Edition 2

THE UNIVERSITY of ADELAIDE

150 YEARS

2025

STEM

- Agriculture, Food and Wine
- Animal and Veterinary Science
- Architecture
- Biomedical Science and Biotechnology
- Defence, Cyber and Space
- Energy, Mining and Resources
- Engineering
- Environment and Sustainability
- Mathematical Sciences
- Sciences
- Technology

GROUP OF EIGHT AUSTRALIA

make history.

THE UNIVERSITY of ADELAIDE

University of South Australia

Adelaide University

a new university for South Australia

We're planning for an exciting new future.

The new Adelaide University, which is targeted to open in January 2026, combines the strengths of the University of Adelaide and the University of South Australia (UniSA) to provide modern, industry-aligned education. Admissions in 2025 remain unchanged. Students transitioning to the new institution will be highly supported and graduates from 2026 will receive their degrees from Adelaide University, pending regulatory approvals.

Discover more at
adelaideuni.edu.au

THE UNIVERSITY of ADELAIDE

Why choose the University of Adelaide?

At the University of Adelaide, we unite and serve those striving to change the world—and themselves—for the better. This is a place where you can make history.

Established in 1874, we're home to over 22,700 students and 3,000 staff, all working to create progress. Ours is a university of outstanding quality—ranked 89th in the world*—in the heart of one of Australia's most liveable cities†.

Relentlessly progressive

Adelaide has always broken new ground. We were Australia's first university to welcome

Globally top-100 ranked university

Times Higher Education and QS ranking

Associated with 5 Nobel laureates

Member of the Group of Eight

A coalition of Australia's leading research-intensive universities

Produced over 110 Rhodes Scholars

171,828 alumni

female students. The first offering science and business degrees. One of the first with a conservatorium of music.

Among those who've studied, taught, or conducted research here are Australia's first: female prime minister; space-walking astronaut; Indigenous Rhodes Scholar; and female Supreme Court judge and state governor. Not to mention five Nobel Prize winners.

Exceptional research and education

As a member of Australia's prestigious Group of Eight research-intensive universities, we're rising to global challenges with research universally rated world-standard or above^.

In fact, our output is recognised as 'well above' world standard in 41 distinct areas. These range from space sciences, materials engineering and AI, to cardiorespiratory medicine, crop production and environmental science.

As a teaching university, we're ranked among the top 100 globally in 27 subject areas‡. In eight—including computer science, dentistry and civil engineering—we're top-50.

We also lead our state in graduate employability**. Our degrees combine deep discipline knowledge with broad, transferable skills, ensuring graduates are well prepared for multidimensional careers in the future workforce.

** Times Higher Education World University Rankings, 2024.*

† Economist Intelligence Unit, 2022.

^ Excellence in Research Australia, 2018 (the most recent assessment date).

‡ Total unique entries across QS World University Rankings by Subject (2023), Times Higher Education (2023), and Academic Ranking of World Universities by Subject (2022).

***QS Graduate Employability Ranking, 2022.*

Over 100 countries represented in student population

Located in the heart of the city of Adelaide

22,700+ students

74

Ranked 74 in US News Best Global Universities, 2023

89

Ranked 89 in QS World University Rankings, 2024

111

Ranked 111 in Times Higher Education World University Rankings, 2024

Your study in your time

Example study plan

See how your first year as a Bachelor of Science student (majoring in Ecology and Environmental Science) might look.

First year study plan

Semester 1			
Core courses	**Electives**		
Biology I: Molecules, Genes and Cells	Biology I: Human Perspectives	Planet Earth	Physics for the Life and Earth Sciences IA

Semester 2			
Core courses		**Electives**	
Biology I: Organisms	Ecological Issues I	Building a Habitable Planet	Physical Aspects of Nature I

Study overseas as part of your degree

adelaide.edu.au/study-overseas

Study Overseas supports students completing part of their degree overseas, with offerings including exchange programs, study tours, study abroad, practical experiences, and onshore programs to develop students' intercultural awareness. Whether it's a short 2-week study tour in China or a whole year of exchange in France, you can choose an experience that suits you.

Want to get a headstart on uni?

adelaide.edu.au/headstart

The University of Adelaide's Headstart scholarship program gives high achieving students the opportunity to study at university while still in Year 12—and have these university studies count towards their SACE and Selection Rank. Headstart provides students with an opportunity to find out what university life is like before they even finish school and the chance to grow as individuals as they combine secondary school and university studies. Headstart students may also receive credit towards their degree if they enrol in a University of Adelaide program after high school.

For further information:
Telephone: +61 8 8313 0165
Email: start@adelaide.edu.au

Campus life

This diary snapshot is only one example of how a student may choose to schedule their university study and life. Attendance at university is less structured than time spent at high school. The hours spent on campus in lectures, tutorials, practicals or in the field—known as 'contact hours'—depend on the program students enrol in, study mode selected (internal, external, online or flexible learning) and course choices.

Weekly Planner

Monday	Tuesday
10.10am Chemistry lecture 11.10am Biology lecture 12pm Meet Dan and Mia in Hub Central for lunch 1.10pm Human biology lecture 2.10pm Earth's Systems lecture 5pm Dinner with family!	9.30am Work on Biology assignment 11.00am Chemistry lecture 12.10pm Human Biology lecture 1pm Quick nibble on the Barr Smith Lawns 1.10pm Earth's Systems lecture 2.10-5pm Biology practical 7pm Film club night
Wednesday	**Thursday**
10.10am Earth's Systems tute 11am Biology lecture 12.10pm Human Biology tute 2.10-3pm Human Biology lecture 6-9pm Part-time work scheduled 5pm Meet up with tute classmates for test revision	9.30am Workout at Uni gym 11.10am Human Biology practical 12.10pm Earth's Systems practical 2.10-5pm Chemistry practical 5pm Heat up dinner in Hub Central Kitchen 7pm Hockey match, Uni oval 2
Friday	**Notes**
11.10am Biology lecture 12.10pm Chemistry lecture 1.10pm Biology tute 2pm Walk to the market for dinner 6pm Shopping in Rundle Mall 9pm Meet up with Matt at the UniBar	

We'll support you on your journey

The University offers a range of support services to help our students succeed.

Friendly staff are available to help with a range of issues, from helping students manage their studies to assisting with enquiries relating to academic or personal support. They also support students to address personal issues that may be affecting their studies, or simply help them adjust to their new life at university. In addition, doctors at our North Terrace campus Health Practice can provide students with year-round health support at a reduced fee

Ask Adelaide

adelaide.edu.au/ask-adelaide

Ask Adelaide is available to answer all general student enquiries by live chat, phone, email or in person. Services include: general enquiries and directions; enrolment support; ID cards; printing, device and WiFi setup; exams and graduation support; assistance with official letters and more.

Accommodation Services

adelaide.edu.au/accommodation

For students looking to relocate to Adelaide for their studies, our professional team of accommodation specialists are available to help (24 hours a day, 7 days per week) to provide general accommodation information, tenancy support and to apply for a place in University managed student accommodation.

Careers Services

adelaide.edu.au/student/careers

The service provides individual advice and employability workshops to help students develop career management skills; an extensive database of employment opportunities and resources known as CareerHub; and annual career-related events including the Careers Expo and employer-on-campus sessions. The service also offers expertise in locating graduate vacancies.

Women in STEM Careers program (WiSC)

set.adelaide.edu.au/women-in-stem

WiSC provides professional development opportunities for young women studying a STEM degree at the University of Adelaide.

Writing Centre

adelaide.edu.au/writingcentre

Support with writing academic English through one-on-one advice from writing mentors, workshops and comprehensive support resources.

Maths Learning Centre

adelaide.edu.au/mathslearning

Help for all students to develop mathematics skills at every level, with drop-in sessions, lectures, games and resources.

Peer Assisted Study Sessions (PASS)

adelaide.edu.au/pass

Regular extracurricular sessions led by student mentors to help students improve their grades in specific courses.

Childcare

adelaide.edu.au/childcare

Full-time and part-time care for children of students and staff is available for a fee, with locations at our North Terrace and Waite campuses.

Counselling Support

adelaide.edu.au/counselling

Support is free, confidential, and available to all enrolled students seeking to address issues that may affect their study or life.

Disability Support

adelaide.edu.au/disability

The Disability Support team provide personalised advice and assistance to students who have a diagnosed disability or ongoing medical condition, to help them identify relevant reasonable adjustments to help with their studies.

Elite Athlete Support

adelaide.edu.au/eliteathletes

Support to help elite student athletes balance their academic and sporting commitments, by providing a flexible and responsive approach to study.

Student Health and Wellbeing

adelaide.edu.au/student/wellbeing

An online resource to provide information and support to students on a range of health and wellbeing topics, campaigns and events.

Health Practice

universityhealthpractice.com.au/

Comprehensive health care is available at a reduced fee for all students and staff, with male and female doctors (GPs) offering health checks, immunisations and mental health support.

Library

adelaide.edu.au/library

One of the state's most extensive research collections, also offering quiet study spaces, and support from specialist research librarians.

Be part of our community

Attend O'Week

Come to a free on-campus event

Join a club

Volunteer

There's always plenty to see and do while you're studying at one of our campuses. O'Week is just the start—you'll discover a wide variety of events and activities are hosted throughout the year for you to enjoy.

Campus life

youx.org.au

YouX (historically the Adelaide University Union) was established by students in 1895 to enhance the student experience at the University of Adelaide. YouX hosts music, wellbeing and social events throughout the year—and supports over 160 student clubs!

Student services

- **Student Care**
  youx.org.au/support/studentcare
- **Employment**
  youx.org.au/support/employment
- **Special-interest and social clubs**
  youx.org.au/interests/clubs

Sporting clubs and facilities

- **Adelaide University Sport**
  adelaide.edu.au/sports
- **The Fitness Hub**
  adelaide.edu.au/sports/the-fitness-hub

Pathways to Adelaide

There are many ways you can gain entry into one of our degrees.

Selection rank (ATAR plus adjustment factors)

If you have qualified for the South Australian Certificate of Education (SACE) or hold an equivalent recent year 12 qualification (including the International Baccalaureate Diploma), and achieve a competitive selection rank, you can use this as a pathway into University.

You compete for a place with your Selection Rank (ATAR plus any applicable adjustment factors). For the majority of our undergraduate programs, you must not have completed more than 2 years full time equivalent university study (48 units).

Some programs take additional factors into account as well as or instead of your ATAR, such as auditions, the UCAT, oral interviews, etc. For details on your program of choice, visit Degree Finder: adelaide.edu.au/degree-finder

Guaranteed entry

Whether you complete the International Baccalaureate or achieve an ATAR through the SACE (or equivalent), Guaranteed Entry gives you certainty when applying to study at the University of Adelaide. Most of our undergraduate degrees have a fixed entry selection rank (including adjustment factors) which means, if you achieve that selection rank or higher and

meet any additional admissions criteria such as subject prerequisites, you are guaranteed entry to that degree.

Subject-based entry

Students who have not achieved a competitive Selection Rank (ATAR plus any applicable adjustment factors) required for selection may still be eligible for entry to some of our most popular degrees based on their grades in selected year 12 subjects. You don't need to apply to be considered for subject-based entry, as this will automatically be done by SATAC on behalf of the University. Note: You must have completed your SACE and achieved an ATAR to be considered. For more information, visit: adelaide.edu.au/study/undergraduate/entry-pathways/recent-secondary-education

STAT (Special Tertiary Admissions Test)

Never completed year 12 or any other higher education? You may wish to use the Special Tertiary Admissions Test (STAT) to gain entry to University. The STAT is a two-hour, multiple-choice test designed to assess a range of skills and knowledge needed to study at university.

