



## What can I do with a major in *Geology*?

### Overview

- Students who enjoy working outdoors, have a strong scientific background and are interested in understanding how the Earth works will find geology a rewarding area of study. The work of geoscientists is diverse and increasingly more complex, commonly involving a combination of field, laboratory and computer work.

- Geology is a field-based science that integrates the principles of chemistry, physics, biology and mathematics in the study of Earth processes and history. Geology emphasizes the central concepts of time, space and scale in the study of planet Earth from the perspective of a unified Earth System (the atmosphere, biosphere, hydrosphere and lithosphere).

### Career Titles

|                                 |   |                                    |
|---------------------------------|---|------------------------------------|
| ▪ Aerial Photographer           | ▪ Geology Teacher                         | ▪ Paleoclimatologist               |
| ▪ Agricultural Engineer         | ▪ Geomorphologist                         | ▪ Paleoecologist                   |
| ▪ Archaeological Geologist      | ▪ Geophysicist                            | ▪ Paleontologist                   |
| ▪ Architect                     | ▪ Geophysics Technician                   | ▪ Park Naturalist                  |
| ▪ Assayer                       | ▪ Geoscientist                            | ▪ Park Ranger                      |
| ▪ Astronomer                    | ▪ Geo-Technical Engineer                  | ▪ Peace Corps Worker               |
| ▪ Atmospheric Scientist         | ▪ Glacial Geologist                       | ▪ Petroleum Geologist              |
| ▪ Biochemist                    | ▪ Groundwater Hydrologist                 | ▪ Petroleum Technologist           |
| ▪ Cartographer                  | ▪ Hazardous Materials Response Specialist | ▪ Petrologist                      |
| ▪ Cartographic Technician       | ▪ Hydrogeologist                          | ▪ Petrophysicist                   |
| ▪ Chemical Oceanographer        | ▪ Hydrologic Technician                   | ▪ Physicist                        |
| ▪ Coastal Oceanographer         | ▪ Hydrologist                             | ▪ Planetary Geologist              |
| ▪ Computer Analyst              | ▪ Industrial Hygienist                    | ▪ Pollution Control Specialist     |
| ▪ Consultant                    | ▪ Instrumentation Technician              | ▪ Pollution Remediator             |
| ▪ Cooperative Extension Agent   | ▪ Intelligence Agent                      | ▪ Professor                        |
| ▪ Data Analyst                  | ▪ Laboratory Technician                   | ▪ Prospector                       |
| ▪ Earth Science Teacher         | ▪ Landscape Architect                     | ▪ Range Conservationist            |
| ▪ Ecologist                     | ▪ Landscape/Nursery Manager               | ▪ Sales Engineer                   |
| ▪ Economic Scientist            | ▪ Location Analyst                        | ▪ Scientific Librarian             |
| ▪ Engineering Geologist         | ▪ Map Analyst                             | ▪ Scientific Photographer          |
| ▪ Environmental Consultant      | ▪ Marine Advisor                          | ▪ Scientific Writer                |
| ▪ Environmental Engineer        | ▪ Marine Geologist                        | ▪ Sedimentologist                  |
| ▪ Environmental Geologist       | ▪ Materials Analyst                       | ▪ Seismologist                     |
| ▪ Environmental Lawyer          | ▪ Mathematician                           | ▪ Soil Conservationist             |
| ▪ Environmental Project Manager | ▪ Metallurgical Engineer                  | ▪ Soil Scientist                   |
| ▪ Environmental Scientist       | ▪ Meteorologist                           | ▪ Stratigrapher                    |
| ▪ Exploration Geologist         | ▪ Military Officer                        | ▪ Structural Geologist             |
| ▪ Farmer                        | ▪ Mineralogist                            | ▪ Surveyor                         |
| ▪ Firefighter                   | ▪ Mining Engineer                         | ▪ Teacher                          |
| ▪ Foreign Service Worker        | ▪ Mining Geologist                        | ▪ Technical Writer                 |
| ▪ Forest Ranger                 | ▪ Museum Technician                       | ▪ Urban/Regional Planner           |
| ▪ Gemologist                    | ▪ National Park Service Staff             | ▪ Volcanologist                    |
| ▪ Geochemist                    | ▪ Natural Resource Manager                | ▪ Waste Management Specialist      |
| ▪ Geochronologist               | ▪ Naturalist                              | ▪ Water Quality Control Technician |
| ▪ Geodesist                     | ▪ Navigator                               | ▪ Water Remote Sensing Interpreter |

