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POSITIONS AVAILABLE

THE HEMISPHERIC CENTER FOR ENVIRONMENTAL TECHNOLOGY

[www.hcet.fiu.edu], an applied research and technology development organization at Florida International University (FIU) in Miami, Florida has non-tenure research openings in Fossil Fuel Reforming, Biomass Processing, Fuel Cells, Surface Water Quality, Monitored Natural Attenuation, and Bioremediation. Positions are available at mid-career level (Ph.D. with 5-7 years experience and strong grant record) and postdoctoral level. Email resume to **Dr. Rajiv Srivastava at rajiv@hcet.fiu.edu**. **FIU is an EOE.**

JOB TITLE: SENIOR RESEARCH SCIENTIST

Company Name: Abengoa Bioenergy R&D, Inc.

Location: Chesterfield, Missouri

Job Description: Abengoa Bioenergy, the largest ethanol producer in Europe and fifth largest in the U.S., is seeking a scientist to develop novel biomass ethanol conversion processes. Duties include: setting up and operating pilot plant equipment; conducting research to maximize ethanol yield and improving co-product value from grain and biomass. Evaluate new biocatalysts. Develop cost effective enzymatic hydrolysis, ethanol fermentation and co-product recovery processes.

Job Requirements: Minimum requirements: B.S. degree in microbiology or biology or biochemistry or biochemical engineering plus 10 years of research experience in the fermentation or biotechnology field (or MS or PhD degree plus 7 years of relevant research experience). Experience in enzyme application, fermentation, cell culture & process development. Proven ability to initiate, plan, conduct research, and document research results. Proficient in MS Office, statistical experimental design and data analysis. Excellent interpersonal skills.

Replies can be sent to:

Asif Malik

asif.malik@bioenergy.abengoa.com

JOB TITLE: SENIOR PROCESS ENGINEER

Company Name: Abengoa Bioenergy R&D, Inc.

Location: Chesterfield, MO

Job Description: Abengoa Bioenergy, the largest ethanol producer in Europe and fifth largest in the U.S., is seeking a Senior Process Engineer to develop novel biomass ethanol conversion processes. This position is located in Chesterfield, MO., and requires some travel to conduct and monitor research activities. Duties include: coordinating research activities to maximize ethanol yield and improving co-product value from grain and biomass; setting up and operating pilot plant equipment; process design and economic evaluation.

Job Requirements: Minimum requirements: B.S. or MS degree in chemical engineering or biochemical engineering plus 8+ years of experience (or PhD degree plus 5+ years of experience) in process development in at least one of the following areas: pretreatment, enzymatic hydrolysis, and ethanol fermentation. Proven ability to initiate, plan, conduct research, and document research results. Experience in statistical experimental design, data analysis, process design and scaleup. Good knowledge of chemical process simulation software such as Aspen Plus is desirable. Excellent interpersonal skills.

Reply Contact:

Quang Nguyen

qnguyen@bioenergy.abengoa.com

ABB / ISYS

Industry analyst looking for feedback from individuals familiar with ABB and Invensys automation products. As a customer, a supplier or an employee of these companies you are willing to provide consulting services eg. ABB and Invensys prospects, strategies, their competitive positioning and their respective strengths and weaknesses and provide me with any additional insights that could help me make informed investment decision. Very attractive consulting fees.

Please send your details to

dtran_europe@yahoo.co.uk

STANFORD UNIVERSITY, SCHOOL OF ENGINEERING

The Managing Director functions as an executive and is the senior non-academic staff member for the Global Climate and Energy Project. The position has managerial responsibility for program development, administration, and success. The Managing Director assists the GCEP Directors in all aspects and activities of the program and takes independent responsibility for assigned areas. The Managing Director collaborates with faculty members and has significant subject knowledge; the incumbent can act for the faculty Directors as needed and commit the program to a new or changed course of action by virtue of authority delegated by the faculty Directors. Key responsibilities include: Manage and shape all aspects of program development and implementation of the Project. Collaborate with faculty on developing research program and research agenda and oversee implementation. Supervise definition and implementation of a publications program of substantial scope and complexity. Establish and maintain communications network among scholars, centers, universities, etc. Help formulate strategies and define goals for GCEP. Work with the Director and Deputy Director on long-term planning for GCEP. Develop policies and procedures for GCEP as they relate to academic or programmatic activities. Supervise technical staff working in the areas of portfolio development and systems analysis. Negotiate contracts with external institutions associating with GCEP. Build and maintain productive relationships with sponsors and collaborating institutions. Supervise preparation of periodic financial and technical reports and annual operating plans. Represent GCEP to external and internal audiences. Serve as one of the principal ambassadors of the project to industry partners.

