



RESEARCH SCIENTIST AND POSTDOCTORAL ASSOCIATE POSITIONS

Intelligent Transportation Systems (ITS) Lab

Massachusetts Institute of Technology

Cambridge, MA

There are multiple open research scientist and postdoctoral associate positions at the ITS Lab at MIT. The ITS Lab is an interdisciplinary research lab engaged in a variety of projects ranging from innovative approaches to activity-based modeling, using smartphones and GPS loggers in transportation research, real-time traffic prediction using DynaMIT, real-time optimization, flexible mobility on demand systems, and the integrated simulation of various mobility-sensitive behavioral models with state-of-the-art simulators to predict impacts of mobility demands on transportation networks, services and vehicular emissions.

The research scientist and postdoctoral associates use combined knowledge of optimization, simulation and demand modeling to contribute to the broad range of ITS Lab research projects. Potential research projects the research scientist and postdoctoral associates will be involved with are related to real-time simulation-based optimization for the purpose of improving the conditions of transportation networks in terms of traffic congestion, passenger satisfaction, energy usage etc.; innovative data collection techniques in the context of both freight and passenger transportation; demand modeling both at the aggregate and individual levels. Duties include conducting original research, completing technical reports, publishing in peer-reviewed journals, presenting research at domestic and international conferences, research project management, and collaborating on the development and submission of research grant applications.

The research scientist and postdoctoral associates are also involved in teaching, which includes the preparation of graduate and undergraduate course material, leading weekly recitations, and working on case-studies with students. The postdoctoral associates work closely with faculty, post-doctoral researchers, and graduate students based at MIT and in Singapore. They also serve as mentors for the graduate students and UROPs in the ITS Lab.

Successful candidates will be fluent in English, have excellent interpersonal, organizational, and communication (both oral and written) skills, and be able to work independently and within a dynamic research team.

Research Scientists should clearly indicate their experience post PhD.

Interested candidates should submit a cover letter summarizing experience and expertise, CV, and a list of references to:

Professor Moshe Ben-Akiva

ben-akiva@mit.edu