





Connect

Grow

Build

This career compass provides options, tips, suggestions, and strategies for how a student can obtain critical skills, experiences, and competencies in order to launch their geoscience career based on their academic standing. The content herein is based on data from the U.S. Bureau of Labor Statistics, interviews with personnel in the occupation, and research on available student opportunities.

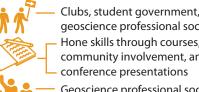
Job Summary

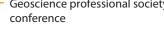
Geophysicists use the principles of physics to learn about the Earth's surface and interior. Their work includes studying the properties of Earth's magnetic, electric, and gravitational fields. They employ field, laboratory, and computational techniques in the investigation, measurement, analysis, evaluation, and interpretation of phenomena related to the structure. composition, physical properties, and dynamics of the Earth's surface and interior.

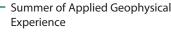
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Undergraduate







in Solid Earth Sciences for Students (RESESS) or UNAVCO Student Internship Program (USIP)

for Seismology (IRIS) internship

Southern California Earthquake Center (SCEC) internships SURE or **USEIT**

citizenship or ability to obtain a security clearance)

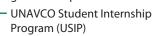
Degree in geosciences, physics, math, engineering, or environmental science

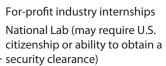
Courses in earth science, math, physics, and computer science

experience

Graduate/Master's







Also applicable

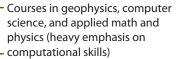
at Ph.D. level

Summer of Applied Geophysical Experience

IRIS Early Career Investigators Independent geophysics research

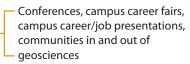
with qualifiable skill development and scientific contribution

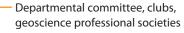
Lab, field, applied research, or instrumentation experience Become a teaching assistant



Master's thesis topic related to geophysics

Ph.D./Post-doc





Present research at conference Publish research, collaborate with colleagues on research projects

Host session at professional conference, lead undergraduate field trips, community outreach

ORISE internships, fellowships, and research opportunities

USGS Mendenhall Program

Mentor undergraduate student research project **National Science Foundation**

Postdoctoral Fellowship Become a teaching assistant

Extensive applied research, computer programming, lab, field, or instrumentation experience

 Advanced courses in geophysics, applied math and physics, and courses with major computing/ — computer science components

Dissertation topic(s) related to geophysics





















Clubs, student government, or geoscience professional societies Hone skills through courses, community involvement, and

Geoscience professional society

- UNAVCO's Research Experiences

Incorporated Research Institutions

National Lab (may require US

For-profit industry internships



Research experience

Lab, field or instrumentation