

Geoscience Faculty





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

An assistant professor specializes in a specific sub-discipline of the geosciences. Depending on where they are employed (2-year college or a 4-year college or university), they may spend their time teaching, conducting research, publishing original research, applying for grants to fund their research, or supervising research students, research staff and/or teaching assistants. They may also serve on department, college, university, or professional organization committees; do outreach and are involved in advising and/or mentoring students. A Ph.D. may not be required to teach at a 2-year college as it is typical to have a master's degree in the discipline or to teach as an adjunct instructor (18 credit hours in discipline needed).

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Undergraduate



Geoscience professional society conference



Clubs, student government, or geoscience professional societies





Events, activities, and technical sessions at professional society conference or alumni from your undergraduate institution

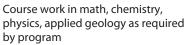


Geoscience internship with a non-profit, for profit organization or company, research or educational institution, or federal/state agency



science-related educational events at local schools, museums, in your community, etc. -

or other science or math major



Lab, field, or instrumentation experience



independent research

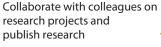
Graduate/Master's



Departmental committee, campus club, graduate student organization, geoscience professional society



Events, activities, and technical sessions at professional society conference





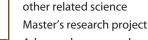
Hone and demonstrate oral and communication skills through courses, involvement in the geoscience community, or via presentations at conferences

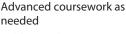


Become familiar with resources



Produce a thesis Degree in the geosciences or



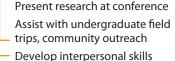


Public speaking or science communication courses

Ph.D./Post-doc



Present complex scientific concepts to nontechnical audiences





Professional development courses about teaching and preparing for the professoriate through your institution or geoscience professional society

National Association of Geoscience Teachers (NAGT) workshops and resources related to preparing for an academic career in the geosciences



Degree in the geosciences Dissertation topic(s) related to specific area of geoscience

Practice of synthesizing and evaluating geoscience research as well as solving critical problems in research

Guest lecture or teach your own course

























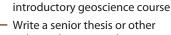


Grow

Volunteer in public Earth

Also applicable at Graduate level

Degree in earth science, geosciences,



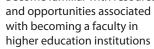


Teaching assistant for geoscience course

www.americangeosciences.org/workforce/

Build

Teaching assistant or tutor for





Also applicable at Ph.D. level

Knowledge at the most advanced frontier of a subdiscipline