QUALIFICATIONS - Education and experience equivalent to a PhD in a field related to energy. Demonstrated ability to develop and implement innovative programs and research agendas. Demonstrated experience in contract negotiation and administration, academic program development and management. Ability to provide strong leadership and to work effectively with faculty participating in research under GCEP. Demonstrated competence in research and writing with a good understanding of the type of research involved with GCEP. Significant experience in research administration.

Please reply to:

Linda Faris

Stanford University

School of Engineering, Human Resources

380 Panama Mall, Rm. 251

Stanford, CA 94305-4027

E-mail: lfaris@stanford.edu

Fax: 650-723-3805

ACADEMIC OPENINGS

BUCKNELL UNIVERSITY, VISITING POSITION

Bucknell University anticipates an opening for a one-year visiting assistant professor position in the department of chemical engineering beginning fall 2003. Primary responsibilities are classroom and laboratory instruction within the core chemical engineering curriculum at the undergraduate and master's levels. Please visit the Bucknell chemical engineering department on the web at: www.eg.bucknell.edu/cheg/ for full details.

PENN STATE CAPITAL COLLEGE - HARRISBURG CAMPUS BERG PROFESSOR OF SUSTAINABLE ENGINEERING:

A tenure-track senior level position in the School of Science, Engineering & Technology for a scholar with an outstanding record in interdisciplinary environmental practice, teaching and research to fill the endowed "Quentin Berg University Chair in Engineering" at Capital College. Candidates must have expertise in one or more areas of sustainable systems engineering, green engineering, pollution prevention and/or industrial ecology. Additional information for the College, Centers, and Faculty may be found at the Penn State Harrisburg web page and links at www.hbg.psu.edu/epc. Applicants should submit curriculum vitae, names of three references, and a research and teaching statement immediately to: **Berg Professor Faculty Search Committee, c/o Mrs. Dorothy J. Guy, Office of Human Resources, Penn State Capital College, 777 W. Harrisburg Pike, Box CEP, Middletown, PA 17057-4898.** Nominations of individuals are welcome. Applicant review will begin on May 1, 2003 and continue until the position is filled. Penn State is committed to affirmative action, equal opportunity, and the diversity of its workforce.

TUNGHAI UNIVERSITY, TAICHUNG, TAIWAN.

The Department of Chemical Engineering is seeking an outstanding individual for a tenure-track faculty position at all levels beginning summer 2003. A Ph.D. in Chemical Engineering or closely related fields is required. Candidates should have a distinguished academic record, exceptional potential and commitment for excellence in undergraduate and graduate teaching and research in the following areas:

- (1) Biochemical engineering, biotechnology or genetic engineering.
- (2) Material science and engineering, bio-material, nano-material, optoelectronic material or related fields are preferred.

A complete application should consist of:

- (1) Curriculum vitae and bibliography
- (2) Undergraduate and graduate transcripts
- (3) Research and teaching plans
- (4) Three letters of recommendation
- (5) Copies of relevant publications.

Please submit all application materials by May 31st, 2003, to: Faculty Search Committee, Department of Chemical Engineering, Tunghai University, No.181, Taichung Kang Road, Sec. 3, Taichung, Taiwan 40704, R.O.C. and; Office of Personnel, Tunghai University, No.181, Taichung Kang Road, Sec. 3, Taichung, Taiwan 40704, R.O.C.

CATHOLIC UNIVERSITY OF AMERICA - Vitreous State Laboratory, Development Engineer (Chemical), Washington, DC.

Job Description: The successful candidate will participate in research, development, and operation of pilot processes and installations related to the vitrification of nuclear wastes. Primary involvement will be in process measurement and analysis of emissions control systems. Responsibilities include: 1. experimental design, test methodology development and field implementation; 2. verification of quality and adequacy of experimental data being acquired; 3. analysis and reduction of experimental data to reportable form; 4. report writing and review. Experience/Education:

