

Tohu Paerunga Pūhanga Mātai Aronuku Postgraduate Engineering Geology



Learn the essential skills to mitigate the impact of natural processes and man-made structures in order to prevent and control hazards.

By focusing on the development of accurate and reliable geological ground models, you will be well equipped to work within New Zealand's complex environment and contribute to the projected construction boom. This interfaculty programme, between the Faculty of Engineering and the Faculty of Science, is for students who want to pursue an industry-relevant programme.

Courses available in this subject include:

- › Advanced Engineering Geology
- › Hydrogeology
- › Engineering Geological Mapping
- › Environmental Management
- › Project Management
- › Faults and Fluids
- › Geohazards
- › Environmental Geochemistry
- › Integrated Sedimentology and Tectonics

Choosing your supervisor

Supervisors can usually only take a small number of students, so make sure you talk to them sooner rather than later.

Choose an area you feel passionate about. Undertaking research involves successes as well as challenges, so choosing a topic you are genuinely interested in will help you overcome challenges and get through the tough times. Ensure you're compatible with your supervisor. Ask questions, seek advice and share your ideas with academic staff to find out their research interests, and whether you would be a good fit with their current projects.

Scholarships

You can apply for a range of scholarships when you apply for postgraduate study in Science.

auckland.ac.nz/science-scholarships

BSc

MEngGeol

PhD



Career opportunities

The long-term outlook for employment as a geologist is excellent, with a large range of career opportunities available.

At present, the engineering geology industry is one of the largest employers of our graduates.

Demand for qualified engineering geologists continues to grow in New Zealand and internationally due to infrastructure growth, management of geohazards, and resource extraction. An Engineering Geologist's primary goal is to protect life and structures from the effects of nature. So it's an interdisciplinary geoscience career, dealing with the effects of soil, rock and groundwater and bridging between geology, engineering and environmental management.

A postgraduate qualification in Engineering Geology is designed to equip you with the necessary knowledge, skills and competencies to enter the applied geosciences industries.

This qualification will set you on the pathway to becoming a Chartered Member of Engineering New Zealand – Professional Engineering Geologist.

Our graduates have been employed in the following jobs:

- › Engineering geologist, Beca
- › Engineering geologist, Golder Associates
- › Geotechnical engineer, USA Federal Highway Administration
- › Senior exploration geologist, Newmont Mining
- › Geohazard analyst, GNS Science
- › Geoscientist, Geoscience Australia

This subject is available in:

- › Master of Engineering Geology

You may also be interested in our programmes in Earth Science, Geology, Geophysics and Environmental Management.



Find out more about how your degree will be structured and what courses you need to take at

auckland.ac.nz/science/pg-eng-geology

Applications close on 8 December.



"My work focuses on identifying where erionite exists in New Zealand. I hope my research will lead to the introduction of regulations surrounding erionite exposure for industries excavating rocks and tunnelling in locations where erionite is or might be found. Working on this project is very rewarding because it feels like I am a part of something much bigger than myself."

Janki Patel
Doctor of Philosophy in Geology.

Kuhua ki tō mātou hāpori, ā, Kimihia tōu Pūtaiao.
Join our community and find your Science.



Disclaimer: The information in this document is a general guide only for students and subject to alteration. All students enrolling at the University of Auckland must consult its official Calendar, to ensure that they are aware of and comply with all regulations, requirements and policies. [2026]

Have any questions?
Contact the Student Hub

auckland.ac.nz/student-hubs