

## Postdoctoral Fellow—open position

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The Network Dynamics Lab invites exceptional applicants to apply for a Postdoctoral Fellow position in the School of Civil and Environmental Engineering at the Georgia Institute of Technology. The successful candidate will work with Prof. John E. Taylor to design, implement and lead research in the broad area of urban sustainability and resilience theory, experimentation, and application. The appointment period is initially one year with the possibility to extend to two years.

### Requirements

- ◇ PhD in Engineering, Statistics, Computer Science, or a related analytical field.
- ◇ Demonstrated ability to lead, execute, and manage research projects independently.
- ◇ Extremely strong and high-quality publication record in leading peer-reviewed journals on topic areas such as energy, urban computing, smart cities, and/or extreme events.
- ◇ Strong interest in developing and leading interdisciplinary projects at the intersection of civil and infrastructure engineering, urban computing, network science and urban social science.
- ◇ Solid foundation and experience in 2 or more of the following areas in relation to urban networked systems and urban sensing/analytics:
  - Large-scale data and visual analytics
  - Advanced data analytics and modeling of heterogeneous data
  - Social network analysis, graph modeling, and network simulation
  - Large scale graph analytics and visualization of complex networks
  - Complex systems modeling and analysis
- ◇ Fluency in academic and technical communication (oral and written).

### Expectations

- ◇ Design, develop, and re-envision aspects of urban sustainability and resilience within the core research areas in the Lab.
- ◇ Conduct theoretical and applied research on quantifying, modeling, and predicting of the key determinants of social, natural and engineered system interactions among urban systems (e.g., communication, transportation, and energy systems) in the face of societally changing phenomena (e.g., urbanization, technological change, epidemics, and extreme events) to understand the sustainability and resilience needs of urban environments.

- ◊ Publish research results in top-tier peer-reviewed journals.
- ◊ Present research results at leading national and international conferences.
- ◊ Communicate research results to the scientific community through internal/external seminars, invited talks, and workshops.
- ◊ Proactively contribute to all aspects of research, teaching, and service; identify technical and logistical issues and implement solutions.
- ◊ Mentor MS/PhD students and supervise undergraduate students.
- ◊ Collaborate with external academic groups, liaison with other Georgia Institute of Technology schools, outside/industry collaborators, and others to advance research goals through the Lab's applied projects.
- ◊ Support course/curriculum development efforts and deliver periodic methods seminars to the research group.
- ◊ Manage data collection processes and data sets.

## Details

To apply, please contact Dr. Taylor at ([jet@gatech.edu](mailto:jet@gatech.edu)) with your:

- ◊ Current CV.
- ◊ Research Statement, describing your interest in the position, in what specific research areas of the Lab you envision yourself contributing, and how this Postdoctoral Fellow position will further your career goals.
- ◊ Complete list of publications (please provide electronic links or attach copies of your three most representative publications).
- ◊ Name and contact information of 3-5 references.

*The Georgia Institute of Technology is an Equal Opportunity/Affirmative Action employer, and applications from women and under-represented minorities are encouraged.*