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## POSITIONS OPEN

**ENGINEERING MANAGER:** Evonik Degussa Corporation, Calvert City, KY seeks individual to direct team of chemical engineers & designers during development of investment projects & construction & start-up phases; provide support for product scale-up & process improvements projects for the plants of precious metals powder catalysts & continuous process catalysts. Bachelors degree in Chemical Engineering & 6 years' progressive experience as an Engineering Manager required. **Submit resume to: Recruiter DH, P. O. Box 868, Theodore, AL 36590**

### PRODUCTION DEVELOPMENT ENGINEER:

Lead & execute projects in manufacturing of tissue paper. PhD in Polymer Engineering req. **Send resume: Doubletree Paper Mills LLC, 31201 W. Thayer Rd., Gila Bend AZ 85337.**

## ACADEMIC OPENINGS

### POSTDOCTORAL RESEARCH POSITION MONTANA STATE UNIVERSITY

A postdoctoral research position is available to study novel fungal cultures which convert directly cellulosic biomass into biodiesel. The multidisciplinary position will combine experimental and computational research. Ph.D. in (bio)chemical engineering or related field is required along with a proven track record of team work, creative research and peer reviewed publications. MSU-Bozeman is an ADA/EEO/AA/Veteran's Preference Employer. View the full position description on the AIChE Job Board at <http://www.aiche.org>, click Career Resources then Find a Job. **Application material and enquires should be directed to: Ross Carlson, Department of Chemical and Biological Engineering, Montana State University, rossc@erc.montana.edu.** Screening of applications will begin December 1, 2010 and will continue until position is filled.

**ExxonMobil**

Taking on the world's toughest energy challenges.™

## MEMBER OF TECHNICAL STAFF — HYDROCARBON SCIENTIST

ExxonMobil Research and Engineering Company has an immediate opening for a Hydrocarbon Scientist at its Corporate Strategic Research Laboratory located in Annandale (Clinton Township), New Jersey.

This position involves work as part of a multi-disciplinary team of industrial experts to extend our knowledge of heavy hydrocarbons in complex petroleum mixtures into areas of current and future interest. The researcher will utilize both computational tools as well as experimental methods to develop a comprehensive and validated understanding of scientific problems in hydrocarbon science. The research will be in the area of mechanisms and kinetics of organic reactions, with emphasis on complex molecules and complex mixtures of molecules. Possible focus areas of interest include fundamental structure-reactivity relationships, structure-property relationships and thermodynamic and physical property models. The researcher will require strong interpersonal skills and must be able to collaborate with computational chemists, chemical engineers, experimentalists, modelers and analytical chemists. The initial assignment could be in one of several areas which extend hydrocarbon science fundamentals and applications, including biofuels, frontier resources and lubricants.

### Candidates should have the following qualifications:

- A Ph.D. in Chemical Engineering, Chemistry (Physical or Physical Organic), or similar field with expertise in kinetics, reaction engineering, modeling of large multi-component systems, and the ability to express ideas mathematically and develop computer code.
- Familiarity with general hydrocarbon chemistry and analytical methods for determining chemical structures of organic compounds and/or compositions of mixtures of organic compounds.
- Familiarity with experimental methods associated with hydrocarbon chemistry in the petrochemical industry, such as thermal chemistry, catalytic chemistry of hydroprocessing or oxygenate conversion.
- Familiarity with computational software tools for calculating properties and/or kinetics of organic compounds.
- Demonstrated individual contribution to research in a results-oriented team environment.
- A strong track record of external publications and presentations and a desire to publish and participate in external technical meetings is highly desired.
- Strong communication, organizational and interpersonal skills.

### Special consideration will be given to candidates who also possess the following attributes:

- Experience in the petroleum and petrochemical industry.
- Experience in the mechanisms and kinetics of thermal chemistry of hydrocarbons.
- Ability to postulate reaction mechanisms and conduct kinetic studies, with the aid of relevant molecular models and computational tools.

ExxonMobil's Corporate Research Laboratory is a facility of over 200 scientists and engineers involved in fundamental and process-oriented research in diverse scientific disciplines related to ExxonMobil's Upstream, Downstream, Chemicals and Corporate sectors. The Laboratory features excellent support and analytical facilities, an international staff, and is strongly integrated with the external scientific community. Its location in pastoral western New Jersey provides excellent public schools and convenient access to New York City and Philadelphia. ExxonMobil offers an excellent working environment and a competitive compensation and benefits package. Please submit your resume with cover letter to our website at [www.exxonmobil.com/ex](http://www.exxonmobil.com/ex) and apply to Hydrocarbon Scientist.

