

Professional Master of Engineering Geology (PMEG)

College of Science

Key facts about the programme

- 1 Only programme of its kind in Australasia
- 2 Applies geological sciences to engineering design and construction
- 3 Teaches applied skills with a focus on professional training
- 4 Investigates real-life case studies



What does this programme cover?

Engineering geology is a multidisciplinary area applying geological sciences to engineering projects. Engineering geologists investigate, study and solve engineering and environmental problems arising from the interaction between geology and the activities of humanity, as well as finding measures for the prevention or remediation of geological hazards. The Professional Master of Engineering Geology is strongly applied and concentrates on professional training for future practitioners.

The programme consists of eight compulsory courses taken over two semesters, plus a four-month dissertation including either an individual investigation or research project with an industry partner.

Compulsory courses:

- Engineering geology field methods
- Construction practice
- Soil mechanics and soil engineering
- Rock mechanics and rock engineering
- Hydrogeology
- Engineering geomorphology

- Natural hazard risk assessment
- Engineering geology synthesis and project preparation
- Engineering geology project portfolio (dissertation)

Students who have completed the programme may apply to enrol in a Master of Science (MSc) degree (12-month thesis) in engineering geology.

What are the entry requirements?

- A relevant bachelor's degree with a UC equivalent B+ average
- Dean of Science approval
- MATH and STAT 100-level courses (15 points each)
- A relevant tertiary qualification plus relevant work experience.

Special entry conditions

Undergraduate field courses normally required.

AT A GLANCE

Start Dates

February and July

Months to Complete

12 months full-time
Up to two years part-time

Features

Industry-based research project ..Yes
Field workYes
Class sizeLimited to 30

Price for 2020*

PMEG..... \$12,401

Scholarship

Scholarships are available for postgraduate students.

For more information on scholarships go to www.canterbury.ac.nz/get-started/scholarships/

*The price (tuition fee) is indicative for 2020.



‘My role involves taking a holistic view of a site and understanding how the ground was formed. I really enjoy working at different sites throughout the country. No two sites are the same. The work is challenging, fun and variable, which keeps you thinking on your feet.’

Graduate Profile

Stefan Cook

BSc in Geology

Professional Masters of Engineering Geology

Engineering Geologist at Tonkin + Taylor

What careers can this lead to?

There are many and varied employment opportunities for engineering geologists, including large construction projects, land subdivision, corridor projects, mining geotechnics, environmental management and aspects of hydrogeology.

Graduates of this programme go on to work in:

- Geotechnical consultancies
- Mining companies and specific operations
- Hydrogeology
- Government agencies and local authorities
- Research institutions

Average starting salary

\$45,000 – \$65,000

Average salary by year 3

\$65,000 – \$85,000

Enrolment information

How to apply

Apply online through myUC:
<https://myuc.canterbury.ac.nz>

When to enrol

Applications need to be in five weeks before the programme starts.

Who to contact

Department of Geological Sciences
T: +64 3 369 4384
geology@canterbury.ac.nz
www.geol.canterbury.ac.nz

Why UC?

- QS ranked 227th
- QS Top 200 in Earth and Marine Sciences
- Network of field and research stations
- Ernest Rutherford Centre
- Industry partnerships
- Dedicated career support unit



Purpose-built innovation

The brand new Ernest Rutherford building positions UC students and staff at the forefront of contemporary science.

With the most modern university science and research facilities in the southern hemisphere, postgraduates will have access to:

- State-of-the-art labs
- Built-in technologies
- A postgraduate study suite
- Informal social spaces
- Community/industry events

This information was correct at time of printing: July 2019.