Faculty of Science

Tohu Paerunga Pūtaiao Mātai Koiora Postgraduate Biological Sciences

Postgraduate study in Biological Sciences focuses on research. You may pursue a wide range of disciplines, from biomedical, microbial and plant biotechnology, to environmental, ecological and conservation science.

The School of Biological Sciences has strong links with industry, and you may have the opportunity to collaborate on research projects with other faculties, or companies such as AgResearch, the Department of Conservation and the Government-owned research organisations.

Courses available in this subject include:

- Aquaculture
- Biogeography
- Bioinformatics
- Ecological Physiology
- Genomics and Gene Expression
- Marine Ecology
- Microbial Genomics and Metabolism
- Structural Biology

Choosing your supervisor

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

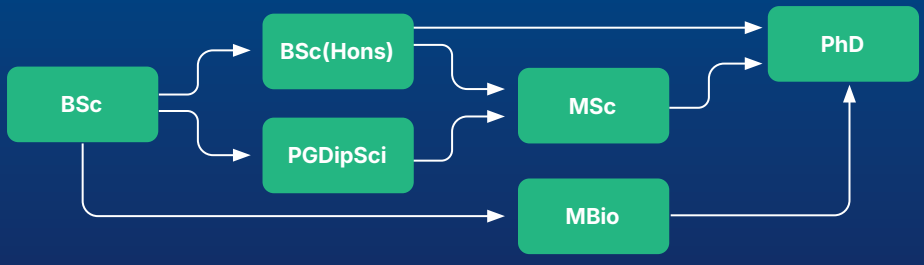
Choose an area you feel passionate about. Undertaking research involves successes as well as challenges, so choosing a topic you are genuinely interested in will help you overcome challenges and get through the tough times. Ensure you're compatible with your supervisor. Ask questions, seek advice and share your ideas with academic staff to find out their research interests, and whether you would be a good fit with their current projects.

Potential researchers can be identified within Biological Sciences at **auckland.ac.nz/bio-sci-research**

Scholarships

You can apply for a range of scholarships when you apply for postgraduate study in Science.

auckland.ac.nz/science-scholarships



Waipapa Taumata Rau
University of Auckland

Career opportunities

Biological Sciences investigates all levels of life, from biological molecules to global ecosystems.

Postgraduate study in the Biological Sciences prepares you for a career in biodiversity, biosecurity and biotechnology as you acquire internationally competitive skills and training through the range of programmes we offer.

Our graduates pursue careers in government, industries, Government-owned research organisations and the private sector. Areas of work include: biomedical research, biotechnology, food, brewing, dairy and pharmaceutical industries, conservation, plant protection and quarantine, education, environmental resource management and planning and much more.

Our graduates have been employed in the following jobs:

- Mineral observer, Mineral Services
- Senior vice president R&D, BioConsortia Inc
- Stock assessment scientist, Ocean Associates Inc (NOAA)
- Head of R&D, Color Genomics
- Bioinformatics lead, Commense Inc
- Marketing director, Eli Lilly and Company
- Cancer scientist, Peter Maccallum Cancer Centre

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 Bioinformatics, Biotechnology, Biosecurity and Conservation, and Marine Science.

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

auckland.ac.nz/science/pg-biological

Applications close on 8 December.

"I love solving problems and postgraduate degrees provide a fantastic opportunity to do this on a daily basis. You are also investigating phenomenon that don't have set answers, and as such requires novel ways of thinking to come up with solutions."

Jaime Willis
Doctor of Philosophy in Biological Sciences.

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auckland.ac.nz/student-hubs

Faculty of Science

Tohu Paerunga Pūtaiao Koiora me te Pakihi Postgraduate Bioscience Enterprise

Blend the best of Science, Business and Law to gain the skills you need to move with confidence in the business world. Bioscience Enterprise teaches scientists to understand and protect the value of their research.

You'll learn how to translate breakthrough discoveries into high value products, strategies for commercialisation, key aspects of intellectual property law, and valuation tools.

If you are studying the Master of Bioscience Enterprise you'll also complete a six-month industry internship, which offers a unique opportunity to put your skills into practice.