PURDUE UNIVERSITY, SCHOOL OF CHEMICAL ENGINEERING. The School of Chemical Engineering at Purdue University invites applications from highly accomplished scholars for the position of Head of the School. We have an excellent and ambitious faculty, who look forward to a Head, capable of placing the department among the very top in the country through inspired leadership. Unusual resource growth at Purdue presents the prospective Head with a unique opportunity to integrate into a new drive towards preeminence throughout the Schools of Engineering, by championing new thrusts in research and education. A \$20 million addition to the Chemical Engineering building is now under construction, and a renovation of the existing building is in preparation. The funds for these construction projects were raised through the generosity and active participation of our alumni and industrial friends, and this team is available to work with the new Head in future ventures. Our new Head will have the opportunity to hire six new faculty in both core and growth areas, bringing our faculty ranks to 30+. With a graduate program of over 100 MS and PhD students, and an undergraduate program of about 400 students (graduating class of 100-140 students) the Headship of our department calls for some experience in administration and interpersonal skills. Candidates should have a PhD or equivalent in Chemical Engineering or an allied field and should be committed to academic excellence in research as well as teaching. Applicants should submit a detailed vita with names and addresses of four references and a Statement of Vision to **Professor Doraiswami Ramkrishna, School of Chemical Engineering, Forney Hall of Chemical Engineering, Room 7D, 480 Stadium Mall Drive, West Lafayette, IN 47907-2050. Phone:(765)494-4066, FAX: (765) 494-0805. E-MAIL ADDRESS: ramkrish@ecn.purdue.edu.**

M.Sc or Ph.D. in chemical engineering or related discipline with minimum of 3 years of post-M.Sc. or 1 year of post-doctoral job experience. Hands-on experience with multiphase flow and transport phenomena in chemical processes; experience in dynamic modeling; working knowledge and expertise in modern flow measurement techniques and signal processing would be beneficial. Strong technical writing skills and excellent written/verbal communication and interpersonal skills are essential for this position. Candidates with industrial R&D experience are preferred. Contact Information: **Ms. Carol Matlack, (202) 319-5549, carolm@vsl.cua.edu. EOE**

FACULTY POSITION IN BIOMEDICAL ENGINEERING

The College of Engineering and Information Technology at the University of South Carolina invites applications for faculty positions at all ranks for a new program in Biomedical Engineering. In particular, we are seeking faculty candidates with Biomedical Engineering research interests for the Departments of Chemical and Mechanical Engineering. Successful applicants are expected to establish an externally-funded high-quality research program and work closely with the Clinical Orthopedic faculty in the School of Medicine. They are also expected to develop courses for a new graduate degree program in Biomedical Engineering and supervise research projects by orthopedic residents. An existing endowment will support all research interactions with the Department of Orthopedics.

Applicants should send curriculum vitae, a statement of research and teaching plans, and names of three references to: **Biomedical Engineering Search Committee, c/o Professor William Ranson, College of Engineering and Information Technology, University of South Carolina, Columbia, SC 29208, or e-mail their packages to: ranson@enr.sc.edu.** The University of South Carolina is an affirmative action, equal opportunity employer.

THE HONG KONG UNIVERSITY OF SCIENCE AND TECHNOLOGY

The University invites applications and nominations for the post of: DEAN OF ENGINEERING

The HKUST School of Engineering, the largest School of the University, currently enrolls about 38% of the University's 5,600 undergraduate students and 49% of 1,400 postgraduate students. It comprises six departments: Chemical Engineering, Civil Engineering, Computer Science, Electrical & Electronic Engineering, Industrial Engineering & Engineering Management, and Mechanical Engineering.

The Dean is an executive and full-time appointment, and is a member of the senior administrative team of the University. The appointee is expected to play a leading role in effecting the academic objectives of the School, and guiding the School in its diverse activities including program developments, research directions, and industrial partnerships and linkages. Applicants should be established scholars with relevant administrative experience.

Salary will be very competitive with generous benefits. A gratuity will be payable upon successful completion of the contract. Concurrent with a professorial appointment, the initial appointment as Dean will normally be for a term of 3 years.

Applications/Nominations together with a curriculum vitae, and names and addresses of three referees should be sent to the Chairman of the Search Committee for Dean of Engineering, c/o Personnel Office, HKUST, Clear Water Bay, Kowloon, Hong Kong [fax no. (852) 2358 0700] on or before Monday, 31 March 2003. All applications and nominations will be treated in strict confidence. More information about the University is available on the website <www.ust.hk>.

