Postdoctoral Research Associate in Harvesting Machinery Technologies for Precision and Sustainable Energy Crop Production

The Energy Biosciences Institute, a multi-institutional research organization focused on bioenergy development, invites applications for a Postdoctoral Research Associate position in the area of harvesting machinery technology development for precision and sustainable energy crop production. The position is available starting January 1, 2016.

DESCRIPTION OF DUTIES

Systematic approaches will be taken to evaluate existing technologies; identify information needs and researchable questions; develop sensors and prototypes; analyze experimental data; prepare reports, presentations and research papers; and deliver results in the form of operational machinery and sensor prototypes, and appropriate methodologies for data analytics.

QUALIFICATIONS with emphasis on one or more of the following areas:

- Knowledge in harvesting technology research (industry experience preferred).
- Knowledge in systems engineering and analysis is strongly emphasized. Background in agricultural production systems will be an advantage.
- Programming experience (e.g. familiar with Matlab and Python or C/C++).
- Familiarity with the interpretation/analysis of remote sensing imagery and GPS data using common or custom image processing, statistics and GIS software.
- Demonstrated ability to think independently as well as work effectively with others.
- Excellent oral and written communication skills.

HOW TO APPLY

Submit a cover letter indicating relevant experience, CV/resume including publications and presentations, and contact information for three references via mail, email, or fax with attention to Dr. Alan C. Hansen, Department of Agricultural and Biological Engineering, University of Illinois at Urbana-Champaign, 1304 West Pennsylvania Avenue, Urbana, IL 61801, email: achansen@illinois.edu; phone: 217-333-2969; fax: 217-244-0323.

The University of Illinois conducts criminal background checks on all job candidates upon acceptance of a contingent offer.

The University of Illinois at Urbana-Champaign is an equal opportunity employer. All qualified applicants will receive consideration for employment free from discrimination on the basis of race, religion, color, national origin, age, sex, pregnancy, sexual orientation, gender identity, status as a qualified individual with a disability, or status as a protected veteran. (www.inclusiveillinois.illinois.edu)