



The Combustion Institute

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Tenure-Track Assistant/Associate Professor Faculty Position in Chemical Processes

The Advanced Power and Energy Program at the University of California, Irvine (UC Irvine) welcomes applications from faculty candidates in power generation and energy conversion associated with:

Chemical processes in combustion systems. <https://recruit.ap.uci.edu/apply/JPF04357>

This faculty hiring initiative is associated with a UC Irvine program to advance and sustain the standing of major university centers, and the successful applicant is expected to contribute to the leadership of the UCI Combustion Laboratory.

Chemical processes are integral to power generation and transportation systems that involve the transformation of the energy chemically bound in an energy carrier or fuel. In heat engines, the preparation of the fuel/air mixture, including atomization and evaporation, chemical kinetics and mixing govern both the heat release in the oxidation of a fuel as well as the formation and removal of pollutant species both within the combustion process as well as in after-treatment systems. In fuel cells, coupled chemical and electrochemical processes govern stack performance characteristics. In the production of practical fuels, contaminant removal from renewable fuels, and processing of fuels to make desired products, chemical processes are the cornerstone to system design, control and performance optimization. The successful applicant will interface with faculty in combustion, fuel cell research, transportation studies, and air and water resources in teamed, interactive, transdisciplinary collaborative research. The appointment is expected in either the Department of Mechanical and Aerospace Engineering, or the Department of Chemical Engineering and Materials Science.

This position will be at the Assistant or Associate Professor level.

Requirements

Applicants are expected to have a doctoral degree from an accredited university in a relevant science or engineering discipline. Successful candidates will be expected to develop a vigorous externally funded research program, maintain a strong publication record, advise students, provide outstanding teaching at the undergraduate and graduate levels, and contribute their leadership and innovative thinking towards an excellent science and engineering program within the department. Successful candidates will also be expected to contribute towards a campus-wide initiative to create more field-based (off-campus) student learning opportunities with the goal of increasing the number of students (especially underrepresented minority students) pursuing graduate degrees in related programs.

How to Apply

Applications should include a cover letter, a description of research, teaching and service interests, including ability to contribute to departmental and interdisciplinary programs, a curriculum vitae, and the names and contact information of at least five references. References will not be contacted until later stages of consideration, in consultation with the candidate. A separate statement that addresses past and/or potential contributions to diversity, equity and inclusion must also be included in the application materials.

Applications must be received by January 31, 2018 to receive full consideration.

The Advanced Power and Energy Program was established in 2000 to address the generation of power, the transport and storage of energy, and the utilization of energy in both stationary and mobile (transportation) applications. While the Program is based in the Henry Samueli School of Engineering with faculty from mechanical, civil, chemical, and electrical engineering, the transdisciplinary nature encompasses faculty from the social, physical, earth systems, and business sciences as well. The Program includes the National Fuel Cell Research Center (established in 1998 by the U.S. Department of Energy and the California Energy Commission) and the UCI Combustion Laboratory (established in 1970 with a focus on continuous combustion and spray systems).

The University of California, Irvine is part of the premier public university system in the world. UCI is a member of the Association of American Universities (AAU), is ranked as a top ten public university by U.S. News and World Report, and was identified by the New York Times as No. 1 among U.S. universities that do the most for low-income students. UCI is located in Orange County, 4 miles from the Pacific Ocean and 45 miles south of Los Angeles. Irvine is one of the safest communities in the U.S. and offers a very pleasant year-round climate, numerous recreational and cultural opportunities, and one of the highest-ranked public school systems in the nation.

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