

SCIENCE PATHWAYS

WSU Geoscience

Education Requirements

Bachelor's	May lead to entry-level industry positions.
Licensing	Some work environments require special licensing or certification. A teaching certificate is usually required for teaching in public schools (explore teaching majors). Alternative licensure options may be available in some science fields.
Graduate Degree	Required for specialization in most science fields.
Master's	Often preferred for state survey work and advancement within industry and government.
Doctorate	Required for advanced research, upper-level administrative positions, independent research, and most university-level teaching.

Specialty Fields

Cartography/Geo Mapping	Making maps that convey geologic information.
Earth Science Education	Secondary, college, or university.
Economic/Mining Geology	Earth materials that can be used for industrial purposes.
Environmental Geology	Understanding environmental hazards and minimizing/mitigating human impact on the environment.
Geochemistry	Study of the earth using chemical methods (mass spectrometry, gas chromatography, etc.).
Geographic Information Systems (GIS)	Computerized management, analysis, and display of spatially-referenced information.
Geomorphology	How landforms at the Earth's surface develop.
Geophysics	Study of the earth using geophysical methods (seismic, magnetic, gravity, etc.)
Glaciology	Glaciers and glacial landforms, including their impact on climate, sealevel, etc.
Historical Geology	Multidisciplinary field that focuses on reconstructing the geologic history of the earth.
Hydrology	Water resources and systems within Earth's crust.
Ichnology	Study of trace fossils (tracks, trails, burrows, etc.)
Igneous Petrology	Description and interpretation of igneous rocks (formed as molten rock cools)
Metamorphic Petrology	Description and interpretation of igneous rocks (rocks that have been altered by heat and pressure).
Mineralogy/Crystallography	The chemistry, internal structure, and physical properties of minerals.
Natural Resource Management	Responsible management and use of our natural resources.
Oceanography	History and structure of the ocean floor.
Oceanography/Marine Science	Ocean and coastal process (multidisciplinary)
Paleobotany	Ancient plant systems preserved in the fossil record.
Paleoclimatology	Earth's climatic history as recorded by geologic processes.
Paleontology	The study of ancient life that is preserved in the fossil record.
Palynology	Plant pollen and spores (living and fossils).
Petroleum Geology	Application of geology to the search for oil and gas reserves.
Planetary Geology	Geology of celestial bodies (planets, asteroids, meteorites, etc.).
Sedimentary Petrology	Description and interpretation of sedimentary rocks, including sediment transport processes.
Soil Science	Study of the physical, chemical, and biological properties of soils, as well as their management.
Stratigraphy	Description and interpretation of Earth's rock layers.
Structural Geology	Deformational history of rock units (folds, faults, joints, etc.) and associated stress fields.
Tectonics	Large-scale changes in earth's crust over time.
Volcanology	Description and interpretation of volcanoes, including the materials they produce (ash, lava, etc.).

Strategies

Academics

- Consider electives in relevant fields such as computer science, business, public speaking, and writing.
- Choose appropriate coursework to specialize in an area that interests you.
- Undergraduate research projects are great to decide on specific areas of interest, gain hands-on experience, and prepare for graduate school. Publishing and presenting research is ideal. Contact faculty in your department or the WSU Undergraduate Research Office for details.
- Maintain excellent grades, especially if you are considering graduate school.
- Take courses and gain experience with geographic information systems (GIS)
- Read journals, magazines, and other literature to stay current in your field.
- Obtain a minor that is compatible with your career goals can be helpful (e.g., neuroscience, business, criminal justice, etc.)

Extracurricular

- Join related student organizations and consider holding leadership positions.
- Join professional organizations related to your field (low-cost student memberships are typically available). Consider attending professional conferences.

Skills

- Develop excellent mathematics, verbal, and written communication skills.
- Become proficient with computers and software related to your field (including desktop publishing).
- Develop strong interpersonal, teamwork, and presentation skills.
- Develop excellent verbal and written communication skills. Consider taking technical writing courses to aid in authoring proposals, obtaining grants, etc.

