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Transportation Systems Analysis and Optimization
Postdoctoral Research Associate
at the University of Massachusetts Amherst

The Department of Civil & Environmental Engineering at the University of Massachusetts Amherst has an open position of postdoctoral research associate, beginning as soon as possible, in the broad area of transportation systems analysis and optimization under the supervision of Professor Song Gao.

The postdoctoral research associate will use combined knowledge of optimization, simulation and demand modeling to contribute to a broad range of research projects. Potential research projects include real-time simulation-based optimization to reduce traffic congestion, improve passenger satisfaction, and reduce energy usage; innovative app-based data collection design and implementation; optimal adaptive and a priori routing algorithm design in stochastic networks. Duties include conducting original research, completing technical reports, publishing in peer-reviewed journals, presenting research at domestic and international conferences, research project management, supervising graduate students and collaborating on the development and submission of research grant applications.

The postdoctoral research associate will also be involved in teaching, which includes the preparation of graduate and undergraduate course material, giving guest lectures and working on case studies with students.

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.

Interested candidates should submit a 1-page cover letter summarizing experience and expertise, CV, a research statement (at most 2 pages) and a list of at least three references by Jan. 31 to:

Professor Song Gao
sgao@umass.edu