**EXXONMOBIL IS AN EQUAL OPPORTUNITY EMPLOYER**

## THE CALIFORNIA STATE POLYTECHNIC UNIVERSITY, POMONA - CHEMICAL AND MATERIALS ENGINEERING DEPARTMENT

invites applications and nominations for a tenure-track faculty position in Chemical Engineering. For information, contact: Faculty Search Committee, Chemical and Materials Engineering Department, California State Polytechnic University, Pomona, 3801 West Temple Avenue, Pomona, CA, 91768, (909) 869-2626, by e-mail at [slmason@csupomona.edu](mailto:slmason@csupomona.edu), or on the web at [www.csupomona.edu/~cme](http://www.csupomona.edu/~cme). A review of completed applications will begin on January 14, 2011 and will continue until the position is filled. The University is an EO/AA employer and only accepts degrees from accredited educational institutions.

## THE DEPARTMENT OF CHEMICAL AND BIOLOGICAL ENGINEERING AT MISSOURI UNIVERSITY OF SCIENCE AND TECHNOLOGY (MISSOURI S&T, FORMERLY UNIVERSITY OF MISSOURI-ROLLA)

invites applicants and nominations for one position at the assistant professor tenure-track level (Position #00031319) and one position at the associate/full professor tenure-track/tenured level (Position #00033714) depending upon qualifications. Applicants are expected to have earned a PhD degree in chemical engineering or a related discipline and should show outstanding research potential or record. All research areas will be considered. Responsibilities include teaching undergraduate and graduate courses and establishing an externally funded, nationally and internationally recognized scholarly research program. **Note: All application materials must have a position reference number for the position that you are applying for in order to be processed.** Applications will be accepted until the positions are filled. The final candidate is required to provide official transcript(s) for any college degree(s) listed in application materials submitted. Copies of transcript(s) must be provided prior to the start of employment. In addition, the final candidate may be required to verify other credentials listed in application materials. Failure to provide official transcript(s) or other required verification may result in the withdrawal of the job offer. **Applicants should submit curriculum vitae, a detailed research plan including both short-term and long-term plans and goals, a description of teaching interests and capabilities, and contact information for at least three references. All application**

materials, including resume/vita, cover letter, reference letters, portfolio, etc. must be submitted electronically to the Missouri University of Science and Technology's Human Resource Office using the following address: [hrsinfo@mst.edu](mailto:hrsinfo@mst.edu). Acceptable electronic formats that can be used include PDF and Word. Missouri S&T participates in E-Verify. For more information on E-Verify, please contact DHS at: 1-888-464-4218. Females, minorities, and persons with disabilities are encouraged to apply. The Missouri S&T is an affirmative action/equal opportunity employer.

## THE DEPARTMENT OF CHEMICAL & BIOLOGICAL ENGINEERING AT THE UNIVERSITY OF ALABAMA

seeks applications and nominations for four Associate/Assistant Professor positions, with a start date as early as January 2011. We are seeking candidates who will develop a nationally competitive research program with a strong emphasis on fields related to biological engineering, environmental engineering, or energy. It is expected that the successful candidates will work with interdisciplinary colleagues in UA's biological sciences, chemistry, and engineering departments in developing and sustaining their research programs. The successful candidates must have a balanced perspective on research and instruction. Teaching at both graduate and undergraduate levels is essential. Applicants must hold a doctoral degree in chemical engineering or a closely related field. UA's Chemical and Biological Engineering Department offers B.S., M.S., and Ph.D. degrees, and currently has an enrollment of over 400 undergraduate students, 23 graduate students, and 13 faculty. Sponsored research projects currently exceed \$2 million. The department plays a leading role in the College of Engineering's research and educational missions. For more information on the department, see our website: [che.eng.ua.edu](http://che.eng.ua.edu). **Interested persons should submit a curriculum vita, and a separate document including a cover letter, description of research plans, a statement of teaching philosophy, and the names of three references. These two documents should be uploaded by accessing: [facultyjobs.ua.edu](http://facultyjobs.ua.edu).** The applications may be submitted to one or more of the following postings: 1. Biological Engineering and Other Research Areas: organization 214221-Chemical and Biological Engineering, Requisition # 0804292; 2. Environmental Engineering Research: organization 214221-Chemical and Biological Engineering, Requisition # 0804355; 3. Energy Research: organization 200301-Materials for Information Technology, Requisition # 0803403. Review of applications will begin immediately and will continue until the positions are filled. The University of Alabama is an equal opportunity/affirmative action, Title IX, Section 504, ADA employer.