Experience

- Post-doctoral experience is preferred for research positions in industry, universities, and government.
- Build your resume through part-time, volunteer, internship, and summer work related to your major.

Technology

- Become proficient with high-tech scientific equipment.

Professional

- Have a love of the outdoors, an interest in nature, and a desire to travel.
- Develop physical stamina in order to do field research in remote areas under demanding conditions.

Network

- Learn the federal and state government application process.
- Develop an effective resume (or CV), interviewing skills, and job search strategies.
- Develop a network of professional relationships in your field.

Other

- Plan on taking a state exam to become a registered geologist.
- Employment prospects are best for those with a master's degree, familiarity with advanced technologies, and willingness to relocate.

Related Employers by Industry and Sector

* = Verified science-related jobs (any education level)

[#] = Number of WSU science students/alumni hired (where available)

AGRICULTURE/HORTICULTURE

Services

Intrepid Potash	UT-Moab	www.intrepidpotash.com
J.R. Simplot Company - Simplot Phosphates LLC	UT-Vernal, KY-Louisville, ID-Boise	www.simplot.com

BIOTECHNOLOGY

Food Engineering

J.R. Simplot Company - Simplot Phosphates LLC	UT-Vernal, KY-Louisville, ID-Boise	www.simplot.com
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BUSINESS

Public Outreach/Relations

U.S. National Science Foundation	VA-Arlington	www.nsf.gov
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Science Equipment/Supplies

ESRI	CO-Broomfield	www.esri.com
Fairmont Supply	UT-Price	www.fairmontsupply.com
Phillips Machine Service	WY-Sheridan	www.phillipsmachine.com
Wheeler Machinery Company	UT-Salt Lake City, UT-West Haven	www.wheelercat.com

Self Employment in Science

*Self Employment (Science Related) [2]	UT-Various, WY-Sheridan, KY-Louisville	
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Shipping/Distribution

ASC Scientific	CA-Carlsbad	www.ascscientific.com
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Technical/Pharmaceutical Sales

*Haliburton	CO-Denver, KY-Louisville	www.haliburton.com
ASC Scientific	CA-Carlsbad	www.ascscientific.com
Fairmont Supply	UT-Price	www.fairmontsupply.com
Phillips Machine Service	WY-Sheridan	www.phillipsmachine.com
Wheeler Machinery Company	UT-Salt Lake City, UT-West Haven	www.wheelercat.com

COMMUNICATIONS

Science News

American Association for the Advancement of Science	DC-Washington	www.aaas.org
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Science Publishing/Illustration

American Association for the Advancement of Science	DC-Washington	www.aaas.org
Geological Society of America	CO-Boulder	www.geosociety.org
John Wiley and Sons	KY-Louisville, NJ-Hoboken	www.wiley.com
National Geographic Society	DC-Washington	www.nationalgeographic.com
Nature Publishing Group	Great Britain-London	www.nature.com

COMPUTERS & INFORMATION

Computer Hardware & IT

Juniper Systems	UT-Logan	www.junipersys.com
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Computer Software

ESRI	CO-Broomfield	www.esri.com
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DEFENSE

