

University of Georgia

MS / PhD Student Assistantship in Coastal Engineering / Resiliency

Position Description: The University of Georgia (UGA) School of Environmental, Civil, Agriculture, and Mechanical Engineering (<https://engineering.uga.edu/schools/ecam>) is seeking a highly-motivated MS or PhD student to begin Spring 2021. The graduate student will work under Dr. Matthew Bilskie. The general scope of work includes high-performance computational modeling of astronomic tides, hurricane storm surge, and wind-waves and their impacts on coastal systems and communities for present and future conditions (including climate change and sea level rise). Specific themes of focus for independent research include real-time hurricane storm surge forecasting; compound flood modeling (rainfall-runoff, high river flows, and coastal storm surge); event-driven and long-term barrier island evolution; unstructured mesh generation; and natural- and nature-based feature implementation and assessment.

Qualifications: Candidates should have been awarded a B.S. degree in Civil, Environmental, or Coastal Engineering or related field (M.S. is preferred for PhD students). The ideal candidate will have experience with computer programming /scripting (Matlab, Fortran, Python, R, bash scripting, etc.), the Linux command line, and GIS. Strong communication and writing skills are essential as well as the ability to work within a lab group setting. Although it is not necessary to have all of these skills at the start, the ideal candidate will have a willingness to learn from others and the motivation to self-teach skills.

Please contact Dr. Matthew Bilskie by email at mbilskie@uga.edu with the subject heading "UGA Graduate Student Inquiry – Dr. Bilskie" and provide a cover letter, CV and contact information for at least three references.