



Better jobs.
Better candidates.
Better engineering.

"The premier print and online resource for ChE Jobs"

<http://develop.aiche.org/careerengineer/>

POSITIONS AVAILABLE

ANALYTICAL CHEMIST

Geo-Centers, Inc., a high technology, growth-oriented research and development firm specializing in scientific and engineering services for the Department of Defense, is seeking an Analytical Chemist to support our operations in Picatinny Arsenal, NJ. Develop new technologies for the analysis of energetic materials. Apply spectroscopic and chromatographic methods to the detection and quantification of explosives. Use statistical methods of data analysis to validate newly developed procedures. Perform instrumental and wet chemical analysis to characterize energetic materials for routine analysis and malfunction and deficiency investigations. Assist customers in troubleshooting field problems. Train personnel in newly developed procedures and use of instruments. Document results in written reports and oral presentations. Some travel required. BS in chemistry with 3-5 years experience preferred. Proficient in modern methods of instrumental analysis, particularly spectroscopy and chromatography. Excellent computer skills required. Ability to develop new analytical procedures required. **Candidate must be able to obtain access to a U.S. Government-controlled facility. Resumes w/ salary requirement and VISA status to staffing@geo-centers.com, attn: ACH-FA-AICHE. AA/EOE. M/F/H/V. Visit our website at www.geo-centers.com**

TECHNICAL STAFF POSITION Separations Science

ExxonMobil Research and Engineering has an immediate opening for a Member of the Technical Staff in the Corporate Strategic Research department, located in Clinton, NJ. The successful candidate will join our Separations Science Section and have primary responsibility for the experimental and theoretical investigation of molecular transport in separations systems of interest to ExxonMobil. Prior experience in separations science and separations applications is preferred, and a background in materials science is desirable. A Ph.D. in physical chemistry, chemical physics, materials science or chemical engineering, preferably completed within the past 5 years, is required. Post-doctoral experience in a separations-related field is also preferred. Strong written and oral skills are essential.

ExxonMobil offers an excellent working environment and a competitive compensation and benefits package. Please submit your cover letter and resume to our website www.exxonmobil.com/careers/usa. Please apply to Chemical Engineer-Research and reference MTSSEP-2174BR in both letter and resume.

ExxonMobil is an Equal Opportunity Employer

CHEMICAL PROCESS ENGINEER

MARKEM Corporation headquartered in Keene, New Hampshire is a trusted global leader in innovative and reliable product and package identification solutions and services. Currently we have an opportunity for a Chemical Engineer. Required is a BS in chemical engineering, with 3-5 years of experience in the ink, paint, or coatings industry. Additional requirements in part include, participating in the functional analysis related to design, development and implementation of chemical plant equipment and processes for manufacturing ink products. **For consideration please forward your resume to: rmassucco@markem.com**

CHEMICAL APPLICATIONS ENGINEER

Chart Heat Exchangers is a world leader in the manufacture of highly engineered custom designed aluminum heat exchangers and ancillary equipment. We are currently seeking a Chemical Applications Engineer to be based in La Crosse, Wisconsin. The successful applicant will be a degreed engineer with specific knowledge of, and experience in, the application of a range of reaction processes within the Chemical Industry. A range of duties will be performed that will vary to support the final development and commercialization of novel compact reactor/heat exchanger devices. This key product application position, with a small enthusiastic team, will be focused toward identifying suitable chemical reaction applications for the product range, developing market opportunities and implementing initial hardware sales. **Contact information: Phil Heimbecker, Chart Heat Exchangers, 2191 Ward Avenue, La Crosse, WI 54601, phone: 608 787-3333, e-mail: resume@chart-ind.com.**

ACADEMIC OPENINGS

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.