Gov/Defense Contractor

*Science and Technology Corp (STC) [1]	CO-Boulder, UT-Dugway, UT-Lehi, KY-Louisville, VA-Hampton	www.stcnet.com
Military		
U.S. Army Corps of Engineers	UT-Bountiful, DC-Washington, KY-Louisville	www.usace.army.mil
EDUCATION		
Higher Ed		
*Universities (General) [1]	UT-Variou s, WY-Sheridan, KY-Louisville	
*Weber State University [39]	UT-Ogden	webercsme.org
Libraries		
*Public Libraries [1]	UT-Variou s, UT-Ogden, WY-Sheridan, KY-Louisville	
Secondary		
*Utah Dept. of Education - Charter Schools [4]	UT-Mariott-Slaterville	
*Utah Dept. of Education - School Districts [54]	UT-Variou s	www.schools.utah.gov
ENERGY		
Hydro/Solar/Wind		
*Norwest Corporation [1]	WY-Sheridan, CO-Denver, UT-Salt Lake City, WV-Charlston	www.norwestcorp.com
Idaho National Labs	ID-Idaho Falls	
Pacificorp	KY-Louisville, UT-Draper, OR-Portland, WY-Evanston	
U.S. Department of Energy	DC-Washington, KY-Louisville	energy.gov
U.S. National Renewable Energy Laboratory (NREL)	CO-Golden	www.nrel.gov
Utah Office of Economic Development - Energy Development	UT-Salt Lake City	energy.utah.gov
Nuclear		
Idaho National Labs	ID-Idaho Falls	
Stroller	CO-Grand Junction	www.stoller.com
U.S. Department of Energy	DC-Washington, KY-Louisville	energy.gov
Utilities		
Pacificorp	KY-Louisville, UT-Draper, OR-Portland, WY-Evanston	
Questar	UT-Salt Lake City	www.questargas.com
ENGINEERING & DESIGN		
Aerospace		
MWH Global, Inc	WY-Sheridan, UT-Salt Lake City	www.mwhglobal.com
U.S. National Aeronautics and Space Admin (NASA)	DC-Washington	www.nasa.gov
Electronics		
Juniper Systems	UT-Logan	www.junipersys.com
Engineering		
*Haliburton	CO-Denver, KY-Louisville	www.haliburton.com
*Kleinfelder [1]	CA-San Diego, UT-Taylorsville	www.kleinfelder.com
CH2M Hill [1]	UT-Taylorsville, KY-Louisville, WY-Laramie	www.ch2m.com
U.S. Army Corps of Engineers	UT-Bountiful, DC-Washington, KY-Louisville	www.usace.army.mil
URS Corporation	UT-Salt Lake City, WY-Sheridan	www.urs.com
ENVIRONMENTAL		
Conservation/Research		
*U.S. Bureau of Land Management [1]	UT-Salt Lake City	www.blm.com
Friends of the Great Salt Lake	UT-Salt Lake City	www.fogsl.org

National Geographic Society	DC-Washington	www.nationalgeographic.com
Nature Conservancy - Utah Field Office	KY-Louisville, UT-Salt Lake City	www.nature.org
Round River Conservation Studies	UT-Salt Lake City	www.roundriver.org
U.S. Environmental Protection Agency (Region 8)	CO-Denver	www2.epa.gov

Consulting

*BIOWEST, Inc.	TX-Austin, UT-Logan, UT-Salt Lake City	www.bio-west.com
*Keller-Bliesner Engineering, LLC [1]	UT-Logan	www.kelbli.net
*Kleinfelder [1]	CA-San Diego, UT-Taylorsville	www.kleinfelder.com
*Norwest Corporation [1]	WY-Sheridan, CO-Denver, UT-Salt Lake City, WV-Charlston	www.norwestcorp.com
*Nova Consulting Group, Inc.	KY-Louisville, UT-Salt Lake City	
*Private Consulting [1]	UT-Various, KY-Louisville, WY-Sheridan, UT-Salt Lake City, UT-Layton, UT-Murray	
*Terracon [1]	UT-Salt Lake City, UT-Bluffdale, KY-Louisville	www.terracon.com
Cardno ENTRIX	UT-Layton, UT-Salt Lake City, WY-Casper, KY-Lexington	www.cardnoentrix.com
CH2M Hill [1]	UT-Taylorsville, KY-Louisville, WY-Laramie	www.ch2m.com
IVI International	CO-Denver, KY-Louisville	www.ivi-intl.com
NewFields	NV-Elko, WY-Sheridan, KY-Louisville, NV-Sparks	www.newfields.com
SWCA Environmental Consultants	UT-Salt Lake City, KY-Louisville	www.swca.com
Tetra Tech	UT-Salt Lake City, UT-West Valley City, KY-Louisville	www.tetrattech.com
Western Technologies, Inc (WTI)	UT-Salt Lake City	www.wt-us

