

# CREATIVE TECHNOLOGIES

UNDERGRADUATE &  
POSTGRADUATE  
PROGRAMME GUIDE  
2022

# AUT

TOP  1%  
UNIVERSITIES  
WORLDWIDE

AUCKLAND UNIVERSITY OF TECHNOLOGY



# FIND YOUR GREATNESS

JULIAN BRAATVEDT  
WILDLIFE  
CINEMATOGRAPHER  
AUT GRADUATE

At AUT we know that all of our students arrive with so much potential. It's our job to help them unlock that potential and use it to find the greatness within them. For many of our graduates, it was an influential lecturer, a conversation with a student mentor, or an educational experience inside or outside the classroom that gave them clarity and opened up new possibilities.

Some of our great graduates now share their stories of how their time at AUT helped them uncover what drives them and inspired them to turn that passion into something rewarding and meaningful.

[aut.ac.nz/great-graduates](https://aut.ac.nz/great-graduates)

## Welcome to AUT

E ngā mana, e ngā reo

E te iti, e te rahi

E ngā mātāwaka o ngā tōpito o te ao

Ngā mahuetanga iho e kawē nei i ngā

moemoeā o rātou mā

Tēnā koutou katoa

Piki mai rā, kake mai rā,

Nau mai, haere mai ki tēnei o ngā wānanga

Whakatau mai i raro i te korowai āhuru

o Te Wānanga

Aronui o Tāmaki Makau Rau

To the prestigious, the many voices

The few, the great

To those of all races and creeds

We who remain to fulfil the dreams and

aspirations of the ancestors

Greetings one and all

Climb, ascend

Embark on the journey of knowledge

Let us at AUT embrace and empower you

To strive for and achieve excellence

**Te whakatupu i te kōunga, i te mana taurite me ngā  
tikanga matatika, i ngā pūkenga ako,  
i ngā pūkenga whakaako me te āta rangahau hei hāpai  
i ngā hāpori whānui o te motu, otirā, o te ao.**

To foster excellence, equity and ethics in learning,  
teaching, research and scholarship, and in so doing  
serve our regional, national and international  
communities.

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**Key:** F/T = full-time, P/T=part-time

### Cover

Top 1%: AUT is ranked in the world's top 251-300 universities (Times Higher Education World University Rankings 2021).

**Disclaimer:** Although every reasonable effort is made to ensure accuracy, the information in this document is provided as a general guide only for students and is subject to change. All students enrolling at AUT should consult its official document, the AUT Calendar, which is available online at [aut.ac.nz/calendar](https://aut.ac.nz/calendar), to ensure that they are aware of, and comply with, all regulations, requirements and policies.

International students should visit [aut.ac.nz/international](https://aut.ac.nz/international) for entry requirements and detailed application information. The information contained in this programme guide was correct at the time of print, December 2020.

# AUT's faculties and schools

AUT has five faculties and 16 schools. The light orange box in the diagram below shows where the programmes in this programme guide sit within AUT.

