Welcome from the Dean of Science

Going to the next level

Moving from undergraduate study to postgraduate study is a significant step. It affords an opportunity to challenge your mind and extend your scientific learning to the boundaries of human knowledge.

Postgraduate study develops important skills such as leadership and critical thinking, as well as an understanding of research and its impact. It sets you up for more interesting and challenging careers.

As a postgraduate student in the Faculty of Science, you will experience the opportunities that a world-class university can offer:

- Work with researchers in the nation’s leading and largest science faculty.*
- Study with close to 2000 New Zealand and international postgraduate science students.
- Access high-quality laboratory and field-research facilities, including our recently developed $200 million Science Centre building.
- Connect to the University’s unsurpassed networks with premier international universities and organisations.
- Apply for the University’s scholarship funding (each year we offer scholarships, awards and prizes to a total value of around $51 million).
- Take advantage of the vast employment and industry collaboration prospects offered by living and studying in Auckland, New Zealand’s commercial capital.
- Complement your research training with a range of innovation and entrepreneurship career development programmes.

For the latest information about the many outstanding research-based and tuition-based postgraduate qualifications offered by the faculty, I invite you to explore this prospectus and the web pages of our departments and research groups.

I look forward to welcoming you to New Zealand’s foremost Faculty of Science.

PROFESSOR JOHN HOSKING
Dean, Faculty of Science
University of Auckland

*www.science.auckland.ac.nz/excellence.
“The advanced technology of food science produces more diversified products and makes our lives easier and healthier.”

“I love science, but in my opinion food science is unique because it gives us a better understanding of food functionality in our lives. People sometimes cannot link food to science, simply because food is just too common in our life.

“It is indeed interesting and amazing when you realise how science can make a difference to our food and, more importantly, how it can change our lives. Food is no longer only for keeping us alive, but making our lives more nutritious and joyful.

“The advanced technology of food science produces more diversified products and makes our lives easier and healthier.

“My interest in this field has led me into doctoral study researching the compositional characterisation and potential health benefits of New Zealand grown feijoas.

“I’m enjoying my PhD project. I plan my research, work on the tasks, deal with any difficulties by solving the problems that come up, achieve goals and develop my proficiency in particular areas. The whole experience is teaching me to be innovative and creative.”

Yaoyao chose the University of Auckland for her PhD because “as we all know, it is an internationally recognised, highly ranked university, in this beautiful country.”

After completing her studies Yaoyao hopes to pursue a professional career in food science.

Yaoyao Peng Doctor of Philosophy in Food Science.
Our postgraduate programmes

Postgraduate pathways

Advanced taught programmes

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Research programmes

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*Interfaculty programmes.
The image contains handwritten mathematical equations on a whiteboard. The equations include:

\[ \frac{1}{(x^2 + 1) - (x^2)} \]

The person in the image is holding a marker and appears to be in the middle of writing or explaining something related to the equations.
Research in the faculty

As New Zealand’s leading science faculty*, we are committed to building on our high international standing in research. Whether you’re considering honours or masters or you’re ready for a PhD, we look forward to supporting you in your studies.

Research funding

Science plays a vital role in addressing the key issues that confront us and future generations. For this reason, research in the faculty is regularly successful in funding rounds for a broad range of projects, from the timing of volcanic eruptions to computer software protection.

Each year, the Faculty of Science receives research grants of approximately $50 million from government and non-government institutions.

Research projects

As a postgraduate student in the Faculty of Science, you have the opportunity to collaborate with passionate academic staff who are working at the cutting-edge of international research.

Our faculty benefits from strong collaborations within the academic community worldwide. Our relationship with commercial industry is an important aspect of scientific research and innovation, and we are proud of our significant links to the Crown Research Institutes of New Zealand.

The breadth of scientific research is diverse and a variety of high-quality postgraduate research options are available.

www.science.auckland.ac.nz/pg-research

Research vision

Our research themes focus our thinking on how we can best advance knowledge to serve local, regional and global society. Our research-intensive environment nurtures graduates who are able to articulate and to challenge established knowledge, and who are equipped with the skills to reshape our world. The Faculty of Science has embraced the University of Auckland’s five Global and Local Challenges, by developing eight research themes.

