



DEPARTMENT OF CIVIL &
ENVIRONMENTAL ENGINEERING

PhD Positions Available – Sustainable & Adaptive Built Environment Lab

Multiple PhD Research Assistant/ Teaching Assistant (RA/TA) positions are available at The University of Tennessee, Knoxville (UTK) in the areas of sustainable and energy-efficient buildings, infrastructural materials, smart building technology, and cyber-physical systems. Eligible candidates are expected to have solid engineering background and some level of programming or experimental experience. Knowledge in any or multiple of the following areas would be considered as a plus: **infrastructure materials; multi-physics and finite element modeling; building physics and energy modeling; artificial intelligence and machine-learning.** Prior research experience and publications are a plus, but not required. Appointments will start Fall 2021, or later until the positions are filled.

Selected candidates will work at University of Tennessee's Sustainable & Adaptive Built Environment Laboratory in the Department Civil and Environmental Engineering. Current projects sponsored by US National Science Foundation (NSF), US Department of Energy (DOE), and state of Tennessee provide excellent academic exposures and research opportunities in a wide spectrum of areas, including: energy efficient and resilient buildings and communities, advanced building materials, additive manufacturing (3-D printing) in construction, and cyber-physical systems. The students will have the opportunity to work with world class faculty and researchers at UTK and Oak Ridge National Laboratory (ORNL).

The University of Tennessee, Knoxville is located at the beautiful city of Knoxville, TN with 30 minutes driving distance to the Great Smokey National Park. The research and teaching facilities of CEE Department are housed in the new \$25M John D. Tickle Engineering Building. Students may take advantage of unique opportunities for multidisciplinary research programs with Oak Ridge National Laboratory and may have access to a number of facilities, including the National Institute for Computational Sciences (NICS), the Institute for Advanced Composites Manufacturing Innovation, the Institute for a Secure and Sustainable Environment, and the Baker Center for Energy and Environmental Policy.

Qualifications Applicants should have a B.S. degree in Civil and Architectural Engineering, Mechanical Engineering, Material Science or related fields. M.S. degree with publication is a plus, but not required. GRE and TOEFL/IELTS (minimum score of 80/6.5) are required. General admission requirements please refer to <https://gradschool.utk.edu/admissions/> and <https://gradschool.utk.edu/admissions/applying-to-graduate-school/admission-requirements/>

Assistantship Benefits

Competitive stipend, full tuition waiver, and healthcare will be provided to students obtaining RA/TA positions. Room & board expenses will be covered for research travels (conferences, off-campus research, data collections etc.).

Application Instructions Interested candidates please send your CV to Prof. Hongyu Zhou (Email: hzhou8@utk.edu; Tel: +1-(865)974-0722). Email preferred.