## FACULTY OF BUSINESS, ECONOMICS AND LAW

TE ARA PAKIHI, TE OHANGA ME TE TURE

### Business School

Te Kura Kaipakihi

### Law School

Te Kura Ture

### School of Economics

Matauranga Ohanga

## FACULTY OF CULTURE AND SOCIETY

TE ARA KETE ARONUI

### School of Education

Te Kura Matauranga

### School of Hospitality and Tourism

Te Kura Taurimatanga me te Mahi Tāpoi

### School of Language and Culture

Te Kura Reo me te Ahurea

### School of Social Sciences and Public Policy

Te Kura Pūtaiao ā-iwi me ngā Kaupapa Tūmatanui

## FACULTY OF DESIGN AND CREATIVE TECHNOLOGIES

TE ARA AUHA

### School of Art and Design

Te Kura Toi a Hoahoa

### School of Communication Studies

Te Kura Whakapāho

### School of Engineering, Computer and Mathematical Sciences

Te Kura Mātai Pūhanga, Rorohiko, Pāngarau

### School of Future Environments

Huri te Ao

## FACULTY OF HEALTH AND ENVIRONMENTAL SCIENCES

TE ARA HAUORA A PŪTAIAO

### School of Clinical Sciences

Te Kura Mātai Haumanu

### School of Public Health and Interdisciplinary Studies

### School of Science

Te Kura Pūtaiao

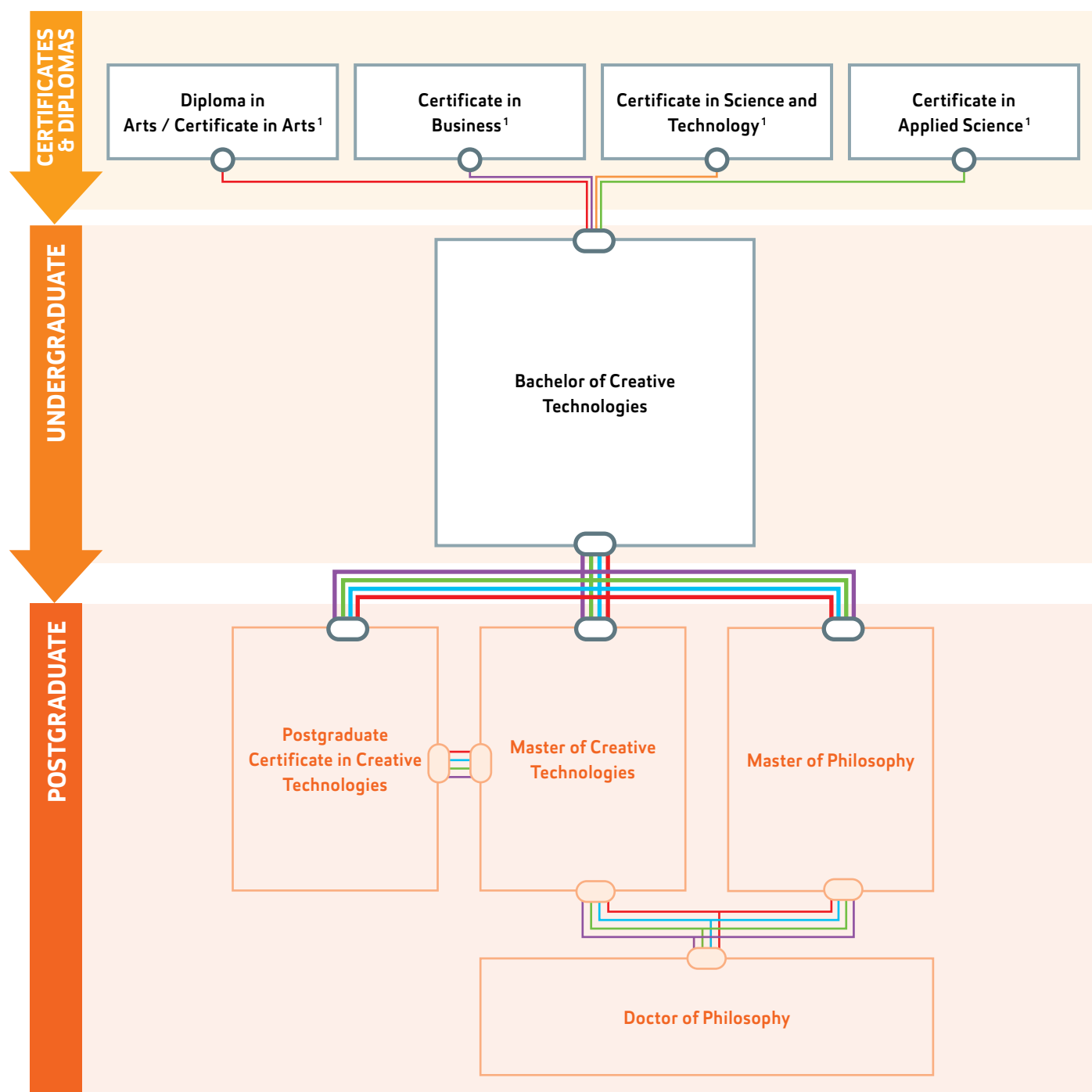
### School of Sport and Recreation

Te Kura Hākinakina

## TE ARA POUTAMA

FACULTY OF MĀORI AND INDIGENOUS DEVELOPMENT

# Qualifications and study pathways



1. More information on these programmes can be found at [aut.ac.nz](http://aut.ac.nz)

## Note:

- 1) Completion of one qualification doesn't guarantee entry to a higher-level qualification.
- 2) Apply for the qualification you are best suited for – you don't necessarily have to enrol in the qualification that appears at the top of the above diagram.
- 3) Some qualifications in the above diagram may be prerequisites to – and not credit towards – higher-level qualifications.

For more information, visit [aut.ac.nz/creativetechnologies](http://aut.ac.nz/creativetechnologies)



# WHY STUDY CREATIVE TECHNOLOGIES?



Entrepreneurial focused  
degree structure



Mixed discipline degree



Access to high-tech labs network



1 Lumiere by Year 3 students Shalvin Samy and Sushmita Devi 2 The AUT City Campus in the heart of Auckland City 3 Use our labs to test the boundaries of new technologies, including motion capture and virtual worlds

## Creating world-ready graduates

AUT's mission is to create great graduates, and each member of our staff contributes to this. We offer exceptional learning experiences that prepare students to be successful wherever in the world their career may take them. As a creative technologies student, you join a diverse community of creative people, working together in an environment from which new ideas emerge on a daily basis. Our programmes go beyond the traditional boundaries between creative arts, design, digital media, computing, engineering and entrepreneurship, bringing them together in one innovative, project-based learning environment. We encourage innovation and entrepreneurship, and the ability to explore new technologies, challenge routine thinking and solve problems in new ways.

## World-class teaching and learning

We're proud to be one of the world's best modern universities – Times Higher Education has ranked us as the top millennial university in Australasia and number 15 in the world. We have been a university since 2000, and are now the second largest in the country and ranked among the top 1% (251–300) of universities in the world. Study with us and you frequently collaborate with your classmates on projects, sharing ideas and supporting each other to achieve the best outcome. You can also work on projects in consultation with one of our many industry partners, giving you valuable industry experience and networking opportunities.

## An innovative university environment

AUT's three modern campuses have several award-winning buildings which were created using sustainable principles and feature inviting, collaborative and functional learning areas, auditoriums and research spaces. At AUT you have access to our high-end facilities, the same facilities industry and creative professionals often come in to use. Our state-of-the-art labs network offers plenty of opportunities to research and develop designs, products, materials and techniques, with each lab housing specialist technologies and experts to assist you. It's the perfect place to test the boundaries of new technologies, from 3D printing and digital textiles to motion capture and virtual worlds. Our success in creating transformational educational spaces has been recognised with a five-star ranking for teaching and facilities, awarded by the university rankings organisation QS.

## A global outlook

We know that to create truly great graduates, we must do more than get them ready for their career; we must get them ready for the world. We're consistently ranked first in New Zealand for international outlook by world rankings organisations QS and Times Higher Education. Our students come from a variety of backgrounds, and many of our academic staff were born overseas, and they often share their international experience and connections with their students.

## Life at AUT

**AUT is a modern and innovative university with endless opportunities and a supportive culture that celebrates diversity. Studying at AUT is your chance to meet new people and develop lifelong skills, while getting the support you need to succeed at university and beyond.**

We're proactive in enabling all students to succeed, and our comprehensive student support services ensure that you have an amazing experience inside and outside the classroom.

### We're here to help

No matter what the problem, our Student Hub advisors are here to help. You can find a Student Hub on each campus and our specialist staff can help with anything from enrolment and student ID cards to academic and personal support, fees and financial support, and services for our diverse student communities including the international, disability and rainbow community.

### Dedicated support for new students

From Orientation to our many academic and cultural support programmes, our Student Services team is there to make starting out as a new student as easy as possible.

## Supporting you into your future career

The AUT Employability and Careers team prepares you for your future career by developing job search, interview and networking skills, building your personal brand and more.

### Connections to the workplace

We run a full programme of employer presentations, events and workshops throughout the year – on campus and online – with employers offering insights into their industries and recruiting future employees. Four graduate job boards, including an international one, offer great work opportunities for AUT graduates and interns.

### Gain an edge on the competition

The AUT Edge and Beyond AUT Awards help you gain an extra edge in the competitive marketplace by developing highly employable skills through volunteering, leadership and employability activities.

### International study opportunities

An international student exchange offers an amazing opportunity to study overseas as part of your degree. Study for a semester or a year at one of our partner universities around the world, immerse yourself in another culture, make lifelong friends and get international experience before you graduate.





## Helping you succeed in your studies

Our library and learning support team offers a wide range of services and resources designed to help develop your academic skills.

