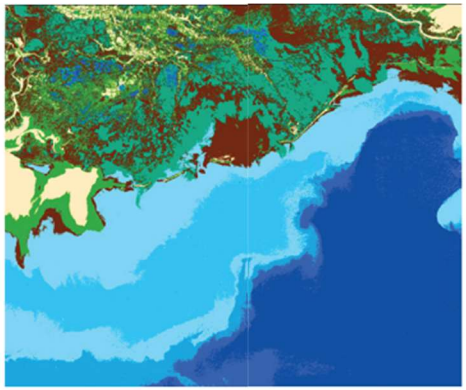

UNIVERSITY of LOUISIANA LAFAYETTE

RISING WATER

GEOSERVICE Summer Workshops

July 18-22 or July 25-29

WHAT IS GEOSERVICE?

GEOscience **S**tudents **E**xcelling in **R**eal, **V**ital **I**nvestigations with **C**ommunity **E**ngagement.

GEOSERVICE applies earth observation technology in interdisciplinary projects that address environmental and public challenges that confront our society and future generations. GEOSERVICE matches industry partners and program participants to better prepare students for career paths in geosciences: geology, environmental sciences, coastal studies, natural disaster monitoring and more.

CAREER PATHWAYS IN GEOSCIENCES

- Health & Air Quality
- Disaster Response
- Water Resources
- Ecology/Earth Observation
- Urban Development
- Environmental Impact
- Food Security & Agriculture
- Energy
- Transportation & Infrastructure

Rising water is shaping the future of Louisiana and the Gulf Coast. Explore with us the shifting physical landscapes and how human activities must respond to them.

WHAT WILL YOU DO?

Attendees will learn how satellite imagery/monitoring is used to enable better management of our resources and environment, and how to discuss the science behind such management with their peers and communities.

Landsat satellites have been monitoring the Earth since 1972. To celebrate the 50th anniversary, students will utilize existing images from Landsat satellites that demonstrate the changes in Louisiana's environment that affect humans, wildlife, water resources, agriculture and more.

Participants will use NASA AEROKATS kites, drones and other scientific instruments to gather new data and images that will be integrated with observations from those Landsat satellites, aircraft and other platforms. The "Birds-Eye" view allows for similar observations to those used on NASA spacecraft and aircraft.

Images from the kites' remote camera systems will be collected and analyzed using state-of-the-art industry software. Attendees will learn to interpret the collected data using earth observation topics covered throughout the program and create communication tools to share within the community.

WHO SHOULD APPLY

Anyone interested in pursuing experience or a possible career in earth sciences may apply. Applicants should be between 16 and 19 years old and be in good standing with their high schools. Preference will be given to students in the 11th and 12th grades.

The workshop will be held from 9 a.m. to 3:30 p.m. and lunch will be provided. Participants must provide their own transportation.

NSF is sponsoring this workshop; it is free for participants.

SCAN HERE TO APPLY

QUESTIONS?

For more information, contact the RAC at geoservice@louisiana.edu.

The UL Lafayette/NASA Regional Application Center (RAC) is located in University Research Park and works to gather and share satellite and remote sensing imagery. Earth observation data is shared with the public, military, governmental agencies and other research centers. This research and collected imagery is vital to emergency response, coastal restoration, transportation, urban planning and agriculture. RAC, in conjunction with the School of Geosciences, utilizes remote sensing data such as Landsat satellite imagery to study rising water and its effects on Louisiana's landscape. The program offers workshops, certifications, and academic courses at UL Lafayette, and the RAC has developed a traveling Earth as Art exhibit that showcases the beauty of the place we call home – EARTH.

LOUISIANAVIEW.ORG/RISINGWATER