Courses available in this subject include:

- Science Enterprise Research Methods
- Product Development and Regulatory Environments
- Accounting
- Intellectual property and commercialisation
- Biological Sciences

Industry networking and thesis internships

The programme offers networking opportunities to meet practitioners and leaders from industry and business. These include networking forum events and strong integration of guest speakers from industry into the taught courses. In the Masters year your thesis comprises an internship with a company with allocated industry and academic supervisors.

Scholarships

You can apply for a range of scholarships when you apply for postgraduate study in Science.

auckland.ac.nz/science-scholarships

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BSc → PGDipBioEnt → MBioEnt

Waipapa Taumata Rau
University of Auckland

Career opportunities

The Bioscience Enterprise programme is where the worlds of business and science come together.

We work closely with industry to provide real-time business training for our science graduates. This programme offers you the opportunity to learn the business side of science that will prepare you for a wide range of career options in science and business enterprises.

Graduates of the PGDipBioEnt and the MBioEnt can look forward to opportunities in biotechnology, pharmaceutical, reagent or device companies; the food and beverage industry; technology transfer offices in universities; Public Research Organisations (PROs); business development, finance and investment firms; and Government agencies.

Our graduates have been employed in the following jobs:

- Market access writer, Evidera
- Clinical and regulatory associate, AFT Pharmaceuticals
- Brand manager, Bayer (NZ)
- Business analyst, BioPacific Ventures
- New products coordinator, Douglas Pharmaceuticals
- Business development manager, Revolution Fibres

This subject is available in:

- Postgraduate Diploma in Bioscience Enterprise
- Master of Bioscience Enterprise

You may also be interested in our programmes in biological sciences, biotechnology, bioinformatics, marketing, law and psychology.

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

auckland.ac.nz/science/pg-biosci

Applications close on 8 December.

"I hope my qualification leads me to a role that helps build NZ as the next biotech hub. The best ways to do that include evaluating the clinical trial process, fortifying local start-ups and facilitating access to global knowledge and resources."

Herman Marks
Master of Bioscience Enterprise.

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Faculty of Science

Tohu Paerunga Whakamaru Koiora me te Whāomoomo Postgraduate Biosecurity and Conservation

Play a vital role in protecting Aotearoa New Zealand's unique indigenous environments.

Combining courses in biology, environmental management and environmental science, postgraduate Biosecurity and Conservation explores the science behind biodiversity, restoration, conservation science, biosecurity and invasion biology. You'll work alongside our researchers and have the opportunity to learn from industry practitioners and local and national government agencies.

Some of the courses available in this subject include:

- Biosecurity and Invasion Biology
- Global Change Ecology
- Weed and Pest Management
- Advanced Behavioural Ecology
- Environmental Policy
- Collaborative Environmental Management

Choosing your supervisor

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

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Scholarships

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auckland.ac.nz/science-scholarships

BSc → PGDipSci → MSc → PhD

Waipapa Taumata Rau
University of Auckland

Career opportunities

Postgraduate study in Biosecurity and Conservation prepares students for employment in the biosecurity and conservation sector.

Graduates may find work in organisations including the Ministry for Primary Industries, Ministry for the Environment, local government, environmental consultancies, private pest-control companies, non-government conservation organisations, the Department of Conservation, Public Research Organisations, the tertiary education sector and museums.

Potential opportunities for our graduates include employment throughout the biosecurity and conservation sector.

Our graduates have been employed in the following jobs:

- Biosecurity Advisor, Auckland Council
- Ecologist, Auckland Council, Department of Conservation and Tonkin & Taylor
- Programme Manager, Forest & Bird
- Team Leader, AsureQuality
- Ranger, Kakapo Recovery Project
- Natural Sciences collections manager, Auckland Museum
- Incursion investigator, Ministry for Primary Industries

This subject is available in:

- Postgraduate Diploma in Science
- Master of Science
- Doctor of Philosophy

You may also be interested in our programmes in Biological Sciences, Environmental Management, Environmental Science and Geography

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

auckland.ac.nz/science/pg-biosecurityconservation

Applications close on 8 December.

"Growing up in the islands gives you a very different perspective on land, forests, oceans, and every organism we share these resources with. My career as an entomology diagnostic technician also taught me about the very real threats these same resources face from exotic and alien invasive species. I wanted a programme which examined the importance of biosecurity in this context, and also focused on the conservation of our unique and vulnerable native flora and fauna."