The Library also runs a range of workshops to help you get the most out of your studies, and our peer mentoring programme provides academic support from others who have already completed the same course.

## Top internships around the world

A good internship can be the foundation of a great career. That's why AUT Internz places students and graduates with top companies in New Zealand, North America, Asia and the UK – including Paramount Recording Studios, the Sundance Institute and Westpac Institutional Bank in New York.

## A launchpad for entrepreneurs

Every entrepreneur starts somewhere.

At AUT, the best place for aspiring entrepreneurs is CO.STARTERS@AUT. This ten-week programme helps you turn your entrepreneurial ideas into a viable business.

## An outstanding learning environment

At AUT you study in an innovative and interactive environment that embraces creativity, collaboration, and the sharing of ideas and culture. A number of our buildings have won prestigious architecture awards, and we're constantly improving our built environment to offer students the best possible learning experience.

## Free access to digital tools and resources

We offer students all the digital tools needed to succeed, including free wifi on campus, the full Office 365 suite for up to five devices and free access to LinkedIn Learning, a world-leading online learning platform.

## Getting involved in campus life

Joining a club is a great way to meet like-minded people and make lifelong friends outside of lectures. Choose from a range of student-run social, sustainability, academic and cultural clubs – a great way to meet new people, participate in events and get involved in campus life.

## Play sport or join the gym

AUT is New Zealand's leading sports university, with state-of-the-art sports facilities, on-campus gyms, and a huge number of sports teams and events. As an AUT student you can participate in a wide variety of sports, from social on-campus games to elite international competitions.

## Holistic approach to wellness

AUT offers comprehensive medical, and counselling and mental health services. We also run Bright Side events where students can develop better self-knowledge and a greater sense of purpose and meaning in their lives.

## Disability student support and resources

Our Disability Support team is committed to helping you participate as fully as you can in learning and student life. We work with students before they start at AUT to help identify their specific needs and ensure they're set up for success.

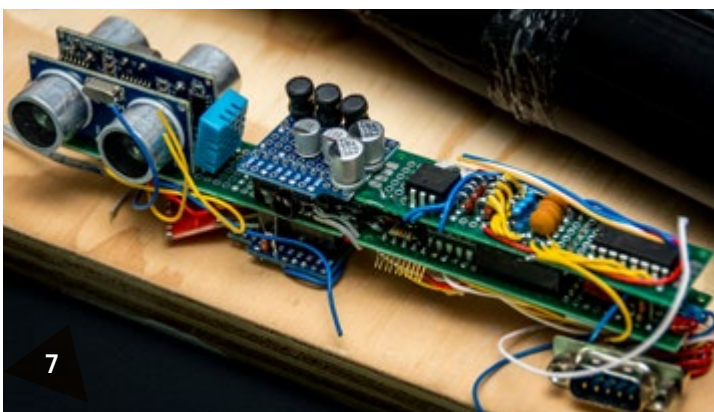
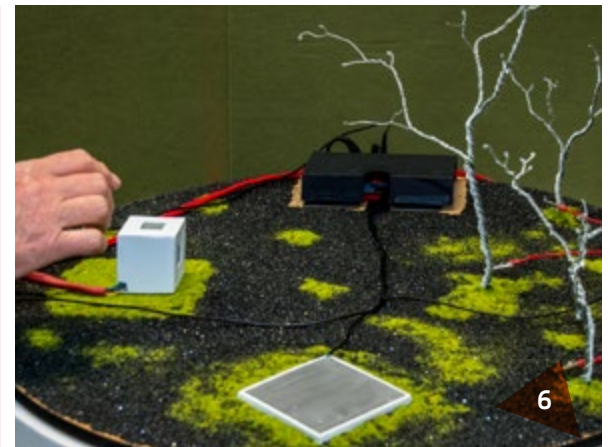
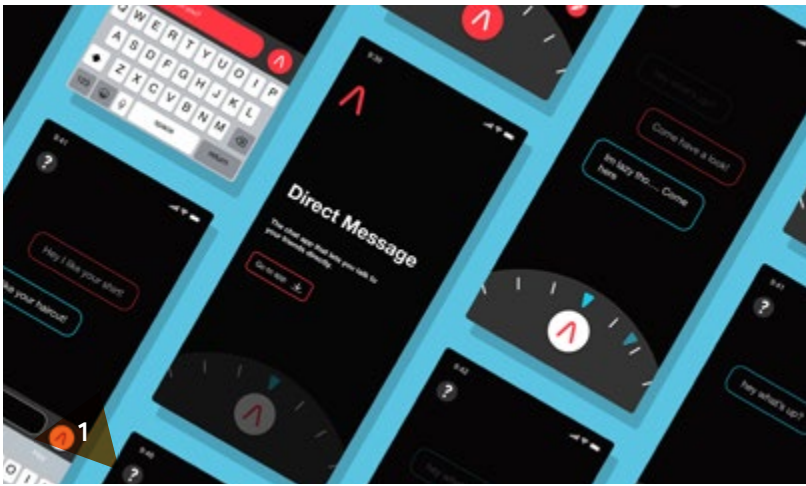
## Getting around

Whether it's finding your way to campus or getting around between lectures, AUT offers a range of resources to help you navigate your new environment, including shuttle buses that travel between campuses and interactive online maps.

## Safe and friendly campuses

We make sure our students are safe when they're on campus. Our friendly security staff are available day and night to help if you have any concerns.





**Projects from the Creative Technologies Showcase 2019 (photographs by Stefan Marks)**

- 1 A Direct Message by Joshua Baxter, Gianni Gambassi & Liam Ball (Year 3, BCT) 2 Chris the Tree by Fox Yorston, Alyssa Kerrigan & Lachlan Smith (Year 1, BCT)  
3 Pilgrim by Joshua Baxter, Adam Perry, Leo Sonnekus and Liam Ball (Year 2, BCT) 4 Activating Public Spaces by Jodan Laurino, Jake Lowe, Ravenne Jariol & Vahid Doss (Year 2, BCT) 5 Formbric by Charlotte Pryce Jones (Year 3, BCT) 6 The Narrator by Michael Bambury, Bligh Hedges & Matthew Bland (Year 3, BCT)  
7 USys by Caleb Mclvor, Samuel Marzuki & Tayne Bilyard (Year 2, BCT) 8 Organised Chaos by Megan Buyn & Zane Ali (Year 2, BCT)



# Bachelor of Creative Technologies [ BCT | AK1305 ]

## Overview

The Bachelor of Creative Technologies attracts students who dream of solving problems by taking a creative and critical approach to technology. You 'sketch with technology' to imagine and implement solutions that prioritise radical change for common good. By working on a variety of projects you learn to critically engage with existing and new technologies, become familiar with creative processes, and experiment with appropriate technological tools and collaborative strategies to tackle challenges that go beyond conventional ideas. You learn to apply and evaluate these innovative ideas by thinking like an entrepreneur and acting as a responsible global citizen.