The Australian Council for Educational Research (ACER) coordinates the STAT. To sit the test, you'll need to be over 18 years old before 1 February in the year that you wish to commence study. If you have been enrolled in the last two years, you must not have done more than two years (full-time) tertiary study in total. For more information, visit: stat.acer.org/au

Higher ed GPA (Grade Point Average)

If you already have completed at least six months (full-time) of a recognised higher education program at a recognised higher education institution, you can use your Grade Point Average (GPA) to gain entry to the University of Adelaide.

Internal transfer

Perhaps you gained entry to a degree that was not your first preference or, after completing a few courses, have changed your mind about what you'd like to study. You can use your GPA (or any eligible previous qualifications) to apply for what is called an internal transfer. This is an option available to students who may have already started studying in one degree and, for a range of different reasons, would like to transfer into another degree at the same university. Please note that not all degrees are available via internal transfer. If unsure, you can always reach out to our friendly student advisors for assistance.

VET Studies (Certificate IV or higher)

Have you completed a TAFE or VET qualification at a certificate IV or higher? Your completed qualification can gain you entry to many of our degrees.

For students that have studied at either TAFE SA or other Registered Training Organisations (RTOs), most Certificate IV Courses (including former Advanced Certificates or equivalent) meet the minimum entry requirements for a wide range of our undergraduate degrees. In some instances, a successfully completed Diploma or Advanced Diploma will be required to meet the minimum entry requirements.

Steps to success

Ready to make history? Your journey starts here.

Step 1

Explore your study options

Researching your study options is an important first step, and there are many different tools and resources available to help you. You could start by reading through this booklet or heading online to explore our Degree Finder website.

Attending an Open Day is another great way to get a feel for what university life is like, talk to lecturers and current students, and learn about the range of services available to support you during your university studies. You could also book a time to chat with one of our friendly advisors to ask any specific questions you may have.

Helpful tip: *We've developed a range of useful resources to help you throughout your Year 12 studies including: workshops, study resources, revision courses and more. See the helpful links section below for more information.*

Step 2

Check you meet the eligibility and entry requirements

All degrees have entry requirements—these are specific criteria you have to meet in order to be eligible for entry into a degree. Each degree will have different entry requirements, so it's important to find out what these are for your chosen degree and make sure you can meet them.

Entry requirements can include things like:

- prerequisites you will need to complete either during your high school (SACE/IB) studies, bridging courses or approved alternatives.
- assumed knowledge subjects that, while not essential for admission into a degree, will help prepare you for many of the topics you'll come across during your degree.
- non-standard entry requirements, such as: attending an interview, undertaking additional assessments (e.g. the UCAT ANZ), performing an audition, submitting a written statement or creative portfolio.

Step 3

Apply via SATAC

Applications open in early August for study starting in the following year. You can apply for your chosen degree/s through the SATAC website.

Before you apply, it's a good idea to familiarise yourself with the application process. This includes things like key dates and deadlines for applications, as well as SATAC fees and charges and when to pay.

For more information, visit the SATAC website.

Please note: *for certain degrees that have non-standard entry requirements—such as medicine, dentistry, oral health, veterinary bioscience—key dates and deadlines for applications may differ. For the most up-to-date information, visit Degree Finder.*

Useful links

Academic year dates
adelaide.edu.au/student/dates/academic

Academic support
adelaide.edu.au/student/academic-skills/

Chat with an advisor
future.ask.adelaide.edu.au/#contact-us

Degree Finder
adelaide.edu.au/degree-finder

Resources for Year 12
adelaide.edu.au/schools/resources-for-year-12s

SATAC
satac.edu.au

Scholarships
adelaide.edu.au/scholarships

Student support services
adelaide.edu.au/student/life/

Step 4

Keep your preferences up to date

As part of your SATAC application, you'll be asked to list up to six preferences—these are the six degrees you are most interested in studying. SATAC makes offers by working down your preference list, so it's important to make sure your first preference is the degree you want to study most.

If you change your mind after you've submitted your application, don't worry.

SATAC allows you to check and change your preferences as many times as you want before the cut-off date for your specific offer round. For a list of key dates, visit SATAC's website.

Helpful tip: *Be sure to include some 'back up' options on your application. If you need support in choosing the best back up options or pathways into your dream degree, get in contact with our friendly future student advisors.*

Step 5

Check your offer

SATAC run several smaller offer rounds, one main offer round, then continue to make offers in the lead up to the start of the study period you applied for. SATAC makes offers for the highest preference you are eligible for. This means the degree you most want to study should be your first preference. Remember to check all email folders—including your Spam folder—for your offer.

Helpful tip: *Didn't receive an offer for your first preference? Don't stress—you'll still be considered for future rounds!*

Step 6

Accept your offer

An offer email will be sent to the email address you provided on your SATAC application. If you have received an offer you don't need to respond, as SATAC will accept the offer on your behalf. If you would like to defer your offer until the following year, you will need to log in to your application through the SATAC website and change the response to the 'Defer' option.

If the offer you received was for a degree that is not your first preference, SATAC will accept the offer but note that you would still like to be considered for an offer to your higher preference(s).

Step 7

Welcome to the University of Adelaide!

After accepting your offer, we'll send you an email outlining important information to help you get started at University, including your new University ID number.

At this stage, you can start to plan your timetable, enrol, attend orientation activities, and begin your university journey!

Welcome to the University of Adelaide!

Our facilities

Learn in state-of-the-art facilities

With modern infrastructure and an innovative culture, the University of Adelaide has all the ingredients to help you succeed throughout the duration of your studies.

Whatever your area of study, you'll have access to a wide range of state-of-the-art facilities and services—across our various campuses—all designed to support your academic success.

Extraterrestrial Environmental Simulation Laboratory (EXTERRES)

Designed to simulate off-Earth environments, our EXTERRES facility provides a range of services to support the design, testing and development of technologies and processes destined for the lunar and Martian surface. Science and engineering students can utilise the space to learn and innovate in a representative physical and virtual environment, connecting with world leading engineering and technology—including two rover testing pits, two Regolith Thermal Vacuum Chambers (RTVACs) and a regolith processing zone. The laboratory also houses the most complete off world regolith simulant library available in the southern hemisphere.

Hickinbotham Roseworthy Wine Science Laboratory

Built to standard commercial winery size and specification—and the largest teaching winery in Australia—our winery offers unique capabilities and a range of winemaking tools. Operational since the early-1990s, 70% of Australia's wine research and development is conducted through small-scale, proof-of-concept winemaking trials at Waite.

Innovation Studios and 3D Prototyping Lab

Our Innovation Studios are fully-equipped workshops where students can develop ideas, manufacture components and produce prototypes for projects. Our 3D prototyping lab houses 'Big Rep', the largest 3D printer of its kind in the southern hemisphere. Big Rep can print using a carbon-filled PLA to produce stronger parts, and students can check their projects' progress remotely.

Our study areas

Do you feel sure of where your career interests lie, but unclear about which degrees can help you get your start? Then this section's for you.

In the following pages you'll find:

Brief descriptions of broad career and study areas that you can pursue at the University of Adelaide, arranged in alphabetical order.

Some of the key reasons why our University is one of the best places in the world to study in those fields.

Listings of all the relevant degrees we offer in each area, along with page-number references so you can quickly turn to their full descriptions.

70% of all wine research in Australia is conducted at our Waite campus.

Agriculture, food and wine

Learn how to sustainably feed the world in the face of a changing climate, using leading-edge techniques and technology.

Ranked #72 globally for Agriculture and Forestry*

Australia's largest teaching winery

Food Innovation Laboratory

A truly world-class study environment

The majority of the University of Adelaide's agriculture, food and wine degrees are taught at our Waite campus - the largest agricultural teaching and research precinct in the Southern Hemisphere, and third largest in the world. The campus is also renowned for:

- generating 70% of all wine research conducted in Australia
- operating Australia's largest commercial-grade teaching winery
- industry-standard teaching and research Food Innovation Laboratory.

Comprehensive future-focused learning

The knowledge and skills you'll acquire from our agriculture, food and wine degrees are highly informed by industry needs - current, emerging and predicted. Depending on your chosen degree, you could:

- build practical, hands-on skills through multiple internships with industry partners
- learn how to design, formulate, produce, package and market food or wine under real industry conditions
- get experience designing and using industry-transforming technology, like drones, advanced sensing equipment, and electronic apps.

Career prospects

The agriculture, forestry and horticulture industry will see a 10.6% increase in employment by 2026‡.

** QS World University Rankings by Subject, 2023.*

‡ Australian Government, Labour Market Insights, 2023.

Degrees

Undergraduate

- Bachelor of Agricultural Sciences
- Bachelor of Food and Nutrition Science
- Bachelor of Food and Nutrition Science (Honours)
- Bachelor of Science
- Bachelor of Science (Advanced)
- Bachelor of Science (Animal Science)
- Bachelor of Viticulture and Oenology

Postgraduate coursework

- Master of Food and Nutrition Science
- Master of Global Food and Nutrition Science
- Master of Viticulture and Oenology
- Master of Wine Business

Only University in South Australia offering a degree in Veterinary Bioscience.

Animal and veterinary sciences

Turn your passion for animals into a rewarding career working with them, whether production animals, wildlife, pets or marine life.

19% industry growth predicted by 2026*

Ranked in top 51-70 globally in Veterinary Sciences^

Rated five stars for student support†

Premium quality, personal attention

Our animal and veterinary sciences degrees are among the world's best, as indicated by our Veterinary Sciences and Marine Sciences programs' global rankings—top-70 and top-100 respectively^.

You'll join a tight-knit community of high-calibre students in the School of Animal and Veterinary Sciences—the only one of its kind in South Australia. Our educators use real-world experience and practical training in their teaching, with many currently practicing in the veterinary industry.

Learn in stunning, multimillion-dollar facilities

Our animal and veterinary sciences degrees place a strong emphasis on practical, hands-on experience.

Naturally, this includes time spent honing skills externally in real-world industry settings—including on farms, in intensive production facilities, and out in the field. But the exceptional quality of our own facilities ensures you'll also have continual opportunities to master your craft on campus. These state-of-the-art facilities include our:

- $37M Veterinary Health Centre which services small animals, horses, farm animals and herds
- fully functional livestock farm with cattle, sheep, horses, alpacas, pigs and chickens
- 1600 hectare commercial farm
- $12M Equine Health Centre.

Career prospects

Employment growth ranges from moderate to very strong for professionals working with animals, including veterinarians and veterinary technologists, animal behaviourists, marine biologists and wildlife conservation biologists*.

** Australian Government, Labour Market Insights, 2023.*

^ QS World University Rankings by Subject, 2023

† Good Universities Guide, 2022-23 (Postgraduate Veterinary Science)

Degrees

Undergraduate

- Bachelor of Agricultural Sciences
- Bachelor of Marine and Wildlife Conservation
- Bachelor of Science (Animal Behaviour)
- Bachelor of Science (Animal Science)
- Bachelor of Science (Veterinary Bioscience)
- Bachelor of Veterinary Technology

Postgraduate coursework

- Doctor of Veterinary Medicine

Architecture

Enhance lives by creating dwellings, buildings, landscape spaces and/or major structures that deliver function, beauty and sustainability.

Employment for Architects and Landscape Architects projected to grow 17% by 2026*

Rated five stars for student support^

04

Four professional accreditations†

State-of-the-art technology

Studying architecture, landscape architecture or construction management at the University of Adelaide will ensure you're highly proficient in the use of all critical technologies driving those industries. The cutting-edge facilities you'll have access to include:

- computer-aided architectural design (CAAD) studios
- a model-making laboratory with laser and foam cutters
- 3D scanners/digitisers and modelling systems
- BIM (building information modelling)
- 3D printers.

