

Appointment: Research Assistant

Code: TRIPOD RA

Project: Sustainable Travel Incentives with Prediction, Optimization and Personalization (Tripod)

<https://energy.mit.edu/news/mit-awarded-dept-of-energy-grant-to-create-and-deploy-energy-saving-travel-information-and-incentives-system/>

The Intelligent Transportation Systems Lab is searching for a Research Assistant (RA) to work on the Sustainable Travel Incentives with Prediction, Optimization and Personalization (Tripod) project. Tripod aims to influence travelers' trip making, mode, route, departure time choices and driving style toward system-wide optimal travel behavior and energy consumption. Tripod is an app-based travel incentive tool designed to influence users' travel choices by offering them real-time information and rewards. The app also collects sensor information from the smartphones to help monitor users' travel activities and estimate emissions generated by these activities.

Responsibilities

We are looking for a highly motivated and proactive student that will be responsible for development of DynaMIT (a simulation based DTA model system that estimates and predicts traffic conditions) for specific requirements relating to the Tripod project. The range of responsibilities includes:

- Development and testing of extensions to the DynaMIT code base
- Assist in the development and testing of other components of the system

Requirements:

- Knowledge of C++ and experience in programming with C++
- Background in computer science/software engineering or transportation systems
- Knowledge of other languages such as Python, and Matlab are desirable.
- Independent and self-motivated, yet able to work as part of a multidisciplinary team.
- Develop case studies for the Boston metropolitan area to test the control system architecture

If interested, please email CV and cover letter to Moshe Ben-Akiva (ben-akiva@mit.edu) with subject line "**Code: TRIPOD RA**".