

# MSC (APPLIED ENVIRONMENTAL GEOSCIENCE)

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## Programme Learning Outcomes

Programme Learning Outcomes for MSc in Applied Environmental Geoscience (NFQ Level 9, Major Award)

On successful completion of this programme, students should be able to:

- Use geoinformatics to process Environmental Geoscience data;
- Successfully apply geophysical tools to site investigations;
- Apply the principles of soil and rock mechanics to Environmental Geoscience and engineering scenarios;
- Describe the principles of groundwater flow and discharge;
- Carry out an analysis on the sustainability of groundwater for a given regional aquifer;
- Critique and evaluate the status of environmental and planning law in the context of geoscience;
- Undertake field analysis of soils, sediments and rocks to industry standard;
- Describe the methods used in sampling and mapping the seabed;
- Scope, design and execute an Environmental Geoscience study;
- Present findings from a project based on an industry focused research question in a written report and an oral presentation.