- **Knowledge Sciences:** Focuses on the representation, modelling, communication and processing of ideas and information, ranging from abstract foundations to concrete designs and representations in computers and in the human mind.
- **Our World and Universe:** Seeks to advance our understanding of our planet and universe, utilising the nation’s access to space and related resources to further fundamental and applied science.
- **Aroha atu, aroha mai – Science in Society:** Focuses on connecting our science to Aotearoa and the world.
- **Healthy People, Healthy Communities:** Focuses on understanding human diseases, human disorders and their causes and treatments.
- **Food, Food Production and Nutrition:** Focuses on food, from farm to plate.
- **A Sustainable Future:** Focuses on the sustainability of our terrestrial, marine and freshwater environments, our climate, and human resilience.
- **Future Materials and Technologies:** Focuses on advanced materials and processes to create a better future.
- **Computational Biology:** Focuses on molecular and computational analysis and understanding of biological systems, spanning the sub-cellular through to population level dynamics.

Centres of Research Excellence

The Faculty of Science is host to two of the ten national Centres of Research Excellence (CoREs).

**Maurice Wilkins Centre**

The Maurice Wilkins Centre for Molecular Biodiscovery is a multidisciplinary network that brings together leading biologists, chemists and computer scientists from around the country to target major human diseases such as cancer, diabetes and infectious disease. The Centre aims to harness outstanding local expertise to develop cutting-edge drugs and vaccines, tools for early diagnosis and prevention, and new models of disease.

The centre is led by ten of the country’s most celebrated scientists and brings together more than 200 investigators from six universities throughout the country. Early career researchers, including postgraduate students, are supported by a network of 260 affiliate investigators.

www.mauricewilkinscentre.org

**Te Pūnaha Matatini**

Te Pūnaha Matatini – ‘the meeting place of many faces’ – brings together experts from across New Zealand to develop methods and tools for transforming complex data about the environment, economy, and society into knowledge, tools and insight for better decision making.

The centre consists of nearly 75 investigators from around the country. An additional network of early career researchers (Te Pūnaha Matatini Whānau) provides events and activities for postgraduate students interested in complex systems and networks.

www.tepunahamatatini.ac.nz

*www.science.auckland.ac.nz/excellence.
### Areas of study

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<td><a href="http://www.science.auckland.ac.nz/pgdip-or">www.science.auckland.ac.nz/pgdip-or</a></td>
<td><a href="mailto:pgscience@auckland.ac.nz">pgscience@auckland.ac.nz</a></td>
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<td><a href="mailto:gradofficer@stat.auckland.ac.nz">gradofficer@stat.auckland.ac.nz</a></td>
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**Physical and Chemical Sciences**

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<tr>
<th>Subject</th>
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<th>Masters</th>
<th>PhD</th>
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</tr>
</tbody>
</table>

*These subjects are available as areas of PhD study within other subjects in the Faculty of Science or within other faculties at the University. Please consult a postgraduate adviser about availability.

**The Honours, Postgraduate Diploma and Masters options for Biomedical Science are offered by the Faculty of Medical and Health Sciences.**
“Most engineering consultancies who employ graduates are looking for at least one year of postgraduate study because the skills we learn are more applicable, meaning we require less training to get up to speed.”

“I chose honours in Earth Sciences because it provided me with a good spread of courses to enhance my skill set.

“I was lucky enough to land a summer internship with my current employer Beca Group Limited. I work in their Geotechnical Engineering section as an Engineering Geologist.

“In this role, much of my time is spent in the field undertaking site investigations. This involves logging and testing of soil and rock, and mapping geological features and hazards such as landslides.

“The remainder of my time is spent in the office preparing, analysing and communicating my findings to engineers, informing their designs for bridges to airport runways. Recently, I have also been designing smaller structures such as retaining walls and sea walls.

“Most engineering consultancies who employ graduates are looking for at least one year of postgraduate study because the skills we learn are more applicable, meaning we require less training to get up to speed.”

“One of the best parts about the programme was the variation of courses on offer and the differing topics they covered. I also really enjoyed the practical aspects of the programme, especially the field trips.

“I use many of the skills gained from my qualification on a regular basis. Some of these include soil and rock logging, geological and geomorphological mapping, photo interpretation, map making, modelling, and report writing.”

