



The Combustion Institute

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Multiple Faculty Openings

The College of Engineering and Computing at the University of South Carolina (USC) will be hiring over 40 faculty members at all ranks over the next four years. Among areas of special interest, the College is seeking to strengthen efforts contributing to advancing fuel and energy technologies for power generation and transportation that lead to improved utilization efficiency, reduced emissions, and future sustainability. Crosscutting areas of interest include clean coal utilization technologies, including carbon sequestration, gaseous and liquid fuels for power generation and transportation, advanced nuclear technologies, and infrastructural energy technology assessment. Successful applicants are expected to engage in interdisciplinary fundamental and applications driven efforts research and to contribute to development, implementation, and delivery of modern and timely curricula that provide the nation with innovative leadership in government, industry, and society.

Fuel and Energy Conversion Technologies

Delivering clean, affordable, secure, and reliable energy for power generation and transportation over the near term and coming decades requires a holistic and multidisciplinary approach. The College is expanding its existing strengths related to “Fuel and Energy Conversion Technologies” for power generation and transportation, involving combustion (experimental and simulations) of fuels derived from coal, natural gas, petroleum, waste, recycled materials, and renewable resources. Optimizing the interface between fuels and energy conversion technologies will lead to major improvements in fuel utilization efficiency, dynamic performance, and emissions reductions, along with opportunities to further reduce carbon emissions through sequestration, repurposing, and storage of carbon dioxide.

Applicants must possess a Ph.D. in Mechanical Engineering, Chemical Engineering or a closely related field. Successful candidates will have demonstrated experience with a combination of laboratory experiments, characterization methods, modeling and simulation, or relevant policy matters.

Applications should be submitted by email to FutureFuels2017@cec.sc.edu, in the form of a single PDF document, containing: 1) cover letter 1) vitae, 2) statement of research plans, 3) statement of teaching interests, and 4) contact information for three references. The selection process will begin on January 31st, 2017 and will continue until the positions are filled. The appointment is expected to be at the Assistant Professor level, but applicants may be considered for a tenured appointment in

the Associate/Full Professor level, if they have a particularly strong record of research and teaching accomplishments, scientific leadership and creativity.

Continuing a strong tradition of engineering, dating to 1848, USC Engineering and Computing seeks candidates for multiple open-rank, tenured or tenure-track faculty positions. Successful candidates are expected to engage in funded research, teach at the undergraduate and graduate levels, and perform service for the institution and professional organizations. Each successful candidate will have appointment in one or possibly two departments, with one department identified as tenure home based on individual qualifications. Rank, tenure status, and compensation are contingent upon experience.

The University is investing significantly in the College of Engineering and Computing with up to 40 new appointments expected over the next four years. These investments enable the College to achieve its vision of producing liberally educated engineers and computer scientists who are exposed to, and engage in leading-edge fundamental, transformational, and applications-driven research. Being housed in a world-class comprehensive University, the College enjoys a strategic advantage through its leading interdisciplinary research and educational vision to produce graduates that will lead our future government and industrial sectors, making profound advances to our state and national societal needs.

The University

Founded as the Flagship University of the State in 1801, the University of South Carolina is one of the nation's oldest, comprehensive public universities. Columbia, the seat of South Carolina government was ranked by Livability.com in 2016 as the third best college town. The temperate climate, the family friendly and resurgent city, the proximity to the beaches and mountains, and the traditions and beauty of the historic University with forward-leaning benefits and practices, provide for a high quality of life. The strategic investments of the state over the past two decades in automotive, aerospace, energy, and manufacturing areas provide substantial opportunities for the university to collaboration with leading industries.

EEO/AA Policy The University of South Carolina is an equal opportunity and affirmative action employer. Women, minorities, veterans, and persons with disabilities are encouraged to apply.

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