## SOUTHERN RESEARCH

Legendary Discoveries. Leading Innovation.

Southern Research is currently seeking to fill three Senior Engineering / Principal Investigator positions to be located in Birmingham, Alabama.

- **Sr. Chemical Engineer (Mercury PI)** – This Senior-Level Staff member will serve as a Program Leader/Principal Investigator in the area of mercury hazardous air pollutant emissions control.
- **Sr. Chemical Engineer (Wastewater PI)** – The successful candidate will be responsible for pilot-scale systems applied to the treatment of wastewater from flue gas desulfurization and other water streams associated with steam power boilers.
- **Sr. Mechanical Engineer (Cooling Tower PI)** – Will be responsible for the design, operation, and evaluation of a pilot-scale cooling tower and simulated cooling water circuit as applied at a coal-fired power plant.

For more information and to apply, please visit us online at our website: [www.SouthernResearch.org](http://www.SouthernResearch.org).

## RESEARCH ASSOCIATE

A research associate position is available with a tentative start date of January 1, 2011. An earned doctorate degree in chemical engineering in the area of catalytic reaction engineering is required. Candidates with experience in experimental research methods in catalysis such as TPD/TPR, XRD, SEM and other basic catalyst characterization techniques will be preferred. Duties include synthesis and characterization of catalysts; modification and operation of a reactor setup for catalyst testing, including a GC/MS system; evaluation of the experimental data; and writing and presenting papers. The successful candidate will be responsible for the day-to-day operation of a research laboratory. If interested, **please submit resume and the name of three references to: Dr. Jale Akyurtlu, Chemical Engineering Department, Hampton University, Hampton, VA 23668; e-mail: [jale.akyurtlu@hamptonu.edu](mailto:jale.akyurtlu@hamptonu.edu).**

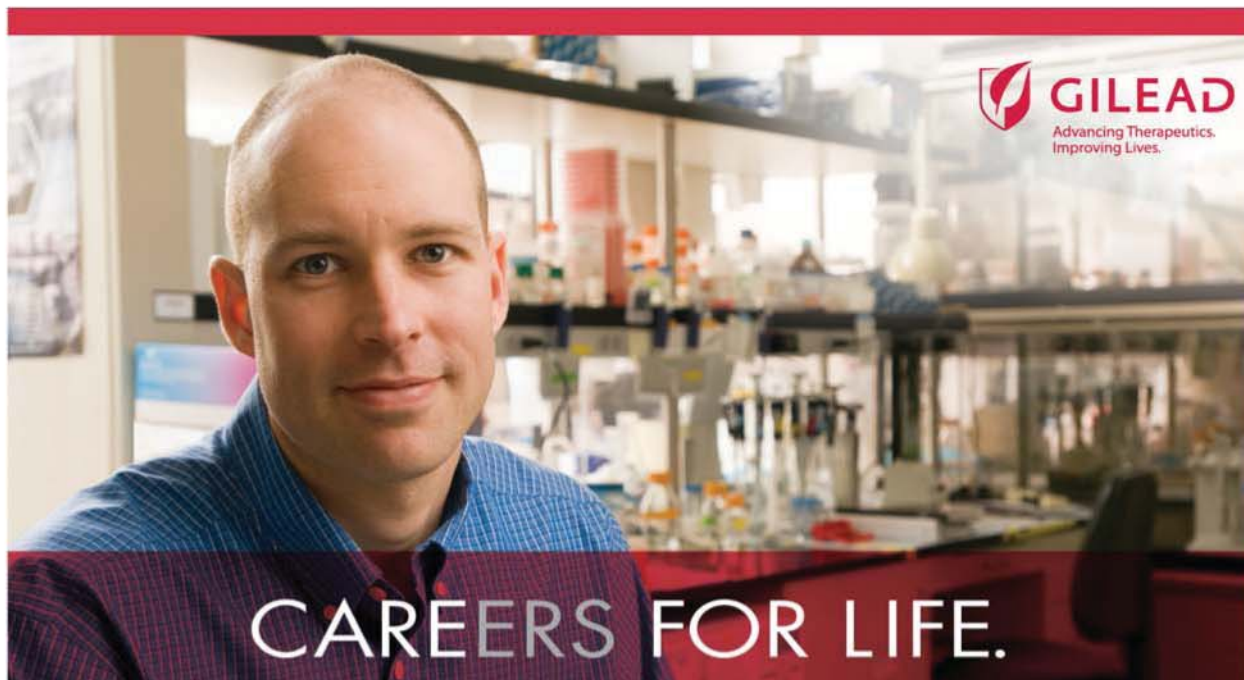
Visit AIChE'S CareerEngineer Job Board  
<http://careerengineer.aiche.org>  
For Additional Employment Opportunities

