



UNIVERSITY OF MASSACHUSETTS AMHERST
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PhD Position at University of Massachusetts Amherst

The Department of Civil and Environmental Engineering has a PhD opening in the broad area of traffic operations and control under the supervision of Prof. Eleni Christofa. We are seeking one PhD student to join our research group and initially work for a starting grant funded by the Department of Energy Advanced Research Projects Agency-Energy (ARPA-E) program titled: "Mobility Electronic Market for Optimized Travel (MeMOT)." The goal of this project is to design, build, and evaluate a new system to incentivize travelers to change their choices to conserve energy. The PhD student will work in a variety of topics including, but not limited to:

1. Traffic flow modeling of multimodal transportation systems
2. Emission modeling of personal and transit vehicles
3. Simulation of multimodal transportation systems
4. Data analysis
5. Development of optimization algorithms for improved traffic control

Students with a strong background in traffic flow theory, emissions estimation, optimization, simulation, and big data analysis are encouraged to apply. This position is available for Fall 2016 but candidates for Spring 2017 might also be considered if the position is not filled before then. For details on the application process please refer to: <https://cee.umass.edu/cee/graduate/apply>. Interested candidates are welcome to email directly their CV to Prof. Eleni Christofa at christofa@ecs.umass.edu with questions and/or to inform her on their intent to submit an application.