

The Departments of Civil and Environmental Engineering and Industrial and Management Systems Engineering at the University of South Florida (USF) are jointly seeking one postdoctoral researcher to work on an NSF CRISP project titled “Integrative Decision Making Framework to Enhance the Resiliency of Interdependent Critical Infrastructures” (http://www.nsf.gov/awardsearch/showAward?AWD_ID=1638301). Our team of investigators includes experts from civil and environmental engineering, industrial and management systems engineering, computer science engineering, and environmental anthropology.

The goal of the project is to develop an integrative decision making framework with consideration of physical-based, virtual-based, and socioeconomic-based interdependencies between water, transportation and cyber infrastructures for evaluating strategies to enhance the resiliency of interdependent critical infrastructures.

The successful applicant will be expected to participate in developing the integrated mathematical model, the multi-method adaptive simulator, and the competition-based game platform, and collaborate with other researchers involved in an NSF CAREER project awarded to Qiong Zhang titled “Envisioning Integrated Wastewater Management through the Lens of Reverse Logistics” (http://www.nsf.gov/awardsearch/showAward?AWD_ID=1454559). Candidates willing to commit to 3 years of work on this project are particularly encouraged to apply.

Applicants should hold a Ph.D. degree in industrial engineering, operations management, computer science or a related field; have a record of high impact peer-reviewed journal publications; prior experience with large-scale optimization, designing and implementing agent-based and system dynamic simulation models, maintenance and reliability modeling; and excellent quantitative, analytical, and communication skills. Strong programming skills in C++ and Java and prior experience with AnyLogic software will be a plus. Interested applicants should send a cover letter, CV, a list of representative journal publications, and the names of three references to Dr. Qiong Zhang (qiongzhang@usf.edu) and Dr. Mingyang Li (mingyangli@usf.edu).

The University of South Florida is a high-impact, global research university dedicated to student success. USF is a Top 50 research university among both public and private institutions nationwide in total research expenditures, according to the National Science Foundation.

The position is available immediately and applications will be reviewed until the position is filled.