Berrick Fitzsimons Bachelor of Science (Honours) in Earth Sciences.
Fees and money matters

Postgraduate scholarships
Guaranteed postgraduate scholarships
The University offers guaranteed scholarships to domestic research students who meet grade point average (GPA) thresholds from their qualifying programme. As a high-achieving postgraduate research student, you could be eligible for:

- University of Auckland Postgraduate Honours/PGDip Scholarships
- University of Auckland Research Masters Scholarships
- University of Auckland Doctoral Scholarships

Applicants for the Māori and Pacific scholarships can be studying toward either a taught or research programme:

- University of Auckland Māori Postgraduate Scholarships
- University of Auckland Pacific Postgraduate Scholarships
- University of Auckland Doctoral Scholarships

www.auckland.ac.nz/makethegrade

Summer Research Scholarships
Develop a taste for postgraduate research with a Summer Research Scholarship. The Summer Research Scholarships are a great way to get some research experience over the summer months, boost your CV and prepare you for postgraduate study.

www.summer.ac.nz

Other postgraduate scholarships
In addition to guaranteed scholarships, the University offers a range of other postgraduate scholarships, awards and bursaries including:

- Universitas 21 Doctoral Mobility Scholarships
- Health Research Doctoral Scholarships
- Senior Health Research Scholarships
- Various subject-specific scholarships

Our Scholarships Office also provides access to a comprehensive database of external scholarships to give you information about the widest range of funding providers.

www.auckland.ac.nz/scholarships

Doctoral Funding
PReSS accounts
If you are a doctoral student undertaking supervised research, you’re automatically entitled to research support funding through a University PReSS account for up to four years. You can use the money for costs such as attending conferences, research-related travel, accommodation and research consumables.

www.auckland.ac.nz/press-accounts

Student loans and allowances
Student loans and allowances are administered by StudyLink, a service of the Ministry of Social Development. For more information and publications, or to apply for a student loan or student allowance, call Studylink on 0800 88 99 00 or apply online at

www.studylink.govt.nz

Employment during study
Advanced postgraduate students are often employed as tutors, laboratory demonstrators or teaching assistants for undergraduate courses. Tutoring is a great way to gain valuable professional and teaching experience during your masters or PhD study. Other opportunities include part-time research assisting, administrative duties or library work. There may be limits on allowable work hours (particularly for scholarship or international students), so you need to check any conditions that may apply. If you are working outside of the University to finance your study, it’s important that you discuss your work commitments with your department’s postgraduate adviser or your supervisor to ensure you can balance your workload realistically.

Fees
Postgraduate programmes

<table>
<thead>
<tr>
<th>Programme</th>
<th>Estimated annual tuition fees*</th>
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<td>Bachelor of Science (Honours)</td>
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<td>Postgraduate diploma</td>
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<tr>
<td>Interfaculty programmes **</td>
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*Based on annual tuition fees for full-time study of 120 points. Tuition fees are indicative only and the fees for 2020 will be set at the end of 2019. All students will also pay a student services fee. As an indication, this fee is $847.20 for students undertaking a full-time load of 120 points in 2019. Students taking fewer than 120 points pay proportionately lower fees.

**Tuition fees will be charged at the respective rate for the subject.

International students
New international PhD students will usually be accorded domestic status for the purposes of tuition fees.* University of Auckland Doctoral Scholarships are awarded to high-achieving international PhD applicants, and are guaranteed for those who meet GPA thresholds in their qualifying programme from a New Zealand university.

www.auckland.ac.nz/makethegrade
www.auckland.ac.nz/pg-international-tuition-fees

*Subject to supervisory and residency requirements.
Admission to postgraduate programmes

Calculating your GPA/GPE
Grades or marks achieved at the University of Auckland are given a grade point average (GPA).
Grades or marks achieved at other institutions are given a grade point equivalent (GPE). Use our GPE Calculator for an indication of your GPE:
gpecalculator.auckland.ac.nz

English Language Requirements
The minimum requirement is an overall IELTS academic score of 6.5 with no band less than 6.0, or an approved equivalent. Some programmes require higher levels of English proficiency.
www.auckland.ac.nz/pg-english-reqs

Bridging programmes
Students who have completed a bachelors degree but do not meet the requirements for entry into PGDipSci, or who wish to gain additional background in a different subject area from their qualifying degree, may apply to take a Graduate Diploma in Science, a Transitional Certificate or one or more courses under a Certificate of Proficiency:
www.science.auckland.ac.nz/graddipsci
www.science.auckland.ac.nz/certificate-of-proficiency
Admission requirements
The Faculty of Science offers a wealth of postgraduate programmes suitable for students from various levels and academic backgrounds.