Some of the many positions you'll see on AIChE's targeted chemical industry job board include:

- Research and Development Engineer – Avery Dennison
- Process Safety Engineer – Nexen, Inc.
- Engineering Manager – Rogers Corporation
- Scientist, Process Engineering – Firmenich Aromatics (China) Co., Ltd.
- Chemical Engineer Consultant – DuPont
- Process Engineer – Gevo, Inc.
- Process Engineer – Ocean Spray Cranberries

While on the site, be sure to upload your resume FREE for employers to view and contact you.





[gilead.com/careers](http://gilead.com/careers)

Gilead Sciences, Inc. is a research-based biopharmaceutical company that discovers, develops and commercializes innovative medicines in areas of unmet need. With each new discovery and experimental drug candidate, we seek to improve the care of patients suffering from life-threatening diseases. Gilead's primary areas of focus include HIV/AIDS, liver disease and serious cardiovascular, cardiopulmonary and respiratory conditions. Our portfolio of 13 marketed products includes a number of category firsts and market leaders, including Atripla- the first single-tablet regimen for HIV infection. The following positions are currently available and will be based in our Foster City, CA.

#### **Associate Scientist – Process Safety**

Req#4094

The role of the Process Safety Scientist with Gilead's Scale Up and Chemical Development groups will be responsible for the following: Identifying and mitigating potential chemical process hazards through the application of common safety evaluation instrumentation such as TGA, DSC, RC-1, ARC, ARSST, etc. and analysis and interpretation of the resulting data. Working closely with synthetic organic chemists in the Chemical Development department to investigate potential hazards associated with synthetic transformations, unit operations, and identify suitable process equipments for executing and scaling up various synthetic processes. Conceiving and executing detailed reaction calorimetry and thermal stability studies to understand the thermal hazards of synthetic transformations. Applying thermochemical, engineering science, and process modelling calculations to further the understanding of chemical systems and their associated hazards.

#### **Sr. Research Associate II - API Crystallization & Engineering**

Req#5262

Work in collaboration with project team members including process chemists, analytical chemist, and formulation scientists to screen, characterize, identify and select API form candidates; Conduct scientific research to design, develop, and scale up crystallization/isolation processes to deliver selected API forms with desired purity, stability profiles and particle characteristics. The successful candidate will have: (1) Fundamental understanding of thermodynamics and kinetics of polymorphism and crystallization (2) Experience with various isolation process development and scale-up including crystallization/filtration/drying, wet milling, and spray drying.

Please contact [Karen.Hurley@gilead.com](mailto:Karen.Hurley@gilead.com)

**THE DEPARTMENT OF CHEMICAL & BIOMOLECULAR ENGINEERING AT UNIVERSITY OF SOUTH ALABAMA** invites applications for a tenure-track faculty position at the Assistant Professor level. Applicants must have a Ph.D. in Chemical Engineering or a related field, an outstanding academic record, a demonstrated commitment to excellence in undergraduate and graduate education, and be capable of establishing a strong international reputation for their research program. Research interests are open but bioengineering, energy, and advanced materials areas are preferred. The Department has an ABET accredited undergraduate program and an industrially oriented Masters program. Furthermore, the Department participates in a Ph.D. Biomedical Engineering track in the Basic Medical Sciences Program in the College of Medicine. The Department is in the process of moving to a new state-of-the-art 155,000 sq. ft. Engineering & Computing Science building in Fall 2011. More details about the Department can be found at [www.usouthal.edu/engineering/chemical](http://www.usouthal.edu/engineering/chemical). The preferred appointment is for Fall 2011; however, applications will be accepted until the position is filled. **Please submit a curriculum vitae, statement of research and teaching plans, representative publications and a list of three references to: Dr. Srinivas Palanki, Department of Chemical & Biomolecular Engineering, University of South Alabama, 307 University Blvd N., EGLB 244, Mobile, AL 36688-0002.** Applicants must be eligible to work in the U.S. The University of South Alabama is an Affirmative Action/Equal Opportunity employer.


