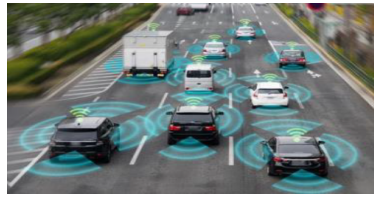




Position Description

Multiple open positions with flexible start dates (Spring/Summer/Fall 2023) are available for motivated undergraduate, Master's, and Ph.D. students in the Department of Electrical and Computer Engineering (ECE) at The University of Texas at El Paso (UTEP). Admitted graduate students will be supported with tuition remission, monthly stipends (~\$2,000/mo), student health insurance, and travel grants. Prospective students are expected to work on topics related to autonomous systems with an emphasis on next generation transportation systems towards smart cities. The application domains include vehicle automation and control, analysis and control of mixed-autonomy traffic, optimization-based sustainable transportation, and machine learning and control of transportation cyber-physical systems.



Desired Qualifications

Prospective students with a background in Mathematics or Engineering, such as Applied Mathematics, Electrical Engineering, Civil Engineering, Industrial Engineering, Computer Science, and Mechanical Engineering, are strongly encouraged to apply. Prior research experience in control systems, robotics, optimization, traffic simulation, machine learning, or data science is a big plus. Interested students are advised to email the principal investigator at wang8975@umn.edu with a copy of their CV/resume, transcripts, and a brief description of their research interests. General requirements for admissions can be found [here](#).

About the Principal Investigator (PI)

Shi'an Wang will be starting as an Assistant Professor in the ECE Department at UTEP in Spring 2023. He is a final-year Ph.D. candidate working with Michael Levin in Civil Engineering (Transportation) at the University of Minnesota. Previously, he received a M.Sc. degree in Electrical Engineering (Systems and Control) in 2018, working with N.U. Ahmed at the University of Ottawa in Canada. He conducts highly interdisciplinary research in collaboration with researchers from Civil Engineering, Electrical Engineering, Mechanical Engineering, and Industrial Engineering, among others. His research focuses on modeling, analysis, and control of autonomous systems, with an emphasis on connected automated vehicles and intelligent transportation systems. He has co-authored a book and published 20 papers in reputable journals and conferences. He has received multiple awards, including a Rising STARs Award for particularly outstanding faculty by The University of Texas System and the Doctoral Dissertation Fellowship for the most accomplished Ph.D. candidates by the University of Minnesota. More information about the PI is available [here](#).

About The University of Texas at El Paso (UTEP)

The University of Texas at El Paso (UTEP) is a public research university in El Paso, Texas, US. It is classified among "R1: Doctoral Universities – Very high research activity" (only 146 R1 institutions in the US as of the 2021 update), with annual research expenditures exceeding \$109 million in FY2022¹. Known as "Sun City" with more than 300 sunny days annually, El Paso is a perfect place for year-round outdoor activities like hiking, biking, climbing, etc. It is the 20th largest city in the US and has consistently been ranked as one of the safest large cities in the country.



UTEP Campus



Downtown El Paso

¹UTEP Reaffirms 'Very High Research' Carnegie R1 Status: <https://www.utep.edu/r1/>