

LSU's College of the Coast & Environment (CC&E) equips sectors, such as health, defense, energy and agriculture, with knowledge that strengthens the well-being of people, animals, and ecosystems.

Using cutting-edge tools like analytical instruments, computer modeling, remote sensing and GIS, CC&E monitors, assesses and predicts environments threats. Building on this expertise, the college prepares future leaders through innovative programs, including a fast-track option in environmental public health.

Most importantly, CC&E empowers decision-makers to develop science-based policies that protect water, manage pollution, and address changing weather, ultimately enhancing quality of life in Louisiana and beyond.



CC&E's Recent Research

Researching Environmental Toxins

Investigates land, water, and air toxins to reveal their effects on health and ecosystems.

Mapping Human Resilience and Vulnerability

Develops indices that pinpoint communities' ability to withstand environmental hazards.

Investigating Harmful Algal Blooms (HABs)

Examines HAB causes, predicts their occurrence and investigates mitigation strategies to protect human and wildlife health.

Monitoring Oil Spills

Traces spill sources and assessing environmental damage across ecosystems.

Testing Wastewater for Presence of New Illegal Drugs

Helps public health stakeholders and law enforcement determine the use, trend and volume of specific drugs consumed in Louisiana.

Improving Treatment of Radioactive Wastewater

Investigates two new methods for treating radioactively contaminated water – Microalgae cultivation and capacitive deionization.

Monitoring PFAS (synthetic "forever chemicals") Contamination

Evaluates health impacts from catastrophic industrial incidents and developing future risk management strategies.