Quality defined by experience

Many forms of 'experience' will come together during your time with us to ensure that you gain an education—and contemporary, real-world skills—of the highest calibre:

- You'll learn from practising, highly experienced and award-winning industry professionals.
- Your teachers themselves will draw from - and pass on to you - educational insights gained from our proud history of 60-plus years of experience in architectural training.
- You will have the opportunity to travel interstate and overseas as part of your degree to observe and study outstanding structures first-hand.
- And you'll have multiple opportunities throughout your studies to hone your developing skills on real-world projects, including through industry internships.

Career prospects

Employment growth for architects, landscape architects, construction managers and architectural engineers ranges from strong to very strong*.

Please note, however, that if you aspire to become a registered architect or landscape architect, you'll need to complete additional postgraduate study. Our Master of Architecture and Master of Landscape Architecture satisfy this requirement.

** Australian Government, Labour Market Insights, 2023.*

^ Good Universities Guide, 2022-23 (Undergraduate architecture)

† Australian Institute of Architects; Australian Institute of Landscape Architects; Architectural Practice Board of South Australia; Royal Institution of Chartered Surveyors.

Degrees

Undergraduate

- Bachelor of Architectural Design
- Bachelor of Construction Management
- Bachelor of Construction Management (Honours)
- Bachelor of Engineering (Honours) (Architectural and Structural)

Postgraduate coursework

- Master of Architecture with Master of Landscape Architecture
- Master of Architecture by coursework
- Master of Construction Management
- Master of Landscape Architecture
- Master of Property

Biomedical science and biotechnology

Combining science, engineering and technology, biomedical scientists and biotechnologists create new ways to feed, fuel and heal the world.

Ranked #92 globally for Life Sciences and Medicine*

Australian biotechnology sector has grown by 43% since 2019^

Rated five stars for student support†

Access incredible facilities and expertise

Studying biomedical science and/or biotechnology at the University of Adelaide will give you access to world-leading technology and subject matter experts, including Australia's first CRISPR genome editing facility—which is helping our researchers understand the pathology of genetic diseases and disorders, such as muscular dystrophy and epilepsy.

- Australia's first CRISPR genome editing facility, which is helping our researchers understand the pathology of genetic diseases and disorders, such as muscular dystrophy and epilepsy
- the Australian Institute for Machine Learning, recognised as a world leader in medical machine learning.

Be surrounded by world-class research

The University's biological sciences research has been rated world standard or above in the Australian Government's last four consecutive Excellence in Research for Australia assessments**.

This means you'll have the opportunity to learn from—and potentially be involved in—explorations at the forefront of discovery. This could include, for example:

- vaccine and pharmaceutical development
- 3D bioprinting innovations
- AI-assisted microbiological diagnosis.

Career prospects

Employment growth for roles in biomedical science and biotechnology ranges from moderate to strong^^.

** QS World University Rankings by Subject, 2023*

^ AusBioTech, 2022

† Good Universities Guide, 2023 (Postgraduate Sciences)

*** Excellence in Research for Australia, Australian Government, 2018*

^^ Australian Government, Labour Market Insights, 2023.

Degrees

Undergraduate

- Bachelor of Biotechnology
- Bachelor of Biotechnology (Honours)
- Bachelor of Engineering (Honours) (Electrical and Electronic)
- Bachelor of Engineering (Honours) (Mechanical)
- Bachelor of Science
- Bachelor of Science (Advanced)
- Bachelor of Science (Biomedical Science)

Postgraduate coursework

- Master of Biopharmaceutical Engineering
- Master of Biotechnology (Biomedical)
- Master of Biotechnology (Biomedical) (Advanced)

Ranked #7 in the world for Artificial Intelligence*

Defence, cyber and space

Work in the defence, cyber and space industries offers a highly rewarding blend of challenge, discovery and purpose.

07

Ranked #7 globally for Artificial Intelligence*

Ranked in top 75 globally for Automation and Control^

Australian Space Agency to generate 20,000 jobs by 2030†

An incredibly industry-connected environment

The University of Adelaide provides one of the most stimulating environments in the world for study related to the defence, cyber or space industries. Our main city campus stands literally next door to Lot Fourteen, Adelaide's thriving innovation and technology precinct, which includes:

- Our University's own world-leading Australian Institute of Machine Learning (AIML), the largest machine learning research centre in Australia
- The Australian Cyber Collaboration Centre (A3C), in which we collaborate with the Australian Government's Defence Science and Technology group and others
- The Australian Space Agency, Space Discovery Centre, and Mission Control Centre.

Other organisations with a Lot Fourteen presence include Microsoft Azure Space, Amazon, Inovor Technology, and the Massachusetts Institute of Technology (MIT) big data Living Lab—all of whom AIML partners with in ongoing real-world research.

Huge range of degrees to choose from

Making the most of this remarkable environment, we offer a wide range of degrees to start you on your path in the defence, cyber or space industries. These range from data analytics, computer science and information technology programs, to engineering, space science and astrophysics, and mathematical sciences. We also offer South Australia's only specialist aerospace engineering degree. And whatever direction you choose, you'll have multiple opportunities to gain practical experience through workplace projects and internships.

Career prospects

Employment growth for the majority of defence, cyber and space roles range broadly from stable to very strong**.

Additionally, Adelaide holds the highest share of Australia's overall civil space pipeline and, as such, our city is home to one of the highest concentrations of space and defence-related organisations in the country‡.

** US News Best Global Universities Rankings, 2022-23.*

^ Academic Ranking of World Universities by Subject, 2023.

† Australian Space Agency, 2021

*** Australian Government, Labour Market Insights, 2023.*

‡ Invest SA, 2023.

Degrees

Undergraduate

- Bachelor of Applied Data Analytics
- Bachelor of Computer Science
- Bachelor of Computer Science (Advanced)
- Bachelor of Engineering (Honours) (Civil)
- Bachelor of Engineering (Honours) (Electrical and Electronic)
- Bachelor of Engineering (Honours) (Mechanical)
- Bachelor of Engineering (Honours) (Software)
- Bachelor of Information Technology
- Bachelor of Mathematical Sciences
- Bachelor of Mathematical Sciences (Advanced)
- Bachelor of Mathematical Sciences (Honours)
- Bachelor of Mathematical and Computer Sciences
- Bachelor of Science
- Bachelor of Science (Advanced)
- Bachelor of Science (High Performance Computational Physics) (Honours)
- Bachelor of Science (Space Science and Astrophysics)

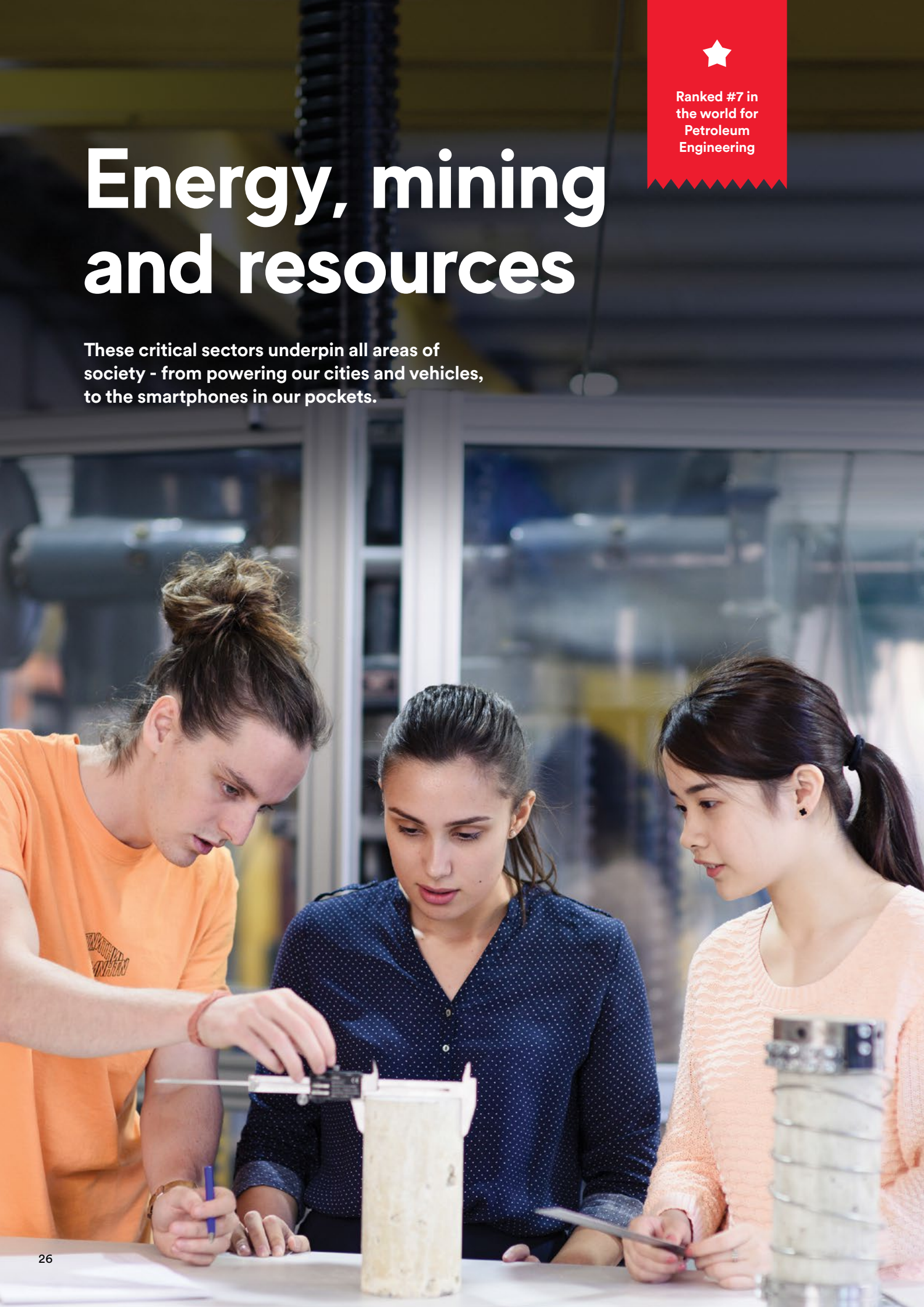
Postgraduate coursework

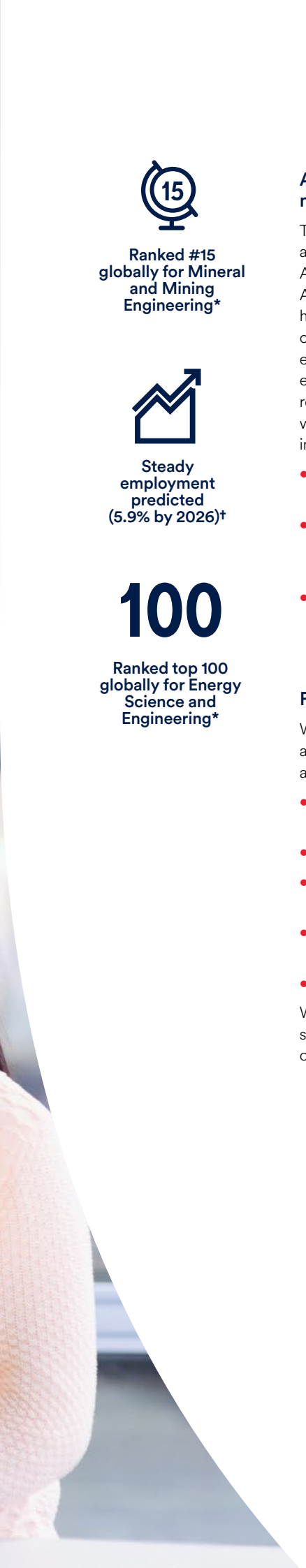
- Master of Artificial Intelligence and Machine Learning
- Master of Computer Science
- Master of Computing and Innovation
- Master of Cyber Security
- Master of Data Science
- Master of Engineering (Aerospace)
- Master of Engineering (Chemical)
- Master of Engineering (Civil and Environmental)
- Master of Engineering (Civil and Structural)
- Master of Engineering (Electrical)
- Master of Engineering (Electronic)
- Master of Engineering (Mechanical)
- Master of Engineering (Mechatronic)
- Master of Engineering (Mining)
- Master of Maritime Engineering
- Master of Materials

Ranked #7 in the world for Petroleum Engineering

Energy, mining and resources

These critical sectors underpin all areas of society - from powering our cities and vehicles, to the smartphones in our pockets.