DEPARTMENT OF ENGINEERING, MCNEESE STATE UNIVERSITY

McNeese State University seeks candidates for a nine-month tenure-track Assistant Professor position starting on August 15, 2005. Applicants must have a doctorate in chemical engineering and be committed to teaching excellence. Industrial experience and professional registration is preferred. Responsibilities include teaching undergraduate and masters level graduate courses. Review will begin on April 15, 2005 and continue until position is filled. **Submit cover letter, curriculum vitae, personal statement of teaching philosophy and interest, and contact information for three professional references to Richard Robinson, Chair, Faculty Search Committee, Department of Engineering, by e-mail at rrobin@mcneese.edu. Instructional faculty candidates with foreign degrees must provide official certification of equivalency to U.S. degrees, and official comprehensive course-by-course report and U.S. Equivalency statement, from World Education Services. The official Credential Evaluation Report and U.S. Equivalency Statement must be submitted directly to the Office of Academic Affairs, Box 93220, Lake Charles, LA 70609 ((337) 475-5508). Simple translation of the language on foreign diplomas, transcripts, coursework, or similar will NOT suffice and will cause the application to be judged incomplete.** McNeese State University is an Affirmative Action/Americans with Disabilities Act/Equal Opportunity Employer. Persons needing reasonable accommodations as provided by the Americans With Disabilities Act should contact the Division of Special Services and Equity at (337) 475-5428. Women and minorities are encouraged to apply. Under Louisiana law, applications and all supporting materials will become public record. An executive session pursuant to LA RS. 42:61A may be required. McNeese State University is a member of the University of Louisiana System. The Immigration Reform and Control Act of 1986 requires McNeese State University to inform applicants that the University can employ only U.S. citizens and aliens lawfully authorized to work in the U.S. Each new employee is required to present documentation verifying his/her identity and right to accept employment. McNeese State University is an Affirmative Action/Americans with Disabilities Act/Equal Opportunity Employer. Education/facilities are accessible to the disabled.

(classifieds continued on page 58)

CLASSIFIED ADVERTISING RATE INFORMATION

Classifications:

Positions open – academic and industrial positions

Issuance:

Published monthly.

Closing date:

3rd Monday of the month prior to that month's issue. Next closing date is April 18, 2005.

Rates:

Word ads are \$4/word (conjunctions not counted). Simply e-mail a word document to denid@aiche.org. Contact 212-591-7170 or denid@aiche.org for classified display ad and business card ad rates and guidelines for submittal.

Web posting:

Classified advertisers receive a \$250/month discount off the normal \$400/month rate to post on CareerEngineer, AIChE's recruiting web site specifically for chemical industry professionals, if a print ad is run in the same month.
<http://careerengineer.aiche.org>

INDUSTRY RESOURCES



Practical Solutions

Leaders in Process Safety,
Risk Analysis, Human
Factors & Fire Protection



RRS ENGINEERING

RISK ♦ RELIABILITY ♦ SAFETY
281.334.4220

www.rrseng.com

Engineering Profiles

Chemical Industry Recruiters
Technical – Engineering – Operations
www.engineeringprofiles.com

P.O. Box 15537
Pensacola, FL 32514
Billy Price Email: bprice@engineeringprofiles.com

PH: (850) 969-9991
FAX: (850) 969-9987

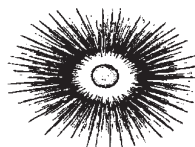
DESIGN II for Windows™

Rigorous Process Simulation for Chemical and Hydrocarbon processes
including Refining, Refrigeration, Petrochemical, Gas Processing,
Gas Treating, Pipelines, Ammonia, Methanol, and Hydrogen Facilities

- Multiple Sheet Diagram User Interface
- 50 Thermo Methods/886 Component Database
- Mixed Amine Thermodynamics
- Crude & Multi-Component Distillation Towers
- Flash Vessel Sizing / 2 Phase HX Rating
- Crude Feeds (ASTM D-86/1160, TBP)
- Automatic Output to Microsoft® Excel

Download Professional version at:
www.winsim.com

WinSim Inc.
P. O. Box 1885, Houston, TX 77251
Email: sales@winsim.com
Phone: 281-565-6700 Fax: 281-565-7593



