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POSITIONS AVAILABLE

REC SILICON

REC SILICON is a subsidiary of Renewable Energy Corporation (REC) of Norway. REC was founded in 1996 and has quickly become one of the world's leading businesses within solar energy. The company has a presence in all parts of the industry value chain from production of raw material (REC Silicon) to solar energy products. The energy market we are in has been experiencing tremendous growth. Currently, the solar market is constrained by silicon supply, so REC Silicon is rapidly expanding capacity by building new plants, de-bottlenecking existing facilities and aggressively pursuing technology development. REC Silicon operates silicon refineries in Washington State and Montana. Our chemical process begins with hydrogenation of silicon in a chlorosilanes environment followed by a distillation and reaction process to produce silane gas (SiH₄). The silane gas is then pyrolyzed into ultra pure silicon in either multiple batch style reactors or in newly developed fluidized bed reactors for continuous production. Our chemical process resembles many petrochemical processes such as ethylene, but we are silicon chemistry based rather than carbon chemistry based. We are looking for experienced personnel to help us grow our business. If you have 3 or more years experience in process development, running, designing or building chemical plants, then REC Silicon may be a good place for you to start a new career. We offer a competitive base salary/benefits along with performance based bonus and a great work environment in a beautiful part of the country. Position openings include: **PROCESS DESIGN ENGINEERS (Chemical)** - Perform detailed engineering in support of manufacturing debottleneck and new plant expansion efforts; **PRODUCTION ENGINEERS (Chemical)** - Provide technical support to meet production goals; **PROCESS TECHNOLOGY DEVELOPMENT ENGINEERS (Chemical and Materials Science)** - Work closely with R&D and Production to proof and develop scaleable, robust new processes meeting the defined business strategy; **MECHANICAL ENGINEERS**; **RELIABILITY ENGINEERS** with rotating equipment experience; **PROJECT ENGINEERS/MANAGERS** for in-plant projects as well as \$500M+ expansion projects. International experience is desired for the \$500M+ projects; **FLUID BED DEVELOPMENT ENGINEERS (Chemical)** - Works in an integrated team to develop this new process for polysilicon manufacture beyond the current first generation technology; **MANUFACTURING AND ANALYTICAL CHEMISTS (MS or PhD Chemist)** - Oversee analytical efforts in support of manufacturing quality control along with incorporating new techniques within the company in support of the process development activities; **QUALITY ASSURANCE/LEAN MANUFACTURING ENGINEERS** - Active support of the manufacturing team to assure lowest cost, highest quality robust production. Also supports product management in support of customer development; **PRODUCTION/SUPERINTENDENT/MANAGEMENT Positions**; **OPERATORS AND MAINTENANCE CRAFTSPEOPLE**. Interested candidates should submit their resume to: **REC SILICON, 3322 Road "N" NE, Moses Lake, WA 98837, Attn: Human Resources Or e-mail to: recsilicon.hr@recgroup.com**. For more company information, please visit our website at recgroup.com.

Chemical Plant Manager-\$125K+Bonus

ChE with batch operations background. 10+ yrs. exp., Location: Texas. Promotable to larger plants and HQ's. International chemical company. John T. Baker & Associates, Inc., Search Specialists-Energy Industry-Est. 1979. **Ph: 281-556-1798; Email: johntbaker@aol.com**.

ADVANCED SYSTEMS ENGINEER

UTC Power Corporation has an opening in South Windsor, CT for an Advanced Systems Engineer. Process engineering for distributed power generation equipment, such as fuel cell power plants. Primary duties focus on future/advanced applications, such as optimization studies, applications engineering, competitive intelligence, customer requirements and definition. Perform Systems Engineering for specific power plants, such as component requirements, definition of the system configuration, and definition of application software requirements. Must possess at least a master's or equivalent in Chemical or Mechanical Engineering and relevant work experience. Experience must include: fluid dynamics, thermodynamics, chemical kinetics/catalysis; system level modeling using computer code gProms; and co-generation products including fuel cells. **Forward resume to Ivette Rodriguez-Woods, Human Resources Manager, UTC Power Corporation, 195 Governor's Highway, South Windsor, CT 06074.** United Technologies Corporation is an Equal Opportunity/Affirmative Action Employer.

