The Department of Civil and Environmental Engineering at the University of Illinois at Urbana-Champaign is seeking qualified candidates for the position of Senior Sustainability Research Engineer for the Illinois Center for Transportation (ICT) located at the Advanced Transportation Research and Engineering Laboratory (ATREL) in Rantoul, Illinois. The Senior Sustainability Research Engineer position will participate in preparation and maintenance of a research needs portfolio for ICT’s sustainability program; manage the portfolio of sustainability research projects for their timely completion; and communication with other sustainability initiatives on campus and in Illinois. In addition, the primary function of the job may include managing technical testing, research equipment and laboratory facilities at ATREL, developing and optimizing research protocols, preparing research reports and coordinating research efforts in both the laboratory and the field.

Responsibilities include: identify research needs for ICT’s sustainable transportation program in conjunction with IDOT and sponsor staff; evaluate and review research needs statement submitted for the ICT’s sustainability transportation program; manage the ongoing sustainability research projects for their timely completion with the proposed deliverables and communicate status and issues with IDOT and sponsor staff; participate in outreach activities for the ICT’s sustainability transportation program including development of technology transfer briefs; organize seminars and workshops to generate a platform for sustainability research projects; manage and/or conduct experiments in the laboratories and in the field following established safety guidelines; coordinate with IDOT, government agency, industry representatives and researchers to ensure project goals are achieved; design research testing plans, and perform technical testing and data analysis; develop and deliver presentations of research findings to IDOT and sponsors, interested groups and stake holders as necessary for Technology Transfer; other tasks supporting the objectives of the Illinois Center for Transportation as determined in conjunction with the Director, IDOT and sponsors.

Minimum qualifications include a M.S. degree in engineering or a minimum of three years of experience after B.S. degree. Candidates with Illinois Professional Engineer License or successful completion of Fundamentals of Engineering exam preferred. Experience in the following areas is required:

- Life-cycle assessment and environmental impact analysis of transportation systems and infrastructure
- Sustainability rating systems and environmental assessment of transportation systems and pavements
- Understanding of various pavement preservation techniques
- Green transportation and by-product utilization
- Ability to modify testing techniques and procedures to adapt to the evolution of expanding use of such materials

Also required by the Senior Sustainability Research Engineer is the ability to independently setup and execute laboratory experiments on civil engineering materials; experience with laboratory data acquisition systems, instrumentation and programming; experience working with faculty and students in an academic setting; excellent communication and organizational skills and the ability to handle multiple duties simultaneously.

Preferred qualifications include Illinois DOT QC/QA certification in Aggregates, HMA, and PCC; LEED certification.

This position is a twelve month, fulltime, academic professional appointment with standard university benefits. Salary is open and based on qualifications. To ensure full consideration, applications must be received by
January 20, 2014. Interviews may be conducted before the closing date, but the final decision will not be made until after that date. The starting date will be as soon as a suitable candidate is identified after the closing date.

To apply for this position, please create your candidate profile at http://jobs.illinois.edu and upload a single PDF document containing your cover letter, resume, and names/contact information for three references by the closing date. Full consideration will be given to complete applications received by the closing date. For further information regarding application procedures, contact Rhonda Powell at rpowell@illinois.edu or 217-333-6378.

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