Micheal Hatch
Master of Science in Biosecurity and Conservation.

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auckland.ac.nz/student-hubs

Faculty of Science

Tohu Paerunga Hangarau Koiora Postgraduate Biotechnology

Postgraduate study in Biotechnology provides the necessary academic background for entry into the exciting and emerging biotechnology industry.

Alongside the development of advanced practical knowledge of biotechnology and molecular genetic technologies that are the foundation of modern biotechnology, you will learn about the commercial exploitation of living organisms or their components (such as proteins), and develop your ability to communicate and translate scientific research.

Courses available in this subject include:

- Applied Microbiology and Biotechnology
- Entomology and Biosecurity
- Genomics and Gene Expression
- Law and Intellectual Property
- Molecular Cell Biology and Biomedicine
- Plant Genomics and Biotechnology

Choosing your supervisor

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

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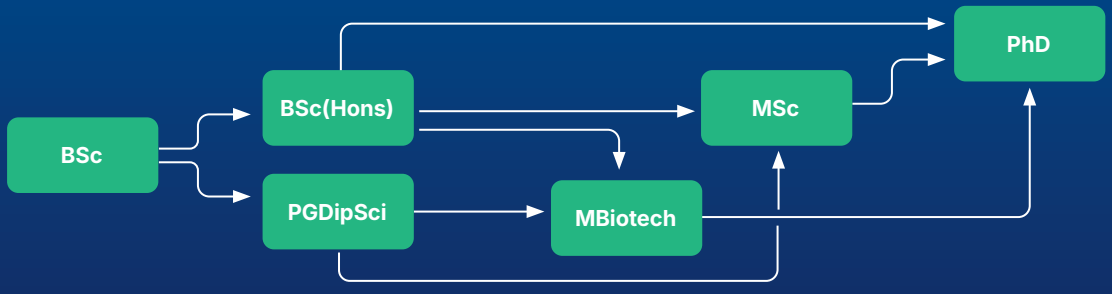

Waipapa Taumata Rau
University of Auckland

Career opportunities

Biotechnology is at the forefront of the knowledge economy and the commercialisation of cutting-edge science.

This field of science has broadened its scope and is poised to make significant impacts on our health and nutrition, and how we interact with our environment.

Our graduates are highly sought after by employers in industry and government agencies. They are likely to begin their careers as technical and research assistants within fundamental and applied research programmes in biotechnology companies, Public Research Organisations (PROs), pharmaceutical companies, and universities and diagnostic facilities in medicine and agriculture.

Our graduates have been employed in the following jobs:

- Research scientist, Plant and Food Research
- Associate director, Audentes
- Fermentation scientist, AB Mauri Technology and Development
- Senior research and development associate, Inqpharm Group
- Commercial manager, Epigen Global Research Consortium
- Senior technician, Biodiscovery New Zealand Ltd
- General manager for group optimisation, Fonterra Cooperative Group Ltd

This subject is available in:

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

You may also be interested in our programmes in Biological Sciences, Bioinformatics, Chemistry and Medicinal Chemistry.

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

science.auckland.ac.nz/pg-bio-tech

Applications close on 8 December.

"If you have a strong interest in science but would also like a bit of exposure into the business and commercial side of science, then this would be a great programme for you. My passion has always been to work in the biotechnology industry, so naturally this programme was perfect for me."

Lon Hua
Master of Biotechnology.

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Faculty of Science

Tohu Paerunga Mātai Whaiaroaro Kori ā-Haumanu Postgraduate Clinical Exercise Physiology

Clinical Exercise Physiologists (CEPs) are highly specialised allied health professionals who prescribe exercise and health behaviour interventions to improve functional capacity and promote physical activity in people living with chronic health conditions.

The Master of Clinical Exercise Physiology (MClinExPhys) combines theoretical and practical clinical courses to prepare you for entry into the clinical exercise physiology industry.

Postgraduate study in clinical exercise physiology concentrates on developing a strong core of theory-based coursework alongside practical skills. You will learn how to assess and critically analyse exercise and physical activity data to inform the development of effective exercise prescription. You will also complete at least 600 hours of hands-on, immersive work-integrated learning during your degree.

