



What can I do with a major in **GEOLOGY** from Valparaiso University?

Description of major:

Deals with the physical and chemical nature of the Earth, the evolution and impact of life on the planet and the global processes active both now and in the past. An understanding of geology is developed through the scientific study of fossils, sedimentary, igneous and metamorphic rocks, and past and present-day ecosystems, including the oceanic realm. Students interested in the Geology major will also complete coursework at Indiana University Northwest through the Geology Association (VIGGA) major in Geology.

Relevant skills for a GEOLOGY major:

- ◆ Conduct and clearly explain scientific research
- ◆ Make appropriate decisions and solve quantitative problems
- ◆ Understand and use information derived from computers
- ◆ Work with people of varied backgrounds
- ◆ Have acute spatial and form perception
- ◆ Analyze, interpret, & evaluate
- ◆ Have aptitude for accurate details
- ◆ Use the computer
- ◆ Coordinate work with others
- ◆ Think critically
- ◆ Enjoy travel
- ◆ Have foreign language skills
- ◆ Love of the outdoors/ interest in nature
- ◆ Have mapping & surveying abilities
- ◆ Compute numbers
- ◆ Physical fitness for field work
- ◆ Solve problems
- ◆ Read, write, speak, and memorize proficiently
- ◆ Have self-management skills
- ◆ Act as a team player
- ◆ Know geological principles and mathematics thoroughly and others!

Sample work activities for Graduates in GEOLOGY (some may require an advanced degree)

- Aerial Photographer
- Agricultural Engineer
- Architect
- Astronomer
- Biochemist
- Cartographer
- Chemist
- Civil Engineer
- College Professor
- Computer Analyst
- Consultant
- Cooperative Extension Agent
- Crystallographer
- Curator
- Economic Geologist
- Environmental Consultant
- Environmental Geologist
- Environmental Lawyer
- Forest Ranger
- Petroleum/Mining
- Geochemist
- Geodesist
- Geodynamicist
- Geographer
- Geologist
- Geomorphologist
- Geophysicist
- Geo-Technical Engineer
- Glacial Geologist
- Hydrographer
- Hydrologist
- Industrial Hygienist
- Instrumentation Technician
- Laboratory Technician
- Landscape/Nursery Manager
- Marine Advisor
- Materials Analyst
- Mathematician
- Metallurgical Engineer
- Metallurgist
- Meteorologist
- Mineralogist
- Mining Engineer
- National Park Service Professional
- Nuclear Engineer
- Oceanographer
- Paleoceanographer
- Paleoclimatologist
- Paleontologist
- Park Naturalist
- Park Ranger
- Parks and Natural Resource Manager
- Peace Corps Worker
- Petroleum Engineer
- Petroleum Geologist
- Photogrammetist
- Physicist

- Planetary Geologist
- Pollution Control Specialist
- Pollution Remediator
- Project Manager
- Prospector
- Sales Engineer
- Scientific Photographer
- Sedimentologist
- Seismologist
- Soil Scientist
- Soil Scientist, Agriculture
- Stratigrapher
- Structural Geologist
- Surveyor
- Teacher
- Technical Writer/
Communicator
- Urban/Regional Planner
- US Foreign Service Worker
- Volcanologist
- Waste Management Specialist
- Water Quality Control Technician
- Water Remote Sensing Interpreter
- Well Logging Specialist and others!

Potential hiring institutions for GEOLOGY majors:

- ◆ Army Corps of Engineers
- ◆ Bureau of Land Management
- ◆ Bureau of Reclamation
- ◆ Consulting
- ◆ Department of Energy
- ◆ Drilling companies
- ◆ Education
- ◆ Energy companies
- ◆ Engineering
- ◆ Environmental Protection Agency
- ◆ Federal, State & local government
- ◆ Mining companies
- ◆ National Park Service
- ◆ Nuclear Regulatory Agency
- ◆ Petroleum industry
- ◆ Seismic survey organization
- ◆ U.S. Geological Survey and others!

Area of further education for GEOLOGY majors:

- Education
- Energy & Power Engineering
- Environmental Engineering
- Geochemistry
- Geodetic Sciences
- Geological Engineering
- Geology
- Geophysics
- Geosciences
- Geotechnical Engineering
- Hydrology
- Law
- Limnology
- Marine Sciences
- Materials Sciences
- Metallurgical Engineering & Metallurgy
- Mineral/Mining Engineering
- Oceanography
- Organic Chemistry
- Petroleum Engineering
- Physical Chemistry
- Planetary & Space Sciences
- and others!

