

**Job Description – Postdoctoral Fellow Position**

Position: Postdoctoral Fellow

Department: Center for Advanced Infrastructure and Transportation (CAIT) & Department of Civil and Environmental Engineering

Location: Rutgers University, 100 Brett Rd. Piscataway, NJ 08854

Full-time Experienced

Salary: Commensurate with experience

**Job Description:**

The Rutgers CEE Urban Informatics lab & The Infrastructure Resilience Group at Rutgers Center for Advanced Infrastructure and Transportation (CAIT) invite applications for a postdoctoral fellow position in the area of urban-scale mapping and modeling of coastal communities with applications in flood vulnerability assessment and mitigation, risk communication, and smart and connected communities. The successful candidate will lead research activities related to mobile mapping of coastal communities, processing of mobile lidar data, extraction of flood-related structural information from point cloud data, and developing flood risk modeling and visualization products. He/she will have opportunities to work in a state-of-the-art lab as Rutgers Urban Informatics laboratory is equipped with a suite of remote sensing systems such as mobile and static lidar systems, infrared thermography cameras, and drones as well as advanced computing and visualization systems such as CAVE (an immersive visualization facility) and computing clusters for data intensive research. He/she is also expected with working and collaborating within a research group supported by various federal funding programs such as NSF Smart and Connected Community, NSF Partnership for Innovation, NSF Future Works programs, and USDOT University Transportation Center program.

**Requirements:**

The ideal candidate will have experience in one or more of the following topics: geospatial mapping, lidar data processing, flood modeling and impact analysis, urban-scale digital twin, GIS & geospatial big data, large-scale geo-visualization, AI and data science approaches for smart and resilient communities. Applicants must have a Ph.D. in Civil and Environmental Engineering, Coastal Marine Science, Computer Science, Electrical Engineering, or a closely related field. This position also requires good communication and presentation skills, and a strong proficiency in technical writing and editing. The individual will be expected to hold very high standards in how information is developed and presented. The remuneration and benefits are competitive, and commensurate with qualification and experience. Review of applications will begin immediately and continue until the position is filled. The candidate is expected to start no later than June, 2021. The initial appointment is for one year, but renewable for another year.

Rutgers University is located at a dynamic, beautiful, and vibrant urban area with easy access to major cities including New York and Philadelphia. Rutgers University is an Equal Opportunity/Affirmative Action Employer. Rutgers is also an ADVANCE institution, one of a limited number of universities in receipt of NSF funds in support of our commitment to increase diversity and the participation and advancement of women in the STEM disciplines.

**To Apply:** Visit <https://jobs.rutgers.edu/postings/126142>

Please also send your CV via email to Dr. Jie Gong at [jg931@soe.rutgers.edu](mailto:jg931@soe.rutgers.edu).