**ASSISTANT/ASSOCIATE PROFESSOR POSITION  
DEPARTMENT OF CHEMICAL ENGINEERING  
COLLEGE OF ENGINEERING AND MINERAL RESOURCES  
WEST VIRGINIA UNIVERSITY**

The Department of Chemical Engineering at West Virginia University is soliciting applications for a tenure-track position at the rank of Assistant or Associate Professor. Research expertise is required in one or more of the following areas: regenerative medicine, drug delivery, and therapeutics. A BS and PhD in chemical engineering are required. The successful candidate is expected to develop an externally funded research program, to support graduate students,

to publish peer-reviewed papers, to make presentations at national meetings and to perform service activities commensurate with the position. The candidate will also be required to teach courses at the undergraduate and graduate levels in both biomedical and traditional chemical engineering. In concert with other faculty with interests in Biomedical Engineering, the candidate is also expected to play a key role in developing a biomedical engineering degree program at the undergraduate level. In addition, it is expected that the successful candidate will interact with other researchers in the Department of Chemical Engineering, the College of Engineering and Mineral Resources, and WVU Health Sciences Center to establish an interdisciplinary research program. West Virginia University is a comprehensive land-grant institution with an enrollment of over 29,000 students, and a Carnegie Class High research standing. The College of Engineering and Mineral Resources has seven departments, over 3,100 students, 120 faculty, and approximately \$28M in research expenditures annually. The Department of Chemical Engineering has 13 tenure-track faculty members and over \$3M in annual research expenditures, and offers BS, MS and PhD degrees in chemical engineering along with a certificate in Biomedical Engineering at the undergraduate level. For more information on WVU and Morgantown see: <http://www.wvu.edu> and <http://www.morgantown.com>. Review of the applications will commence on December 15, 2010 and will continue until the position is filled. **Applicants should send a cover letter describing their qualifications to Professor John W. Zondlo, Chair – Search Committee, Department of Chemical Engineering, West Virginia University, PO Box 6102, Morgantown, WV 26506-6102. Applicants should enclose a CV, a teaching plan, a research plan, and names and contact information for five references. Electronic submissions are preferred and should be sent to [che-search@mail.wvu.edu](mailto:che-search@mail.wvu.edu).** The anticipated start date of the position is Fall 2011. West Virginia University is an Equal Opportunity/Affirmative Action Employer which encourages applications from women, minorities and individuals with disabilities, in commitment to building a diverse body of faculty and staff.

**UNIVERSITY OF SOUTH CAROLINA  
CENTER OF ECONOMIC EXCELLENCE ENDOWED CHAIR  
IN CATALYSIS FOR RENEWABLE FUELS**

The University of South Carolina is seeking an outstanding candidate for the Chair in Renewable Fuels for the Fuel Cell Economy. This person will provide strategic leadership for the overall scientific direction of this endowed chair and is expected to contribute to the University's pre-eminent energy-related research and technology efforts. This endowed chair will strengthen an existing group of catalyst scientists and electrochemical engineers. This chair will leverage major funded programs and internationally-recognized research in electrochemical energy systems, particularly fuel cells, hydrogen storage and delivery, catalysis, and electrocatalysis. This initiative is enhanced by participation of several global companies in the Industry/University Center for Fuel Cells, as well as university, regional, and state commitments to development of fuel cells and clean, renewable fuels. The broad research theme envisioned for this chair is in the area of novel catalytic materials for the production of a variety of fuels from renewable sources. Candidates must possess a doctorate in a relevant engineering or science discipline, and are expected to have credentials and a record of achievement consistent with the granting of tenure at the rank of professor. The following standards of performance are expected of the recipients of this endowed chair: Continuing record of scholarly and creative endeavors; leadership in and across academic units and collaborations with scholars within as well as external to one's own university and with the private sector; pursuit of activities that enhance the reputation of the university; generation of additional private, governmental, foundation and other external grants and funds; innovative leadership and mentoring of students and other faculty; attraction of high quality students; and evidence of the ability to promote and develop "enhanced economic opportunities in knowledge-based industries for all South Carolinians" and generate employment opportunities through development of related licenses and patents. **Applications should include a current resume, a research vision and strategy for the implementation of this vision, and the names and affiliations of at least three references. Applications will be kept confidential within the extent allowed by state law. Nominations and applications should be addressed to Chair, Renewable Fuels COEE Search Committee, Department of Chemical Engineering, University of South Carolina, Columbia, SC 29208 and sent electronically to [wofforcs@cec.sc.edu](mailto:wofforcs@cec.sc.edu).** The University of South Carolina is an affirmative action, equal opportunity employer. Applications from underrepresented minority groups and women are especially encouraged.