Monitoring/Analysis

*Stantec [1]	UT-Salt Lake City, UT-Sandy, WY-Sheridan, KY-Louisville	www.stantec.com
*Utah Dept. of Environmental Quality - Div. of Air Quality [1]	UT-Salt Lake City	www.deq.utah.gov
Stroller	CO-Grand Junction	www.stoller.com
U.S. Environmental Protection Agency (Region 8)	CO-Denver	www2.epa.gov

Planning/Engineering

*Earthtec Engineering [1]	UT-Ogden, UT-Lindon, UT-Salt Lake City	www.earthtecceng.com
*Haliburton	CO-Denver, KY-Louisville	www.haliburton.com
CH2M Hill [1]	UT-Taylorsville, KY-Louisville, WY-Laramie	www.ch2m.com
Project Engineering Consultants LTD	UT-West Jordan	www.pec.us.com
Terra Engineering and Construction Corporation		www.whyterra.com
U.S. Army Corps of Engineers	UT-Bountiful, DC-Washington, KY-Louisville	www.usace.army.mil

Regulation

*U.S. Bureau of Land Management [1]	UT-Salt Lake City	www.blm.com
*U.S. Forest Service - Uinta-Wasatch-Cache NF [4]	UT-Ogden, KY-Louisville	www.fs.fed.us
*Utah Dept. of Environmental Quality - Div. of Air Quality [1]	UT-Salt Lake City	www.deq.utah.gov
U.S. Bureau of Ocean Energy Management (BOEM)	DC-Washington, KY-Louisville	www.boem.gov
U.S. Environmental Protection Agency (Region 8)	CO-Denver	www2.epa.gov

Remediation

*BIOWEST, Inc.	TX-Austin, UT-Logan, UT-Salt Lake City	www.bio-west.com
Nalco	UT-Draper, UT-Vernal	www.nalco.com
Utah Dept. of Environmental Quality - Div. of Environmental Response and Remediation [1]	UT-Salt Lake City	www.deq.utah.gov

GEOTECHNICAL

Consulting/Analysis

*North American Exploration [8]	UT-Kaysville	www.nae-xploration.com
*Slumberger (TerraTek) [1]	UT-Salt Lake City	www.slb.com

