Postdoctoral Research Associates in Engineering Solutions for Biomass Feedstock Production. The Energy Biosciences Institute www.energybiosciencesinstitute.org invites applications for three (3) Postdoctoral Research Associate positions to conduct research and development in the areas of biomass 1) Pre-harvest Crop Monitoring; 2) Harvesting; and 3) Systems Informatics and Analysis. Positions 1) and 2) are available immediately and position 3) is available starting July 20, 2010.

DESCRIPTION OF DUTIES
For each task, systematic approaches will be taken to evaluate existing technologies, characterize task features, identify information needs and researchable questions, develop prototypes and computer models, conduct experiments and computer simulations, analyze experimental data and simulation output, and deliver results in the forms of operational machinery design/prototype and/or decision support information/tools.

QUALIFICATIONS with emphasis on one (1) or more of the following areas:
· Experience in harvesting technology research (industry experience preferred)
· Knowledge in data base and software development; systems engineering, analysis, and modeling is strongly emphasized. Background in agricultural production systems will be an advantage.
· Programming experience (e.g., familiar with both UNIX/Linux and Windows operating systems, and developing in IDL, C/C++)
· Familiarity with the interpretation/analysis of remote sensing imagery of biological targets using common or custom image processing and/or statistics software (e.g. ENVI, SAS, Erdas Imagine, S-plus, R).
· 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. K.C. Ting, Department of Agricultural and Biological Engineering, University of Illinois at Urbana-Champaign, 1304 West Pennsylvania Avenue, Urbana, IL 61801; email: kcting@uiuc.edu; phone: 217-333-3570; fax: 217-244-0323.

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