

Transportation Modeling Intern Position

The intern will play a supportive role in developing and applying new mobility solutions to transportation modeling frameworks. The successful candidate will be part of an interdisciplinary group that is part of Ford Motor Company's Research and Advanced Engineering and is dedicated to cutting-edge research to improve transportation accessibility, mobility, and sustainability for all.

Job description

Help develop innovative transportation concepts and solutions in the area of:

- Traffic simulation models and tools
- Connected and Autonomous Vehicle (CAV) Integration
- Shared Mobility Services
- Multimodality
- Smart Cities

Minimum Requirements:

Pursuing a Master's degree or Ph.D. in Civil Engineering or Urban Planning (with a focus in transportation)

0-2 years' experience in traffic modeling with CAVs using microscopic simulation tools such as VISSIM, SUMO, etc.

0-2 years' experience with macroscopic modeling software such as TransCAD, VISUM, CUBE, etc.
Experience working with transportation and demographic datasets (e.g. OD matrices, census)

Preferred Qualifications:

Experience with microscopic modeling (e.g. car-following behavior, lane changing behavior)

Experience with developing "new mobility"

Experience with activity-based models

Expertise in agent-based modeling tools (MatSim/SimMobility)

To apply or for inquiries contact Archak Mittal (amittal9@ford.com)