

Professional Master in Geospatial Science and Technology (PMGST)

College of Science

Key facts about the programme

- 1 Degree offered since 2018
- 2 Study at a university ranked in the world top 150 by subject for Geography
- 3 Designed to meet the high global demand for geospatial specialists
- 4 Uses disruptive technology to create real-world solutions



What does the programme cover?

Geospatial science uses Geographic Information Systems (GIS) technologies to gain location-based insights into people's behaviour, decision-making and actions. This degree has been created in response to the New Zealand* and worldwide shortage of geospatial specialists and can be taken alongside an existing professional career in order to "upskill" in this area.

The programme links relevant disciplines such as data science, computer science, and environmental science with spatial analysis. As a Student, you will gain skills in programming, research analysis, database management and using and applying geospatial technology and communication.

You'll get the chance to use disruptive technologies to create real-world solutions for health, remote workforces, urban planning and earthquake recovery. This master's degree consists of two compulsory courses and at least two optional courses, plus an applied GIS project normally taken in conjunction with an organisation in the GIS industry.

Compulsory courses:

- spatial analysis
- spatial algorithms and programming

Optional courses:

- data science
- statistics
- computer programming
- digital business and technology

*www.skillshortages.immigration.govt.nz/other-spatial-scientist

What are the entry requirements?

- A bachelor's degree with a UC equivalent B average
- Some basic prior experience in statistics, programming or GIS
- Dean of Science approval
- Meet UC's English-language requirements

AT A GLANCE

Start Dates

February
July

Months to Complete

Full-time12 months
Part-time48 months

Features

Applied GIS project

Prices for 2020*

Professional Master in Geospatial Science and Technology \$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.



Student Profile

“GIS can be applied to a wide range of disciplines and topics, from health to geology to social sciences and more. No job is the same and each new job brings in a new challenge.”

Hamish Kingsbury

Consultant at Interpret Geospatial Solutions
Bachelor of Science in Geography
Postgraduate Diploma in Geographic Information Science



Employer Profile

“By taking large volumes of complex information and displaying the patterns contained within that information in a manner that is memorable and easy to understand, we enable our clients to put the data they've collected to practical use.”

Kurt Janssen

CEO & Founder, Orbica Ltd

What careers can this lead to?

This qualification is designed to equip current and future geospatial professionals with the advanced skills required for geospatial leadership roles in government, industry and research.

Graduates can go on to work as:

- GIS analysts
- GIS planners
- Local government analysts
- Geospatial technology developers

Average starting salary

\$60,000 – \$70,000

Average salary by year 5

\$70,000 – \$90,000

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

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

Geography Department
+64 3 369 4087
geog@canterbury.ac.nz
www.geog.canterbury.ac.nz

Why UC?

- QS ranked 227th
- QS Top 100 in Geography, Top 200 in Earth and Marine Sciences and Environmental Sciences
- Network of field and research stations
- Ernest Rutherford Centre
- Geospatial Research Institute Toi Hangarau and GeoHealth Laboratory
- 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