

Tohu Paerunga Pūtaiao Hangarau Postgraduate Computer Science



Whether you are interested in software engineering, systems development and evaluation, cyber security, intelligent systems, algorithms, or the theory of computing – we are living in an information age and have become dependent on information technology and the complex way that information is stored, transmitted and processed.

Postgraduate study in Computer Science is divided into two general areas: software systems and the theory of computing. Areas of research interests open to exploration include artificial intelligence, computer vision, cyber security, human-computer interaction, and quantum information science.

Courses available in this subject include:

- › Computing Education
- › Human-computer Interaction
- › Network Defence and Countermeasures
- › Parallel and Distributed Computing
- › Security for Smart Devices
- › Advanced Computer Graphics
- › Software Tools and Techniques
- › Big Data Management
- › Modelling Minds
- › Creating Maintainable Software

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



Career opportunities

Computer Science graduates can find careers in an ever-widening variety of industries and roles.

The heavy reliance on networks and the explosive growth of the internet have created a particular demand for people with skills in data communications, network design, cyber security, web development, and object-oriented programming.

Software design and development, data analysis, and user experience (UX) research and design are also in high demand as the need for companies to hire professional staff with computer expertise grows.

Our graduates have been employed in the following jobs:

- › Software engineer, Google
- › Chief technology officer, Roofstock
- › Security product lead, Instart Logic
- › Senior engineering manager, Castlight Health
- › Architecture manager, Nvidia
- › Network specialist, Optus
- › Systems analyst, Australian Crime Commission
- › Senior developer, Westpac
- › Systems administrator, Sears Canada Inc

This subject is available in:

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

You may also be interested in our programmes in Data Science, Digital Security, Information Technology, Logic and Computation, and Mathematics.



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

auckland.ac.nz/science/pg-comp-sci

Applications close on 8 December.



"I am focusing on the problem of detecting harmful algal blooms in NZ lakes using satellite data, by applying machine learning techniques."

Olivier Graffeuille
Doctor of Philosophy in Computer Science.

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