



*Call for Applications*

## **Coastal Climate Risk & Resilience**

*A new transdisciplinary graduate certificate and NSF Research Traineeship*



**Rutgers University in New Brunswick, New Jersey, is looking to recruit graduate students to join a new traineeship in Coastal Climate Risk & Resilience in fall 2017!**

The nation's coasts are home to much of the American population and much of the American economy, as well as many valuable ecosystems. About 23 million Americans live within 6 meters of sea level. In many parts of the country, sea-level rise between 1960 and 2010 (about 8 cm in the global mean) has already led to a 2-5-fold increase in the rate of 'nuisance' flooding. On top of rising seas, intensifying hurricanes and more frequent extremes of heat, humidity and precipitation pose additional risks to coastal societies, economies and ecosystems.



Rutgers' Coastal Climate Risk & Resilience (C2R2) traineeship is open to research-based Masters' and Ph.D. students in the Earth system sciences, social sciences, and engineering. Students will learn to (i) conduct research that integrates natural, socio-economic, and engineered elements of coastal systems and (ii) communicate effectively with coastal stakeholders in defining research problems, conducting research, and applying research to address real-world resilience challenges.

Over their first two years, trainees will take four core courses: (1) a transdisciplinary seminar on methods and perspectives in coastal climate risk and resilience; (2) a course on communicating science to decision-makers; (3) a summer field course on coastal resilience, and (4) a studio workshop that brings trainees together with coastal stakeholders to address real decision problems. They will also take three elective courses, covering each of natural, socio-economic, and engineered systems. C2R2 Faculty will work with trainees to incorporate transdisciplinary research into their theses and to help them track and reflect on their experiences through the use of mental mapping techniques.

C2R2 is housed at Rutgers' Institute of Earth, Ocean, and Atmospheric Sciences and is a collaboration between the School of Arts & Sciences, the School of Environmental & Biological Sciences, the School of Engineering, and the Bloustein School of Planning & Public Policy. If you have students who are interested, please have them contact Rebecca Jordan ([Rebecca.Jordan@rutgers.edu](mailto:Rebecca.Jordan@rutgers.edu)), for a brief conversation!