

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

Hydrologists study how water moves across and through the Earth's crust. They use their expertise to solve problems in the areas of water quality or availability. Hydrologists work in offices and in the field. In offices, hydrologists spend much of their time using computers to analyze data and model their findings. In the field, hydrologists may have to wade into lakes and streams to collect samples or to read and inspect monitoring equipment.













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## Undergraduate



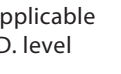








-  Clubs, student government, or geoscience professional societies
-  Hone skills through courses, community involvement, and conference presentations
-  Geoscience professional society conference
-  First Aid/ AED/CPR training
-  OSHA HAZWOPER training
-  Geologist in Training Certification (ASBOG Fundamentals Exam)
-  Geoscience internship with a non-profit, for profit organization or company, research institution, or federal agency
-  Degree in earth science, geosciences, or other natural science major
-  Proficiency in using and understanding GIS
-  Writing class outside the discipline (business or environmental law)
-  Course work in math, chemistry, or microbiology
-  Research experience
-  Field experience
-  Write a senior thesis

## Graduate/Master's

-  Present research at conference
-  Publish research
-  Events, activities, and technical sessions at professional society conference
-  Departmental committee, clubs, geoscience professional societies
-  First Aid/ AED/CPR training
-  OSHA HAZWOPER training
-  Geologist in Training Certification or Professional Geologist license (ASBOG Fundamentals of Geology Exam and/or the Practice of Geology Exam)
-  Geoscience internship with a non-profit, for profit organization or company, research institution, or federal agency
-  Degree in geosciences
-  Coursework in advanced math
-  Map creation software or groundwater modeling software
-  Master's thesis related to groundwater/surface water interaction

Also applicable at Ph.D. level

## Ph.D./Post-doc

-  Develop interpersonal skills
-  Present complex scientific concepts to nontechnical audiences
-  First Aid/ AED/CPR training
-  OSHA HAZWOPER training
-  Geologist in Training Certification or Professional Geologist license (ASBOG Fundamentals of Geology Exam and/or the Practice of Geology Exam)
-  Geoscience internship with a non-profit, for profit organization or company, research institution, or federal agency
-  Degree in geosciences
-  Coursework in advanced math
-  Map creation software or groundwater modeling software
-  Take a more focused approach in a discipline related to your career aspirations
-  Dissertation topic(s) related to groundwater/surface water interaction