Hayward Baker, Inc.	WY-Sheridan, KY-Louisville, UT-West Jordan	www.haywardbaker.com
Montgomery Watson Harza	CO-Broomfield	www.mwhglobal.com
Terra Engineering and Construction Corporation		www.whyterra.com
Well Services/Drilling		
*McKay Mineral Exploration LLC [1]	UT-South Ogden	www.mckaymineral.com
Morco Geological	NM-Carlsbad	www.morcogeological.com
Newfield Exploration Company	WY-Sheridan, TX-Woodlands	www.woodfield.com
Summit Mudlogging Services	UT-Heber City	www.summitmudlog.com
GOVERNMENT		
City		
*Salt Lake City Corporation [1]	UT-Salt Lake City	www.slcgov.com/jobs
County		
*Weber County	UT-Ogden	www.webercountyutah.gov
*Weber County - Weber-Morgan Health Department [1]	UT-Ogden	www.webermorganhealth.org
Davis County Corporation	UT-Farmington	www.co.davis.ut.us
Federal		
*U.S. Bureau of Land Management [1]	UT-Salt Lake City	www.blm.com
*U.S. Forest Service - Uinta-Wasatch-Cache NF [4]	UT-Ogden, KY-Louisville	www.fs.fed.us
*U.S. Geological Survey (USGS) [1]	UT-Salt Lake City, KY-Louisville	www.usgs.gov
National Bureau of Mines	UT-Salt Lake City	www.nationalbureauofmines.org
Sandia National Laboratories	NM-Albuquerque, KY-Louisville	www.sandia.gov
U.S. Bureau of Ocean Energy Management (BOEM)	DC-Washington, KY-Louisville	www.boem.gov
U.S. Bureau of Reclamation	UT-Salt Lake City	www.usbr.gov/hr
U.S. Department of Energy	DC-Washington, KY-Louisville	energy.gov
U.S. Environmental Protection Agency (Region 8)	CO-Denver	www2.epa.gov
U.S. National Aeronautics and Space Admin (NASA)	DC-Washington	www.nasa.gov
U.S. National Oceanic and Atmospheric Administration (NOAA)	DC-Washington	www.noaa.gov
U.S. National Park Service	UT-Variou, KY-Louisville	www.nps.gov
U.S. National Renewable Energy Laboratory (NREL)	CO-Golden	www.nrel.gov
U.S. National Science Foundation	VA-Arlington	www.nsf.gov
U.S. Natural Resource Conservation Service	UT-Salt Lake City	www.nrcs.usda.gov
U.S. Office of Surface Mining, Reclamation and Enforcement	DC-Washington	www.wrcc.osmre.gov
U.S. Secret Service	UT-Salt Lake City	www.secretservice.gov
State		
*Utah Dept. of Environmental Quality - Div. of Air Quality [1]	UT-Salt Lake City	www.deq.utah.gov
*Utah Dept. of Human Resources Management	UT-Variou, UT-Salt Lake City	dhrm.utah.gov
*Utah Dept. of Natural Resources - Antelope Island State Park [1]	UT-Syracuse	stateparks.utah.gov/park/east-canyon-state-park
*Utah Dept. of Natural Resources - Geological Survey (UGS) [2]	UT-Salt Lake City	geology.utah.gov
Utah Dept. of Environmental Quality - Div. of Environmental Response and Remediation [1]	UT-Salt Lake City	www.deq.utah.gov
Utah Dept. of Natural Resources	UT-Salt Lake City	naturalresources.utah.gov
Utah Dept. of Natural Resources - Div. of Oil, Gas and Mining	UT-Salt Lake City	oilgas.org.utah.gov
Utah Dept. of Natural Resources - Div. of Water Resources	UT-Salt Lake City	www.water.utah.gov
Utah Dept. of Transportation	UT-Salt Lake City	www.udot.utah.gov

Utah Office of Economic Development - Energy Development	UT-Salt Lake City	energy.utah.gov
LABORATORY & TESTING		
Industrial Lab		
Nalco	UT-Draper, UT-Vernal	www.nalco.com
LAW		
Environmental		
Fabian Attorneys at Law	UT-Salt Lake City, NV-Las Vegas	www.fabianlaw.com
Holland and Hart, LLP	UT-Salt Lake City	www.hollandhart.com
Parsons, Behle, and Latimer	UT-Salt Lake City	www.parsonsbehle.com
Stoel Rives LLP	UT-Salt Lake City	www.stoel.com
MANUFACTURING		
Chemical		
*TATA Chemicals North America [1]	WY-Sheridan, NJ-Rockaway, WY-Green River	www.tatachemicals
Construction		
Staker Parson	UT-Salt Lake City	www.stakerparson.com
URS Corporation	UT-Salt Lake City, WY-Sheridan	www.urs.com
Metals		
Rio Tinto - Kennecott [5]	UT-Magna	www.riotinto.com
Other		
Nalco	UT-Draper, UT-Vernal	www.nalco.com
MEDICAL		
Public Health		
*Weber County - Weber-Morgan Health Department [1]	UT-Ogden	www.webermorganhealth.org
MINING/EXPLORATION		
Coal		
*U.S. Geological Survey (USGS) [1]	UT-Salt Lake City, KY-Louisville	www.usgs.gov
American Gilsonite	UT-Bonanza	www.americangilsonite.com
Bowie Resource Partners, LLC	KY-Louisville	www.bowieresources.com
Metals		
*McKay Mineral Exploration LLC [1]	UT-South Ogden	www.mckaymineral.com
*Norwest Corporation [1]	WY-Sheridan, CO-Denver, UT-Salt Lake City, WV-Charlston	www.norwestcorp.com
*U.S. Geological Survey (USGS) [1]	UT-Salt Lake City, KY-Louisville	www.usgs.gov
Barrick Goldstrike	NV-Elko, WY-Sheridan	www.barrick.com
Glamis Gold, Inc.	NV-Reno	www.goldcorp.com
Lisbon Valley Mining Company	UT-La Sal	
National Bureau of Mines	UT-Salt Lake City	www.nationalbureauofmines.org
Rio Tinto - Kennecott [5]	UT-Magna	www.riotinto.com
U.S. Office of Surface Mining, Reclamation and Enforcement	DC-Washington	www.wrcc.osmre.gov
Utah Dept. of Natural Resources - Div. of Oil, Gas and Mining	UT-Salt Lake City	oilgas.org.utah.gov
Non-metals		
*McKay Mineral Exploration LLC [1]	UT-South Ogden	www.mckaymineral.com
*Norwest Corporation [1]	WY-Sheridan, CO-Denver, UT-Salt Lake City, WV-Charlston	www.norwestcorp.com
*TATA Chemicals North America [1]	WY-Sheridan, NJ-Rockaway, WY-Green River	www.tatachemicals
*U.S. Geological Survey (USGS) [1]	UT-Salt Lake City, KY-Louisville	www.usgs.gov