APPLIED BIOSYSTEMS, INC. STAFF CHEMICAL PROCESS ENGINEER

As the leading supplier of life science technology and related applications, we are helping life scientists understand and use the power of biology to pursue new scientific discoveries and methods for diagnosing and treating disease. If you're interested in a challenging career in one of the fastest moving fields today, you've come to the right place. Applied Biosystems seeks a Senior Level Chemical Engineer. **JOB DUTIES:** Leads new product scale-up, process optimization, technology transfer, and process validation activities. Develops, implements, and qualifies robust, high quality, cost effective processes for manufacturing new and existing leading edge products. Scales-up and qualify novel technologies from laboratory to pilot plant to manufacturing scale. Successfully troubleshoots equipment and systems. Recommends processes for the formulation and packaging of molecular biology reagents and products. Establishes operating equipment specifications. Interfaces with various departments to ensure smooth scale-ups and technology transfers. Installs process monitoring/control/automation capabilities on new and existing process equipment. Supports a variety of new and existing chemical processes by generating process flow charts, mass and energy balances, piping and instrumentation diagrams, and pre-operations packages. Performs GRR and DOE studies to optimize measurement and processing systems. Performs design and process risk assessments (e.g., FMEA). Conducts design reviews and prepares operating instructions for new and existing processing equipment. **Skills Required:** 1) Significant experience (8 years) in successfully developing and manufacturing specialty chemicals. 2) Extensive working knowledge of process monitoring, process



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control and automation techniques for formulation and product packaging processes. 3) Excellent project management skills with specific experience in product commercialization 4) Strong understanding of ISO/GMP requirements with good experience in the areas around product commercialization such as; legal affairs, marketing and sales forecasting. 5) BS degree or higher in Chemical Engineering with MBA a plus. 6) Knowledge of molecular biology and/or Applied Biosystems products a plus. **For immediate consideration please email your resume to: ABjobs2007@yahoo.com and reference Job ID 07-5925 on the subject line. You can also apply on-line at www.appliedbiosystems.com. Cut & paste the link below into your browser. http://www.resumeware.net/applera_rw/applera_web/job_detail.cfm?recnum=2&totalrecs=4&start=1&pagestart=1**

ACADEMIC OPENINGS

THE DEPARTMENT OF CHEMICAL ENGINEERING (CIT) OF THE FACULTY OF ENGINEERING AT THE KATHOLIEKE UNIVERSITEIT LEUVEN (BELGIUM) invites applications for 2 tenured or tenure-track faculty positions: **In the field of Industrial Biotechnology (24/2001):** (Inter-)national context: Driven by an increasing economical and ecological importance of sustainable chemistry, several top level Chemical Engineering departments converted into Chemical and Biochemical Engineering departments. A number of accurately defined research themes in the seventh framework program FP7 of the EU (2007-2013) point in the same direction, both at the level of products (e.g., biopolymers) as at the level of processes (e.g., bioreactors). At the Flemish level reference is made to the recently published Action Plan Chemical Industry (in Dutch, see www.fedichem-vlaanderen.be/nl/rondetafel), based on the activities of the Round Table Chemistry (2006): in this report the creation of a cluster industrial biotechnology in Flanders is put forward as a major innovation action point. Research task : Flemish biotechnological research has a strong international reputation, with the Flemish Institute Biotechnology (VIB) playing a central role. The main objective of this vacancy in industrial biotechnology is to translate/transfer the in vitro realizations of modern biotechnology (within K.U. Leuven generated in several departments) into high performance industrial processes based on a chemical engineering approach. Important issues in the innovative research of the candidates are scale up, process design (including experiment design), sensor technology, optimization of cell environment in full scale reactors, downstream processing (separation processes), ... The successful candidate: is expected to perform research complementary to ongoing activities, in particular in the Chemical and Biochemical Process Technology and Control Section and in the department as a whole; should be willing to teach relevant courses in the bachelor and master Chemical Technology, and related curricula; should hold a PhD in Engineering or Bio-engineering. **In the field of Process Intensification (24/2002):** Innovative research enabling sustainable chemicals production must cover a much broader range of production scales and production applications, and development must move from individual devices to complete integrated production systems. Issues both in scale-down for ultra small-scale production of extremely high value-added products early on in the development stages (pharmaceuticals for clinical trials, etc.), as well as scale-up for precision engineering of product end-use properties (such as droplet and grain-size distributions, crystalline polymorphism, isomeric ratios, etc.) for high-tonnage sectors through locally targeted process control (integrated sensors and actuators) need to be addressed. Research should initially target a new generation of extremely flexible, high-performance processes and sustainable technologies, having the long-term goal of developing programmable chemical production units whose local operating conditions adapt automatically to changes in feed composition, product specifications, etc. A major objective should be a substantial drop in capital expenditure for new plant and/or for retrofit of high-performance intensified devices into existing infrastructure. The successful candidate is expected to perform research complementary to ongoing activities, in particular in the Applied Physical Chemistry and Environmental Technology Section and in the department as a whole; should be willing to teach relevant courses in the bachelor and master Chemical Technology, and related curricula; holds a PhD in Engineering or Bio-engineering; **For both positions:** initially non-Dutch speaking candidates can