TEXAS TECH UNIVERSITY  
**Edward E. Whitacre Jr.**  
College of Engineering

### The Maddox Chairs in Energy at Texas Tech University

The Edward E. Whitacre Jr. College of Engineering at Texas Tech University is committed to leveraging these **two exceptionally large endowed chairs at over \$7 million each**, to become one of the nation's leaders in finding solutions to the world's energy challenges. The college is seeking world-class researchers in solar and sustainable energy as candidates for the Maddox Chairs.

**Donovan Maddox Distinguished Engineering Chair in Solar Energy**  
**Jack Maddox Distinguished Engineering Chair in Sustainable Energy**

Candidates are expected to have an international reputation in the fields of solar energy or energy sciences and engineering as evidenced by publications, citations, and peer recognition. In addition, a record of acquiring external resources to support research, team building, and mentoring of associates and graduate and undergraduate students is necessary.

The successful candidates will set the tone, vision, and path in order to build an internationally recognized program at Texas Tech University in solar and sustainable energy research. The appointments will be as a full professor in the Whitacre College of Engineering.

The holders of each of the Maddox Chairs will be expected to not only bring his or her own research activities to the Whitacre College of Engineering, but also to build a collaborative community of scholars at Texas Tech to build a world-class research program.

Screening will begin upon the receipt of applications and will continue until the position is filled. Candidate names will not be made public until the final stages of the search. Curriculum vitae and the names and contact information of at least four references should be submitted at [www.coe.ttu.edu/maddox](http://www.coe.ttu.edu/maddox). To nominate a colleague for these chairs, visit [www.coe.ttu.edu/maddox](http://www.coe.ttu.edu/maddox). Nominations can be made anonymously.

Questions about the Jack Maddox or Donovan Maddox Chairs should be directed to:  
Jack Maddox and Donovan Maddox Search Committees  
Texas Tech University | Whitacre College of Engineering  
Box 43103 | Lubbock, Texas 79409-3013 | [engineeringdean.coe@ttu.edu](mailto:engineeringdean.coe@ttu.edu) | 1.800.528.5583

Texas Tech University | Whitacre College of Engineering  
1.800.528.5583 | [www.coe.ttu.edu/maddox](http://www.coe.ttu.edu/maddox)



## FACULTY POSITION

**THE DEPARTMENT OF CHEMICAL ENGINEERING AT PENN STATE** invites applications for tenured or tenure-track faculty positions at the Assistant, Associate, or Full Professor level. Applications from all research areas within chemical engineering are encouraged. **Applications should be submitted electronically to [smbche@engr.psu.edu](mailto:smbche@engr.psu.edu). Please go to our web-site at <http://www.che.psu.edu> for additional details on the position and application process.** Review of applications will begin on December 1, 2010 and will continue until the position is filled. We encourage applications from individuals of diverse backgrounds. Penn State is committed to affirmative action, equal opportunity, and the diversity of its workforce.

## FACULTY POSITION AVAILABLE AT THE UNIVERSITY OF SOUTHERN CALIFORNIA

The Mork Family Department of Chemical Engineering and Materials Science at the Viterbi School of Engineering at USC is interested in recruiting a faculty at all levels. Candidates with expertise and research and teaching interests in the area of environmental impacts of chemical and bio-chemical processes are encouraged to apply. Topics of particular interest include green and sustainable chemical processes, the reduction and management of process effluents and discharges, and the study of process energy/materials efficiency and conservation. **Qualified applicants should contact Professor Theodore Tsotsis by phone at 213-740-2227 or by e-mail at [tsotsis@usc.edu](mailto:tsotsis@usc.edu).** USC is an Affirmative Action/Equal Opportunity Employer and strongly encourages applications from women and members of underrepresented groups.

