

PhD Research Assistantships in Mobility Analytics and Transport Modeling

Position Description

The Mobility Analytics Research Group (MARG) in the School of Sustainable Engineering and the Built Environment at Arizona State University (ASU) invites applications for two doctoral research assistantship positions in the area of mobility analytics and travel behavior modeling. We are looking for highly motivated and committed students with a passion for research in transportation systems analysis. The positions begin January 2017, and require that the students be selected for entry into the PhD program at Arizona State University. The selected candidates are expected to engage in cutting edge research in the areas of travel behavior analysis, integrated microsimulation models of travel demand, transport energy consumption, transport policy evaluation, impacts of transformative and disruptive transportation technologies on travel behavior, travel survey methods, data mining, and quantitative analysis. The successful candidates will work under the supervision of Professor Ram Pendyala and collaborate with Dr. Venu Garikapati. The assistantships come with a full tuition waiver and a monthly stipend.

Responsibilities

The primary responsibilities of the selected candidates include, but are not limited to:

- Excel in graduate studies and conduct independent scholarly research.
- Contribute to research projects in any and all of the areas mentioned above.
- Publish and present research results in peer reviewed journals, and at international conferences.
- Collaborate with professors, post-doctoral researchers, and fellow students.

Qualifications

Candidates should have an undergraduate degree in civil engineering, computer science, or related field with excellent academic credentials. Candidates with a Master's degree in a directly related field are preferred. Successful candidates will be interested in pursuing research in travel analysis methods and have the following attributes:

- Creative and critical thinking skills, and the ability to conduct independent research with minimal supervision.
- Excellent oral and written communication skills in English, and strong interpersonal skills.
- Some knowledge in one or more programming languages (e.g., Python, R, MATLAB, Gauss, C, C++). Expertise in open source coding platforms such as Python and R is an asset.
- Experience in the use of travel demand modeling software and GIS packages is a plus.

Application Process

Interested candidates should submit an online application via the ASU Graduate Admission portal (see <http://ssebe.engineering.asu.edu/prospective-students/gradapp.html>). Shortlisted candidates will be notified with further instructions regarding the selection process. Please direct inquiries regarding these positions to Professor Ram Pendyala (Ram.Pendyala@asu.edu) or Dr. Venu Garikapati (Venu.Garikapati@asu.edu).