

**Office of Research**

University of South Carolina

# Environment & Sustainability

Inventive exploration inspires a greener global community.



## USC Research Focus Area: Environment & Sustainability

USC researchers use a variety of methods to support environmental health and create a more sustainable way of life, from working with industry and other partners to optimize carbon sequestration in the state to surveying coastal water and habitat quality to assess human impacts.

## Belle W. Baruch Institute for Marine & Coastal Resources

[baruch.sc.edu](http://baruch.sc.edu)

The Baruch Institute is internationally recognized as a leading academic research institute in the areas of biological, geological, chemical, physical and hydrological processes, and the influences and interactions among these. The Baruch Institute's primary research site, North Inlet Estuary is an environmentally unique location that offers incredible research opportunities. Because of its essentially pristine habitat and water qualities, it serves as a sentinel site for climate change and provides an increasingly rare opportunity for scientists to assess impacts associated with human activities. The Baruch Institute also engages in public outreach and education for diverse audiences from K-12 and university students to governmental regulatory personnel and the general public.

## Earth Sciences & Resources Institute

[esri.sc.edu](http://esri.sc.edu)

USC's Earth Sciences and Resources Institute (ESRI) conducts applied research and service in petroleum and environmental geosciences, engineering and computer applications. Recently, ESRI has worked with public and private partners to evaluate the feasibility of storing captured carbon dioxide underground in South Carolina with the goal of discovering safe, permanent storage locations. In 2014, ESRI and partners at Coastal Carolina University and collaborators at the SC Institute of Archaeology and Anthropology, SC Energy Office and SC Sea Grant Consortium received a \$250,000 grant from the U.S. Bureau of Ocean Energy Management to evaluate the geophysical conditions of specific areas off the South Carolina coast for wind energy generation.



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For more: [sc.edu/research/research\\_focus\\_areas/environment\\_and\\_sustainability](http://sc.edu/research/research_focus_areas/environment_and_sustainability)