correspondence: Chair, Faculty Search Committee, Department of Chemical & Materials Engineering, P.O. Box 210012, University of Cincinnati, Cincinnati, OH 45221-0012, e-mail: che-search@listserv.uc.edu.** The University of Cincinnati is an Equal Opportunity Affirmative Action Employer.

CLASSIFIED ADVERTISING RATE INFORMATION

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Published monthly.

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