Graymont Western	UT-Salt Lake City	www.graymont.com
Holcim	UT-Morgan	www.holcim.com
Intrepid Potash	UT-Moab	www.intrepidpotash.com
J.R. Simplot Company - Simplot Phosphates LLC	UT-Vernal, KY-Louisville, ID-Boise	www.simplot.com
U.S. Office of Surface Mining, Reclamation and Enforcement	DC-Washington	www.wrcc.osmre.gov

Oil/Gas

*Halcon Resources [1]	TX-Houston	www.halconresources.com
*Haliburton	CO-Denver, KY-Louisville	www.haliburton.com
*Norwest Corporation [1]	WY-Sheridan, CO-Denver, UT-Salt Lake City, WV-Charlston	www.norwestcorp.com
*U.S. Geological Survey (USGS) [1]	UT-Salt Lake City, KY-Louisville	www.usgs.gov
Anadarko	TX-Woodlands, WY-Sheridan, KY-Louisville, UT-Vernal, WY-Gillette, CO-Platteville	www.anadarko.com
BP Global	Great Britain-London	www.bp.com
Chesapeake Energy	OK-Oklahoma City	www.chk.com
Chevron	UT-Salt Lake City, UT-Salt Lake City	www.chevron.com
ConocoPhillips	TX-Houston	www.conocophillips.com
EOG Resources	TX-Houston, CO-Denver	www.eogresources.com
ExxonMobile	TX-Irving, WY-Sheridan	www.exxonmobile.com
Newfield Exploration Company	WY-Sheridan, TX-Woodlands	www.woodfield.com
Pacificorp	KY-Louisville, UT-Draper, OR-Portland, WY-Evanston	
Richfield Oil and Gas	UT-Salt Lake City	www.richfieldoilandgas.com
Shell Oil Company	Netherlands-Hague, WY-Sheridan	www.shell.com
Summit Mudlogging Services	UT-Heber City	www.summitmudlog.com
Tesoro	UT-Salt Lake City, WY-Sheridan, KY-Louisville	www.tsocorp.com
U.S. Bureau of Ocean Energy Management (BOEM)	DC-Washington, KY-Louisville	www.boem.gov
U.S. Office of Surface Mining, Reclamation and Enforcement	DC-Washington	www.wrcc.osmre.gov
Utah Dept. of Natural Resources - Div. of Oil, Gas and Mining	UT-Salt Lake City	oilgas.org.utah.gov
Wolverine Gas and Oil	MI-Grand Rapids	www.wolverinegasandoil.com