Entry into a bachelors (honours) degree
Extend the knowledge you gained in your undergraduate degree with a bachelors (honours) degree. Explore the area of interest from your undergraduate study in greater depth, develop research skills and give yourself the edge in the job market.

You must have completed an undergraduate degree at a recognised university (or similar) in a field relevant to your specialisation, typically with a GPA or GPE of 5.0. Some programmes may require higher scores.

Entry into a masters degree
We offer an extensive range of masters degrees to allow you to increase your knowledge in your subject, follow your passion for research or change career whilst gaining an advanced qualification.

While a taught masters will provide you with specialist training in your chosen field, a research masters will develop advanced research skills, working alongside Faculty of Science researchers – many of whom are major contributors in their field.

Some of our masters are available as 120-point (one year full-time), 180-point (18 months full-time) or 240-point (two years full-time) programmes, offering options for direct entry with a bachelors degree (to 180 and 240-point programmes) or a bachelors (honours) or postgraduate diploma (to 120-point programmes).

Entry into a doctoral programme
A doctoral degree gives you the freedom to follow your passion and undertake advanced research in your area of interest.

Acceptance to our doctoral programmes is based on academic merit. You must be able to demonstrate an ability to carry out independent research and have already completed a significant research project, dissertation or thesis, at university. If you have New Zealand postgraduate qualifications, you need to have completed a postgraduate bachelors (honours) degree with first class or second class (division 1) honours, or a masters degree with first class or second class (division 1) honours, in a field related to your doctoral studies.

If you have overseas qualifications, you will need to have completed a masters-level qualification in a field related to your doctoral studies. You must have a GPE of at least 5.5.

Additional information
- Check the University of Auckland Calendar for specific information about the regulations relating to the programme you're interested in: www.calendar.auckland.ac.nz
- Talk to a postgraduate adviser for specific information about what is required: www.auckland.ac.nz/pgadviser
- Minimum requirements listed here are the likely grades required and do not guarantee entry. We assess each application individually and applicants may require a higher grade to be offered a place. Some specialisations require higher grades: www.auckland.ac.nz/entry-requirements
How to apply

We welcome applications from all students, including international students (those who are not citizens/permanent residents of New Zealand or citizens of Australia).

Before you apply

Postgraduate programmes
• Check the entry and English-language requirements:
  - www.auckland.ac.nz/pg-entry-requirements
  - www.auckland.ac.nz/pg-english-reqs
• Check the application closing dates:
  www.auckland.ac.nz/pg-application-closing-dates

If you are applying for a 1-year masters with a research project, you will need to provide evidence that a member of academic staff has agreed to supervise you. See FindaThesis (www.findathesis.auckland.ac.nz), the research webpages for your area of interest or contact the postgraduate adviser for your programme/faculty for potential supervisor details.

www.auckland.ac.nz/pgadviser

PhD or named doctorate
• Check the entry and English-language requirements:
  - www.auckland.ac.nz/doctoral-entry-requirements
  - www.auckland.ac.nz/pg-english-reqs
• Arrange for two referees to support your doctoral application. Doctoral referee reports must be submitted directly from your referees.
• For Statement of Research Intent and Doctoral Referee Reports forms see: www.auckland.ac.nz/applydoctorate

Ready to apply?

New to the University of Auckland or a former student?
1. Apply for admission online:
   www.apply.auckland.ac.nz

2. You will receive an acknowledgement email listing the supporting documents we require, and a Student ID number for logging on to your Application for Admission. You can check your application status online and see what supporting documents you will need to provide. Your application will be assessed once we receive sufficient information (such as uploaded transcripts, other academic results, references or a portfolio) or you have attended an interview.

3. We will assess your application and inform you of the outcome via email. The status will show on the ‘Your applications’ section of the Application for Admission.

4. Accept (or decline) your offer online. If you have a conditional offer,* you should accept your offer straight away. There is no need to wait to meet the conditions before accepting your offer. We encourage you to submit the required information to meet the conditions as soon as you are able: www.apply.auckland.ac.nz.