Ranked #15 globally for Mineral and Mining Engineering*

Steady employment predicted (5.9% by 2026)†

100

Ranked top 100 globally for Energy Science and Engineering*

Australia's only university teaching mine automation

Through our Institute for Sustainability, Energy and Resources, the University of Adelaide has led Australia in the development of fully integrated, AI-driven resource value chains. We're helping many energy, mining and resources companies incorporate or enhance self-learning extraction-and-processing control systems to extract greater value from increasingly complex resources - faster, safer and at lower cost. And we can pass that knowledge on to you. Our recent industry experience includes collaborating with:

- BHP, OZ Minerals and others on mining and processing control platforms
- Boart Longyear, a global drilling giant, to allow generation of geological information in close to real time, directly at the drill site
- Orica, an Australia-based multinational commercial explosives and blasting systems specialist, to apply digitally integrated AI to their blast mode.

Full-spectrum energy expertise

We also have significant, proven expertise in all areas of the energy sector, with experience advising on - and leading - projects relating to:

- optimal power system and resources planning, modelling and operation
- renewable energy generation and hybrid systems
- energy storage, including advanced batteries and underground hydrogen
- critical minerals, advanced energy materials and catalysts
- microgrids and electric vehicles infrastructure.

We're highly capable in the areas of environmental sustainability and social licence. And again, we can pass on all this knowledge to you.

Career prospects

Employment growth for the majority of energy, mining and resources roles range broadly from moderate to very strong, with the industry projected to grow by up to 5.9% by 2026†.

^ QS World University Rankings by Subject, 2023.

** Academic Ranking of World Universities by Subject, 2023.*

† Australian Government, Labour Market Insights, 2023.

Degrees

Undergraduate

- Bachelor of Engineering (Honours)(Chemical)
- Bachelor of Engineering (Honours) (Civil)
- Bachelor of Engineering (Honours) (Electrical and Electronic)
- Bachelor of Engineering (Honours) (Environmental and Climate Solutions)
- Bachelor of Engineering (Honours) (Mining)
- Bachelor of Engineering (Honours)(Petroleum)
- Bachelor of Engineering (Honours) (Petroleum) with major
- Bachelor of Science
- Bachelor of Science (Advanced)
- Bachelor of Science (Mineral Geoscience)

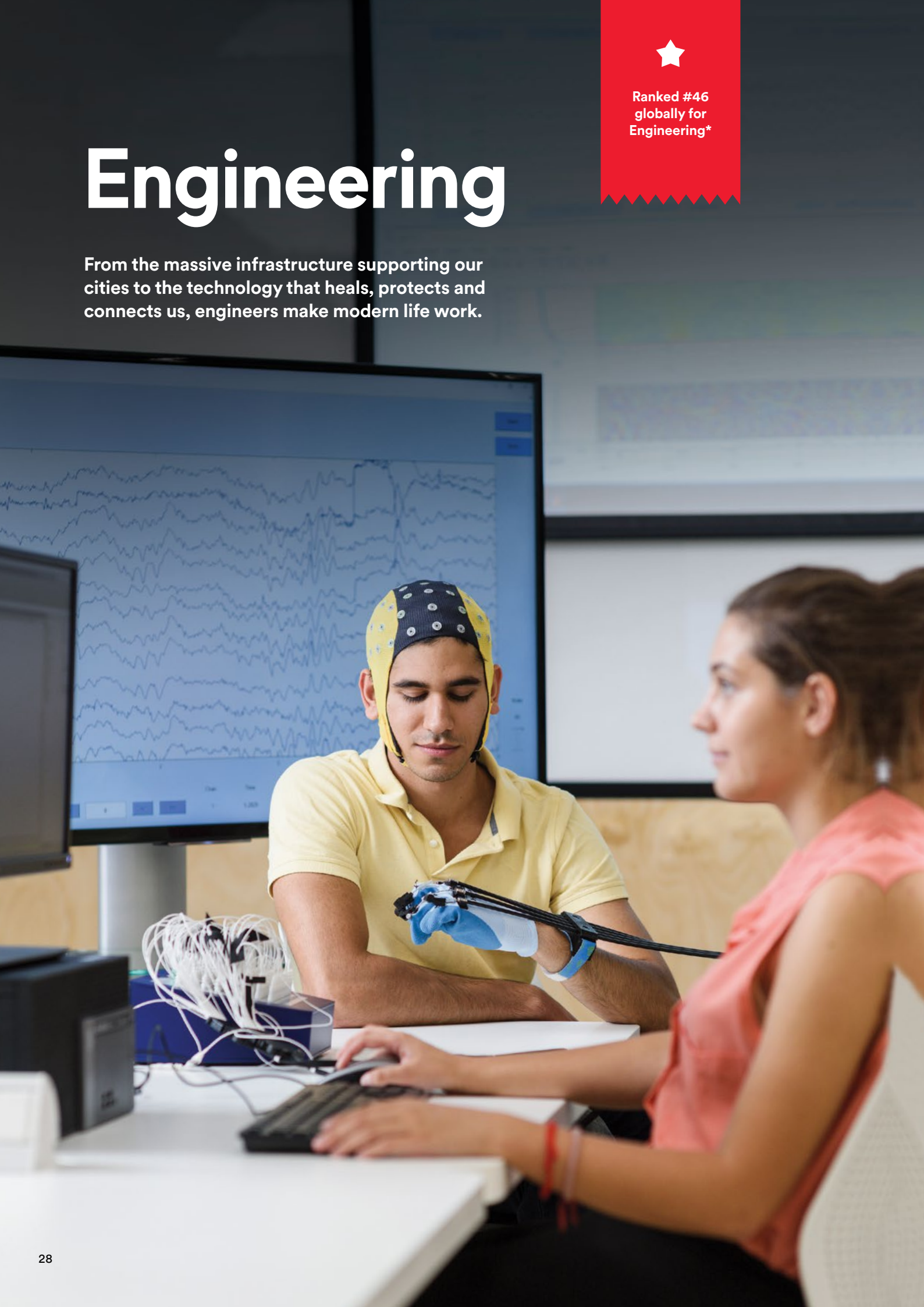
Postgraduate coursework

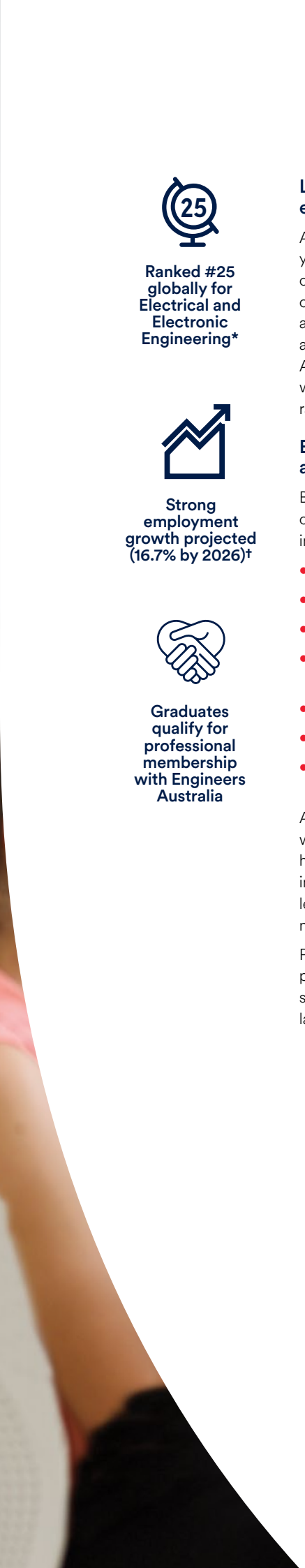
- Master of Engineering (Aerospace)
- Master of Engineering (Chemical)
- Master of Engineering (Civil and Environmental)
- Master of Engineering (Civil and Structural)
- Master of Engineering (Electrical)
- Master of Engineering (Electronic)
- Master of Engineering (Mechanical)
- Master of Engineering (Mechatronic)
- Master of Engineering (Mining)
- Master of Materials Engineering
- Master of Petroleum

Ranked #46 globally for Engineering*

Engineering

From the massive infrastructure supporting our cities to the technology that heals, protects and connects us, engineers make modern life work.





Ranked #25 globally for Electrical and Electronic Engineering*

Strong employment growth projected (16.7% by 2026)†

Graduates qualify for professional membership with Engineers Australia

Learn with a global engineering powerhouse

As a University of Adelaide engineering student you'll be part of an incredibly high-achieving community. The overall quality of our broad suite of engineering programs is recognised as being among the top 50 in the world*. And we've achieved a similar level of global recognition from Academic Ranking of World Universities (2023), with no fewer than four individual disciplines ranked among the top 75 globally^.

Enjoy incredible facilities and opportunities

Based at our main campus in the heart of the city, our engineering facilities are state-of-the-art, and include our:

- Collaborative Design Facility
- Creation and Fabrication studios
- 3D Prototyping Lab
- Control, Automation, Robotics and Mechatronics Lab
- Chemistry and Pharmaceutical engineering labs
- Acoustic and Vibrations labs.
- Extraterrestrial Environmental Simulation (EXTERRES) laboratory.

Additionally, our deep industry connections will link you to the professional world. You'll have exciting internship opportunities; key industry figures will guide in-class projects; and leading employers will join you on campus for networking events.

Plus, in your final year, you'll complete a major project relevant to your specialisation to showcase at Ingenuity—South Australia's largest STEM expo.

Career prospects

Graduates of our Engineering programs qualify for professional membership with Engineers Australia: (engineersaustralia.org.au)—the peak body for engineering in Australia, and whose mutual recognition agreements with reciprocal organisations overseas ensure your qualifications can be recognised wherever your career takes you.

Employment growth for the majority of engineering roles ranges broadly from stable to very strong†, with STEM jobs predicted to grow nearly twice as fast as other occupations‡.

** US News Rankings of Best Global Universities by Subject, 2023*

^ Academic Ranking of World Universities by Subject (Automation & Control; Computer Science & Engineering; Water Resources; Mineral & Mining Engineering), 2023

† Australian Government, Labour Market Insights, 2023.