The programme is accredited by the Commission on Accreditation of Allied Health Education Programs. Graduates of the MClinExPhys are eligible to apply for accreditation from the American College of Sports Medicine.

You will have the opportunity to develop skills in:

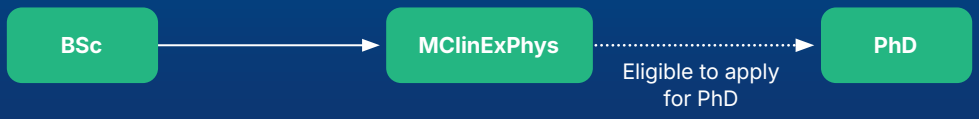
- Conducting clinical and exercise-related assessments for people living with chronic conditions
- Evaluating elements of an exercise prescription to maximise outcomes to health
- Independent supervision and monitoring of evidence-based exercise interventions
- Communicating with clients, whānau, peers and staff and other members of a clinical team
- Applying professional behaviour according to cultural, ethical and clinic standards expected by Te Tiriti o Waitangi and the Clinical Exercise Physiology profession in New Zealand

Find out more information about this international accreditation from the Commission on Accreditation of Allied Health Education Programs (CAAHEP) and the American College of Sports Medicine websites.

Scholarships

You can apply for a range of scholarships when you apply for postgraduate study in Science.

auckland.ac.nz/science-scholarships



Waipapa Taumata Rau
University of Auckland

Career opportunities

As New Zealand's population grows, our health and care services must expand, too. This, coupled with the pressures of the modern lifestyle that so many of us face, makes clinical exercise physiology an essential and rewarding career choice.

A Clinical Exercise Physiologist can assist in the maintenance of life-long functional independence in people living with chronic health conditions through patient education, behaviour change and primary and secondary prevention strategies.

Clinical Exercise Physiologists can be found working in hospitals, clinics, fitness centres and sporting bodies, or in private practice as primary contact allied health professionals.

Our Statistics graduates have been employed in the following jobs:

- Exercise physiologist, Piedmont Fayette Fitness Centre
- Health consultant, Life Care Consultants Ltd
- Emergency assistance coordinator, First assistance Rescue and Emergency
- Respiratory physiologist, Counties Manukau
- Clinic manager, ExerScience Clinic

This subject is available in:

- Master of Science
- Master of Clinical Exercise Physiology
- Doctor of Philosophy

You may also be interested in our programmes in Exercise Sciences.

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

auckland.ac.nz/science/pg-cep

Applications close on 1 November.

"The clinical placement shifts in the Health and Rehabilitation Clinic has been the most valuable experience for my learning. Each day is different; from initial consultations to exercise testing and prescription, each new situation I am presented with provides an opportunity to build upon my skills and apply my clinical knowledge in a practical setting. Working with and providing individualised rehabilitative care that positively impacts our patients has been highly rewarding. "

Isabella Fogarty
Master of Clinical Exercise Physiology.

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Have any questions?
Contact the Student Hub

auckland.ac.nz/student-hubs

Faculty of Science

Tohu Paerunga Mātai Hauropi Postgraduate Ecology

Postgraduate study in Ecology combines a range of advanced courses designed to prepare students to enter a diverse selection of roles within the field.

You will study theoretical and applied ecology, including population and community ecology, global change, biosystematics, ecophysiology, biosecurity, pest management, conservation, ethics, and socio-ecological systems. This is delivered in the form of lectures, seminars, laboratories, fieldwork and research supervision. You will also have opportunities available to connect with industry and government partners and agencies relating to careers in professional ecology.