### Entry requirements

#### Minimum entry requirements

University Entrance or equivalent.

#### English language requirements

IELTS (Academic) 6.0 overall with all bands 5.5 or higher; or equivalent.

#### Useful New Zealand school subjects

Design (Practical Art), Design and Visual Communication, Digital Technologies, Technology, Processing Technologies, Construction and Mechanical Technologies, Drama, Media Studies, Music, Mathematics, Science, Statistics, Calculus.

### What this qualification covers

#### Year 1

You're introduced to key concepts of creative technologies and develop these through diverse student-led projects. Projects will vary and you'll learn how to express your ideas in a variety of digital and physical media – whether it's through video, sound, mechatronics, installations, or smart objects.

#### Core courses

- Creative Technologies Studio I
- Introduction to the Creative Technologies
- Programming for Creativity
- Creative Technologies Studio II
- Physical Computing
- Integrative Practice

### QUICK FACTS

Level:	7
Points:	360
Duration:	3 years F/T only
Campus:	City
Starts:	28 Feb 2022



#### Joshua Baxter

Digital Designer, RUSH Digital  
Bachelor of Creative Technologies

"I've always had a passion for all things design and technology. The way the Bachelor of Creative Technologies brought these two together in a future-focused learning environment was what drew me to the programme. The people and the place would have to be the highlight of AUT for me. In the collaborative studio environment, you're surrounded by a diverse range of people and skillsets. I think a huge part of what you take away from the creative technologies programme comes from the people around you and what you learn from each other. The studio environment really prompts you to draw and build on each other's strengths, and that evidently leads to the production of some pretty awesome work. I'm now a digital designer for RUSH Digital, working across marketing, branding, user experience and interface design to develop and deliver digital products that put people first."

# Bachelor of Creative Technologies

## Overview continued



A launchpad for tech entrepreneurs

### Year 2 & 3

In your second and third year you have more choice of studio projects. Each semester has a number of themes that provide a degree of focus, but you're encouraged to develop your studio projects in creative, unexpected or provocative ways.

We encourage you to work in teams or with people outside AUT, including industry partners.

### Student projects

Student projects are at the heart of the Bachelor of Creative Technologies. You'll work on a wide range of projects, often collaborating with your classmates or industry partners.

Recent student projects included:

- Flattie – an interactive website to help others find cheap rooms to rent in Auckland
- Edubot – a prototype of a simple to use robotics platform and ecosystem to be used in schools for education
- Adventuary – a prototype of an interactive children's space developed for an international airport
- Dyr – a short film projected on to a lenticular surface
- Pilgrim – a mobile platform and ride sharing concept that aims to connect like-minded individuals on recreational journeys, to make each trip as affordable and communal as possible.
- Tangata i Tāngata – a collaborative installation that aims to highlight New Zealand's evolving multicultural national identity through connecting self to the collective. By creating and contributing their own personal 'pepeha tile' participants are encouraged to self-reflect on their own identity within a New Zealand-specific framework, and reflect on how they connect to the wider collective.
- USys – a smart 'Swiss army knife' of professional technician testing equipment that fits in the palm of your hand.
- Coarse Treatment – a modular, reconfigurable, acoustic alteration interior design project. It encourages sonic malleability within a space which may have multiple uses. It places the acoustic performance of the space into the user's hands where they can create a visually diverse space using the aesthetic, tactile and acoustic interlocking wall panels.
- Patient Centred Care – an experimental approach to understanding the potential of transformative technologies in aged care. It explores the possibilities for virtual reality to engage stakeholders with sensory environments improving health and wellbeing.
- Continuum – a beautifully hand-crafted game where you explore your heritage through conversation and tactile play, facilitating conversation and play, successfully bringing together different relationship dynamics; from complete strangers, to colleagues and family.
- Physiowear – an e-textile compression short that uses a combination of hard and soft technologies to monitor posture and provide corrective feedback using vibrotactile motors.



### Zane Kelbrick

3rd-year student, Bachelor of Creative Technologies

"When I was looking at my study options after high school, I was at a crossroads between architecture, mechatronic engineering and digital design. With the Bachelor of Creative Technologies I could explore all those interests and more in an environment that encouraged my exploration rather than guide it down a single path. I've really enjoyed being in an environment with likeminded creative individuals. AUT's creative technologies programme also has a large amount of freedom. You can literally make anything you can justify. For example, I had long been interested in experimental audio and electronics, and this programme has provided an environment where I could explore this passion. AUT has a lot of new facilities that make a real difference when creating projects – from industrial 3D printers and a fully kitted wood, metal and resin working lab, to a motion capture lab and VR equipment. It has everything I need to create."



## Career opportunities

A creative technologies degree can lead to a wide range of career opportunities in the creative industries including positions that require creative thinkers, problem solvers, entrepreneurial strategies, digital marketing, product/service design, UX UI design, digital artists, software engineers, business development managers, project management, interactive exhibitions and installation, sound designers, digital storytelling, smart materials, wearables, and extended reality (XR: MR/VR/AR).

## Minors and electives

You can study a minor or elective courses from another AUT degree, enabling you to pursue an area of interest from a wide range of subjects.

To find out more visit [aut.ac.nz/minors](https://aut.ac.nz/minors)

AUT encourages early application. Places are limited.



Real industry projects – work in consultation with one of our many industry partners



### Talia Pua

Freelance Creative Technologist  
Bachelor of Creative Technologies

"I would definitely recommend creative technologies to anyone who, like me, has their hand in many different areas and wants to find a way to combine them together. Its multidisciplinary approach has allowed me to combine all my creative interests, and to experiment and explore areas I wouldn't have discovered otherwise. AUT is great because it's very forward-thinking, not just in its approach to new technology but also in its teaching style and its connections to industry. What's also really lovely about creative technologies is that because the cohort is really small, you get to know your classmates, those in the other year levels and your lecturers. It's a great space for collaboration and creativity. I've learnt so much at university like hard skills, critical thinking, knowledge and methodologies. This has been really enriching and has helped me in my own creative practice."



