

## **POSTDOCTORAL POSITION IN TRANSPORTATION ENGINEERING**

### **AREAS OF RESEARCH**

Freight Transportation and Logistics / Smart Mobility and Simulation

### **OVERVIEW OF POSITION**

The Freight Mobility Research Institute (FMRI) at Florida Atlantic University (FAU) seeks an ambitious Post-doctoral researcher who would like to join our team of researchers in the areas of Freight Transportation, Network Modeling, and logistics. The position is expected to start Fall 2020 with an initial appointment period of one year with high possibility of extension to a second year and years going forward based on performance and funding availability.

### **PRIMARY RESPONSIBILITIES**

Successful candidates will join FAU's TIER 1 University Transportation Center, Freight Mobility Research Institute (FMRI) under the supervision of Dr. Evangelos I. Kaisar. The center focuses on education and research & development that improves freight mobility by conducting research in the areas of Transportation Planning and Modeling, Freight Transportation, Logistics, and Supply Chain. The center's main goals focus on the promotion of smart cities, improvement of multimodal connections, development of sustainable systems, and security using data modeling and analytical tools to optimize freight movements and improve efficiency.

The successful candidates will be working primarily in the fields of *Network Modeling, Freight Operations, Intermodal Transportation Systems, as well as Logistics and Supply Chain, utilizing Information Technology, Artificial Intelligence, Simulation, Optimization and Data Analysis techniques*. They are expected to carry out cutting-edge research under minimal supervision and prove impeccable leadership skills as lead authors and coordinators of projects and publications (project proposals, quarterly and final reports, peer reviewed journal articles and conference proceedings). In addition, they will be mentoring graduate and undergraduate research assistants and students. FMRI is a multi-university consortium led by FAU, including Hampton University, Portland State University, Texas A&M University, University of Florida, University of Memphis, and University of Minnesota. For more information, please visit <http://eng.fau.edu/research/fmri/>.

### **MINIMUM QUALIFICATIONS AND EXPERIENCE**

- Ph.D. in Civil Engineering, Operations Research and/or related disciplines with specialization in Transportation Operations and Management;
- Extensive knowledge in transportation modeling, freight transportation, logistics and supply chain with a record of excellence evidenced by journal publications, scholarships.
- Knowledge of travel demand modeling software (e.g., TransCAD, Cube, Visum), micro and mesoscopic simulation (AIMSUN, Vissim, Synchro), Geographic Information Systems software (e.g., ArcGIS, QGIS), quantitative, and data analysis.
- Knowledge of programming languages (e.g., C, C++, Python, Matlab) and operation research and optimization software (e.g. CPLEX, GAMS, Gurobi).
- Possess experience with programming in scientific languages (e.g. Python, R, Matlab, C++ and other object Oriented Programming Languages)

- Excellent oral and written communication skills and strong interpersonal and organizational skills.
- Excellent personal time management, project management, and organizational skills.

### **DURATION OF THE POSITION**

The position will be based at FAU, Boca Raton campus and on the Transportation Engineering Hub of FAU, Davie campus. The postdoctoral associate will work with an integrated team of faculty researchers, software engineers, and students from FAU and FMRI. The position is open immediately, and a successful applicant should be able to start shortly after acceptance. The position offers a competitive salary and benefits based on qualifications and experience.

### **APPLICATION SUBMISSION**

Interested applicants should submit one .pdf document with a letter of interest, curriculum vitae, a brief research statement, and contact information with a minimum of three professional references. The documents should be sent to Ms. Beatriz Bresani (Coordinator, Research Programs/Services (FMRI) at [bbresani@fau.edu](mailto:bbresani@fau.edu). The applicants are encouraged to submit their applications as soon as possible. Short-listed applicants will be invited for a Skype interview. Women and under-represented minorities are strongly encouraged to consider this opportunity. Florida Atlantic University is an Equal Opportunity/Equal Access Institution. Individuals with disabilities requiring accommodation, please call 561-297-3057.TTY/TDD 1-800-955-8771.

**Consideration of the received applications will begin immediately, and will continue until the position is filled.**