teach in English. They should, however, be able to teach in Dutch within three years. The appointment will be made at the rank of assistant professor or higher, depending on the candidate's qualifications. The K.U. Leuven pursues a policy of equal opportunity and diversity. For further information about the applications/application forms please check the web site: www.kuleuven.be (Faculty of Engineering), <http://www.kuleuven.be/personeel/jobsite/apply.htm#ZAP> and <http://www.kuleuven.be/personeel/jobsite/vacatures/engineering.htm> and/or contact Prof. J. Van Impe (Chairman of the Department), jan.vanimpe@cit.kuleuven.be. **Applications should reach our Personnel Department before September 28th 2007. Please also send a copy to Prof. J. Van Impe.** The department's website can be found at <http://cit.kuleuven.be/en/index.php>.

ENDOWED CHAIR POSITION, TULANE UNIVERSITY, DEPARTMENT OF CHEMICAL & BIOMOLECULAR ENGINEERING.

We invite applications and nominations for The Herman and George R. Brown Chair in Engineering. We seek an outstanding individual with a Ph.D. in Chemical Engineering or closely related field, with an internationally-distinguished record of research and publication, proven excellence in both undergraduate and graduate chemical & biomolecular engineering education, as well as a demonstrated ability to attract external research support. All research areas will be considered. We especially encourage applications from women, minorities, and persons with disabilities. **Applicants should submit a curriculum vitae, research and teaching plans, and a list of at least three references to: Chair, Endowed Chair Search Committee, Department of Chemical and Biomolecular Engineering, Tulane University, New Orleans, LA 70118.** Complete applications should be received by June 30th, 2007 for full consideration; applications will be accepted thereafter until the position is filled. Tulane is an affirmative action, equal opportunity employer.

Process/Project Engineer

Innovative Solutions for the Chemical Process Industries are the key to our continuing success. KUHNI USA, INC. is a subsidiary of Kühni AG, Switzerland, a leading supplier of proprietary process equipment and sophisticated process systems. Due to continued growth, we are seeking an experienced Process/Project Engineer to complement our US team.

We offer: A challenging, multi-faceted job including business development, conceptual design of separation processes, sizing of process equipment, preparation of technical and commercial proposals, and plant start-up, in addition to project management responsibilities such as scheduling, sub-supplier contracts, and quality and cost control.

We seek: • B.S. or M.S. in Chemical Engineering.

- Relevant industrial experience including sound chemical engineering knowledge of heat transfer, distillation, and extraction operations, and project management experience.
- Excellent written and verbal communications, and interpersonal skills.
- Flexible, self-motivated person with an entrepreneurial flair.

Interested candidates please respond by sending your resume to: Neil P. Redgard, VP/ General Manager
Kuhni USA, Inc.
PO Box 308
Stanley, NC 28164

KUHNI

contact@kuhni.us
www.kuhni.us

THE DEPARTMENT OF CHEMICAL AND BIOMOLECULAR ENGINEERING AT TULANE UNIVERSITY invites applications for a tenure-track/tenured faculty position. Tulane's chemical engineering department is the third oldest in the country, with a vibrant research program in the signature areas of nanotechnology, biotechnology and advanced materials. There are tremendous collaborative opportunities for interdisciplinary research. Candidates should have a demonstrated excellence in research with a strong commitment to teaching. **Applicants should submit a curriculum vitae, research and teaching plans, and a list of references to: Chair, Faculty Search Committee, Department of Chemical and Biomolecular Engineering, Tulane University, New Orleans, LA 70118.** Applications will be reviewed on an ongoing basis until the position is filled. We especially encourage applications from women, minorities, and persons with disabilities. Tulane is an affirmative action, equal opportunity employer.