Courses available in this subject include:

- BIOSCI 763 Professional Applications of Ecology
- BIOSCI 766 Global Change Ecology
- BIOSCI 734 Terrestrial Plant Ecology
- BIOSCI 735 Advanced Behavioural Ecology
- ENVSCI 737 Applied Terrestrial Ecology
- BIOSCI 724 Marine Ecology
- BIOSCI 725 Ecological Physiology
- BIOSCI 730 Entomology and Biosecurity
- BIOSCI 733 Molecular Evolution and Conservation Genomics
- BIOSCI 747 Biosecurity and Invasion Biology

Choosing your supervisor

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

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Scholarships

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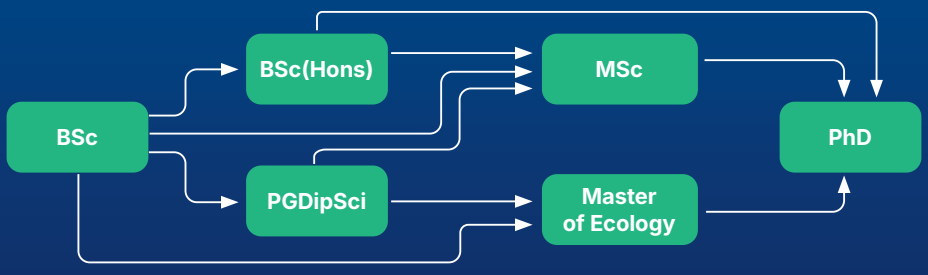
auckland.ac.nz/science-scholarships



Waipapa Taumata Rau
University of Auckland

Career opportunities

Postgraduate study in Ecology prepares you for employment in roles such as:

- Biodiversity advisor
- Biosecurity officer
- Botanist
- Ecologist
- Environmental consultant
- Environmental policy analyst
- Forest scientist
- Higher education lecturer
- Marine biologist
- Museum collections technician
- Nature conservation officer
- Pest management specialist
- Ranger
- Research assistant
- Restoration ecologist
- Science communicator
- Secondary school teacher
- Wildlife biologist/Zoologist

You may be interested in our programmes in:

- Master of Ecology
- Master of Science (Biosecurity and Conservation)
- Master of Science (Biological Sciences, Environmental Science)
- Master of Environmental Management
- Master of Environmental Science
- Master of Marine Conservation

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

auckland.ac.nz/science/pg-ecology

Applications close on 8 December.

"I think ecology is a great area to get into. I recommend it to anyone interested in biology or statistics who wants to learn more about our natural environments and find ways to help them. My biggest advice, especially to those considering a PhD, is to work with others in our research group and maintain connections. This collaboration can help you make life-long friendships and learn new skills beyond your project."

Toby Elliott
PhD in Biological Sciences, focusing on Ecology.

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Contact the Student Hub

auckland.ac.nz/student-hubs

Faculty of Science

Tohu Paerunga Pūtaiao Kori Postgraduate Exercise Sciences

Postgraduate study in Exercise Sciences provides you with the opportunity to achieve an advanced level of knowledge in a range of areas relevant to exercise, sport, health and rehabilitation sciences.

Our various programme offerings allow you to pursue your interests in Exercise Sciences and to become an exercise scientist working in industry, health or sport, or to prepare yourself for further Doctoral study.

Areas of specialisation include:

- Exercise physiology and metabolism
- Biomechanics and computational movement science
- Movement neuroscience and motor control
- Exercise and performance psychology
- Clinical exercise physiology.

Choosing your supervisor

Have a look at our research areas and online staff profiles at auckland.ac.nz/exercise-sci-research and identify a topic that you feel passionate about. More information is also available from our postgraduate study in Exercise Sciences webpage, including supervisor search function and experiences from current students:

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

Scholarships

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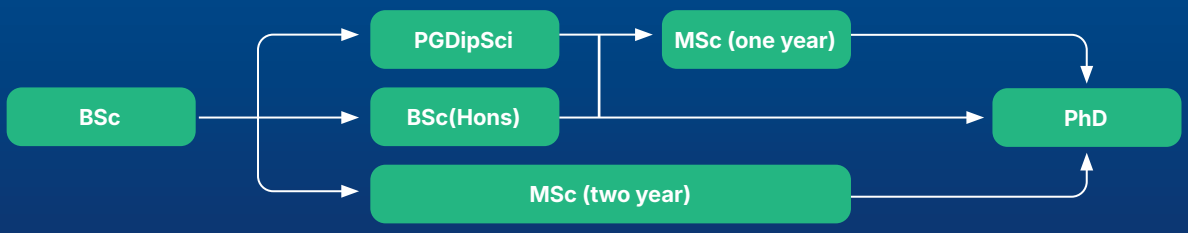
auckland.ac.nz/science-scholarships



Waipapa Taumata Rau
University of Auckland

Career opportunities

Exercise Sciences stretches the boundaries of knowledge, from neuron to muscle, from muscle to mind – working out how brain and body function.