Sources of additional information for GEOLOGY majors:

- VU Department of Geography and Meteorology: <http://www.valpo.edu/geomet/>
- VU Majors & Areas of Study: <http://www.valpo.edu/academics/majors/geology.html>
- Occupational Outlook Handbook: the US Bureau of Labor Statistics compiles information about various occupations, including the nature of the work, the job outlook, the earnings, and other relevant information. <http://www.bls.gov/oco/oco1002.htm>
- American Association for the Advancement of Science: the world's largest general science organization and publisher of the peer-reviewed journal Science. Serves as an authoritative source for information on the latest developments in science and bridges gaps among scientists, policy-makers and the public to advance science and science education. Site includes a Careers page that includes information on fellowships, internships, career fairs, and job listings. <http://www.aaas.org/>
- American Geological Institute: a nonprofit federation of 37 geoscientific and professional associations that represent more than 100,000 geologists, geophysicists, and other earth scientists. Provides information services to geoscientists, strengthens geoscience education, and promotes the vital role the geosciences play in mankind's use of resources and interaction with the environment. <http://www.agiweb.org>
- American Geophysical Union: provides information for the public on what is known about Earth, its planetary neighbors, and the space around them and how the geophysical sciences are advancing. Includes a membership directory and job listings. <http://www.agu.org/>
- CYBER-SIERRA'S Natural Resources Job Search: articles and job opportunities. <http://www.cyber-sierra.com/nrjobs/index.html>
- Earthworks: Positions listed for various sciences as well as graduate, post-graduate & professional development courses. <http://www.earthworks-jobs.com>

- EcoEmploy.com: Environmental jobs in government, companies, law firms and non-profit in both the USA & Canada. <http://www.ecoemploy.com>
- Environmental Careers Organization: a national, non-profit, educational organization that protects and enhances the environment through the development of diverse leaders, the promotion of careers, and the inspiration of individual action. This is accomplished through internships, career advice, career products, and research and consulting. <http://www.eco.org/>
- Geological Society of America: information and resources for earth scientists. <http://www.geosociety.org>
- GeoWeb: Information and resources about the geosciences. <http://www.geology.com>
- National Science Foundation: an independent U.S. government agency responsible for promoting science and engineering through programs that invest over \$3.3 billion per year in almost 20,000 research and education projects in science and engineering. Site includes a listing of scholarships and fellowships as well as a page for Students under their "Special Programs" and Vacancy announcements under their "Online Documents". <http://www.nsf.gov/>
- ParkNet: The official website for the National Park Service. Includes interesting information about nature and science in the parks as well as an InfoZone with job opportunities. <http://www.nps.gov/>
- Science Magazine's Next Wave: the career development resource for scientists. <http://nextwave.sciencemag.org/>
- Society for Exploration of Geophysicists: promotes the science of geophysics and the education of exploration geophysicists. The Society fosters the expert and ethical practice of geophysics in the exploration and development of natural resources, in characterizing the near-surface, and in mitigating earth hazards. <http://www.seg.org>
- Society for Sedimentary Geology: An international not-for-profit Society based in Tulsa, Oklahoma. Through its network of international members, the Society is dedicated to the dissemination of scientific information on sedimentology, stratigraphy, paleontology, environmental sciences, marine geology, hydrogeology, and many additional related specialties. <http://www.sepm.org>

VU Career Center Resource Library Materials:

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| <ul style="list-style-type: none"> • <i>Book Of U.S. Government Jobs : Where They Are, What's Available, And How To Get One</i> • <i>Career Opportunities In Science</i> • <i>Careers For Geoscientists [Computer File]</i> • <i>Directory Of Independent Consulting Engineering & Land Surveying Firms In Illinois</i> • <i>Federal Personnel Guide 2005</i> • <i>Government Job Finder</i> • <i>Graduate Programs In Physical Sciences</i> • <i>GRE Exam 2005</i> • <i>Guide To America's Federal Jobs : A Complete Directory Of Federal Career Opportunities</i> • <i>Guide To Graduate Environmental Programs</i> • <i>Job Surfing : The Sciences--Research And</i> | <ul style="list-style-type: none"> • <i>Medicine : Using The Internet To Find A Job And Get Hired</i> • <i>Opportunities In Environmental Careers</i> • <i>Opportunities In Federal Government Careers</i> • <i>Opportunities In Forestry Careers</i> • <i>Opportunities In Government Careers</i> • <i>Peterson's Graduate Programs In Engineering & Applied Sciences</i> • <i>Peterson's Graduate Programs In The Physical Sciences, Mathematics, Agricultural Sciences, The Environment & Natural Resources</i> • <i>Resumes For Environmental Careers</i> • <i>Resumes For Scientific And Technical Careers</i> • <i>and others!</i> |
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For more information about majoring in GEOLOGY, contact:

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For more questions about your career decisions, please make an appointment with a VU Career Counselor by calling 464-5005, stopping by the Career Center in Alumni Hall or e-mailing us at Career.Center@valpo.edu