The School of Civil and Environmental Engineering at Cornell invites applicants for a tenure track faculty position in the general area of transportation systems engineering. We seek candidates with exceptional modeling and analysis skills. We are particularly interested in candidates with backgrounds in complex adaptive systems and that have a strong focus on innovating planning, management and operation of transportation systems. Some example research themes of interest include human behavior/demand management, human-infrastructure interdependency and interactions, natural and anthropogenic stressors, and preservation of the natural environment and resources. We are particularly interested in identifying outstanding candidates advancing agent-based modeling as a powerful analytical and computational tool for simulating the evolving dynamics of a range of complex systems.

Specific application areas of interest include, but are not limited to:

- Connected vehicle-to-vehicle, vehicle-to-infrastructure networks, and logistics of driverless fleets
- Optimization of supply-chain configurations
- Evacuation planning and emergency management
- Dynamic traffic micro-simulation under real-time information (congestion, emissions, energy)
- Social and network effects in activity-based models
- Urban dynamics and interactions with transportation and energy systems
- Competition among parties competing to use limited natural resources
- Optimization of transportation infrastructure investment, and risk analysis focused on understanding the uncertainties associated with human demands and new technologies
- Alternative vehicle/fuels/infrastructure systems and multi-modal transportation.

Applicants should have a Ph.D. in Engineering or related discipline. While we anticipate hiring at the Assistant or untenured Associate Professor level, tenured appointments at the level of Associate Professor or Professor will be considered. Salary and rank will be commensurate with qualifications and experience. Successful applicants are expected to develop and maintain a well-funded, internationally recognized research program. The successful candidate will support undergraduate and graduate teaching in the area of transportation systems, with the opportunity for strong interdisciplinary interactions with Cornell’s Engineering Systems Management and Systems Engineering programs.

The School of Civil and Environmental Engineering and the College of Engineering at Cornell embrace diversity and seek candidates who can contribute to a welcoming climate for students of all races and genders. Diversity and Inclusion are a part of Cornell University’s heritage. Cornell as an employer and educator is recognized for valuing Affirmative Action and Equal Employment Opportunity, Protected Veterans, and Individuals with Disabilities. We strongly encourage qualified women and minority candidates to apply.

**Application materials must be submitted on-line at**
https://academicjobsonline.org/ajo/jobs/4648

Through this web site, applicants are to submit a curriculum vita, a research statement, a teaching statement, copies of official undergraduate and graduate transcripts, one to three publications or manuscripts, and complete contact information for at least three references. Questions can be directed to cee_search@cornell.edu

Review of applications will start on December 15, 2014 and will continue until the position is filled.