

The Rutgers CEE Urban Informatics lab & The Infrastructure Resilience Group at Rutgers Center for Advanced Infrastructure and Transportation (CAIT) has an opening for a fully funded Ph.D. student position in the areas of engineering systems and data science for climate resilience. The position is part of a multi-university **Megalopolitan Coastal Transformation Hub (MACH)** through the National Science Foundation's Coastlines and People (CoPe) Program. The candidate will work with a multidisciplinary team consisting of researchers from different domains such as climate and sea level scientists, civil engineers, urban planners, economists, emergency management specialists, social scientists, and humanists, among others. The candidate will also 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.



Requirements:

The ideal candidate will have experience in one or more of the following topics: flood modeling and impact analysis, vulnerability assessment for coastal communities, 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 BS/MS in Civil and Environmental Engineering, Coastal Marine Science, Geoscience, Computer Science/Data Science, or a closely related field. Review of applications will begin immediately and continue until the position is

filled. The candidate is expected to start in Spring 2023. The initial appointment is for one year, but renewable for multiple years.

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.

Please send your inquiries to Dr. Jie Gong at jg931@soe.rutgers.edu.