

# PEARL

*PATUXENT ENVIRONMENTAL AND AQUATIC RESEARCH LABORATORY*

## Who we are

PEARL applies interdisciplinary approaches to studying the connections between complex ecological systems, while providing society with knowledge to meet the environmental challenges of the 21st Century.



## What we do

### Research

PEARL fosters an interdisciplinary, collaborative approach to address challenging questions at the rapidly changing land-sea interface, such as climate change, sustainable aquaculture, coastal resilience, and economic development.

### Education

- We provide hands-on experience and active learning in both field and laboratory settings to prepare the next generation to meet environmental challenges.
- We provide training to the power plants to enable development of sustainable responses to environmental variability.

### Services

- We conduct monitoring of aquatic systems for both remediation and management,
- We provide facilities, training and support to the aquaculture industry



## What we have done

- Research that has been basis for state regulations and policy.
- Education programs that are national models.
- Economic development that is environmentally sustainable

Our research and



training activities are

distributed into three research foci:

- Coastal Resilience
- Natural Resource Economics
- Environmental Education

PEARL's suite of facilities and proximity to diverse habitats are critical to our research scientists. The facilities include:

- A 22,000 square foot laboratory and office building
- Both a Class 100 and Class 1000 clean rooms
- Fleet of research vessels
- Private dock providing access to the Patuxent River
- Outdoor and indoor facilities with flow-through ambient water
- Scuba support and dive locker
- Oyster hatchery with aquaculture support and production facilities
- Large-scale algae production center
- Teaching laboratory, conference room and library
- Range of research laboratories, including isotope, constant temperature, and analytical