5. Enrol in your courses, the postgraduate enrolment process is faculty-specific: www.auckland.ac.nz/pgenrolment

Current student?
1. Make an Add/Change programme request online:
   www.apply.auckland.ac.nz

Need help applying?
www.askauckland.ac.nz
Email: postgradinfo@auckland.ac.nz
Phone: 0800 61 62 65
Find a postgraduate adviser:
www.auckland.ac.nz/pgadviser

*Conditional offers
Conditional offers are made when your place in a programme is subject to one or more conditions. For example, you may need to supply final results or complete a prerequisite course.

When you receive a conditional offer:
1. Accept (or decline) the offer.
2. Meet the conditions.
3. Submit evidence that you have met the conditions.

International applicants
Read the entry requirements for non-doctoral programmes for international applications:
www.auckland.ac.nz/is-pg-entry-requirements

We recommend you apply as early as possible to allow sufficient time to apply for visas.

We have a number of official agents and overseas representatives who can help you with the application process in person:
www.auckland.ac.nz/overseasrep
Student life

Postgraduate Students’ Association
We run social and academic events such as the postgraduate orientation, writing retreats, faculty events, outdoor adventures and trips, and end-of-semester parties.
www.pgsa.org.nz

The Science Students’ Association
We want our science students to feel fully supported and strive to achieve their potential during their time at the University, and beyond. To do this, we run a range of social and academic events to engage both our undergraduate and postgraduate students and staff from the Faculty of Science.
facebook.com/ScienceStudentsAssociation

Postgraduate newsletter
The postgraduate newsletter will keep you informed about current news, events and information.
www.auckland.ac.nz/pg-newsletter

Information for international students

The Education (Pastoral Care of International Students) Code of Practice
The University of Auckland has agreed to observe and be bound by the Education (Pastoral Care of International Students) Code of Practice.
www.nzqa.govt.nz/the-code

Student visas
You must apply for a student visa to cover the period you intend to study in New Zealand. You will be required to show evidence you have been accepted into a programme, have paid your tuition fees and have sufficient funds to cover your costs while in New Zealand. Full details, including eligibility for work rights, are available through Immigration New Zealand at
www.immigration.govt.nz

Medical and travel insurance
All international students are required to have appropriate medical and travel insurance. The University of Auckland offers a scheme that meets these requirements. You will receive details of the scheme with your Offer of Admission from the University.
www.auckland.ac.nz/is-insurance

Useful web addresses

Faculty of Science
www.science.auckland.ac.nz

Faculty of Science Student Centre
www.science.auckland.ac.nz/student-centre

University of Auckland
www.auckland.ac.nz

University of Auckland Calendar
www.auckland.ac.nz/calendar

Information for postgraduate students
www.postgraduate.ac.nz

Academic dates
www.auckland.ac.nz/dates

Apply for postgraduate study
www.auckland.ac.nz/applynow

AskAuckland
www.askauckland.ac.nz

Career Development and Employability Services
www.cdes.auckland.ac.nz

Centre for Learning and Research in Higher Education
www.clear.auckland.ac.nz

Childcare
www.auckland.ac.nz/childcare

Current postgraduate students
www.postgrad.auckland.ac.nz

Disability Services
www.disability.auckland.ac.nz

Doctoral Skills Programme
www.auckland.ac.nz/doctoralskills

Health Services
www.auckland.ac.nz/healthservices

International students
www.international.auckland.ac.nz

Libraries and Learning Services
www.library.auckland.ac.nz

Māori student support
www.auckland.ac.nz/maoristudents

Pacific student support
www.auckland.ac.nz/pacificstudents

School of Graduate Studies
www.auckland.ac.nz/school-of-graduate-studies

Disclaimer
Although every reasonable effort is made to ensure accuracy, the information in this document is provided as a general guide for students and is subject to alteration. All students enrolling at the University of Auckland must consult its official document, the current Calendar of the University of Auckland, to ensure that they are aware of and comply with all regulations, requirements and policies.
Student Information Centre
Level G, Room G 20
(beside the entrance to the Large Chem Lecture Theatre)
Building 301, 23 Symonds Street
Auckland 1010
Phone: 0800 61 62 65
Open: Monday to Friday 9am–4.30pm
Email: pgscience@auckland.ac.nz
Web: www.science.auckland.ac.nz
Questions: www.askauckland.ac.nz

International Office
The University of Auckland
Private Bag 92019
Alfred Nathan House
24 Princes Street
Auckland 1142
New Zealand
Email: int-questions@auckland.ac.nz
Web: www.international.auckland.ac.nz

science.auckland.ac.nz