## AMERICAN UNIVERSITY OF BEIRUT ENDOWED CHAIR PROFESSOR POSITION

The Faculty of Engineering and Architecture at the American University of Beirut is seeking a highly-qualified candidate for a Chemical Engineering Endowed Chair Professor Position supported by the Al-Kharafi Endowment. The Al-Kharafi Endowed Chair Professorship is being used to attract and fund senior faculty visitors for one to two years to contribute to the growth of the

Chemical Engineering Program and work with a faculty team on personnel and lab development needed to support the chemical engineering degree program. The Chair Professor will also be expected to help develop a strong research program and to engage in teaching of undergraduate and graduate students in chemical engineering. All candidates or nominees should have the education and experience required for a full professor level: a Ph.D., or equivalent degree, in Chemical Engineering or a closely related field. The candidate must be an internationally recognized researcher in his/her research topic in chemical engineering, with a proven track record in teaching, professional service, and lab development experience. Preference will be given to candidates or nominees with proven track record with strong background in areas such as energy science, process engineering, or materials. Applicants with background in biomolecular and nanoscale systems, organic and molecular electronics, optimization, reaction engineering, separation science, and bioprocessing, will also be considered. **Candidates should send electronically their curriculum vitae, a detailed statement of research and teaching plans, and the names and addresses of at least four references to [fea@aub.edu.lb](mailto:fea@aub.edu.lb) and address it to the Dean of Engineering and Architecture, Faculty of Engineering and Architecture, American University of Beirut.** Review of applications will begin as soon as received, and applications will be considered until the position is filled. Information on the Faculty of Engineering and Architecture in AUB can be found at [www.aub.edu.lb/fea/](http://www.aub.edu.lb/fea/). The American University of Beirut is an Affirmative Action/Equal Opportunity Employer. AUB's home page is at [www.aub.edu.lb](http://www.aub.edu.lb).

## AMERICAN UNIVERSITY OF BEIRUT SENIOR FACULTY POSITION

The Faculty of Engineering and Architecture at the American University of Beirut invites applications to fill a senior faculty position in chemical engineering at the Associate or full professor rank. Applications in all research areas will be considered, with emphasis on candidates with expertise in Chemical Engineering core subjects such as thermodynamics, transport phenomena, reactor engineering, separation processes, and process control and optimization.



**المعهد البترولي**  
THE PETROLEUM INSTITUTE ABU DHABI



The Petroleum Institute (PI) is devoted to engineering education and research in areas of importance to the energy sector. PI's sponsors and affiliates include the Abu Dhabi National Oil Company (ADNOC), BP, Shell, Jodco, and Total. The Institute has modern laboratories and facilities with the creation of additional research centers underway. PI is affiliated with and has collaborative education and research programs with major research Universities in the USA, Europe and China.

We are inviting applications for admission to the graduate program in chemical engineering in Fall 2011 or Spring 2012. If you are a recent graduate motivated to undertake a challenging and rigorous program of study and research in all areas of chemical engineering and would like to pursue a Master of Engineering degree, a Master of Science degree, or a PhD degree in collaboration with one of our partner Universities, you are encouraged to apply for admission.

The current Graduate Program Catalogue is available at the following URL:  
**[http://www.pi.ac.ae/PI\\_STU/ro/](http://www.pi.ac.ae/PI_STU/ro/)**

**Stipend / Benefits:** Exceptionally qualified students can apply for Graduate Fellowships. Stipend is competitive and commensurate with qualifications and experience, with an excellent benefits package, including a twelve-month base stipend, on-campus room and board, medical insurance, and travel funds to attend conferences and stays at PI's partner institutions. Applicant must be in excellent health and will be required to pass a pre-award physical examination. The UAE levies no income taxes.

Interested candidates are requested to submit an online application at  
**[http://www.pi.ac.ae/PI\\_ACA/pgp/fellow\\_who.php](http://www.pi.ac.ae/PI_ACA/pgp/fellow_who.php)**

**Application Deadlines:**  
Fall Semester: 1 April - Spring Semester: 1 October



## DEAN - COLLEGE OF ENGINEERING

Rowan University is seeking an innovative, dynamic, and creative leader to be Dean of the College of Engineering. Rowan University is a comprehensive public institution with over 11,000 undergraduate and graduate students enrolled in seven colleges. Located in Glassboro, New Jersey, Rowan is ideally situated in the crescent extending from New York City through Philadelphia to Washington, D.C. *U.S. News & World Report* consistently ranks Rowan University's College of Engineering among the nation's best undergraduate engineering programs.