‡ Department of Employment and Workplace Relations, Australian Government, 2020

Degrees

Undergraduate

- Diploma in Engineering
- Bachelor of Construction Management
- Bachelor of Engineering (Honours) (Architectural and Structural)
- Bachelor of Engineering (Honours) (Electrical and Electronic)
- Bachelor of Engineering (Honours) (Environmental and Climate Solutions)
- Bachelor of Engineering (Honours) (Chemical)
- Bachelor of Engineering (Honours) (Civil)
- Bachelor of Engineering (Honours) (Mechanical)
- Bachelor of Engineering (Honours) (Mining)
- Bachelor of Engineering (Honours) (Petroleum)
- Bachelor of Engineering (Honours) (Petroleum) with major
- Bachelor of Engineering (Honours) (Software)

Postgraduate coursework

- Master of Biopharmaceutical Engineering
- Master of Engineering (Aerospace)
- Master of Engineering (Chemical)
- Master of Engineering (Civil and Environmental)
- Master of Engineering (Civil and Structural)
- Master of Engineering (Electrical)
- Master of Engineering (Electronic)
- Master of Engineering (Mechanical)
- Master of Engineering (Mechatronic)
- Master of Engineering (Mining)
- Master of Maritime Engineering
- Master of Materials Engineering
- Master of Petroleum Engineering

Environment and sustainability

Environment and sustainability professionals work to preserve planetary health, tackle climate change and secure water and energy supplies.

Ranked #50 globally for Water Resources Engineering*

Ranked top-100 globally for Earth and Marine Sciences^

100

Ranked top-100 globally for Geology^

Master environmental management at all scales

The University of Adelaide is internationally renowned for its capability in all scales of spatial imaging and environmental management, from unmanned aircraft to satellites and spatial big data analysis.

Here you'll learn how to use advanced technology such as remote sensing, geographic information systems, ecological modelling tools and multi-objective decision support systems to understand and manage any environment - natural or managed, land-based, aquatic or marine.

Protect our most precious resource

We're also widely recognised for our multidisciplinary expertise in water systems management. Our world-leading researchers are highly experienced in developing bespoke technology and scientific solutions to optimise—both environmentally and commercially—water use, supply and treatment. Immersed in this learning environment, you could build valuable knowledge and skills in:

- water supply and distribution system planning, design and operation
- rainfall runoff modelling
- river health prediction and management
- predicting, modelling and testing water demand, quality and availability
- soil settlement prediction and microbiology studies
- wastewater treatment and contaminant removal
- environmental remediation.

Career prospects

Employment growth for the majority of environment- and sustainability-related roles ranges broadly from stable to very strong†, with STEM jobs predicted to grow nearly twice as fast as other occupations**.

** Academic Ranking of World Universities by Subject, 2023*

^ QS World University Rankings by Subject, 2023

† Australian Government, Labour Market Insights, 2023.

*** Department of Employment and Workplace Relations, Australian Government, 2020*

Degrees

Undergraduate

- Bachelor of Architectural Design
- Bachelor of Construction Management
- Bachelor of Construction Management (Honours)
- Bachelor of Engineering (Honours) (Architectural and Structural)
- Bachelor of Engineering (Honours) (Chemical)
- Bachelor of Engineering (Honours) (Civil)
- Bachelor of Engineering (Honours) (Electrical and Electronic)
- Bachelor of Engineering (Honours) (Environmental and Climate Solutions)
- Bachelor of Engineering (Honours) (Mechanical)
- Bachelor of Environmental Policy and Management
- Bachelor of Marine and Wildlife Conservation
- Bachelor of Science
- Bachelor of Science (Advanced)
- Bachelor of Science (Mineral Geoscience)

Postgraduate coursework

- Master of Architecture with Master of Landscape Architecture
- Master of Architecture by coursework
- Master of Construction Management
- Master of Engineering (Aerospace)
- Master of Engineering (Chemical)
- Master of Engineering (Civil and Environmental)
- Master of Engineering (Civil and Structural)
- Master of Engineering (Electrical)
- Master of Engineering (Electronic)
- Master of Engineering (Mechanical)
- Master of Engineering (Mechatronic)
- Master of Environmental Policy and Management
- Master of Landscape Architecture
- Master of Property

Mathematical sciences

Mathematical scientists drive progress in everything from biomedical research and finance to cybersecurity, animation and space travel.

125

Ranked top-125 globally for Mathematics*

Research 'well above world standard' in Pure and Applied Mathematics^

Research 'well above world standard' in Statistics^

Gain skills in global demand

The University of Adelaide's mathematical sciences degrees are renowned for providing outstanding training in rigour and logical thinking. You'll graduate with exceptional problem-solving and research skills, making you highly sought-after by employers in a wide range of fields. These include:

- engineering and technology
- pharmaceuticals
- telecommunications
- banking, finance and insurance
- meteorology
- scientific research
- video game development
- teaching.

Home to world-leading research

The knowledge and experience of our researchers provides the foundation of our teaching and is only further highlighted by our long, distinguished history of achievement in research and education.

We have an exceptional track record in attracting research funding, and several of our academics hold prestigious Australian Research Council research fellowships. We are also home to the Adelaide node of the Australian Centre of Excellence for Mathematical and Statistical Frontiers: acems.org.au/home.

As a result, our students have the opportunity to work on cutting-edge projects with leading senior researchers in an inspiring and nurturing environment.

Career prospects

With a reputation for providing a stimulating and supportive learning environment, we prepare students for rewarding careers through majors in Applied Mathematics, Pure Mathematics and Statistics.

Our graduates have secured high-level jobs with many leading organisations, such as Australia's: Commonwealth Scientific and Industrial Research Organisation (CSIRO); Defence Science and Technology Group (DSTG); Bureau of Meteorology; and Bureau of Statistics.

Employment growth for the majority of mathematical sciences-related roles ranges broadly from moderate to very strong†, with STEM jobs predicted to grow nearly twice as fast as other occupations††.

** Times Higher Education World University Rankings by Subject (Life Sciences), 2024.*

^ Excellence in Research for Australia, 2018.

† Australian Government, Labour Market Insights, 2023.

†† Department of Employment and Workplace Relations, Australian Government, 2020

Degrees

Undergraduate

- Bachelor of Applied Data Analytics
- Bachelor of Information Technology
- Bachelor of Mathematical Sciences
- Bachelor of Mathematical Sciences (Honours)
- Bachelor of Mathematical Sciences (Advanced)
- Bachelor of Mathematical and Computer Sciences
- Bachelor of Teaching (Secondary) with Bachelor of Mathematical and Computer Sciences

Postgraduate coursework

- Master of Artificial Intelligence and Machine Learning
- Master of Computer and Innovation
- Master of Cyber Security
- Master of Data Science
- Master of Mathematical Sciences

Sciences

Scientists tackle the world's biggest challenges, such as extending life, ending world hunger, and fighting climate change.

Ranked #45 globally for Physical Chemistry*

92

Ranked #92 globally for Life Sciences**

Producing scientific research 'well above world standard'†

Surround yourself with science excellence

As a University of Adelaide science student, you'll be part of an incredibly high-achieving community. The overall quality of our broad suite of Life Sciences and Natural Sciences programs is ranked #92 and #137 in the world respectively**, while in individual disciplines, we're:

- #45 globally in Physical Chemistry*
- #74 in Physics*
- #51-70 in Veterinary Science**
- top 100 in Geology, Earth and Marine Sciences**

Fantastic facilities and flexible skills

Regardless of your chosen scientific discipline, you'll have the opportunity to learn and gain practical, hands-on experience—in truly world-class facilities.

It could be our state-of-the-art veterinary hospital; the largest teaching winery in Australia; or the third largest agricultural research precinct in the world. Perhaps you'll make use of our in-house supercomputer for lightning-fast data analysis.

For flexibility in your degree, our Bachelor of Science degree has 13 majors that you can choose from.

Whatever your path, you'll graduate with highly sought-after and transferable skills in communication, critical thinking and creative problem solving, ready to tackle the world's greatest challenges.

Career prospects

Employment growth for the majority of science-related roles range from stable to very strong††, with STEM jobs predicted to grow nearly twice as fast as other occupations‡.

** US News Best Global Universities Rankings by Subject, 2023*

*** QS World Universities by Subject, 2023*

† Excellence in Research for Australia, 2018 (Agricultural and Veterinary Sciences, Chemical Sciences, Earth Sciences, Physical Sciences)

†† Australian Government, Labour Market Insights, 2023.

‡ Department of Employment and Workplace Relations, Australian Government, 2020

Degrees

Undergraduate

- Bachelor of Agricultural Sciences
- Bachelor of Applied Data Analytics
- Bachelor of Biotechnology
- Bachelor of Biotechnology (Honours)
- Bachelor of Food and Nutrition Science
- Bachelor of Food and Nutrition Science (Honours)
- Bachelor of Marine and Wildlife Conservation
- Bachelor of Science
- Bachelor of Science (Honours)
- Bachelor of Science (Advanced)
- Bachelor of Science (Advanced) (Honours)
- Bachelor of Science (Animal Behaviour)
- Bachelor of Science (Animal Science)
- Bachelor of Science (Biomedical Science)
- Bachelor of Science (High Performance Computational Physics) (Honours)
- Bachelor of Science (Mineral Geoscience)
- Bachelor of Science (Space Science and Astrophysics)
- Bachelor of Science (Veterinary Bioscience)
- Bachelor of Teaching (Secondary) with Bachelor of Science
- Bachelor of Veterinary Technology
- Bachelor of Viticulture and Oenology

Postgraduate coursework

- Doctor of Veterinary Medicine
- Master of Biostatistics
- Master of Biotechnology (Biomedical)
- Master of Biotechnology (Biomedical) (Advanced)
- Master of Global Food and Nutrition Science
- Master of Medical Radiation Physics
- Master of Viticulture and Oenology

Technology

Gain the knowledge and skills to create and apply technology that changes people's lives, and our planet, for the better.

Home to AIML, the largest machine learning research centre in Australia.

07

Ranked #7 globally for Artificial Intelligence*

Ranked #41 globally for Computer Science*

Five-star rating for graduate salary^

An incredibly industry-connected environment

The University of Adelaide provides one of the most stimulating environments in the world for technology-related study. Our main city campus stands literally next door to Lot Fourteen, Adelaide's thriving innovation and technology precinct, which includes:

- our University's own world-leading Australian Institute of Machine Learning (AIML), the largest machine learning research centre in Australia
- the Australian Cyber Collaboration Centre (A3C), in which we collaborate with the Australian Government's Defence Science and Technology group and others
- the Australian Space Agency, Space Discovery Centre, and Mission Control Centre.

Other organisations with a Lot Fourteen presence include Microsoft Azure Space, Amazon, Inovor Technology, and the Massachusetts Institute of Technology (MIT) big data Living Lab—all of whom our AIML partners with in ongoing real-world research.

Give yourself a career superpower

Technology and AI is reshaping virtually every industry. Gaining the skills to play a part in that at the University of Adelaide - recognised world-wide for computer science leadership - will give you incredible career scope. You could find yourself:

- developing applications that strengthen capabilities in fields as varied as disease treatment, climate and weather prediction, cybersecurity, defence, or space exploration
- harnessing critical insights from large datasets to inform public health or environmental policy, social services, or business practices
- enhancing, testing and maintaining precision-engineered products, processes, systems and services.

And whichever path you take, we'll ensure you have the confidence to contribute from your first day in the workforce, by including up to 760 hours of hands-on industry experience in your degree.

Career prospects

Our graduates have secured high-level jobs with many leading organisations, such as Australia's: Commonwealth Scientific and Industrial Research Organisation (CSIRO); Defence Science and Technology Group (DSTG); Bureau of Meteorology; and Bureau of Statistics.

Employment growth for the majority of high-technology roles ranges from strong to very strong†, with STEM jobs predicted to grow nearly twice as fast as other occupations††.

** US News Best Global Universities by Subject (Artificial Intelligence, Computer Science), 2023.*

^ Good Universities Guide, 2022 (Postgraduate computing and IT)

† Australian Government, Labour Market Insights, 2023.