FACULTY POSITION: TEXAS A&M UNIVERSITY- KINGSVILLE

The Department of Chemical & Natural Gas Engineering at Texas A&M University-Kingsville seeks applicants for a faculty member at the associate or full professor level. The department is looking for an accomplished scholar who will strengthen the department in starting its Ph.D. program in chemical engineering. Candidates should have a record of excellence in teaching and research appropriate to support an appointment at the associate or full professor level commensurate with experience. There is no restriction on the area of research. Currently, the department has seven full-time faculty members and one adjunct faculty. Enrollment includes about 100 undergraduates and about 60 MS candidates. The Kingsville campus is located in South Texas; about 40 minutes drive from Corpus Christi, a mid-size resort city, and about

2 hours from South Padre Island, the Rio Grande Valley, and Mexico. The preferred appointment is for Spring 2008; however, applications will be accepted until the position is filled. **Applications should include: 1) a curriculum vitae, 2) educational philosophy, 3) detailed research activities plan, and 4) the names, addresses, and telephone numbers of at least three references.** For more details, please refer to <http://www.tamuk.edu/jobs>. The applications should be addressed to: **Chair of the Faculty Search Committee, Department of Chemical and Natural Gas Engineering, Texas A&M University-Kingsville, Kingsville, Texas 78363.**

LECTURER POSITION IN CHEMICAL ENGINEERING AT ARIZONA STATE UNIVERSITY

The Chemical Engineering Department at Arizona State University announces an opening for one lecturer position. The successful candidate will be expected to develop and teach the chemical engineering undergraduate laboratories and other chemical engineering courses. Applicants must have an earned advanced degree in chemical engineering (Ph.D. in chemical engineering preferred) and must assume the duties of this position on August 15, 2007. The selection process begins May 1, 2007 and continues every other week until position is filled. **Interested candidates must submit a cover letter indicating their teaching experience, a current curriculum vitae including: names, telephone, mail and email addresses of four references to Prof. James R. Beckman, Associate Chair, Department of Chemical Engineering, Arizona State University, Campus Box 6006, Tempe, AZ 85287-6006.** A background check is required for employment. For further information, contact Prof. James R. Beckman at (480) 965-4395 or email: jim.beckman@asu.edu. AA/EOE

Assistant Professor/Dept. of Chemical and Biological Engineering

Illinois Institute of Technology, Department of Chemical and Biological Engineering and the National Center for Food Safety & Technology (NCFST) is seeking a tenure-track Assistant Professor for the Department of Chemical and Biological Engineering, avail. starting January 2008 or earlier. An outstanding academic record and excellence in education/research needed. Must be able to lead and attract funds for research. Ph. D. in Chemical Engineering or rel. eng. area, exp. in food process engineering required and must have at least one degree in CE. Conduct research/teaching in the general field of biological engineering and collaborate with NCFST scientists on food-processing related funded research projects. Exp. in bio-nutrition and/or bioseparations is preferable.

IIT and NCFST are involved in a national collaboration with the FDA and various industry partners to launch a "Foods for Health" platform focused on the role of food science, technology and engineering in developing the concepts of healthy nutrition through food and food products.

Online applications are preferred. To apply, visit www.chee.iit.edu or please send a resume, statement of research, and teaching interests and plans, copies of pertinent publications and the names of the references to:

Faculty Search Committee
c/o: John Michie
National Center for Food Safety & Technology
6502 South Archer Road
Summit-Argo, IL 60501-1957

Review of applications will continue until the position is filled. For further information contact Donald Chmielewski, 312-567-3537, chmielewski@iit.edu.

IIT is an EEO/AA employer, www.chee.iit.edu



RECRUITMENT ADVERTISING RATE INFORMATION

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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>