Transportation System Engineering Ph.D. Positions at UT Austin

Two fully funded Ph.D. openings are available in the Maseeh Department of Civil, Architectural, and Environmental Engineering (CAEE) at the University of Texas at Austin (UT Austin) in Fall/Spring 2024/2025. The primary research areas will be decentralized optimization and artificial intelligence, with applications in smart and coupled transportation and power systems (e.g., mechanism design, smart mobility & grid, planning and operation of alternative fuel vehicles, and renewable energy integration). The students will actively participate in projects sponsored by U.S. National Science Foundation (NSF). Successful applications are expected to have expertise in mathematical modeling, data analytics, game theory, and/or machine learning. Students with transportation and/or power systems backgrounds are preferred.

If interested, please send your CV (highlighting GPA, ranking, research interest & expertise, and publications if any) and one representative writing sample to Dr. Zhaomiao Guo at watersguo@gmail.com.

About UT Austin

Ranked No. 4 in the best civil engineering programs and No. 7 in the best engineering schools in the nation, the University of Texas at Austin's Transportation Engineering program is renowned for its robust curriculum and cutting-edge research opportunities. Students benefit from state-of-the-art laboratories, interdisciplinary research centers, and strong industry partnerships that facilitate hands-on learning and real-world problem-solving. UT Austin houses the Texas Advanced Computing Center (TACC, https://tacc.utexas.edu), which designs and operates world-leading computing resources for AI and optimization. In addition, UT Austin is working with regional transportation partners to design and construct SMARTTract (https://ctr.utexas.edu/research/texas-smarttrack/) for cutting-edge research and testing needs in safety, mobility, and autonomy. Graduates of UT Austin's civil engineering program are well-equipped to tackle complex engineering challenges and often go on to influential positions in academia, industry, and government.

Austin, Texas, known for its vibrant culture and rapid growth, provides an ideal backdrop for civil engineering students and professionals. As one of the fastest-growing cities in the United States, Austin offers a dynamic environment where urban development and infrastructure projects are continually evolving. The city is a hub for innovation, home to a burgeoning tech industry, and a strong proponent of sustainable practices. Austin's unique blend of a lively music scene, outdoor recreational opportunities, and a thriving economy creates a rich quality of life for residents. This dynamic setting not only enhances the academic experience for UT Austin students but also provides ample opportunities for internships, research projects, and employment in a variety of engineering fields.