†† Department of Employment and Workplace Relations, Australian Government, 2020

Degrees

Undergraduate

- Bachelor of Computer Science
- Bachelor of Computer Science (Advanced)
- Bachelor of Information Technology

Postgraduate coursework

- Master of Artificial Intelligence and Machine Learning
- Master of Computer Science
- Master of Computing and Innovation
- Master of Cyber Security
- Master of Data Science

Our degrees

Ready to start making some choices? The following pages contain full descriptions of our suite of degrees, arranged in alphabetical order.

As well as describing what each degree involves and where it could take you in your career, the entries also include key details such as:

- degree duration
- which campus or campuses they're studied at
- any prerequisites you need to have completed
- SATAC code
- guaranteed entry score where applicable.

And just in case you missed them, you can return to our study area summaries at any time to get an idea of what degrees most closely relate to your career interests.

Bachelor of Agricultural Sciences

SATAC code 324561
Duration 3 years full-time
Campus North Terrace, Roseworthy and Waite
Guaranteed entry ATAR: 75 or IB/interstate/overseas equivalent
Assumed knowledge SACE Stage 2: Chemistry and Mathematical Methods or IB/interstate/overseas equivalent
Enquiries adelaide.edu.au/degree-finder (search *agriculture*)

Agriculture is about understanding the land, animals, crops and community.

For those seeking a career in the industry, our Bachelor of Agricultural Sciences is the degree of choice. It is ranked #72 in the world and is the only Agricultural Science degree in South Australia*.

What will you do?

Our hands-on approach to teaching will set you up to join this booming industry. You will:

- learn how to respond to global food shortages and a changing climate with sustainable practices, environmental stewardship, modern agribusiness and new technology
- practice the latest methods, from adapting genes and cells for new crops to the business of livestock, and explore emerging trends, like vertical farming
- build practical skills through at least 450 hours of internships
- learn about industry-transforming technology, like drones, GPS and crop sensors
- go on field trips across Australia, exploring everything from dryland farming to glasshouse systems
- develop skills in agribusiness that will allow you to work in the business of farming
- access the latest research, innovation and technology through government and industry partners.

Careers

- Agricultural Scientist
- Biosecurity Officer
- Vineyard Management

You might also be interested in

- Bachelor of Applied Data Analytics
- Bachelor of Viticulture and Oenology
- Bachelor of Science

** QS World University Rankings by Subject, 2023.*

Bachelor of Applied Data Analytics

SATAC code 354561
Duration 3 years full-time
Campus North Terrace and Waite
Guaranteed entry ATAR: 75 or IB/interstate/overseas equivalent
Prerequisites
SACE Stage 2: Mathematical Methods or IB/interstate/overseas equivalent

** Please note: SACE Stage 2 Physics and/or Specialist Mathematics are prerequisites for some first-year courses*

Enquiries adelaide.edu.au/degree-finder (search *data analytics*)

For decision-makers, data is gold. But only if it can be interpreted accurately. All around the world, in every industry, employers are seeking true data analysts—professionals with not only statistical expertise, but the ability to 'see' new solutions in oceans of numbers.

Our Bachelor of Applied Data Analytics will help you step into this critical role in one of seven specialist areas: agriculture, economics, environment, geosciences, physics, bioinformatics or public health.

What will you do?

The degree is unique in Australia, in combining big-data analytics training with decision science. In addition to acquiring a firm grounding in data handling and management, you'll gain high-level skills in:

- advanced data analysis
- statistical inference, including using machine learning
- developing new models of complex problems
- quantitative decision-making
- applying data analysis to develop organisational strategies for sustainable success.

You'll also undertake a significant research project in your final year.

Careers

- Bioinformatician
- Business Data Analyst
- Financial Analyst

You might also be interested in

- Bachelor of Mathematical Sciences
- Bachelor of Computer Science
- Bachelor of Information Technology

Bachelor of Architectural Design

SATAC code 314131
Duration 3 years full-time
Campus North Terrace
Guaranteed entry ATAR: 80 or IB/interstate/overseas equivalent
Enquiries adelaide.edu.au/degree-finder (search *architectural*)

Architectural design is about understanding landscapes and the way humans create places within them. Architecture, landscape architecture and urban design share the purpose of aiding society while creating structural works of art.

What will you do?

Our Bachelor of Architectural Design hones concrete skills and encourages big picture thinking. You will:

- visit notable building sites, landscapes, gardens and exhibitions
- gain high-level practical design and model-making skills
- practise computer and hand based drawing techniques
- explore relevant theory, history, tradition and innovation
- consider issues of ecology and environment
- learn how to formulate effective proposals.

Please note: that to practise as an architect or landscape architect, you must complete a professionally accredited combination of degrees in your chosen discipline:

- Bachelor of Architectural Design followed by Master of Architecture*
- Bachelor of Architectural Design followed by Master of Landscape Architecture^
- Bachelor of Architectural Design followed by Master of Planning (Urban Design)†
- Bachelor of Architectural Design followed by Master of Property‡
- Bachelor of Architectural Design followed by Master of Construction Management‡

Careers

- Construction Manager
- Environmental Designer
- Architect

You might also be interested in

- Bachelor of Construction Management
- Bachelor of Engineering (Honours) (Architectural and Structural)
- Bachelor of Engineering (Honours) (Civil)

** recognised by Australian Institute of Architects, accredited by the Architectural Practice Board of South Australia.*

^ accredited by Australian Institute of Landscape Architects.

† accredited by Planning Institute of Australia.

‡ accredited by Royal Institution of Chartered Surveyors

Bachelor of Biotechnology

SATAC code 314691
Duration 3 years full-time
Campus North Terrace
Assumed knowledge
SACE Stage 2: Chemistry, Mathematical Methods and Physics, or IB/interstate/overseas equivalent.
Enquiries adelaide.edu.au/degree-finder (search *biotechnology*)

Biotechnology focuses on biology and technology, leading to the development of new products for feeding, fuelling and healing the world. This might include vaccine, antibiotic or hormone production and genetic modification.

It's a fast-evolving industry with huge potential for improving global health and wellbeing. When we modify living things, all sorts of marvels become possible.

What will you do?

Our Bachelor of Biotechnology combines traditional science with aspects of engineering and computer science. You will:

- give your experimentation meaning as you learn how to take your discoveries from the lab to the market and the broader community
- delve into areas like drug development, gene therapy or the identification of biomarkers for cancers
- learn how to produce food, drugs and other products
- study alongside research-active experts
- explore molecular, genetic, animal and plant biology
- discover microbial biotechnology and bioprocess engineering
- consider social and ethical issues, patents and waste management.

Careers

- Laboratory Manager
- Medical Scientist
- Biochemist

You might also be interested in

- Bachelor of Science
- Bachelor of Science (Advanced)
- Bachelor of Science (Biomedical Science)

Bachelor of Biotechnology (Honours)

SATAC code 354491
Duration 4 years full-time
Campus North Terrace
Guaranteed entry ATAR: 75 or IB/interstate/overseas equivalent
Assumed Knowledge
SACE Stage 2: Chemistry, Mathematical Methods and Physics, or IB/interstate/overseas equivalent.
Enquiries adelaide.edu.au/degree-finder (search *biotechnology*)

Our direct-entry Bachelor of Biotechnology (Honours) provides high achieving students with automatic entry into an honours year, provided a 4.5 grade point average (GPA) is maintained. Biotechnology—integrating biology and technology to create innovative solutions—has enormous potential to feed, fuel and heal. This degree will prepare you to enter this exciting and vital industry with advanced capability and an employability edge.

What will you do?

Like the Bachelor of Biotechnology, the direct-entry Bachelor of Biotechnology (Honours) combines biology with aspects of engineering and computer science. During the first three years, you will:

- delve into molecular, genetic, animal and plant biology
- experiment with protein separation, fermentation, genomics and proteomics
- use revolutionary gene editing technology at Australia's first genome editing facility
- explore microbial biotechnology and bioprocess engineering
- learn how to produce food, drugs and other products
- consider global social, economic, environmental and ethical issues, patents and waste management.

In addition to a Molecular Biology major, you'll be able to choose a second specialisation in: Bioinformatics; Chemistry; Genetics; or Microbiology and Biomedical Science. You can also gain valuable work experience through an industry internship. And your research skills will be honed through a major research project and/or industry-related project in your honours year.

Careers

- Laboratory Manager
- Biotechnologist
- Scientific Officer

You might also be interested in

- Bachelor of Science
- Bachelor of Science (Advanced)
- Bachelor of Science (Biomedical Science)

Bachelor of Computer Science

SATAC code 314111
Duration 3 years full-time
Campus North Terrace
Guaranteed entry ATAR: 80 or IB/interstate/overseas equivalent
Prerequisites
SACE Stage 2: Mathematical Methods or IB/interstate/overseas equivalent
Enquiries adelaide.edu.au/degree-finder (search *computer science*)

Our Bachelor of Computer Science is taught by world-class researchers and features artificial intelligence and machine learning courses not available anywhere else in South Australia.

What will you do?

Depending on your chosen major, you will:

- explore self-driving cars, robotic vision, machine learning and image recognition
- learn how to protect networks, data and software systems from attack and unlawful access
- apply cutting-edge data analysis techniques—such as machine and deep learning—to large sets of data
- design, make and study large-scale distributed software systems, including parallel, mobile and cloud-based environments.

Majors are available in:

- Artificial intelligence
- Computer science
- Cybersecurity
- Data science
- Distributed systems and networking

You can also choose a flexible program, covering topics ranging from gaming and graphics, to computer vision and software engineering.

Professional accreditation

The Bachelor of Computer Science is accredited by the Autralian Computer Society. It also provides the necessary academic requirements for membership of the Institute of Electrical and Electronic Engineers (IEEE) and the American-based Association of Computing Machinery (ACM).

Careers

- Computer Programmer
- Software Developer
- Artificial Intelligence Analyst

You might also be interested in

- Bachelor of Computer Science (Advanced)
- Bachelor of Information Technology
- Bachelor of Engineering (Honours) (Software)

Bachelor of Computer Science (Advanced)

SATAC code 324681
Duration 3 years full-time
Campus North Terrace
Guaranteed entry ATAR: 95 or IB/interstate/overseas equivalent
Prerequisites
SACE Stage 2: Mathematical Methods or IB/interstate/overseas equivalent
Additional Entry Requirements
Year 12 applicants must obtain an Australian Tertiary Admissions Rank (ATAR) of 95 or higher (or equivalent), including any applicable adjustment factors.
Enquiries adelaide.edu.au/degree-finder (search *computer science*)

Our Bachelor of Computer Science (Advanced) is a distinctive degree for highly capable students who want to tackle global questions in computer science and information technology.

The program is taught by world-class researchers and teachers within a faculty ranked 48 in the world for computer science and engineering^. It features artificial intelligence and machine learning courses not available anywhere else in South Australia.

What will you do?

You will apply your skills to real-world challenges through self-directed learning and practical projects. Depending on your chosen major, you will:

- explore self-driving cars, robotic vision, machine learning and image recognition
- learn how to protect networks, data and software systems from attack and unlawful access
- apply cutting-edge data analysis techniques—such as machine and deep learning—to large sets of data
- design, make and study large-scale distributed software systems, including parallel, mobile and cloud-based environments.

Majors are available in:

- Artificial intelligence
- Computer science
- Cybersecurity
- Data science
- Distributed systems and networking

We also set up opportunities within the program for displaying your talents to future employers.

Note: You must maintain a high grade point average to stay in this highly competitive degree.

Professional accreditation

The Bachelor of Computer Science is accredited by the Autralian Computer Society. It also provides the necessary academic requirements for membership of the Institute of Electrical and Electronic Engineers (IEEE) and the American-based Association of Computing Machinery (ACM).