For more details visit [aut.ac.nz/creativetechnologies](https://aut.ac.nz/creativetechnologies)

## QUICK FACTS

Level: 8

Points: 60

Duration: ½ year FT, equivalent PT

Campus: City

Starts: 28 Feb 2022

# Postgraduate Certificate in Creative Technologies

PgCertCT | AK1440

Interested in innovation and entrepreneurship? Explore how to bring creative ideas to life with the Postgraduate Certificate in Creative Technologies. Choose your own path and select from a range of courses within creative technologies. The Postgraduate Certificate in Creative Technologies is highly flexible and combines multiple technical and creative disciplines.

This programme can also serve as a pathway into the Master of Creative Technologies.

## Entry requirements

### Minimum entry requirements

- A relevant bachelor's degree; or
- A relevant graduate diploma; or
- A relevant professional qualification and professional experience approved by the dean (or representative) to be equivalent to a bachelor's degree

### English language requirements

IELTS (Academic) 6.5 overall with all bands 6.0 or higher; or equivalent.

## What this qualification covers

You complete 60 points of courses within the creative technologies field.

### Courses

- Transdisciplinary Practice
- Entrepreneurial Strategies
- Post-Material Practices
- Readings
- Special Topic A<sup>1</sup>
- Special Topic B<sup>1</sup>
- Transdisciplinary Research Methods

## Career opportunities

- Creative technologies
- Technology start-ups
- Artificial intelligence
- Augmented and virtual reality
- Digital media
- Electronic music and sound
- Games and interaction
- Internet of things
- Mobile and web applications
- Smart textiles
- Wearable technologies

AUT encourages early application. Places are limited.

1. Enrolment subject to approval of the programme leader



For more details visit [aut.ac.nz/creativetechnologies](https://aut.ac.nz/creativetechnologies)

# Master of Creative Technologies

MCT | AK1320

See yourself as a creative entrepreneur? Study the Master of Creative Technologies and turn your creative ideas into reality through your master's research project. This highly flexible degree is studio-based, and combines multiple technical and creative disciplines. You have the freedom to choose your own path, and will work on a research project of your choice. Our students' projects focus on future-oriented themes, and include practical elements like animation and transmedia storytelling, performance technologies, bio feedback systems, smart textiles, virtual environments and intelligent agents. There's an emphasis on entrepreneurship and innovation that encourages you to explore potential commercial applications of your project work.

## Entry requirements

### Minimum entry requirements

- Bachelor of Creative Technologies or any other degree in a relevant subject with a B grade average or higher in courses at level 7 or above
- Applicants are required to submit a form outlining their research interests
- Admission is subject to the approval of the dean (or representative)

You should also tell us about the area of research you're planning to focus on.

### English language requirements

IELTS (Academic) 6.5 overall with all bands 6.0 or higher; or equivalent.

## What this qualification covers

You complete 60 points from courses and a 120-point research thesis within the broad creative technologies field.

### Courses

You must complete:

- Transdisciplinary Research Methods

You also complete three courses from<sup>1</sup>:

- Transdisciplinary Practice
- Entrepreneurial Strategies
- Post-Material Practices
- Readings
- Special Topic A
- Special Topic B

You have the opportunity to choose up to two courses from other AUT programmes, subject to the approval of the programme leader.

## QUICK FACTS

Level:	9
Points:	180
Duration:	1½ years F/T, 3 years P/T
Campus:	City
Starts:	28 Feb 2022



### Kate Whittaker

Master of Creative Technologies student  
Bachelor of Design in Textile Design

"The creative technologies master's degree offers so many experiences but also gives you the space to create and connect with so many passionate people with areas of expertise. AUT offers such amazing facilities and the lecturers create a great space to learn and grow in. I also appreciate that everyone at AUT is always willing to help with anything you need. AUT has a way of making it feel like home. For my Master of Creative Technologies research, I'm exploring the aesthetic potential of tactile and sensory materials to stimulate engagement and memory. My research will explore and combine different textile design methods, materials and technologies to enhance sensory engagement. The significance of tactility and sensory engagement to the imagination of both the creator and the audience are a key focus of the project."



Focus on entrepreneurship  
and innovation



#### **Niko Meredith**

Co-director, No Six  
Master of Creative Technologies  
Bachelor of Creative Technologies

"I would highly recommend studying creative technologies. The programmes challenge you to be both creative and critical, and the creative environment allows innovation to thrive. As creative technologies is a relatively new area of study, there's an opportunity to be innovative and stake a claim in this emerging field. The academic staff are renowned for their expertise and industry connections. They're supportive of students and go the extra mile. In my role now, I enjoy using technology as a tool to respond to social issues. No Six is a digital ecosystem that produces content and inspires young content creators in disadvantaged communities to find what they love, and be inspired by their creations. We've been in operation for a few years and our business is thriving."

## Master of Creative Technologies

### continued

#### Research thesis

Your research thesis can contain elements of written and practical work, depending on your topic. It could be based on your own proposals or related to ongoing research projects within AUT or industry.

#### Career opportunities

- Creative technologies
- Technology start-ups
- Artificial intelligence
- Augmented and virtual reality
- Digital media
- Electronic music and sound
- Games and interaction
- Internet of things
- Mobile and web applications
- Smart textiles
- Wearable technologies

AUT encourages early application. Places are limited.

1. Course offerings are subject to availability.



For more details visit [aut.ac.nz/creativetechnologies](https://aut.ac.nz/creativetechnologies)



# Master of Philosophy

MPhil | AK3720

The Master of Philosophy (MPhil) is a one-year, research-only master's degree. It provides an opportunity for you to undertake a research topic of your interest under the supervision of creative technologies staff. It can also serve as a pathway to more advanced research at doctoral level.

## Entry requirements

### Minimum entry requirements

Must have completed one of the following with the equivalent of a B grade average or higher:

- Four-year bachelor's degree OR
- Bachelor's honours degree OR
- Bachelor's degree and a postgraduate diploma OR
- Bachelor's degree and at least three years of experience relevant to the proposed research

### English language requirements

IELTS (Academic) 6.5 overall with all bands 6.0 or higher; or equivalent.

### Other requirements

May be required to complete an approved research methods course.

## What this qualification covers

You complete an original thesis during this year of your study. Staff in creative technologies are available to supervise Master of Philosophy research on a wide range of topics.

