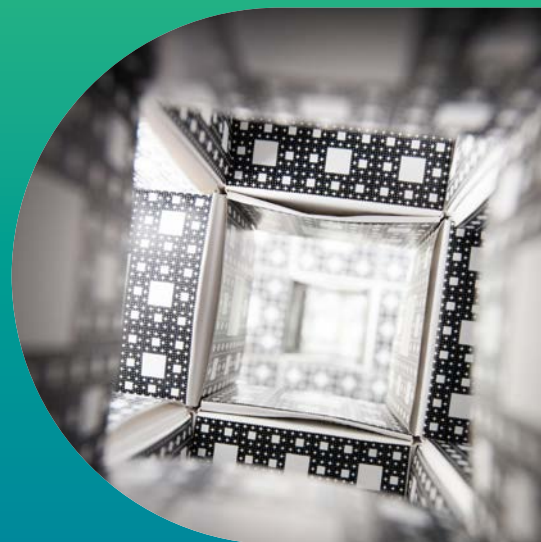


# Tohu Paerunga Wheako Pāngarau Postgraduate Applied Mathematics



Wherever problems need to be solved, mathematics has a role to play. Applied Mathematics makes essential contributions to the biological, information and physical sciences, economics, engineering and finance, but can also be applied to communications, linguistics and genetics.

From studying climate change, preventing structural damage due to earthquakes, to analysing neuronal dynamics in the brain – Applied Mathematics has a role to play. You will gain valuable skills that bring you to the frontiers of knowledge and the thrill of discovery that will provide you with the satisfaction of seeing mathematics at work.

Courses available in this subject include:

- › Advanced Numerical Analysis
- › Dynamical Systems
- › Advanced Partial Differential Equations
- › Mathematical Modelling
- › Inverse Problems
- › Inverse Problems and Stochastic Differential Equations

## Choosing your supervisor

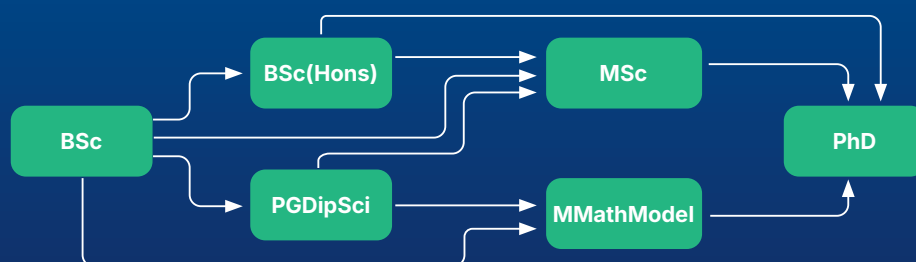
Supervisors can usually only take a small number of students, so make sure you talk to them sooner rather than later.

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](http://auckland.ac.nz/science-scholarships)



# Career opportunities

**Applied Mathematics plays a fundamental role in providing the skills and framework needed to tackle many challenges.**

Graduate study in mathematics can provide you with advanced knowledge and problem-solving skills applicable in any number of fields.

A good mathematical background enhances and develops your problem-solving skills, comprehension of abstract concepts and analytical and creative thinking. These are valued qualities in technical roles and in positions of leadership and management.

Our graduates take up positions in business, government, industry, research, planning, and environmental organisations.

Our Statistics graduates have been employed in the following jobs:

- › Manager of device development, Alta Devices
- › Analyst, Dimensional Fund Advisors
- › Senior client representative, IBM
- › Consultant, Gentrack Ltd
- › Director of product and infrastructure, Zeald
- › Actuary, PricewaterhouseCoopers
- › Traffic engineer, Traffic Engineering Solutions

**This subject is available in:**

- › Bachelor of Science (Honours)
- › Postgraduate Diploma in Science
- › Master of Science
- › Master of Mathematical Modelling
- › Doctor of Philosophy



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

[auckland.ac.nz/science/pg-applied-maths](https://auckland.ac.nz/science/pg-applied-maths)

Applications close on 8 December.



**"I feel ecstatic and honoured to have my research recognised on the world stage."**

**Henry Chen**  
First Class Honours in Applied Mathematics.

**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](https://auckland.ac.nz/student-hubs)