The Department of Civil and Environmental Engineering at the University of Illinois at Urbana Champaign is seeking qualified candidates for the open position for Research Engineer / Sr. Research Engineer for the Illinois Center for Transportation (ICT) located at the Advanced Transportation Research and Engineering Laboratory (ATREL), located in Rantoul, Illinois. The Research Engineer / Sr. Research Engineer position offers an exciting opportunity for an individual with superb technical knowledge of equipment, especially servo-hydraulics, and organizational skills to conduct/manage technical research and laboratory facilities at the ATREL facility. Information about the Department may be found at: http://cee.illinois.edu, and the Illinois Center for Transportation http://ict.illinois.edu.

Research Engineer: Responsibilities include conducting experiments in the laboratories and in the field following established safety guidelines; determining and maintaining equipment needs for experiments; coordinating with sponsors, industry representatives and researchers to ensure project goals are achieved; training researchers and students on testing and design procedures for safe laboratory practices and reliable test results; designing research testing plans, and performing technical testing and data analysis; developing and delivering presentations of research findings to sponsors; and maintaining a clean and organized laboratory.

The minimum requirement for the Research Engineer position includes operational knowledge of hydraulic systems, excellent communication and organizational skills, and the ability to handle multiple duties simultaneously. Required experience in one or more of the following areas:
- Hot-mix asphalt testing, and/or pavement testing.
- Independent setup and execution of laboratory experiments on civil engineering materials including: testing of soils and aggregate, Portland Cement Concrete (PCC), and Hot-Mix Asphalt (HMA).
- Testing asphalt binder using SuperPave testing equipment.
- Applying principles of volumetric asphalt mix design, including the use of different compactors (such as Gyratory).

Candidates for the Research Engineer position must have a Bachelor’s degree in Engineering.

Sr. Research Engineer: Responsibilities include managing and/or conducting experiments in the laboratories and in the field following established safety guidelines; determining, procuring, and maintaining equipment needed for experiments and maintaining laboratory accreditation; coordinating with sponsors, industry representatives and researchers to ensure project goals are achieved; training researchers and students on test procedures and experimental design to ensure safe laboratory practices that produce reliable results; designing research testing plans and perform technical testing and data analysis; developing and delivering presentations of research findings to sponsors; maintaining a clean and organized laboratory.

The minimum requirement for the Sr. Research Engineer position includes experience in the following areas:
- Hot-mix asphalt testing, Portland cement concrete testing and/or pavement testing
- Independent setup and execution of laboratory experiments on civil engineering materials including: testing of aggregate, Portland Cement Concrete (PCC), and Hot-Mix Asphalt (HMA).
- Testing asphalt binder using SuperPave testing equipment.
- Applying principles of volumetric asphalt mix design, including the use of different compactors (such as Gyratory).
- Operational proficiency in using hydraulic systems for civil engineering material testing which could include performing tests such as fatigue, creep, permanent deformation, and resilient modulus.
- Experience with laboratory data acquisition systems, instrumentation and programming.
- Experience working with faculty and students in an academic setting.
- Excellent communication and organizational skills.
- Ability to handle multiple duties simultaneously.
Required training: Illinois Professional Engineer License or successful completion of Fundamentals of Engineering exam. Preferred training: Illinois DOT QC/QA certifications for Hot Mix Asphalt (Levels 1, 2, & 3); Portland Cement Concrete (Levels 1, 2, & 3) and Aggregate.

Candidates for the **Sr. Research Engineer** position must have a Master’s degree in Engineering including experience in an accredited laboratory.

The Research Engineer / Sr. Research Engineer position is a twelve month, academic professional appointment with standard university benefits, as well as professional development opportunities. Salary is competitive and is commensurate with experience and credentials. To ensure full consideration, applications must be received by June 23, 2015. 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](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

Illinois is an equal opportunity employer and all qualified applicants will receive consideration for employment without regard to race, religion, color, national origin, sex, sexual orientation, gender identity, age, status as a protected veteran, or status as a qualified individual with a disability. Illinois welcomes individuals with diverse backgrounds, experiences, and ideas who embrace and value diversity and inclusivity (www.inclusiveillinois.illinois.edu).