Careers

- Computer Programmer
- Computer Scientist
- Systems Analyst

You might also be interested in

- Bachelor of Computer Science
- Bachelor of Information Technology
- Bachelor of Mathematical and Computer Science

Associate Degree in Construction Management

SATAC code 318021
Duration 2 years full-time
Campus North Terrace
Guaranteed entry ATAR: 65 or IB/interstate/overseas equivalent
Enquiries adelaide.edu.au/degree-finder (search *construction*)

Advancing technology is creating exciting opportunities for the construction industry. Innovative digital engineering, modelling and automation techniques are changing what's possible.

Worldwide, demand is soaring for graduates with training in these areas, together with a grasp of contemporary building, project management and sustainability practices Our new Associate Degree in Construction Management will start you on this path and give you an entry point into the construction industry.

What will you do?

Taught over two years full-time within a faculty ranked 40 in the world for computer science and engineering*, the degree leverages the University's strong industry links and world-class research.

In addition to gaining a broad understanding of the foundations of the construction industry and associated project management—you'll develop skills in using:

- new and emerging technology, including digital building-information modelling tools and automation technologies (Industry 4.0)
- civil engineering principles and technology, in real-world construction contexts
- construction project and people management, including legal requirements
- systems thinking, building science, economics and sustainability principles
- critical thinking.

This degree is taught by the School of Architecture and Civil Engineering and will prepare you well for a future career in which you'll frequently work alongside professionals from both these areas.

Careers

- Building Consultant
- Property Developer
- Design and Construction Manager

You might also be interested in

- Bachelor of Construction Management
- Bachelor of Construction Management (Honours)
- Bachelor of Architectural Design

Bachelor of Construction Management

SATAC code 354511
Duration 3 years full-time
Campus North Terrace
Guaranteed entry ATAR: 75 or IB/interstate/overseas equivalent
Enquiries adelaide.edu.au/degree-finder (search *construction*)

Advancing technology is creating exciting opportunities for the construction industry.

Worldwide, demand is soaring for graduates with skills and understanding in these areas, together with a firm grasp of contemporary building, project management and sustainability practices. Our new Bachelor of Construction Management will make these opportunities yours.

What will you do?

Taught over three years full-time within a faculty ranked 50 in the world for computer science and engineering*, the degree leverages the University's strong industry links and world-class research. Co-developed with industry, it features an emphasis on real-world experience, with an internship providing 456 hours of work-based training and industry internship opportunities embedded into the program during 3rd year.

In addition to gaining a broad understanding of the foundations of the construction industry and associated project management—you'll develop skills in applying and using:

- new and emerging technology, including digital engineering tools and automation technologies (Industry 4.0)
- civil engineering principles and technology, in real-world construction contexts
- construction project and people management, including legal requirements
- systems thinking, building science and economics principles
- sustainability principles to design more eco-friendly construction processes
- effective interpersonal communication, and critical thinking.

This degree is taught by the School of Architecture and Civil Engineering and will prepare you well for a future career in which you'll frequently work alongside professionals from both these areas.

Careers

- Building Consultant
- Design and Construction Manager
- Civil Estimator

You might also be interested in

- Associate Degree in Construction Management
- Bachelor of Architectural Design
- Bachelor of Construction Management (Honours)

Bachelor of Construction Management (Honours)

SATAC code 354521
Duration 4 years full-time
Campus North Terrace
Guaranteed entry ATAR: 75 or IB/interstate/overseas equivalent
Enquiries adelaide.edu.au/degree-finder (search *construction*)

Advancing technology is creating exciting opportunities for the construction industry. Innovative digital engineering, modelling and automation techniques are changing what's possible.

Worldwide, demand is soaring for graduates with skills and understanding in these areas, together with a firm grasp of contemporary building, project management and sustainability practices. Our Bachelor of Construction Management (Honours) will prepare you to take a leading role.

What will you do?

Taught over four years full-time within a faculty ranked 50 in the world for computer science and engineering*, the degree leverages the University's strong industry links and world-class research. Taught over four years full-time within a faculty ranked 46 in the world for engineering*, the degree leverages the University's strong industry links and world-class research. Co-developed with industry, it features internship opportunities.

In addition to gaining a broad understanding of the foundations of the construction industry and associated project management—you'll develop skills in evaluating, applying and using:

- new and emerging technology, including digital building-information modelling tools and automation technologies (Industry 4.0)
- civil engineering principles and technology, in real-world construction contexts
- construction project and people management, including legal requirements
- systems thinking, building science and economics principles
- sustainability principles to design more eco-friendly construction processes
- highly effective interpersonal communication and critical, independent thinking.

This degree is taught by the School of Architecture and Civil Engineering and will prepare you well for a future career in which you'll frequently work alongside professionals from both these areas.

In fourth year, you'll also undertake major construction design and research projects. In these, you'll be mentored by our world-class, research-active staff and/or industry experts.

Careers

- Building Consultant
- Design and Construction Manager
- Civil Estimator

You might also be interested in

- Associate Degree in Construction Management
- Bachelor of Architectural Design
- Bachelor of Construction Management

** US News Rankings of Best Global Universities, 2023.*

Diploma of Engineering

SATAC code 316331
Duration 1 year full-time
Campus North Terrace
Guaranteed entry ATAR: 65 or IB/interstate/overseas equivalent
Prerequisites
SACE Stage 2: Mathematical Methods or IB/interstate/overseas equivalent
MathTrackX is an online bridging program available as a recognised alternative to Mathematical Methods.
Enquiries adelaide.edu.au/degree-finder (search *engineering diploma*)

Engineers are the behind-the-scenes force that keeps our world running smoothly. From creating cutting-edge software to building sustainable energy solutions, they turn ideas into reality, shaping the future for the better.

What will you do?

Completed over one year, our Diploma of Engineering can serve as a valuable standalone qualification—or a supportive stepping stone into the Bachelor of Engineering (Honours). You will:

- gain exposure to a range of engineering subjects
- upskill in the mathematical, natural and physical sciences
- explore engineering methods, tools and processes
- build advanced problem-solving and teamwork skills
- fulfil prerequisites needed for the Bachelor of Engineering (Honours).

Diploma of Engineering students are eligible for Centrelink payments, including the Tertiary Assistance Payment (TAP) and Youth Allowance.

Where could it take you?

A diploma in engineering offers a versatile foundation for entering various technical roles, from technician positions to field service and design work. Completing this diploma with the required prerequisites will also secure your entry into the Bachelor of Engineering (Honours) degree of your choice, where you will receive up to 24 units of credit.

Careers

- Field Technician
- Laboratory Technician
- Water Quality Technician

You might also be interested in

- Bachelor of Engineering (Honours) (Civil)
- Bachelor of Engineering (Honours) (Electrical and Electronic)
- Bachelor of Engineering (Honours) (Mechanical)

Bachelor of Engineering (Honours) (Architectural and Structural)

SATAC code 334181
Duration 4 years full-time
Campus North Terrace
Guaranteed entry ATAR: 80 or IB/interstate/overseas equivalent
Prerequisites
SACE Stage 2: Mathematical Methods, Specialist Mathematics and Physics or IB/interstate/overseas equivalent
Enquiries adelaide.edu.au/degree-finder (search *architectural*)

Interested in a creative career that explores elements of both architectural design and engineering?

Architectural engineers visualise projects, plan, collaborate, test ideas and come up with high-tech building solutions. They design systems for some of the most innovative infrastructure in today's society.

What will you do?

Our Bachelor of Engineering (Honours) (Architectural and Structural) is the only one of its kind in South Australia, allowing our graduates to exclusively bring together the disciplines of architecture and engineering. You will:

- undertake practical projects and work on real-world simulations
- explore sustainability and architectural integrity
- pursue specialisations in your areas of interest
- build skills in geotechnical engineering, construction, and operation systems
- complete eight weeks of practical experience

In your final year you will also collaborate with industry on a major design project.

Professional accreditation

Graduates qualify for professional membership of Engineers Australia.

Careers

- Construction Engineer
- Development Engineer
- Architectural Engineer

You might also be interested in

- Bachelor of Architectural Design
- Bachelor of Engineering (Honours) (Civil)

Bachelor of Engineering (Honours) (Chemical)

SATAC code 334791
Duration 4 years full-time
Campus North Terrace
Guaranteed entry ATAR: 80 or IB/interstate/overseas equivalent
Prerequisites SACE Stage 2: Mathematical Methods, Chemistry and Specialist Mathematics or IB/interstate/overseas equivalent
Enquiries adelaide.edu.au/degree-finder (search *chemical*)

Chemical engineers take raw materials from the world around us and determine how we can turn them into products for daily use. Ranging across fields, they can craft plant-based food alternatives, design clean mineral processing methods to conserve natural resources, revolutionise medicine, and aid in developing sustainable energy resources.

What will you do?

Our Bachelor of Engineering (Honours) (Chemical) is interactive from the very first year. You'll work with award-winning and industry-connected researchers and teachers as you:

- use knowledge and skills from engineering, chemistry, maths and biology to produce innovative solutions to fuel, food and pharmaceuticals issues
- learn how results in the lab scale up for commercial production
- undertake projects with external groups such as Engineers Without Borders
- benefit from tours, projects, and placements with companies like PepsiCo, Smiths Crisps, Jurlique, and BHP
- complete an eight-week practical experience.

Majors are available in:

- Food and beverage engineering
- Minerals processing
- Pharmaceutical engineering
- Renewable energy

Where could it take you?

You could pioneer biodegradable plastics through innovative packaging solutions. You might design water purification systems for communities in need by turning saltwater into fresh water. Perhaps you will contribute to developing affordable medications for neglected diseases or revolutionise tissue regeneration techniques.

Professional accreditation

Graduates qualify for professional membership of Engineers Australia.

Careers

- Materials Engineer
- Chemical Engineer
- Quality Control Engineer

You might also be interested in

- Bachelor of Engineering (Honours) (Petroleum)
- Bachelor of Biotechnology

Bachelor of Engineering (Honours) (Civil)

SATAC code 334211
Duration 4 years full-time
Campus North Terrace
Guaranteed entry ATAR: 80 or IB/interstate/overseas equivalent
Prerequisites
SACE Stage 2: Mathematical Methods, Specialist Mathematics and Physics or IB/interstate/overseas equivalent
Enquiries adelaide.edu.au/degree-finder (search *civil*)

Civil engineers design, build and maintain the infrastructure that underpins modern life. They make sure bridges, roads, tunnels, railways, dams, airports and water channels meet the needs of our society in a sustainable way.

What will you do?

Our Bachelor of Engineering (Honours) (Civil) has a strong focus on design. You'll learn from award-winning academics in state-of-the-art facilities as you:

- study structural design and mechanics in depth
- access new technologies forming the basis of future design practice
- work on real-life projects
- interact with professionals through an industry-led design practice course
- complete an eight-week practical experience.

Majors are available in:

- Construction management
- Environmental engineering
- Renewable energy
- Structural and infrastructure

Professional accreditation

Graduates qualify for professional membership of Engineers Australia.

Careers

- Civil Engineer
- Structural Engineer
- Construction Engineer

You might also be interested in

- Bachelor of Engineering (Honours) (Environmental and Climate Solutions)
- Bachelor of Engineering (Honours) (Architectural and Structural)

Bachelor of Engineering (Honours) (Electrical and Electronic)

SATAC code 334811
Duration 4 years full-time
Campus North Terrace
Guaranteed entry ATAR: 80 or IB/interstate/overseas equivalent
Prerequisites
SACE Stage 2: Mathematical Methods, Physics and Specialist Mathematics or IB/interstate/overseas equivalent
Enquiries adelaide.edu.au/degree-finder (search *electrical)*

Electrical and electronic engineers do so much more than keep the lights on! From smart devices to medical imagery and defence technologies, electrical and electronic engineering contributes to every aspect of modern life.

