Science
Postgraduate Prospectus 2019
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.
“I wanted to deepen my knowledge of organic synthesis in an applicable area, such as medicinal chemistry.”

“I am currently working towards the total synthesis of a naturally occurring compound (lycopodium alkaloids, the annotinolides). Completing this synthesis will create opportunities for novel chemistry to be developed. Analogues and fragments of annotinolide C will allow for medicinal investigations towards Alzheimer’s disease, having already shown activity in assays when it was isolated. The outcome of the research will be the total synthesis of annotinolide C, which may provide some initial testing towards Alzheimer’s disease.

“A normal day for me starts with catching up on the latest literature and analysing the previous night’s NMR data. The majority of the day is spent in the lab trialling new reactions and purifying compounds furthering my knowledge within my field while having creative freedom to explore new chemistry.

“I hope to pursue a career within the production of hair/skin beauty products. A wide range of chemistry techniques are required, such as analysis and synthesis of active ingredients. I find it fascinating that various substances can alter the appearance or accentuate features of the human skin and there is always a drive within the industry to produce more effective and safe products.”

Nicola Brant is studying toward a Doctor of Philosophy in Chemistry.
Our postgraduate programmes

Postgraduate pathways

**Advanced taught programmes**
- Bachelor of Science (Honours) (BSc(Hons))
- Postgraduate Certificate in Information Technology (PGCertInfoTech)
- Postgraduate Diploma in Applied Psychology (PGDipAppPsych)
- Postgraduate Diploma in Bioscience Enterprise (PGDipBioEnt)*
- Postgraduate Diploma in Forensic Science (PGDipForensic)
- Postgraduate Diploma in Operations Research (PGDipOR)*
- Postgraduate Diploma in Science (PGDipSci)
- Master of Data Science (MDataSci)**
- Master of Disaster Management (MDisMgt)*
- Master of Information Technology (MinfoTech)
- Master of Professional Studies in Data Science (MProfStuds in Data Science)
- Master of Professional Studies in Digital Security (MProfStuds in Digital Security)
- Master of Professional Studies in Mathematics Education* (MProfStuds in Mathematics Education)
- Master of Science (MSc)
- Master of Speech Language Therapy Practice (MSLTPrac)

**Research programmes**
- Master of Bioscience Enterprise (MBioEnt)*
- Master of Engineering Geology (MEngGeol)* **
- Master of Environmental Science (MEnvSci)*
- Master of Operations Research (MOR)*
- Master of Professional Studies in Mathematics Education* (MProfStuds in Mathematics Education)
- Master of Science (MSc)
- Doctor of Clinical Psychology (DClinPsy)
- Doctor of Philosophy (PhD)

*Interfaculty programmes.

**This programme will be offered in 2019 subject to approval.

Students may be able to transfer between these programmes (subject to approval)
New postgraduate opportunities in Science

In addition to well-established subjects and postgraduate qualifications, the Faculty of Science offers a range of new postgraduate study options.

Master of Data Science (MDataSci)**
Do you expect decision making to be data-driven and measurable? Turning data into information, knowledge and innovative products is a skill in high demand within industry.

By studying a strong core of Computer Science and Statistics courses, you will gain a unique combination of skills in data science and be able to comprehend, process and manage data effectively to extract value from it.

Graduates will be critical, reflective practitioners able to pursue professional goals and further postgraduate study.

www.science.auckland.ac.nz/m-data-sci

Master of Environmental Science (MEnvSci)**
Advance your career in environmental science with the MEnvSci.
This programme will provide you with the opportunity to gain specialist knowledge and skills to contribute solutions to the issues associated with ongoing and rapid change in the earth’s environmental systems.

With an emphasis on transdisciplinary knowledge, you will study a range of topics within the School of Environment. Areas the programme focuses on include water-use and governance, air and water quality, ecosystem ecology, environmental modelling and analysis, climate change, and resource management.

Graduates of the MEnvSci will develop the crucial conceptual and practical skills required of professional environmental scientists in research and industry.

www.science.auckland.ac.nz/m-env-sci

Master of Engineering Geology (MEngGeol)*
Further develop your expertise in geology within an engineering context.