THE UNIVERSITY OF WESTERN ONTARIO, A TENURE TRACK

Position at Assistant Professor Level, Department of Chemical and Biochemical Engineering, London Ontario

Applications are invited for a tenure-track (probationary) position at the Assistant Professor level in the Department of Chemical and Biochemical Engineering. Chemical and Biochemical Engineering at Western has strong research interests in Chemical Reaction Engineering, Fluidization, Polymerization, Biochemical Engineering, Environmental Engineering, Biomaterials Engineering, Industrial Crystallization and Process Control. The successful candidate should have a PhD in chemical engineering or a related discipline with a background in reaction engineering and/or synthesis and handling of pharmaceuticals. Strong candidates in related areas will also be considered. Industrial experience is very desirable. Applicants should have a distinguished research record, excellent communication and teaching skills, and be eligible for registration as a professional engineer in Ontario. Past research and/or teaching experience will be an important consideration in the selection of the successful candidate.

The new faculty member is expected to establish an independent research program, as well as seek collaborative opportunities within and across Departments. The individual will also be expected to teach undergraduate and graduate engineering courses, and supervise graduate students.

Interested applicants should forward their curriculum vitae, a statement on their research and teaching vision, and the names of three referees to:

Prof. S. Rohani, Chair
Department of Chemical and Biochemical Engineering
Faculty of Engineering
The University of Western Ontario
London, Ontario, N6A 5B9

The deadline for the receipt of the application is May 31, 2003 or until the position is filled for an appointment as of July 1, 2003 (or as soon as possible thereafter).

This position is subject to budget approval. All qualified candidates are encouraged to apply; however Canadians and permanent residents will be given priority. The University of Western Ontario is committed to

employment equity and welcomes applications from all qualified women and men, including visible minorities, aboriginal people and persons with disabilities.

GEORGIA INSTITUTE OF TECHNOLOGY

Nominations and applications are sought for the Gossage Chair in Chemical Engineering. Candidates should be interested in both undergraduate and graduate education and have research interests and significant accomplishments. Candidates from academia, industry or national labs are encouraged to apply. Information about the School of Chemical Engineering and links to other activities at Georgia Tech can be located at the website: www.che.gatech.edu. Search committee review of credentials will begin immediately, but nominations and applications will be accepted for consideration until the position is filled.

A resume, names and addresses of references, and a statement of research interests should be submitted to **Ronald W. Rousseau, Professor and Chair, School of Chemical Engineering, Georgia Institute of Technology, Atlanta, GA 30332-0100**.

Georgia Tech is an equal opportunity employer and a unit of the University system of Georgia.

LEHIGH UNIVERSITY

The Department of Chemical Engineering at Lehigh University seeks applications for two open positions at the level of Assistant Professor of Chemical Engineering with a preferred starting date of August 2003. All areas are open; however, we are particularly interested in candidates with research interests in biotechnology, materials, polymers, interfaces and nanotechnology. The campus has strong interdisciplinary and interdepartmental groups in all of these areas. The successful candidate will be expected to develop a strong research program and to engage in enthusiastic teaching of undergraduate and graduate students in chemical engineering. Candidates should send a curriculum vitae, including a graduate transcript, a detailed statement of research and teaching plans, and the names and addresses of four (4) references to:

Professor Anthony J. McHugh
Chair of Search Committee
Department of Chemical Engineering
Lehigh University
111 Research Drive
Bethlehem, PA 18015

Search committee review of credentials will begin immediately; however, applications will be accepted for consideration until the position is filled. For more information on our department consult our home page at:

<http://www3.lehigh.edu/engineering/cheme>

Lehigh University is an Affirmative Action/Equal Opportunity Employer. Women and members of minority groups are encouraged to apply.

UNIVERSITY OF MINNESOTA-DULUTH,

The Department of Chemical Engineering, Tenure-Track Faculty Position

The University of Minnesota-Duluth is seeking a full-time (nine-month) tenure-track faculty member at the assistant professor level, although exceptional candidates with a decade or more of industrial and/or academic experience will be considered for the associate rank. The position has an affiliate appointment in the College of Pharmacy at the Twin Cities Campus. The successful candidate must have a BS in Chemical Engineering, an earned doctorate in Chemical Engineering or closely related field, and be able to teach core undergraduate chemical engineering courses and laboratories and drug delivery in the Pharmaceutics curriculum. The primary mission of the department being quality undergraduate education, excellent

communication skills in a candidate is a must.

Scholarly activity is highly valued and is required by our campus and departmental missions. The research area is open. Further information about the position and the department/university is available at our web site, www.d.umn.edu/che.

