

Professional Master in Geospatial Science and Technology (PMGST)

College of Science



**THE
WORLD'S
BEST
CHOICE**

Key facts about the programme

- 1 Brand new degree first offered in 2019
- 2 Based at UC's Geospatial Research Institute Toi Hangarau
- 3 Designed to meet the high global demand for geospatial specialists
- 4 Use disruptive technology to create real-world solutions



What does the programmes 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

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

English	Overall	Lowest Band
IELTS	6.5	6.0
TOEFL	90	19 writing
Pearson	58	50 communicative skills

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

AT A GLANCE

Start Dates

February
July

Please note: Semester Two starts are subject to availability of courses.

Months to Complete

Full-time.....12 months

Features

Applied GIS project

Tuition fees*

PMGST..... NZ\$54,900

Scholarship

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

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



Graduate 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

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



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

Enrolment information

How to apply

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

When to enrol

Applications need to be submitted at least 6 weeks before the programme starts

Who to contact

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www.canterbury.ac.nz/science/schools-and-departments/earth-and-environment

Important information

Refer to our website for more information on:

- University of Canterbury
 - Christchurch as a study destination
 - Student visa and insurance
- www.canterbury.ac.nz/international/

This information was correct at May 2020.

AT A GLANCE

Why New Zealand?

- Within Top 7 in the world for Overall Prosperity, Natural Environment, and Social Capital
- Within Top 13 in the world for Education, Personal Freedom, and Safety & Security

Why Christchurch?

- Largest city in the South Island
- Lowest unemployment rate in Australasia
- Strong economy
- An outdoor recreation paradise

Why the University of Canterbury?

- QS Ranked 227
- 34 subjects ranked in the top 250
- Geography Top 150
- Environmental Sciences Top 200
- Residential campus
- 3000+ Employer connections
- 35 Research Centres