NATURAL RESOURCES

Enviro Hazards

*U.S. Geological Survey (USGS) [1]	UT-Salt Lake City, KY-Louisville	www.usgs.gov
*Utah Dept. of Natural Resources - Geological Survey (UGS) [2]	UT-Salt Lake City	geology.utah.gov
Utah Dept. of Natural Resources	UT-Salt Lake City	naturalresources.utah.gov

Forests

*U.S. Forest Service - Uinta-Wasatch-Cache NF [4]	UT-Ogden, KY-Louisville	www.fs.fed.us
Utah Dept. of Natural Resources	UT-Salt Lake City	naturalresources.utah.gov

Water

*Salt Lake City Corporation [1]	UT-Salt Lake City	www.slcgov.com/jobs
*U.S. Geological Survey (USGS) [1]	UT-Salt Lake City, KY-Louisville	www.usgs.gov
U.S. Bureau of Reclamation	UT-Salt Lake City	www.usbr.gov/hr
U.S. National Oceanic and Atmospheric Administration (NOAA)	DC-Washington	www.noaa.gov
Utah Dept. of Natural Resources	UT-Salt Lake City	naturalresources.utah.gov
Utah Dept. of Natural Resources - Div. of Water Resources	UT-Salt Lake City	www.water.utah.gov

Wildlife

Utah Dept. of Natural Resources	UT-Salt Lake City	naturalresources.utah.gov
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OTHER

Nonprofit

Nature Conservancy - Utah Field Office	KY-Louisville, UT-Salt Lake City	www.nature.org
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Professional Organizations/Journals

American Association for the Advancement of Science	DC-Washington	www.aaas.org
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Geological Society of America	CO-Boulder	www.geosociety.org
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Science Promotion/Education

U.S. National Science Foundation	VA-Arlington	www.nsf.gov
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Science Staffing

*Aerotek	WY-Sheridan, KY-Louisville, UT-West Valley City	www.aerotek.com
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Urban Planning

*Better City [1]	UT-Ogden	bettercity.us
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RECREATION**Parks**

*Utah Dept. of Natural Resources - Antelope Island State Park [1]	UT-Syracuse	stateparks.utah.gov/park/east-canyon-state-park
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Natural History Museum of Utah (U of U)	UT-Salt Lake City	www.nhmu.utah.edu
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U.S. National Park Service	UT-Various, KY-Louisville	www.nps.gov
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RESEARCH & DEVELOPMENT**Government**

Los Alamos National Laboratories	NM-Los Alamos	www.lanl.gov
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U.S. National Science Foundation	VA-Arlington	www.nsf.gov
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University

Energy and Geoscience Institute	UT-Salt Lake City	egi.utah.edu
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TRANSPORTATION**Mass Transit**

Utah Dept. of Transportation	UT-Salt Lake City	www.udot.utah.gov
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Roads and Highways

Utah Dept. of Transportation	UT-Salt Lake City	www.udot.utah.gov
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Related Job Titles

