



## UK CENTER FOR APPLIED ENERGY RESEARCH SEEKS POSTDOCTORAL SCHOLAR FOR ZEOLITE MEMBRANE DEVELOPMENT

DATE: August 2016

The University of Kentucky, Center for Applied Energy Research (CAER) anticipates adding a postdoctoral position in the area of membrane technology. A summary of the position is listed below:

### **Postdoctoral Scholar**

The University of Kentucky, Center for Applied Energy Research (CAER) is seeking to fill an immediate postdoctoral scholar opening. The successful candidate will develop a zeolite or composite membrane reactor for gas/liquid separations. The position requires a Ph.D. in materials science, chemical engineering, chemistry, or a related field from an accredited college or university. Prior experience in the synthesis of zeolite or composite membranes is highly desirable. Prior scale-up experience in the production of zeolite catalysts, synthesis of inorganic membranes, or implementation of separation systems, is also highly valued.

The ideal candidate should:

- Have hands-on experience in zeolite synthesis and evaluation, including techniques such as SEM/EDS, XRD, and surface area/porosity analyses
- Understand membrane and other separation technologies practiced at the laboratory and commercial scale
- Possess experience with inorganic materials synthesis techniques and methods, particularly for inorganic membranes
- Have experience with process scale up and understand the necessary tools and techniques to accomplish it.
- Possess proficiency with experimental design and execution
- Be able to work both independently and as a member of a research team
- Have excellent oral and written communication skills as well as the ability to present their work at scientific meetings and to peer-reviewed journals

Successful candidates will be offered competitive salary and benefits based on their experience and accomplishments. The University of Kentucky, Center for Applied Energy is located in Lexington, KY.

The University of Kentucky is an Equal Opportunity University.

Interested individuals are encouraged to submit their resume and statement of research interests for preliminary review to: James Landon ([james.landon@uky.edu](mailto:james.landon@uky.edu)).

Once the position is officially open, the full job description will be listed on the University of Kentucky employment web page (<http://www.uky.edu/HR/UKjobs/>). At that time, the candidates must submit an application online.

CAER Website: <http://www.caer.uky.edu>

Power Generation Research Group Website: <http://www.caer.uky.edu/powergen/home.shtml>

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