



Department of Civil and Environmental Engineering

851 Neyland Drive | 325 John D. Tickle Building | Knoxville, TN 37996-2313
(865) 974-2503 | cee@utk.edu | www.engr.utk.edu/civil/

Re: PhD Student Opportunity in Water Resources – Spring 2018 / Fall 2018

Project Description

Urban stormwater has been established as a substantial contributor to surface water degradation worldwide. Green Infrastructure is being implemented en masse to ameliorate these impacts, however, questions remain as to how well these systems function, what internal processes influence performance, and how these local effects scale to the larger watershed. A high quality PhD student is being sought to contribute to a research program which seeks to answer such questions by integrating the study of natural systems, urban sustainability, and watershed processes to sustainably manage urban water. Examples of potential research topics include: scaling local green infrastructure effects to the watershed, climate change impacts on urban stormwater system function, and applications of real time control to stormwater infrastructure.

Expected start date is January 1, 2018 or August 1, 2018. Applications will be reviewed as they are received and until the position is filled. Ability and willingness to work in both field and laboratory settings is vital. A strong computational background is beneficial (but not required), as is knowledge of hydrologic modeling software (e.g. SWMM). A willingness to learn new things, challenge yourself, and operate in a team environment is critical.

Contact: Specific inquiries can be made to **Jon Hathaway, PhD, PE** - email: hathaway@utk.edu – web: hathaway.utk.edu



Downtown Knoxville



Brand new facilities in the John D. Tickle Engineering Building, home of the Department of Civil and Environmental Engineering



View of the Smoky Mountains from atop the Chimney Tops Trail in Great Smoky Mountains National Park

About Knoxville

Our historic and revitalized downtown, just a few blocks from campus, is always abuzz with shows and celebrations, bringing thousands of visitors for events like the [Big Ears](#) and [Dogwood Arts](#) festivals. Downtown Knoxville showcases eclectic dining and shopping, a weekly outdoor [downtown farmers' market](#), two historic theatres, art galleries, and museums. Lakes and rivers scatter the landscape and 65 miles of greenway trails make Knoxville an outdoor adventurer's paradise. The Knoxville area offers more than 80 parks, including the 1,000-acre [Knoxville Urban Wilderness](#) located just ten minutes from the University. The Urban Wilderness offers an abundance of hiking, mountain biking, canoeing, trail running, and an escape to nature just miles from downtown Knoxville. To top it off, less than an hour away is the [Great Smoky Mountains National Park](#), with over 800 miles of maintained trails in an exceptionally diverse ecosystem.