There is a growing demand for exercise scientists who have the skills to do research, and work in an evidence-based manner as they help clients improve performance, increase quality of life, or prevent and manage chronic disease and injuries. Graduating from a postgraduate degree in Exercise Sciences will prepare you for a career in movement science, health and rehabilitation, high-performance sport, or clinical exercise physiology.

Our graduates have been employed in the following jobs:

- Postdoctoral Research Fellow, John Hopkins University
- Senior biomechanist, Australian Sports Commission
- Strength and conditioning coach, Auckland Rugby Union
- Exercise physiologist, Melbourne Osteopathy Sports Injury Centre
- Clinical analyst, Accident Compensation Corporation
- Chief executive, Auckland Table Tennis Association
- Performance analyst, Academy of Sport (South Island)
- Clinical research associate, ICON plc

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 Clinical Exercise Physiology, Biological Sciences, Health Sciences, Physiotherapy, Psychology and Population Health.

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

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

Applications close on 8 December.

Alternatively, please feel free to contact our postgraduate study advisor at

pgadvice-exercise@auckland.ac.nz

"The great thing about the PhD program is that we can combine different disciplines to solve real-world problems.

"As technology evolves, I would like to be one of those who find solutions in encouraging people to live an active lifestyle."

Peter Fermin Dajime
Doctor of Philosophy in Exercise Sciences.

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Faculty of Science

Tohu Paerunga Pūtaiao Moana Postgraduate Marine Science

Postgraduate study in Marine Science is your opportunity to advance your knowledge and skills in this fascinating field. Marine Science is as diverse as the environments and species that exist in the marine habitat.

Alongside learning about the theory of Marine Science, you will develop practical skills in research design and analysis of the marine environment.

The Marine Science research facilities at the Leigh Marine Laboratory include a 14m research vessel and several smaller boats, diving support, a flow-through seawater system for tank experiments, onsite accommodation for students and visitors, a library and access to the University's online catalogue, aquaculture facilities, a meteorological station and well-equipped laboratories.

Courses available in this subject include:

- Aquaculture
- Current issues in marine science
- Ecological physiology
- Marine ecology
- Modelling of environmental systems

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 challenges as well as successes, 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

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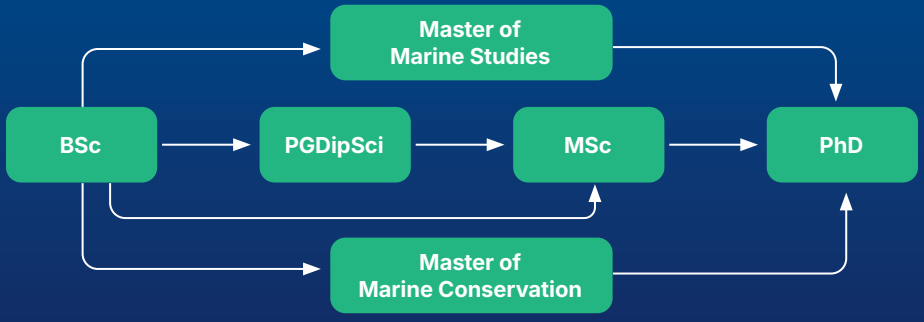

Waipapa Taumata Rau University of Auckland

Career opportunities

Marine Science offers you the opportunity to learn about many different facets of our coasts and oceans, and contribute to a science that will influence our future.

A Marine Science postgraduate qualification will enable you to pursue job opportunities in a wide range of occupations, in an equally wide range of organisations, in New Zealand and around the world.

The versatility of Marine Science and its multidisciplinary relationship with other sciences means our graduates find employment in the areas of aquaculture, conservation and environmental management and research focused on the marine environment.