## Career opportunities

As a graduate with a Master of Philosophy you have the necessary skills and qualifications to follow an academic or research career leading to a PhD. Alternatively, your research topic may lead you to a position of expertise in your chosen field.

AUT encourages early application. Places are limited.

## QUICK FACTS

Level:	9
Points:	120
Duration:	1 year F/T, 2 years P/T
Campus:	City
Starts:	1 Feb & 1 Aug 2022



For more details visit [aut.ac.nz/creativetechnologies](https://aut.ac.nz/creativetechnologies)

## QUICK FACTS

Level:	10
Points:	360
Duration:	3 to 6 years
Campus:	City
Starts:	1 Feb & 1 Aug 2022

## Doctor of Philosophy

PhD | AK3518

The Doctor of Philosophy (PhD) is the University's highest qualification. The degree is undertaken by research only and leads to advanced academic and theoretical knowledge in a specialist area. The PhD is suitable for students who want to pursue an academic or research career, or a senior position in the public or private sector. Doctoral studies present you with the opportunity to generate new ideas that can benefit business and society. You will make a significant original contribution to knowledge and understanding in your field of study and meet recognised international standards for your work. Our academic supervisors are recognised world-class researchers in their fields who have the expert knowledge to guide and advise you throughout your PhD. The opportunities to apply the knowledge and skills you gain will be extensive, both in industry and academia.

### Entry requirements

#### Minimum entry requirements

Must normally have completed the following in a specialisation appropriate to the proposed research:

- Master's degree with first-class or second-class (first division) honours OR
- Bachelor's degree with honours (equivalent to four years of study), normally with first-class or second-class (first division) honours

The degree should include advanced learning in research, execution of a research project and a written report on the research.

#### English language requirements

IELTS (Academic) 6.5 overall with 7.0 in Writing and all other bands 6.0 or higher; or equivalent.

#### Other requirements

Acceptance is subject to the availability of staff for supervision, prior research preparation and appropriate facilities.

### Planning your PhD

You are required to prepare a brief proposal for your intended research, specifying the field of research and a general research question you wish to investigate. You should provide official copies of academic transcripts, and evidence of previous independent research outputs, like an honours-level dissertation or master's-level dissertation or thesis. You should also provide evidence of successful completion of studies in research methodology at a postgraduate level. Our staff supervise PhD research on a wide range of topics that cover all aspects of creative technologies.

Visit [aut.ac.nz/creativetechnologies](https://aut.ac.nz/creativetechnologies) for current research and supervision.

## PhD research allowance

PhD research allowances are normally available to support PhD candidates with expenses associated with data collection and analysis, conference funding, and other resources associated with completing their research.

## Scholarships/graduate assistantships

Research scholarships and graduate assistantships may be available to approved PhD candidates. For more information about scholarships, visit [aut.ac.nz/scholarships](https://aut.ac.nz/scholarships)

## Current research areas

Creative technologies staff are involved in a wide variety of research topics including:

- 3D immersive virtual environments
- Creativity and innovation modelling
- Data visualisation
- Design for developing business strategies
- Design methodologies for innovation
- e-textiles and fashion design
- Entrepreneurship
- Evolutionary computation
- Game development
- Human-robot interaction and human-computer interaction
- Interaction design
- New digital business models
- Participatory design
- Research through design
- Tangible, urban and pervasive computing
- Technology facilitated learning
- User-centered design
- Virtual reality

AUT encourages early application. Places are limited.



Learn from leading  
research-active staff



**Sana Alyaseri**  
Doctor of Philosophy candidate

"We're working on studying and investigating the use of algorithms inspired by nature to be hired in the procedural content generation of games to get good quality game content. I'm interested in the enjoyment of the gamer, and for my PhD I'm investigating how to make this procedure a good experience for the gamer, focusing on the quality of the game content. I've been a lecturer in computing and IT for 20 years but started to realise that I really enjoy being involved in the research. As part of my work, I was involved in developing courses on creative software, including games, augmented reality and virtual reality. I found this area very interesting, and after some research, I discovered creative technologies at AUT. AUT has a positive energy. Whenever I'm on campus, the ideas keep on coming and I feel very creative, and can find the answers I'm looking for. That's why I like coming here every day."



For more details visit [aut.ac.nz/creativetechnologies](https://aut.ac.nz/creativetechnologies)

# HOW TO APPLY

Below is the step-by-step guide to the applications process. For more information visit [aut.ac.nz/apply](https://aut.ac.nz/apply)

1

## APPLY EARLY

Places are limited. Submit your application well before the semester starts.

### APPLYING FOR 2022

- Semester 1
  - apply by 6 December 2021
- Semester 2
  - apply by 2 May 2022

### Applying for the Master of Philosophy (MPhil) and Doctor of Philosophy (PhD)

If you are planning to enrol in a Master of Philosophy (MPhil) or Doctor of Philosophy (PhD) at AUT, email the Graduate Research School  
[doctoral.and.mphil.admissions@aut.ac.nz](mailto:doctoral.and.mphil.admissions@aut.ac.nz)

2

## COMPLETE THE APPLICATION FORM

- Apply online
- Indicate your programme(s) of choice and major (if known)

International students can also apply using an AUT approved international agent. For a list of AUT registered agents visit [aut.ac.nz/international-agents](https://aut.ac.nz/international-agents)

## SUBMIT YOUR APPLICATION

## WE ACKNOWLEDGE YOUR APPLICATION

- We will send you an acknowledgment email, which explains how to check the status of your application
- We will contact you if we need more information





3

## WE ASSESS YOUR APPLICATION

- We assess your application to ensure you have met the entry criteria for the programme(s) you are applying for
- We consider your academic history and relevant experience to ensure you can succeed in your programme
- We let you know if your application has been successful

## POSSIBLE OUTCOMES

**CONFIRMED** We would like to offer you a place to study at AUT

**PROVISIONAL** You have met some of the criteria for entry to your chosen programme of study and we would like to offer you a provisional place to study at AUT. If you don't meet the rest of the requirements, then this offer will be withdrawn

**CONDITIONAL** You have to meet the conditions and approvals listed in your conditional offer to be able to secure a formal offer of place

**DECLINED** If you don't meet the entry requirements or all places are taken, we may offer you an alternative programme

## ACCEPT YOUR OFFER

# University admission to AUT bachelor's degrees

## For New Zealand citizens and residents and international students studying in a high school in New Zealand

To gain admission to bachelor's degrees, you must have met the requirements for University Entrance plus any specified admission requirements for a programme, such as specific subjects, portfolios and interviews.

