ABE Pathfinder Ph.D. Fellowship

My Research Group (Climate Resilience Lab: https://nassernajibi.github.io/lab) in the Dept. of Agricultural & Biological Engineering (ABE) at the University of Florida has an immediate opening for one fully funded Ph.D. student to begin in Fall 2026.

The project focuses on understanding the causal mechanisms through which single or compound extreme weather events disrupt critical infrastructure networks (e.g., water, energy, IT, food/agriculture, transportation, and financial services), and on quantifying tipping points and resilience thresholds that emerge under evolving climate risks and anthropogenic stressors. The Ph.D. fellow will develop and apply Bayesian network models and stochastic, multi-hazard simulators to integrate physical drivers, infrastructure dependencies, and probabilistic risk pathways.

Requirements:

Candidates should have strong programming skills (e.g., Python, Julia, or R) and a background in statistical analysis, extreme weather events, and computational engineering. Applicants must hold a Bachelor's and/or Master's degree in engineering, environmental science, applied mathematics, or a related field. For more information on admission requirements, please visit the Department website at https://abe.ufl.edu/graduate/admissions. The research environment is highly collaborative, with close co-mentorship and interaction with experts in coupled natural–human systems, resilience analysis, remote sensing, and climate modeling.

To Apply:

Email Dr. Nasser Najibi at nnajibi@ufl.edu with a cover letter outlining your research interests, relevant experience, and motivation, along with a copy of your CV and transcript(s) (subject line: *"Prospective Pathfinder PhD Fellow"*). Applications will be reviewed immediately, and the position will remain open until filled.