



UNIVERSITY OF KENTUCKY CENTER FOR APPLIED ENERGY RESEARCH (UKy-CAER) SEEKS POSTDOCTORAL RESEARCHER FOR CO₂ CAPTURE SOLVENT DEGRADATION AND ANALYSIS

Date: November 2014

The University of Kentucky, Center for Applied Energy Research (UKy-CAER) Power Generation Group anticipates adding several postdoctoral researcher positions in the CO₂ capture research area. The positions primary responsibility will be in solvent degradation, gas phase emissions monitoring and analytical method development (with a specific focus on nitrosamines and heavy metal). A summary of the position is listed below:

Postdoctoral Scholar

The successful candidate will develop test methods to identify and quantify solvent degradation products including nitrosamines as related CO₂ capture processes. Other responsibilities will include developing gas phase sampling and analytical methodologies.

The position requires a Ph.D. in chemistry, chemical engineering or environmental science from an accredited college or university. Other degrees will be considered assuming relevant experience. Prior experience in solvent degradation, gas phase sampling and analytical method development using a variety of instrumentation is highly desirable.

The ideal candidate should:

- Have demonstrated analytical method development skills using GC, IC, ICP and HPLC.
- Have experience with Mass Spec (MS) operation and interpretation.
- Have gas phase sampling experience using EPA methods.
- Possess proficiency with experimental design and execution.
- Have creativity and be able to formulate new research ideas and directions.
- Be able to work both independently and as a member of a research team.
- Have excellent oral and written communication skills and 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 cover letter, resume/CV, and a brief description of prior research experience and future research interests for preliminary review to:

Dr. Jesse Thompson (jesse.thompson@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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