Our graduates have been employed in the following jobs:

- Regional manager, Reef Check Foundation
- Ecological research statistician, Papahānaumokuākea Marine National Monument
- Assistant professor of marine biology, University of North Carolina
- Senior research scientist, Commonwealth Scientific and Industrial Research Association
- Gorgon environmental advisor, Chevron
- Fisheries biologist, The Watershed Company

This subject is available in:

- Postgraduate Diploma in Science
- Master of Marine Studies
- Master of Marine Conservation
- Master of Science
- Doctor of Philosophy

You may also be interested in our programmes in Biological Sciences, Chemistry, Environmental Management, Environmental Science and Statistics.

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

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

Applications close on 8 December.

"As a member of the Joint Graduate School with NIWA and the University of Auckland, I was able to take advantage of collaborations via my NIWA supervisor, as well as participate in Joint Graduate School activities; for example, the Spring Hui, which is a gathering of all the NIWA-associated graduate students, where they visit a NIWA campus, and are introduced directly to what research is like in the real world outside of graduate school."

Wenjie Wu
Doctor of Philosophy in Marine Science.

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auckland.ac.nz/student-hubs

Faculty of Science

Tohu Paerua Mahi Haumanu Koiri Postgraduate Physiotherapy Practice

The Master of Physiotherapy Practice is an exciting and unique vocation-focused masters that concentrates on the New Zealand context.

This is a graduate entry masters programme that will build on your undergraduate knowledge to train as a physiotherapist. This programme incorporates Māori and Pacific health models, and explores health equity, health systems and the social determinants of health, equipping you with the skills and competencies to be healthcare leaders in New Zealand. The MPhysioPrac is delivered by the School of Exercise Sciences, within the Faculty of Science, with a strong connection to the Faculty of Medical Health Sciences. This unique positioning offers a comprehensive and multidisciplinary approach to theory, practice and research, and a broad scope for specialisation. You will learn alongside students from other disciplines, aligned to real-world experience, and complete 900-100 hours of clinical practice and acquired knowledge.

Choosing your supervisor

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

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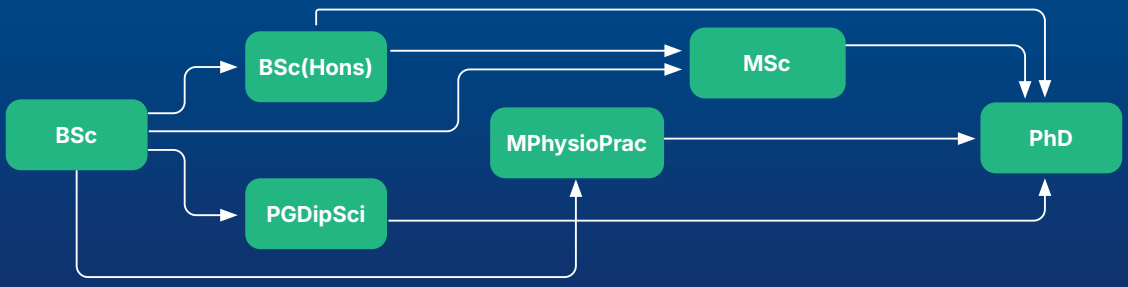

Waipapa Taumata Rau University of Auckland

Career opportunities

Graduates are eligible to apply for registration from the Physiotherapy Board of New Zealand, with reciprocal agreement from the Physiotherapy Board of Australia.

Students apply theory to real-world practice during five 6-week clinical practicums placed in hospital, clinic or community settings, under the supervision of registered physiotherapists. Institutes situated on campus include the Auckland Bioengineering Institute, the Liggins Institute and Healthy Hearts for Aotearoa New Zealand.

Graduates will be eligible to apply for registration as a New Zealand Registered Physiotherapist.

Jobs related to this programme:

- Physiotherapist
- Health professional

This subject is available in:

Other relevant programmes are Clinical Exercise Physiology and Exercise Sciences (PGDipSci and MSc)

This subject is not available in other degree programmes.

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

auckland.ac.nz/science/master-of-physiotherapy-practice

Applications close on 8 December.

"My PhD work is investigating a novel neurophysiological framework for assessing hand and arm impairment after stroke. The framework may increase prognostic accuracy about hand and arm movement recovery and outcome."

Maxine Shanks
Doctor of Philosophy in Exercise Sciences.

Kuhua ki tō mātou hapori, ā, Kimihia tōu Pūtaiao.
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