# Career Services

Connecting Students and Alumni with the World



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|------------------------------|----------------------|------------------------------------|
| ▪ Geodynamicist              | ▪ Nuclear Engineer   | ▪ Watershed District Administrator |
| ▪ Geographer                 | ▪ Oceanographer      | ▪ Well Driller                     |
| ▪ Geologist                  | ▪ Paleooceanographer | ▪ Well Logging Specialist          |
| ▪ Geology Research Scientist |                      |                                    |

## Employers

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|-----------------------------------|--|--|
| ▪ Bureau of Land Management       | ▪ Land Use Organizations                 | ▪ Private Research Companies           |
| ▪ Bureau of Mines                 | ▪ Libraries                              | ▪ Quarries                             |
| ▪ Bureau of Reclamation           | ▪ Local, State, Federal Government       | ▪ Railroad Companies                   |
| ▪ CIA/FBI                         | ▪ Marketing & Research Firms             | ▪ Research Laboratories                |
| ▪ Colleges/Universities           | ▪ Military                               | ▪ Scientific Journals                  |
| ▪ Conservation Groups             | ▪ Minerals Companies                     | ▪ Seismic Survey Organizations         |
| ▪ Construction Companies          | ▪ Mining Companies                       | ▪ Travel/Tourism Industry              |
| ▪ Consulting Firms                | ▪ Museums                                | ▪ Trucking Companies                   |
| ▪ Department of Defense           | ▪ NASA                                   | ▪ U.S. Department of Energy            |
| ▪ Energy Companies                | ▪ National Laboratories                  | ▪ Waste Management Companies           |
| ▪ Engineering Firms               | ▪ National Parks Service                 | ▪ Water Resources Groups               |
| ▪ Environmental Advocacy Groups   | ▪ Natural Gas Companies                  | ▪ Water Treatment Plants               |
| ▪ Environmental Consulting Firms  | ▪ Nonprofit Groups                       | ▪ Well Services and Drilling Companies |
| ▪ Environmental Protection Agency | ▪ Oceanic and Atmospheric Administration | ▪ Wetlands Management                  |
| ▪ Exploration Companies           | ▪ Oil and Gas Industry                   | ▪ Wildlife Service                     |
| ▪ Forest Service                  | ▪ Petroleum Companies                    |  |

## Skills

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|---|--|--|
| ▪ Aptitude for accuracy and detail                                      | ▪ Enjoy working outdoors and traveling                       | ▪ Physical stamina, good vision and manual dexterity           |
| ▪ Conduct and clearly explain scientific research                       | ▪ Establish hypothesis                                       | ▪ Possesses an aptitude for accurate details                   |
| ▪ Coordinate work with others   | ▪ Evaluate ideas   | ▪ Possesses knowledge of geological principles and mathematics |
| ▪ Critical thinking and problem-solving                                 | ▪ Laboratory and research ability                            | ▪ Review scientific literature                                 |
| ▪ Define research problems  | ▪ Maintain detailed records                                  | ▪ See relationships in factors                                 |
| ▪ Design equipment  | ▪ Make appropriate decisions and solve quantitative problems | ▪ Self-management  |
| ▪ Design simulations  | ▪ Manage and direct projects                                 | ▪ Spatial visualization  |
| ▪ Desire to collaborate with others in an interdisciplinary environment | ▪ Mapping and surveying                                      | ▪ Summarize research   |
| ▪ Develop research models   | ▪ Measure distances  | ▪ Understands and uses information derived from computers      |
| ▪ Develop research proposals  | ▪ Measure relationships                                      | ▪ Use technical instruments                                    |
| ▪ Draw meaningful conclusions   | ▪ Perceives acute spaces and forms                           | ▪ Works with people of varied backgrounds                      |
| ▪ Effective oral and written communication skills                       | ▪ Perform calculations                                       |  |



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## Salary

NACE (National Association of Colleges and Employers) Summer 2010 Salary Survey Average Offers:

- Geological and Related Sciences Bachelor's Degree: \$39,317

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The job titles and employers listed below are a sample of the results from the annual St. Norbert College Career Services graduate follow-up survey for the Classes of 2003-2007.

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## Graduate Information: Job Titles

- No Data Available

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## Graduate Information: Employers

- No Data Available

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## Career Library Resources

- Careers for Nature Lovers and Other Outdoor Types
- Careers for Scientific Types & Others with Inquiring Minds
- Careers in the Environment
- Great Jobs for Geology Majors
- Outdoor Careers-Exploring Occupations in Outdoor Fields
- The Eco Guide to Careers that Make a Difference-Environmental Work for a Sustainable World

For the most current information about Majoring in Geology from Career Services, including links regarding Alumni Profiles, Career Information, Professional Associations, and Jobs and Internships, please visit:

<http://www.snc.edu/career/students/majors/geology.html>