

# PH.D. IN GEOSCIENCES

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Geosciences Ph.D. students contribute original basic and applied research during the completion of their degrees. The Ph.D. degree opens opportunities for a wide range of Earth science careers, including geology, seismology, economic geology, environmental geosciences, glaciology, paleoclimatology, geochemistry, geophysics, geochronology, geodynamics, geomorphology, hydrogeology, igneous and metamorphic petrology, petroleum geology and petrology, sedimentology, stratigraphy, structural geology, tectonics, and more. Students work closely with their advisor and graduate committee to identify and pursue their dissertation topic with a curriculum that is specific to their academic needs and goals. Prospective students should contact relevant candidate faculty advisors in the department.

Students interested in graduate work should refer to CSU's Graduate and Professional Bulletin (<http://catalog.colostate.edu/general-catalog/graduate-bulletin/>).

## Learning Objectives

1. Development of breadth and depth of expertise in geosciences and cognate sciences to levels of an independently creative scientist.
2. Practice of the process of widespread dissemination of research results through oral and poster presentations at professional meetings and through the steps and requirements of peer-reviewed publications.
3. Mastery of design and completion of research projects in at least one of the subdisciplines of geosciences that involve multiple research methodologies, and of linking results from multiple methodologies into scientific interpretations.