College of Arts and Sciences **Earth Sciences & Resources Institute**
University of South Carolina

Environmental Science

Providing advanced solutions to challenging environmental problems

ESRI-SC's environmental research ranges from using geophysical methods for environmental hazards such as earthquakes or subsurface toxic contaminants, to carbon capture, utilization and storage (CCUS), to nationally recognized science-based video outreach.

ESRI-SC

The Earth Sciences and Resources Institute (ESRI-SC) is composed of highly experienced professionals who can solve technical environmental and energy problems using an integrated team approach. ESRI-SC is committed to environmental research with federal, state and local government, industry, local business, NGOs, not-for-profit organizations, and the private sector.

ESRI-SC is nationally recognized for its state-of-the-art expertise in advanced geological site characterization, groundwater modeling, surface water quality as well as software applications for seismic and ground penetrating radar (GPR) data.

ESRI-SC provides integrated solutions to challenging geoscience and environmental conservation issues by maintaining a dynamic ensemble of core technical capabilities while offering student training and mentorship through research opportunities.

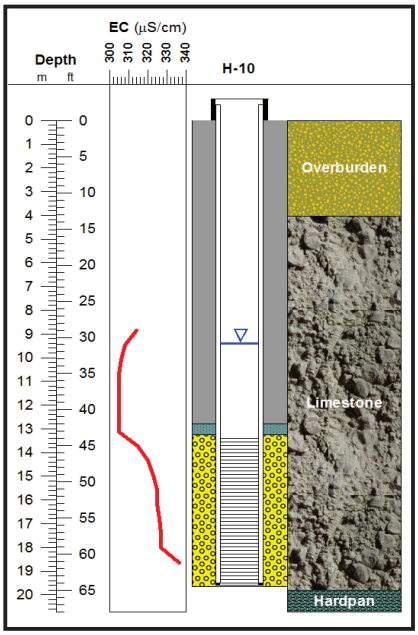
Outlook

ESRI-SC is well placed to meet the nation's ongoing urgent need to identify and access reliable, clean, efficient, and affordable energy sources. Our state-of-the-art capabilities can be leveraged to expand into additional exploratory initiatives, similar to the current effort to evaluate the efficacy of CO_2 storage to mitigate anthropogenic climate change.

http://www.esri.sc.edu/
info@esri.sc.edu

Resources

- Acquisition, processing, and interpretation of seismic reflection data, GPR, and electrical resistivity.
- Surface and ground water investigation and monitoring equipment and software.
- State of the art industry software for processing, interpretation, and modeling of geophysical data.
- Multiphase CO_2 injection simulation modeling.
- Lab equipment for surface water bacterial and soil respiration investigations.
- Equipment for documentary development, production, and editing.



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