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**ACADEMIC OPENINGS**

**RESEARCH ASSOCIATE, DEPARTMENT OF MECHANICAL AND AEROSPACE ENGINEERING AT RUTGERS, THE STATE UNIVERSITY**

The Department of Mechanical and Aerospace Engineering at Rutgers, The State University seeks applications for the position of Research Associate in the area of multiscale modeling of granular solids with particular emphasis on pharmaceutical engineering. The research focuses on the development of multiscale numerical methods and their application to the study and characterization of pharmaceutical unit operations such as powder compaction. The responsibilities include but are not limited to developing numerical methods and theoretical models of the compaction of confined granular solids, studying the relationship between the powder bed mechano-chemical properties and the pharmaceutical product performance, and guiding graduate and undergraduate students. The applicant must be highly

motivated and independent, and must have a Ph.D. in Mechanical Engineering or related field with experience in computational solid mechanics research. They should have demonstrated ability to perform independent research. Candidates with strong background in micromechanical modeling of heterogeneous solids, granular media, finite element and multiscale methods, and numerical time integration schemes are highly encouraged to apply. Proficiency with C/C++, multi-threading and parallel computing is essential. In addition to a high degree of technical proficiency, this position also requires excellent communication skills, interpersonal skills, attention to detail, planning skills, multi-tasking, and strong written and verbal communication skills. **Applicants are requested to send a letter describing their prior research experience, current interests and goals, and curriculum vitae to [cuitino@jove.rutgers.edu](mailto:cuitino@jove.rutgers.edu) or mail to Department of Mechanical and Aerospace Engineering at Rutgers, The State University, 98 Brett Road, Piscataway, NJ 08854.**

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Atieh Aburaqabah

Director, SABIC CRI/KAUST

ATIEHA@sabic.com

**WEST VIRGINIA UNIVERSITY, CHEMICAL ENGINEERING: PROCESS SIMULATION, ANALYSIS, AND MODELING OF ENERGY SYSTEMS, ASSISTANT/ASSOCIATE PROFESSOR, DEPARTMENT OF CHEMICAL ENGINEERING, COLLEGE OF ENGINEERING AND MINERAL RESOURCES**

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: Simulation and Control of Energy Processes, Energy Systems Analysis, and Modeling of Energy Processes. A BS and PhD in chemical engineering are required. The successful candidate is expected to develop an externally-funded research program, to support and mentor 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 both the undergraduate and graduate levels in chemical engineering. The candidate is expected to play a key role in developing courses in energy systems analysis and modeling and related areas. 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 other WVU faculty with interests in related areas. 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 September 15, 2011 and will continue until the position is filled. **Applicants should send a cover letter describing their qualifications to Professor Richard Turton, 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 Spring or Fall 2012. West Virginia University is the recipient of an NSF Advanced Award for gender equity. 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. In addition, the University is responsive to the needs of dual career couples.

**FACULTY POSITION  
EGYPT-JAPAN UNIVERSITY OF SCIENCE AND TECHNOLOGY (E-JUST)**

The Chemical and Petrochemicals Engineering Department (CPE) at the Egypt-Japan University of Science and Technology (E-JUST) invites applications for a faculty position at the assistant professor level. The successful candidate will complement and add to the program's foundational strength in chemical, petrochemicals, biochemical or biomolecular engineering. Applicants should have a PhD degree in the mentioned fields, and demonstrated excellence in research and strong commitment to teaching. **Interested candidates can apply (i) online at <http://www.ejust.edu.eg> or (ii) they can send an email to the CPE Department Chairperson ([mohamad.ayad@ejust.edu.eg](mailto:mohamad.ayad@ejust.edu.eg)) with a covering letter, research and teaching interests (philosophies) and curriculum vitae.**

**THE DEPARTMENT OF CHEMICAL & BIOMOLECULAR ENGINEERING  
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 by the time of appointment, 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 process systems engineering and bioengineering 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 moving to a new state-of-the-art 155,000 sq. ft. Engineering & Computing Science building in Spring 2012. The preferred appointment is for Fall 2012; however, a review of applications will begin September 26, 2011, and continue until the position is filled. **A complete job posting and application process can be found on our website at [www.southalabama.edu/engineering/chemical](http://www.southalabama.edu/engineering/chemical).** Applicants must be eligible to work in the U.S. The University of South Alabama is an Affirmative Action/Equal Opportunity employer.

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