Applications are invited for one PhD student position in the hydro-environment informatics research lab led by Dr Roger (Ruo-Qian) Wang at the Department of Civil and Environmental Engineering, Rutgers University (www.whirl-lab.com). The research direction will be the integration of big data, artificial intelligence with numerical models for coastal flooding and/or offshore wind energy. The PhD candidate will have opportunities to learn and develop novel data-driven analysis methods to analyze high-fidelity numerical models of coastal and hydro-environmental problems. The potential research projects will focus on data fusion and data assimilation of the emerging social media, Internet of Things, and remote sensing data. The positions are fully funded and open to both international and domestic students.

A master or bachelor’s degree in science, engineering or related fields is required. Priority will be given to candidates with a background in hydrodynamics, hydrology, numerical modeling, data science, and/or uncertainty quantification. Programming skills in Python, C++ or MATLAB are essential. Motivated applicants with strong communication skill, especially experience in scientific writing and presentation are more preferable.

The student is expected to start in fall 2019 or spring 2020. The interested students should send his/her CV to Dr Wang (rq.wang@rutgers.edu) for further guidance of application. The admission requirement of standard exams can be found at https://cee.rutgers.edu/apply-1.

Dr Roger (Ruo-Qian) Wang is an Assistant Professor at the Department of Civil and Environmental Engineering, Rutgers University. He has conducted Postdoctoral research in Civil and Environmental Engineering at the University of California, Berkeley, and Mechanical Engineering and Tata Center for Research and Technology at MIT. He has obtained PhD in Environmental Fluid Mechanics at MIT.