INNOVATION-TRIZ

TRIZ for Chemical and Mechanical Engineering

TRIZ Instructor for AIChE and ASME

Jack Hipple
Innovation-TRIZ
813-994-9999
jwhinnovator@earthlink.net

www.innovation-triz.com

FACULTY OPENINGS FOR CHEMICAL AND BIOLOGICAL ENGINEERING AT KOÇ UNIVERSITY

Applications are being accepted for visiting and full time faculty positions in Chemical and Biological Engineering. Candidates are expected to have a strong background on the fundamentals of chemical engineering and a proven research record. All research areas will be considered, but particular emphasis will be given to biological systems, molecular engineering and biotechnology. KOÇ University is a private, nonprofit institution located on a new, state-of-the-art campus in Rumelifeneri, Istanbul. The University is supported by the Vehbi Koc Foundation, and is committed to the pursuit of excellence in both teaching and research. The medium of instruction is in English. We are looking for outstanding individuals who are able to build strong teaching and research programs and who can develop into intellectual leaders. It is also important that the candidates interact closely with colleagues across different disciplines and contribute positively to the successful advancement of the College. We offer a competitive salary and benefit package. **Applicants should send a CV, a statement of teaching interests, a description of the proposed research program, and the names and addresses of at least three references (preferably with an electronic copy) to: Prof. Irsadi Aksun, Dean, College of Engineering, KOÇ University, 34450 Rumelifeneri Yolu, Sariyer, Istanbul, Turkey, e-mail: iaksun@ku.edu.tr**

THE CHEMICAL AND BIOCHEMICAL ENGINEERING DEPARTMENT AT RUTGERS UNIVERSITY

invites applications for a tenure track faculty position. Applications are invited at the Assistant, Associate and Full Professor levels. The department is particularly interested in senior level candidates that have an outstanding record in research, teaching, and leadership. Consideration of candidates will begin immediately. **Please e-mail, or mail a curriculum vitae, detailed description of research interests, your e-mail address, and names and e-mail addresses of at least three references to: cbesearch@sol.rutgers.edu, or**

Chair of the Search Committee, Department of Chemical and Biochemical Engineering, Rutgers The State University of New Jersey, 98 Brett Road, Piscataway, NJ 08854-8058. Rutgers is an Affirmative Action, Equal Opportunity Employer. Women and minority candidates are 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 references 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.

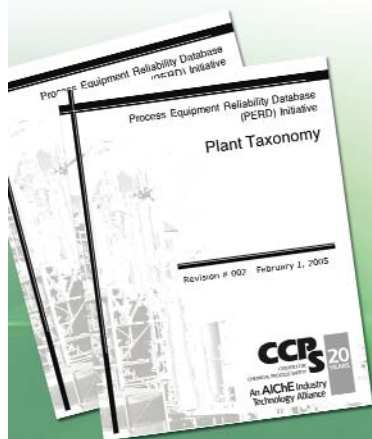
RESEARCH ASSOCIATE

A research associate position is available immediately. An earned doctorate degree in chemical engineering in the area of catalytic reaction engineering is required. Candidates should have experience in experimental research on TPD/TPR and other basic catalyst characterization techniques and use of GC/MS. **Send resume and have three reference letters sent to: Dr. Jale Akyurtlu, Chemical Engineering Department, Hampton University, Hampton, VA 23668; e-mail: jale.akyurtlu@hamptonu.edu.**



Process Equipment Reliability Database Equipment Taxonomies Available Now

You can't effectively analyze equipment performance without data on maintenance, inspection, process demand, and more. And without a data structure—a taxonomy—you don't have useful information.



PERD Taxonomies provide a fundamentally sound structure to capture data in a consistent immediate analysis. They facilitate the understanding of what the raw data means or represents. PERD taxonomies:

- Help determine the right data to collect
- Provide a standard industry taxonomy, data field formats and validation
- Provide standard failure modes based upon rigorous and methodical functional analysis
- Provide intelligent inference of failure modes

4 titles now available. More coming soon.

Title	Availability	Price	Item	ISBN #
Plant	For Sale Now	\$50	N-1	0-8169-0969-5
Unit	For Sale Now	\$50	N-2	0-8169-0970-9
Instrument Loop	For Sale Now	\$50	N-3	0-8169-0971-7
Piping Circuit	For Sale Now	\$50	N-4	0-8169-1001-4

To order taxonomies, contact AIChE at:
<http://www.aiche.org/ccps/perd/taxonomies.htm>
or by calling 212-591-7319

AIChE®

© 2005 AIChE American Institute of Chemical Engineers #1018

CCPS Process Equipment Reliability Database: Data Essential to Improving Productivity and Safety

www.cepmagazine.org or Circle No.129