This innovative qualification provides you with the essential skills to mitigate the impact of natural processes and man-made structures in order to prevent and control hazards.

By focusing on the development of accurate and reliable geological ground models, you will be well equipped to work within New Zealand’s complex environment and contribute to the projected construction boom.

The (MEngGeol) is for students who want to pursue an industry-relevant programme.

www.science.auckland.ac.nz/m-eng-geology

*Interfaculty programmes.

**This programme will be offered in 2019 subject to approval.
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
The Faculty of Science is New Zealand’s leading and largest science faculty. The breadth of scientific research is diverse and a variety of high-quality postgraduate research options are available.

Leading researchers
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 Department of Statistics is the home of “R”, an open source statistical computing package utilised worldwide by both universities and businesses. The code was first released as a free software package in 1996 and is now used by global companies such as Google and Pfizer.

www.stat.auckland.ac.nz

Centres of Research Excellence
The faculty is host to two of the ten national Centres of Research Excellence (CoREs): the Maurice Wilkins Centre and Te Pūnaha Matatini.

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 170 investigators from six universities throughout the country. Early career researchers, including postgraduate students, are supported by a network of 170 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 50 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

The home of “R”
www.science.auckland.ac.nz/excellence.

Nanotechnology
The Faculty of Science is committed to supporting leading-edge nanotechnology initiatives in biophotonics and laser physics.

www.science.auckland.ac.nz/dan-walls-centre
www.photonfactory.auckland.ac.nz

Food and Health Programme
The Food and Health Programme is an interdisciplinary research and teaching programme drawing on specialist expertise from across the University in food science, process engineering, nutrition, health, social sciences, business and commercialisation.

www.foodandhealth.auckland.ac.nz

Environmental Science
Our interdisciplinary teams work to create a legacy of solutions-focused research and applications for climate change, energy, water and urban issues.

www.env.auckland.ac.nz

Research programmes
The high-quality research programmes we offer contribute to both single and interdisciplinary science and technological innovation.

Our many research strengths include: computational biology, food, future materials and devices, health, knowledge sciences, science and society, sustainability, and understanding our universe.

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

www.env.auckland.ac.nz

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

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*Offered by the Faculty of Medical and Health Sciences.
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</tbody>
</table>
"I decided to study for the Master of Information Technology because ICT is a fast growing industry and I have a passion for cyber security and networking."

"With the news often headlining stories about different types of hackers cracking the most secure systems and the tremendous amount of damage to large, well secured organisations, cyber security was what I decided to focus on. I knew that first I had to master my network engineering skills, and I wanted to improve my knowledge of the sector as a whole and understand the role of ICT on the business side of the industry.

"A real point of difference in this degree is the internship. I completed my internship at ITS at the University of Auckland. It was the best place for me to get the hands-on experience in network engineering I've always dreamt of. And I was finally able to witness the largest network in New Zealand.

"It also landed me my job. I now work at ITS and I really enjoy my job as a network engineer. I learn something new every day.

"Completing my masters was a real milestone and has been life changing."

Ashwin Silveira completed a Master of Information Technology in 2017.
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

<table>
<thead>
<tr>
<th>Postgraduate programmes</th>
<th>Estimated annual tuition fees*</th>
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<tr>
<td>Bachelor of Science (Honours)</td>
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<td>Postgraduate diploma</td>
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<td>International students</td>
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<td>Interfaculty programmes</td>
<td>**</td>
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</table>

*Based on annual tuition fees for full-time study of 120 points. Tuition fees are indicative only and the fees for 2019 will be set at the end of 2018. All students will also pay a student services fee. As an indication, this fee is $766 for students undertaking a full-time load of 120 points in 2018. 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

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

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
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 postgraduate diploma
Postgraduate diplomas offer the opportunity to build on your major undergraduate subject. Some postgraduate diplomas provide specialised training and the opportunity for advancement in your profession.
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 4.0. 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 GPA 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
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

Costs

All costs are shown in New Zealand dollars and are expressed inclusive of New Zealand Goods and Services Tax if applicable.

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.