We are looking for an individual with vision, enthusiasm, and experience to take the College of Engineering to a new level of excellence. Please see the full position announcement at **<http://engineering.rowan.edu>**.

Rowan University is an EEO employer.

tion. Applicants must have a PhD degree in Chemical Engineering or in a closely related field, preferably with postdoctoral or industrial experience. At least one degree must have been earned in chemical engineering. The applicant is expected to have a leading role in maintaining a strong and up-to-date undergraduate program, establishing a graduate program, and pursuing a vigorous research program that will attract external funding. Salary is commensurate with education and experience. Applications will be received until the position is filled. Applicants should include a complete resume, a brief statement of their interests that includes their vision of their teaching and research, and the names and addresses of at least four references. **The complete application should be sent to: Dean of Engineering and Architecture (email: fea@aub.edu.lb), Faculty of Engineering and Architecture, American University of Beirut, P.O. Box 11-0236, Riad El-Solh, Beirut 1107-2020, Lebanon.** Information on the Faculty of Engineering and Architecture in AUB can be found at [www.aub.edu.lb/fea/](http://www.aub.edu.lb/fea/). The American University of Beirut is an Affirmative Action/Equal Opportunity Employer. AUB's home page is at [www.aub.edu.lb](http://www.aub.edu.lb).

#### TO PLACE A RECRUITMENT AD

**CONTACT: Denise DeLuca Mallon,**  
Global Recruitment Sales Manager  
at 646-279-2149 or [denid@aiche.org](mailto:denid@aiche.org)



UNIVERSITY OF  
MARYLAND

#### University of Maryland College Park:

The Department of Chemical and Biomolecular Engineering seeks outstanding individuals for tenure-track faculty position(s). Successful applicants will have a Ph.D. in Chemical Engineering or a related discipline. We seek the best possible candidates, irrespective of research field or academic rank. For best consideration, applications should be received by Dec. 15, 2010. However, the position will remain open until it is filled.

A cover letter, curriculum vitae, statement of research and teaching interests, and names of at least three professional references should be submitted electronically to: [jobs.umd.edu](http://jobs.umd.edu); position number 116873.

Questions about the position can be directed to the Chair of the Search Committee, Prof. Srinivasa R. Raghavan, at [sraghava@umd.edu](mailto:sraghava@umd.edu) or (301)-405-8164.

*The University of Maryland is an equal opportunity/affirmative action employer. Women and minority candidates are especially encouraged to apply.*

**[www.chbe.umd.edu](http://www.chbe.umd.edu)**

*The all-inclusive guide on how to convert fossil fuel energy using chemical looping technology*

## Chemical Looping Systems for Fossil Energy Conversions

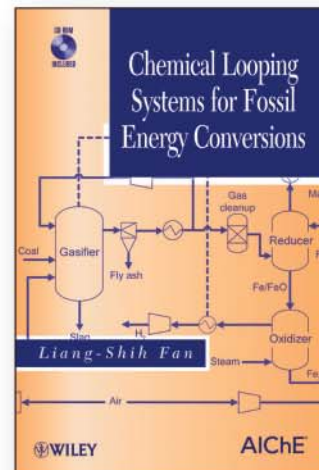
Liang-Shih Fan

978-0-470-12868-8 / 432 pages /  
Hardcover w/ CD-ROM / August 2010  
\$99.95 US / \$119.95 CAN / £66.95 / €83.90

*Chemical Looping Systems for Fossil Energy Conversions* explores the new techniques that have been developed for direct or indirect processing of coal and other carbonaceous feedstock in chemical looping reactors; covers the role the science plays in the production of steam, syngas, hydrogen, chemicals, electricity, and liquid fuels; and takes a close look at how chemical looping systems are poised to make the leap from the laboratory to real-world commercial applications. This forward-thinking reference:

- Includes a CD with chemical looping simulation files and the simulation results based on the ASPEN Plus® software
- Provides fundamentals and applications of chemical looping processes that can be used in the combustion and/or gasification of carbon-based materials such as coal, natural gas, petroleum coke, and biomass
- Contains many references for research or courses concerning chemical processes, fossil energy systems, and CO<sub>2</sub> capture technologies

Detailing the fossil fuel conversion procedures that can make these looping processes an effective and economical practice for maximizing natural resource utilization, this book offers an in-depth view of the research conducted in this field from a commercially viable perspective and contributes a sound long-term energy strategy that holds the promise of benefiting generations to come.



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