For more information on entry requirements, including entry requirements for international students, refer to the AUT Calendar or visit [aut.ac.nz/calendar](http://aut.ac.nz/calendar)

**Please note:** AUT, like all other New Zealand universities, is required to manage enrolments. This is because of government policies that restrict the number of funded places available for domestic students in tertiary education.

### Admission categories

You may be granted University Entrance under one of the following categories:

- NCEA University Entrance
- Ad Eundem Statum admission (at an equivalent level) – this includes Cambridge International Examinations (CIE) and International Baccalaureate Diploma Programme (IB)
- Discretionary Entrance
- Special Admission

## Common University Entrance requirements

STANDARD	NCEA	CIE	IB <sup>2</sup>
<b>Overall</b>	Require <b>NCEA level 3</b> certificate which consists of 80 credits, including at least 60 credits at level 3 or higher. Can include up to 20 credits at level 2. <b>Note:</b> Credits to achieve NCEA level 3 may include unit standards from non-approved subjects. <b>Subject credits</b> Total of 42 level 3 credits including: • 14 credits from one approved subject • 14 credits from a second approved subject • 14 credits from a third approved subject	A minimum of 120 points on the UCAS Tariff <sup>1</sup> at A or AS level from an approved list (equivalent to NCEA approved subject list). Must include at least three subjects (excluding Thinking Skills) with grades D or above.	IB Diploma with minimum 24 points
<b>Numeracy</b>	At least 10 level 1 (or higher) numeracy credits (can be achieved through a range of subjects)	A minimum grade of D in IGCSE <sup>3</sup> mathematics or any mathematics subject at AS or A level.	Any mathematics subject – IB Group 5
<b>Literacy</b>	Total of 10 level 2 (or higher) literacy credits including: • 5 reading credits • 5 writing credits From specific standards in a range of NZQA English language rich subjects.	A minimum grade of E in English Language and/or English Literature subject at AS or A level.	Literature or language and literature (SL or HL) – IB Group 1, with English as the language.

1. UCAS (Universities and Colleges Admissions Services for the UK) Tariff = system which converts AS and A level grades into points.

2. New Zealand residents who have taken IB but have not been awarded the Diploma may apply for discretionary entrance.

3. IGCSE = International General Certificate of Secondary Education.

Where programmes require a specific subject, it is expected that a student will have achieved a minimum of 14 NCEA credits in that subject (or equivalent), unless indicated otherwise.

### NCEA approved subjects

For a list of NCEA approved subjects for University Entrance visit the NZQA website, [nzqa.govt.nz](http://nzqa.govt.nz)

### AUT language rich subject list

Art History, Business Studies, Classical Studies, Drama, Economics, English, Geography, Health Education, History, Media Studies, Physical Education, Social Studies, Te Reo Māori, Te Reo Rangatira.



## Discretionary Entrance

Discretionary Entrance is available to applicants who have attained a high level of achievement in Year 12 and want to undertake university study.

International students can't apply for Discretionary Entrance.

### You can apply if you:

- Have not completed Year 13 in a New Zealand secondary school or have done Year 13 but not attempted to gain University Entrance
- Have not otherwise qualified for admission (or have attempted University Entrance)
- Are a domestic student (New Zealand or Australian citizen or permanent resident). If Australian, your most recent schooling must have been in New Zealand
- Are under 20 years of age on the first day of the semester in which you begin study and meet other requirements of the programme for which you apply

People who missed University Entrance in Year 13 may be considered for mid-year admission in the following year.

You can't apply for admission for Semester 1 if you studied in Year 13 after 1 June. However, you can apply for admission into Semester 2.

### Minimum academic criteria for Discretionary Entrance

- NCEA level 2 certificate endorsed with minimum of Merit or CIE/IB equivalent
- Minimum of 14 credits in each of four NCEA level 2 (or higher) subjects, at least three of which must be on the approved subject list
- Meet UE literacy and numeracy standards, or their equivalent.

The application is a two-step process. First, you indicate you want to apply through Discretionary Entrance on the standard application form. If you meet the criteria you are sent a second form in which you provide further information and a school recommendation.

The recommendation will provide proof of your maturity, motivation, capability and readiness to undertake degree-level study and also verify that you were not enrolled in Year 13 beyond 1 June in the year prior to admission. Please refer to the AUT Calendar or visit [aut.ac.nz/calendar](http://aut.ac.nz/calendar)

Please note: Applicants are considered on a case-by-case basis and must also meet other selection criteria for the programme for which they have applied. There is a non-refundable assessment fee of \$50.00.

### Admission at equivalent level (Ad Eundem Statum)

An applicant will be considered for Ad Eundem Statum admission if they:

- Have successfully gained University Entrance through CIE or IB or an approved qualification from a New Zealand secondary school of special character
- Have successfully completed a recognised foundation programme or other recognised tertiary qualification/study of at least 120 points at level 3, or at least 60 points at level 4 in one course of study and have completed Year 13 at a NZ secondary school, or equivalent.
- Have qualifications from an overseas secondary school or tertiary institution deemed by AUT to be sufficient for entry into an undergraduate degree programme.

Please note: Applicants will be required to supply an official academic transcript with their application.

### Bursary

If you sat Bursary (prior to 2004) rather than NCEA please refer to the AUT Calendar or visit [aut.ac.nz/calendar](http://aut.ac.nz/calendar)

### Special Admission

New Zealand citizens or residents who are over 20 years of age on or before the first day of semester can apply for degree-level entry through Special Admission.

## English language requirements

If you don't have English as your first language, you may have to show evidence of your English language skills.

International students studying at secondary school and applying for University Entrance must achieve UE Literacy through New Zealand secondary school qualifications NCEA, CIE or IB. IELTS can't be substituted.

In all other cases another form of English language testing is required. Minimum IELTS requirements for each programme are included on the relevant pages in this publication. For other recognised English tests and more information, visit [aut.ac.nz/englishrequirements](http://aut.ac.nz/englishrequirements)

## International students

Contact us for information regarding studying at AUT if you're not a citizen or permanent resident of New Zealand or Australia, or a citizen of the Cook Islands, Niue or Tokelau islands.

Visit [aut.ac.nz](http://aut.ac.nz) for entry requirements for specific countries.

