

DEPARTMENT OF
EARTH SCIENCES



Graduate Programs

The graduate program in the Department of Earth Sciences in the University of Delaware College of Earth, Ocean and Environment involves a dynamic and diverse group of faculty and students investigating many aspects of the earth sciences. Individual lab groups foster close connections between faculty advisors, post-docs, and graduate students. With faculty interests ranging from geomicrobiology to geodynamics to groundwater, the opportunities for research are broad. And the impact of your research can be significant.

PROGRAMS

Geological Sciences (MS, PhD)
Water Science and Policy (MS, PhD)

Minerals, Materials and Society
Certificate



The major areas of study in the Department include geochemistry, geomorphology, hydrology, and geobiology, as well as more traditional research areas in geophysics, petrology, rock mechanics, and paleontology and stratigraphy.

Faculty in the department are engaging in multi- and interdisciplinary research that significantly contributes to the earth sciences and translating their new concepts and theories to the classroom. Because of this approach to education, our program prepares students for employment in a wide variety of professional, environmental, and academic careers across a breadth of earth science sub-disciplines.

CURRENT RESEARCH

Aqueous Biogeochemical Processes
Earth Surface Processes
Geodynamics
Geoscience Education

FACILITIES AND RESOURCES

Laboratories for low-temperature geochemistry, geomicrobiology research; isotope mass spectrometry facility; computational facilities for groundwater and nanogeochemical processes modeling; radiogeochemistry; water, rock, and sediment sample processing facilities, and specialized remote sensing and geophysical equipment.



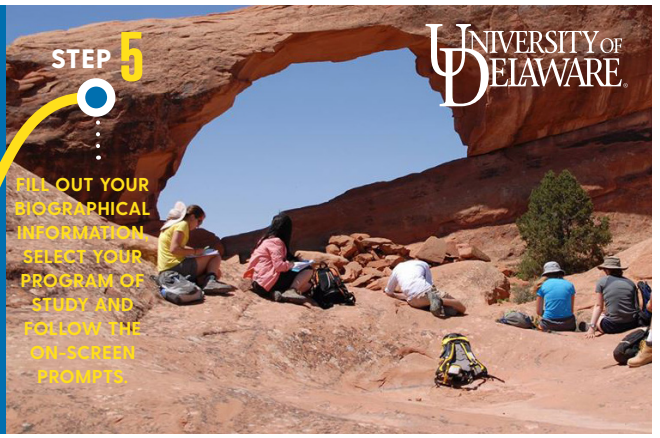
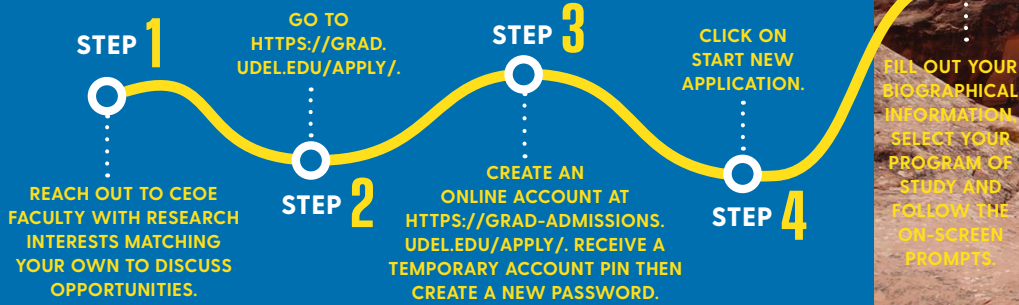
Application information and process is online at grad.udel.edu/apply, but applicants are encouraged to contact potential advisors directly prior to application.

Faculty information and research interests on reverse.

For more information

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ARE YOU READY TO APPLY?



EARTH SCIENCES FACULTY & RESEARCH INTERESTS

ELIOT ATEKWANA
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ESTELLA ATEKWANA
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Chemical oceanography; paleoceanography; environmental geochemistry; non-traditional isotopes.
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Seismology; geophysics; tectonics.
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HOLLY MICHAEL
(Massachusetts Institute of Technology, 2005) Coastal groundwater dynamics; groundwater flow and solute transport modeling; groundwater-surface water interaction; water supply sustainability; geostatistical modeling.
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MICHAEL A. O'NEAL
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Geomorphology; how Earth's surface is molded by climatic, geologic, and anthropogenic processes over diverse timescales as detected by laser mapping systems, remotely sensed imagery, traditional instrument surveys.
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(University of Minnesota, 1982)
Fluvial geomorphology; use of radioactive isotopes to document sedimentation patterns; transport and fate of contaminated sediments.
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Low-temperature aqueous geochemistry; geobiology and biomineralization; geochemical modeling.
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Plate tectonics; mantle flow and rheology; high-temperature geochemistry.
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