



## **Fehsenfeld Family Professor of Energy Engineering**

The Fehsenfeld Family Professor of Energy Engineering within the College of Engineering at Purdue University is expected to provide state, national, and world leadership in academic thought and innovation necessary for tackling the grand challenge problem of energy with engineering solutions, strategies for their deployment, and new energy policy initiatives. The Fehsenfeld Family Professorship is an endowed professorship for a senior faculty member holding the rank of a full Professor in one or more Schools within the College of Engineering. The individual provides leadership for the community of multidisciplinary scholars and educators assembled within the Energy Center in Discovery Park and the College of Engineering Energy signature area, in addition to contributing with an individual vibrant learning, discovery and engagement program.

The world faces a challenge involving the continued depletion of crude oil based fuels. Rapidly growing economies and burgeoning populations are demanding improved standards of living that results in an increased demand for energy. Near term solutions include coal, nuclear, enhanced recovery of domestic oil/natural gas, expansion of biofuels production (ethanol/butanol/biodiesel), windpower, and innovative conservation measures such as waste heat recovery, improvement in fuel efficiencies of autos, trucks, rail drivers and airplanes. In the longer term, new clean coal and nuclear technologies, expanded biomass and waste reprocessing technologies, and solar energy will play a greater role.-The creation of storage media such as compact hydrogen, synthetic hydrocarbon fuels, or high capacity batteries all present significant challenges and opportunities in the future energy economy. The national energy policy that will control these developments will require careful stewardship of energy resources and the environment without a reduction in the quality of life. The Fehsenfeld Family Professor is expected to be knowledgeable about these issues with a broad background that preferably includes academic, industrial, and/or government experience.

The Fehsenfeld Family Professor should hold an earned PhD degree in Mechanical, Chemical, Electrical, Civil, or Environmental Engineering, or other energy related disciplines in science and engineering. The person holding this honor should have credentials suitable for appointment as a full Professor with a specialization in energy in one or more of the Schools within the College. In addition to the PhD, these credentials must include a successful record of scholarship, innovation, and/or entrepreneurship demonstrated through archival publications, patents, or other well documented product realization activities. The Fehsenfeld Family Professor may specialize in one of the opportunity areas such as bio-fuels, coal, electric utilities, hydrogen, nuclear, oil/gas, solar or be an expert in engineering systems or energy policy with capabilities to link the different energy areas to provide a broader impact on the grand challenge problem.

Communication skills necessary for being a good teacher and mentor to younger researchers should also be documented in the career record of the successful candidate. The Fehsenfeld Family Professor will be expected to teach undergraduate and graduate classes and to participate in undergraduate and graduate research and educate MS and PhD students with support from the federal and state governments and corporations. S/he must effectively interact with the energy and related industries, with government regulatory and developmental agencies, and political organizations.

Review of applications will begin on immediately and continue until a successful candidate is identified. Interested persons are requested to submit an application **online** at **<https://engineering.purdue.edu/Engr/AboutUs/Employment/Applications>**. The submitted material should include a letter of application emphasizing their ability to carry out the responsibilities of the position as described above; a complete curriculum vitae; and names, addresses, and telephone numbers for at least three references. For questions regarding the application process, please contact Marion Ragland ([ragland@purdue.edu](mailto:ragland@purdue.edu)). Nominations of outstanding potential candidates are welcomed. Nominations and inquiries should be addressed to:

Dr. Richard Schwartz  
Search Committee Chair  
[swilliso@purdue.edu](mailto:swilliso@purdue.edu)

Purdue is an Equal Opportunity/Equal Access/Affirmative Action employer.