If you have any questions, you can contact us at [aut.ac.nz/enquire](http://aut.ac.nz/enquire)

# Fees & scholarships

**Cost is an important factor when thinking about university study. This page gives you an idea of the approximate tuition fees at AUT, and different options to help you fund your education including scholarships, student loans and allowances.**

To give you an idea of approximate costs, the 2021 tuition fees are shown below (based on full-time study and completing 120 points per year). All fees are in NZ dollars and include GST. The 2022 tuition fees will be advertised on [aut.ac.nz/fees](https://aut.ac.nz/fees) as soon as they have been set.

## Domestic student tuition fees

First-time domestic students are entitled to one year of fees free.

Bachelor of Creative Technologies

Fee (per year)	Approximately \$6,786.00–\$6,886.00 <sup>1</sup>
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Doctor of Philosophy

Fee (per year)	Approximately \$6,961.00 <sup>1</sup>
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Master of Philosophy

Fee (per year)	Approximately \$6,961.00 <sup>1</sup>
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Other postgraduate programmes

Fee (per year)	Approximately \$4,403.00–\$8,807.00 <sup>1,2</sup>
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1. Part-time students pay a proportion of the fee based on the number of academic points they are studying.

2. This fees range includes 60-point (one-semester) programmes.

## International student tuition fees

Bachelor of Creative Technologies

Fee (per year)	Approximately \$34,513.00
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Doctor of Philosophy

Fee (per year)	Approximately \$6,961.00 <sup>1</sup>
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Master of Philosophy

Fee (per year)	Approximately \$38,585.00
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Other postgraduate programmes

Fee (per year)	Approximately \$17,784.00–\$35,568.00 <sup>2</sup>
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1. The fee shown is for candidates conducting the majority of their study within NZ. Where the majority of studies is conducted outside NZ an international tuition fee of \$39,201.00 will apply.

2. This fees range includes 60-point (one-semester) programmes.

## Other fees you may have to pay:

- 2021 Compulsory Student Services Fee – \$790.40 for 120 points or \$6.59 per academic point
- 2021 Building Levy – \$77.52 for 120 points or \$0.65 per academic point
- Additional fees for course materials or elective courses (check with your faculty if there are additional fees for your programme)

Please note that you have to pay your fees in full by the date specified on your fees invoice.

To find out more about fees call **+64 9 921 9779** or **0800 AUT AUT** (0800 288 288).

## Free fees for your university study

New government policy means that eligible domestic students starting tertiary education receive one year of full-time study fees-free<sup>1</sup>.

To check if you're eligible for fees-free study in 2022 visit [aut.ac.nz/fees](https://aut.ac.nz/fees)

1. Domestic students only, not available to international students.

## Scholarships and awards

Scholarships and awards are a great way to fund your university study. There is a wide range of scholarships and awards available to AUT students at all stages of their study. Visit the scholarships website for a current list of scholarships offered by AUT and external funders, as well as application forms and closing dates. You can also contact AUT's Scholarships Office for advice on scholarships, awards and the scholarship application process.

To find out more call **+64 9 921 9837** or visit [aut.ac.nz/scholarships](https://aut.ac.nz/scholarships)

## Support for scholarship students

Undergraduate scholarship students – whether the scholarship was awarded for academic endeavour or for excellence in sports, culture or leadership – have access to an extensive programme of support, including professional development and networking opportunities, and one-on-one support.

## Student loans and allowances<sup>1</sup>

If you are a full-time domestic student, you may qualify for a student loan or allowance. Student loans and allowances are administered and paid by StudyLink. The application process can take some time, so it's a good idea to apply early. You can apply for a student loan or student allowance before your enrolment at AUT is complete.

To find out more call **0800 88 99 00** or visit [studylink.govt.nz](https://studylink.govt.nz)

1. For domestic students only

## Help with planning and budgeting

We know that sometimes things happen and financial stress can impact your academic success. That's why we offer financial support that ranges from offering grocery or fuel vouchers, to helping with that unexpected bill.

## StudyLink website

Visit [studylink.govt.nz](https://studylink.govt.nz) for tools, tips and information to help you plan and understand the costs you will have while studying.



# Find out more

## AUT open day

Our open day at the City Campus will showcase everything AUT has to offer to help you make an educated decision about university study. To find out more visit [aut.ac.nz/live](https://aut.ac.nz/live)

## Visit our website

For the latest information on AUT programmes and to keep up-to-date with what's happening at AUT visit [aut.ac.nz](https://aut.ac.nz)

## Contact us online

If you have any questions about studying at AUT, you can contact us at [aut.ac.nz/enquire](https://aut.ac.nz/enquire)

## Secondary schools

If you are a secondary school teacher or career advisor, our Future Students Team can help you with any questions you may have. Contact the team on [secondary.schools@aut.ac.nz](mailto:secondary.schools@aut.ac.nz)

## Connect with us

AUT has a range of social media channels to keep our students and the general public aware of what is going on around the university.

## Connect with us now:



@FutureStudentsofAUT

## Need some guidance?

If you're still unsure what to do, or would like to check out the campus and facilities, you can contact our Future Students Team. Email [future@aut.ac.nz](mailto:future@aut.ac.nz) or call **0800 AUT AUT** (0800 288 288) to speak to one of our friendly advisors.

## Drop in and see us

### AUT Student Hub

#### City Campus

Level 2, ground entry, WA building, 55 Wellesley Street East, Auckland

#### North Campus

AS building, 90 Akoranga Drive, Northcote, Auckland

#### South Campus












MB building, 640 Great South Road, Manukau, Auckland



# Campus map



## Key

-  Student Hub
-  Student lounge & study space
-  Café
-  Library
-  Early Childhood Centre
-  Gym
-  Conference facility
-  Intercampus shuttle bus stop
-  Breast feeding and baby change room
-  Mobility parks
-  Defibrillator

## City Campus

55 Wellesley Street East  
Auckland Central







**0800 AUT AUT (0800 288 288)**

Auckland University of Technology  
Auckland, New Zealand  
[aut.ac.nz](http://aut.ac.nz)

Enquire now  
[aut.ac.nz/enquire](http://aut.ac.nz/enquire)

**CITY CAMPUS**  
55 Wellesley Street East, Auckland Central

**NORTH CAMPUS**  
90 Akoranga Drive, Northcote, Auckland

**SOUTH CAMPUS**  
640 Great South Road, Manukau, Auckland

**Connect with us now:**



@FutureStudentsofAUT