Completed applications must include a letter of application, a curriculum vita, a statement of teaching interests and research plan, and contact information for three professional references. Send completed applications to:

Chemical Engineering Search Committee, Department of Chemical Engineering, University of Minnesota Duluth, 1303 Ordean Court, Duluth, MN 55812. Review of complete applications will begin February 21, 2003, and will continue until the position is filled. The University of Minnesota is an equal opportunity educator and employer.

UNIVERSITY OF CONNECTICUT,

Department of Chemical Engineering. Connecticut Global Fuel Cell Center Endowed Chair in PEM Fuel Cell Technology

The Connecticut Global Fuel Cell Center at the School of Engineering, University of Connecticut invites applications and nominations for an Endowed Chair Professor position. The faculty member will conduct visionary research in the general area of Proton Exchange Membrane fuel cell technology.

The Center (www.ctfuelcell.uconn.edu) was recently established and is housed in a new, 16,000 sq. ft. facility located at the Storrs campus. The mission of the Center is to become the world's premier academic resource for research and development in fuel cell technologies. Applicants must have a Ph.D., as well as a distinguished record of research relevant to PEM fuel cell technology. Academic appointment will be at the rank of full professor in the Department of Chemical Engineering (www.engr.uconn.edu/che/).

A primary component of the Center's structure is the establishment of 6 endowed chair positions; each affiliated with a \$1 million endowment (\$6 million total). The Chaired Professors will have discretionary authority to expend the proceeds of the endowment to advance the research, educational, and outreach activities in the field. The first two Chair Professor positions have been filled by individuals recently recruited to Connecticut.

The School of Engineering includes 110 faculty members, 1,300 undergraduate and 400 graduate students. Since 1999, 17 new endowed faculty positions have been established within the School. For more information, please visit www.engr.uconn.edu. The University is located in scenic Northeast Connecticut, an area that is rich with private sector fuel cell related research and development activity. The University is consistently ranked as the top public university in New England, is one of the former Research I universities, and is in the midst of a multi-year, state-funded \$2.3 billion initiative to expand the research and teaching infrastructure.

Applications, including a curriculum vitae along with the contact information of at least five references should be sent to: **Prof. Theodore Bergman, Department of Mechanical Engineering, 191 Auditorium Road, Unit 3139, University of Connecticut, Storrs, CT 06269-3139. Review of applications will begin immediately, and will continue until the position is filled.**

Direct inquiries to: tberg@engr.uconn.edu. The University of Connecticut encourages under-represented groups to apply for this position.

NEW JERSEY INSTITUTE OF TECHNOLOGY

Assistant/Associate Professor - Chemical Engineering

The Otto H. York Department of Chemical Engineering at New Jersey Institute of Technology (NJIT) invites applications and/or nominations for a tenure-track faculty position at open rank. A doctorate in chemical engineering or closely related field required. The ideal candidate will have research interests & expertise in areas related to pharmaceutical engineering applications (e.g., crystallization, separations, nanotechnology, powder processing, drug delivery systems, formulation, novel catalysis & microreactors). The successful candidate is expected to develop a vigorous & externally funded research program & teach chemical & pharmaceutical engineering courses at both undergraduate & graduate levels. Rank will be commensurate with experience & prior track record. The university reserves the right to substitute equivalent education and/or experience at its discretion. Applicants should submit a copy of their curriculum vitae, a

statement of research plans & teaching philosophy & names of 4 references to: New Jersey Institute of Technology, attn: **Personnel Box AAP-CE, University Heights, Newark, NJ 07102-1982. Applications will be accepted until a suitable candidate is found. Women & minority candidates are encouraged to apply.** NJIT is an equal opportunity/affirmative action employer.

UNIVERSITY OF KANSAS SCHOOL OF ENGINEERING

The School of Engineering at the University of Kansas invites applications for two faculty positions (rank open) in the Bioengineering area. The home department will be either Mechanical Engineering (ME) or Chemical and Petroleum Engineering (CPE) depending upon qualifications. Applicants should have demonstrated strong research interests and experience in either (a) biomechanics, or (b) chemical engineering related to biomedical applications.

Assistant Professor applicants should have demonstrated high potential for success in engineering education, research, and professional service. Associate and Full Professor applicants should have outstanding records in these areas and be able to spearhead the development of strong bio-related research and educational ties between engineering and the life science disciplines. **A detailed position description and application procedures can be found at the ME (www.engr.ku.edu/me) and CPE (www.cpe.engr.ku.edu) websites. Review of applications begins March 15, 2003.**

The University of Kansas is an Equal Opportunity/Affirmative Action Employer.

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