Education Level	Typical Qualification
High School Diploma	
Field Technician	Related coursework in a scientific discipline preferred.
Museum Worker	On-the-job training (degree required for higher positions).
Presenter (Science)	H.S. diploma plus strong presentation skills.
Project Liaison	On-the-job training.
Small Business Owner	Business degree or WSU entrepreneurship minor helpful but not required.
Upper Division Coursework	
Student Trainee	Some college science coursework
Watershed Ranger	Two-years post high school study in forestry, hydrology, water treatment, or related.
Associates or Certificate	
Geological Technician	Associate's degree in related field
GIS Specialist	GIS certificate or BS in a program that emphasizes GIS (geology, geography, etc.)
GIS Technician	Associates degree or coursework in GIS-related software and databases.
Hydrologic Technician	Associates degree or higher
Bachelors	
Cartographer	Bachelor's degree in physical science or geography plus related coursework/experience.
Cartographic Technician	At least year work related education + experience
Consultant (Scientific)	Master's degree in related field commonly required.
Environmental Impact Assessment Specialist	Bachelor's degree in an environmental field. Strong technical skills.
Environmental Geologist	Bachelor's degree in environmental geology or related
Environmental Project Manager	Bachelor's degree in geology, environmental science, engineering, or related field plus substantial experience (~5+ years)
Environmental Scientist	Bachelors degree with up to two years of experience
Environmental Specialist	Bachelors in science-related field plus experience
Geologist	Bachelor's degree in geology or closely related field
GIS Analyst	Bachelors degree in a related field
Grant Writer	Bachelor's degree in science, english, or related field plus excellent writing skills.
Human Resources Generalist (Science)	Bachelor's degree + 2 years human resources training/experience
Hydraulic Modeller	achelor's degree in related field plus specialized technical training/experience.
Hydrologist	Bachelor's degree in geology or related field (graduate degree may be required for upper-level positions)
Oil and Gas Field Specialist	Grade I: Bachelors degree in geological, engineering, geology, petroleum engineering or a closely related field, or substitutions on a year-for-year basis as follows: full-time paid professional employment in oil and gas exploration, extraction and production for the required education.
Park Ranger	Grade I: Bachelor's degree with major study in park management, outdoor recreation or closely related fields, or full-time paid related employment in park management, outdoor recreation or closely related fields for the required education.
Physical Scientist	Bachelor's degree or higher in physical science, math, engineering
Project Coordinator/Manager	Bachelor's degree + administrative experience
Reclamation Specialist	Grade I: Bachelor's degree in required specific science including geology, biology, soils, ecology, hydro geology or closely related field, or substitutions on a year-for-year basis as follows: full-time paid directly related professional employment for the required education.
Scientific Affairs Specialist	Bachelor's degree in a science field plus substantial customer and work experience
Scientist, Senior	Bachelor's degree + 3-8 years experience

Senior Project Scientist	Bachelor's or graduate degree + experience
Study Director	Bachelor's degree preferred. Graduate may be required for some positions.
Supervisor (Science)	Bachelor's degree typically required (supervision in a professional science setting).
Surveyor	Bachelor's degree with emphasis in geomatics or related. Certification is required.
Teacher/Instructor (Secondary Edu.)	Bachelors or masters with teaching certificate (alternative licensure may be possible for sciences, especially math).
Teaching Assistant (University)	Bachelor's degree in a related field.
Technical Sales Representative	Bachelor's in a science or technical field plus sales experience (professional sales, business, communications, marketing, sales, may also good).
Technical Support Scientist	Bachelor's degree plus experience
Technical Writer (Science)	Bachelor's degree in related field plus excellent writing/communication skills. Technical writing experience/degree may be required.
Water Rights Specialist	Grade II: Bachelor's degree in a physical science or related field plus two years of full-time paid related professional employment, one year of which must have been with the Division of Water Rights, or a related field, or substitutions on a year-for-year basis as follows: Graduate study in a related field for the required non-specialized employment, or full-time paid professional related employment for the required education.
Masters	
Adjunct Instructor	Masters or PhD in related field (typical)
Curator/Collections Manager	Masters degree, experience preferred.
Director (Science)	Graduate degree plus experience typically required.
Geophysicist	Masters or PhD in geophysics or related field typically required.
Geotechnical Engineer	Bachelor's in civil engineering or masters in geotechnical engineering.
Librarian/Archivist (science)	MLS degree
Research Scientist	Master's or PhD in a science discipline
Doctorate	
Investigator (Science)	Doctorate in science with related experience
Laywer (Environmental)	JD degree (could do a science bachelors)
Professor	PhD in related discipline.
Professional Degree	
Environmental Lawyer	J.D. plus specialized training in environmental law.

Sources

- Specialty definitions compiled from a variety of public web sources.
- Weber State University Graduate Survey
- What Can I Do With This Degree? Adapted from material prepared by Career Services at the University of Tennessee, Knoxville. (Online; Licensed by WSU)