The University of Adelaide's Electrical and Electronic Engineering degree is ranked number 25 globally^. We set you up for a range of global career options in a field that's leading technological change.

What will you do?

Our Bachelor of Engineering (Honours) (Electrical and Electronic) is practical right from the first year. Working with our internationally renowned staff who are active in cutting-edge discoveries, you will:

- study in state-of-the-art facilities, including a 3D prototyping lab, autonomous vehicles lab, electric machines lab, quantum engineering and semiconductor laboratories, and augmented/virtual reality laboratories.
- learn and master new frontiers in biomedical engineering, robotics, mechatronics, quantum engineering, semiconductors, and applied electromagnetics
- push the frontiers of knowledge in artificial intelligence, control, autonomous systems, integrated circuits for biomedical and space, and quantum electronics
- work on practical and relevant projects with industry partners, and build confidence for tech entrepreneurship
- specialise in your chosen electrical and electronic engineering major after the first two years
- complete an eight-week practical experience

^ *US News Best Global University Rankings by Subject, 2023.*

Majors are available in:

- Biomedical engineering
- Communication systems
- Computer engineering
- Cybersecurity
- Mechatronics and robotics
- Renewable energy

Professional accreditation

Graduates qualify for professional membership of Engineers Australia.

Careers

- Mechatronic Engineer
- Automotive Engineer
- Cyber Intelligence Expert

You might also be interested in

- Bachelor of Engineering (Honours) (Mechanical)
- Bachelor of Mathematical Sciences
- Bachelor of Mathematical and Computer Sciences

Bachelor of Engineering (Honours) (Environmental and Climate Solutions)

SATAC code 334191
Duration 4 years full-time
Campus North Terrace
Guaranteed entry ATAR: 80 or IB/interstate/overseas equivalent
Prerequisites
SACE Stage 2: Mathematical Methods, Specialist Mathematics and one of Chemistry, Physics or Biology or IB/interstate/overseas equivalent
Enquiries adelaide.edu.au/degree-finder (search *environmental*)

Want to design solutions to some of the planet's most challenging problems? As populations expand and humanity demands more of our natural resources, environmental engineers are at the forefront of developing solutions that increase the sustainability of human activities. They tackle climate change, enable the renewable energy transition, secure our water supplies, protect society from natural hazards, and redesign products to reduce waste.

What will you do?

Our Bachelor of Engineering (Honours) (Environmental and Climate Solutions) will challenge and nurture you in a team environment. You will:

- develop skills to tackle climate change and other major environmental challenges around water, energy, food, pollution, waste, and natural hazards
- learn about connections between infrastructure, environment, society, and economy in the developed and developing world
- work with award-winning academics who are global experts in their field
- apply your knowledge to real-world projects based on industry needs
- complete an eight-week practical experience and participate in field trips.

Majors are available in:

- Climate solutions
- Renewable energy
- Smart technologies.

Professional accreditation

Graduates qualify for professional membership of Engineers Australia.

Careers

- Natural Resource Manager
- Climate and Ecosystems Modeller
- Environmental Engineer

You might also be interested in

- Bachelor of Engineering (Honours) (Chemical)
- Bachelor of Environmental Policy and Management
- Bachelor of International Development

Bachelor of Engineering (Honours) (Mechanical)

SATAC code 334831
Duration 4 years full-time
Campus North Terrace
Guaranteed entry ATAR: 80 or IB/interstate/overseas equivalent
Prerequisites
SACE Stage 2: Mathematical Methods, Physics and Specialist Mathematics or IB/interstate/overseas equivalent
Enquiries adelaide.edu.au/degree-finder (search *mechanical*)

From the aerodynamics of aerospace vehicles to the intricate movements of artificial organs - mechanical engineering is the driving force behind these moving marvels and countless others, from high-speed elevators in towering skyscrapers to the powerful engines that provide power to our cities. Mechanical engineering is about mastering the design, manufacturing, and control processes to innovate the future generations of intricate machines. In this degree, you will delve into technical concepts and theories, learning how to make these machines work seamlessly and efficiently. You will be equipped with the tools to bring your ideas to life through our cutting-edge workshops, including creation and innovation studios, and Computer, Automation, Robotics, and Mechatronics laboratories, to provide the perfect platform to hone your skills.

What will you do?

Our Bachelor of Engineering (Honours) (Mechanical) has strong links to industry and a focus on design and creativity. You will:

- explore core mechanical engineering disciplines
- complete design-build projects
- gain hands-on experience in state-of-the-art facilities
- benefit from internships, placements and projects with experts in the field
- complete an eight-week practical experience.

In your final year you'll apply your advanced capabilities in an industry-focused research project.

Majors are available in:

- Aerospace engineering
- Biomedical engineering
- Mechanical engineering
- Mechatronics and robotics
- Renewable energy.

Professional accreditation

Graduates qualify for professional membership of Engineers Australia.

Careers

- Mechanical Engineer
- Mechatronic Engineer
- Quality Control Engineer

You might also be interested in

- Bachelor of Engineering (Honours) (Electrical and Electronic)
- Bachelor of Science (Space Science and Astrophysics)

Bachelor of Engineering (Honours) (Mining)

SATAC code 334851
Duration 4 years full-time
Campus North Terrace
Guaranteed entry ATAR: 80 or IB/interstate/overseas equivalent
Prerequisites
SACE Stage 2: Mathematical Methods, Physics and Specialist Mathematics or IB/interstate/overseas equivalent
Enquiries adelaide.edu.au/degree-finder (search *mining*)

Mining engineers work with all aspects of ore extraction and processing. They gather valuable minerals or metals and provide a backbone industry for our society.

The reinvigoration of traditional mining plus new advances—such as deep-sea mining and space mining—mean there's an exciting future for mining engineers, with a wealth of job opportunities around Australia and overseas.

The University of Adelaide is ranked 15 in the world for Mining and Mineral Engineering*.

What will you do?

Being the only mining engineering course in South Australia, we cover everything from engineering design to management skills. You will:

- take part in field trips to mining locations in Australia and overseas
- gain exposure to industry practices in world-class laboratories
- work closely with experts to develop skills and networks for a successful career
- complete an eight-week practical experience
- undertake an optional semester at another mining university.

Majors are available in:

- Mine automation—learn about the connection between mining and artificial intelligence, machine learning and big data at the only university in Australia currently offering a major in mine automation.

Professional accreditation

Graduates qualify for professional membership of Engineers Australia.

** Academic Ranking of World Universities by Subject, 2023*

Careers

- Mining Engineer
- Mineral Processing Engineer
- Drilling Engineer

You might also be interested in

- Bachelor of Engineering (Honours) (Petroleum)
- Bachelor of Engineering (Honours) (Petroleum) with majors
- Bachelor of Science (Mineral Geoscience)

Bachelor of Engineering (Honours) (Petroleum)

SATAC code 334871
Duration 4 years full-time
Campus North Terrace
Guaranteed entry ATAR: 80 or IB/interstate/overseas equivalent
Prerequisites
SACE Stage 2: Mathematical Methods, Physics and Specialist Mathematics or IB/interstate/overseas equivalent
Enquiries adelaide.edu.au/degree-finder (search *petroleum*)

Want to travel the world and face new challenges every day?

Petroleum engineering is one of the highest paid engineering fields internationally, with exciting opportunities for qualified graduates.

Petroleum engineers help sustain society's way of life by ensuring we can meet our energy demands. They provide oil and gas in efficient, safe, and environmentally responsible ways.

What will you do?

Our Bachelor of Engineering (Honours) (Petroleum) is developed and taught by industry-trained academics through the Australian School of Petroleum and Energy Resources. This is Australia and Southeast Asia's academic centre for petroleum research and education, and the only school of its kind in Australia. You will:

- learn about petroleum engineering, petroleum geoscience and the oil industry
- take courses in business and project management
- develop technical knowledge and network with potential employers
- undertake interactive projects and field trips
- complete an eight-week practical experience.

In your final year you'll also carry out a major research project.

Professional accreditation

Graduates qualify for professional membership of Engineers Australia.

Careers

- Oil and Gas Analyst
- Petrochemical Engineer
- Drilling Engineer

You might also be interested in

- Bachelor of Engineering (Honours) (Petroleum) with major
- Bachelor of Engineering (Honours) (Mining)
- Bachelor of Science (Mineral Geoscience)

Bachelor of Engineering (Honours) (Petroleum) with major

SATAC code 334231
Duration 5 years full-time
Campus North Terrace
Guaranteed entry ATAR: 80 or IB/interstate/overseas equivalent
Prerequisites
SACE Stage 2: Mathematical Methods, Physics and Specialist Mathematics or IB/interstate/overseas equivalent
Enquiries adelaide.edu.au/degree-finder (search *petroleum*)

Want to face new challenges every day?

Petroleum engineering is one of the highest paid engineering fields internationally, with exciting opportunities for qualified graduates.

Petroleum engineers help sustain society's way of life by ensuring we can meet our energy demands. They provide oil and gas in efficient, safe, and environmentally responsible ways.

This degree allows students to undertake a major as part of their study in a five-year program.

What will you do?

Our Bachelor of Engineering (Honours) (Petroleum) with major is developed and taught by industry-trained academics through the Australian School of Petroleum and Energy Resources. This is Australia and Southeast Asia's academic centre for petroleum research and education, and the only school of its kind in Australia. You will:

- learn about petroleum engineering, petroleum geoscience and the oil industry
- take courses in business and project management
- develop technical knowledge and network with potential employers
- undertake interactive projects and field trips
- complete an eight-week practical experience.

Majors are available in:

- Chemical engineering
- Civil engineering
- Mechanical engineering
- Mining engineering

Professional accreditation

Graduates qualify for professional membership of Engineers Australia.

Careers

- Petroleum Engineer
- Mining Engineer
- Energy Engineer

You might also be interested in

- Bachelor of Engineering (Honours) (Mining)
- Bachelor of Science (Mineral Geoscience)

Bachelor of Engineering (Honours) (Software)

SATAC code 354571
Duration 4 years full-time
Campus North Terrace
Guaranteed entry ATAR: 80 or IB/interstate/overseas equivalent
Prerequisites
SACE Stage 2: Mathematical Methods, Physics and Specialist Mathematics or IB/interstate/overseas equivalent
Enquiries adelaide.edu.au/degree-finder (search *software*)

From South Australia to Silicon Valley, software engineers combine problem-solving and creativity to develop new world-changing technologies. These visionary individuals actively participate in multiple phases of software development, seamlessly transitioning from strategic planning and conceptualisation to intricate design, efficient coding, rigorous testing, and collaborative teamwork.

Studying software engineering offers you an opportunity to acquire a versatile skill set, empowering you to navigate the intricacies of the digital world and actively contribute to the enhancement of our society.

What will you do?

Our Bachelor of Engineering (Honours) (Software) combines the underlying principles of software engineering with strong technical and leadership skills. You will:

- tackle real-world, open-ended and complex programming problems
- take new and refreshed courses that emphasise divergent thinking, collaborative learning and teamwork
- work with industry mentors
- pursue work experience and internship opportunities with some of the world's best-known companies
- complete an eight-week practical experience.

Majors are available in:

- Defence systems
- Smart technologies.

A minor is available in:

- Entrepreneurship.

Professional accreditation

This program is accredited by the Australian Computer Society (ACS) and Engineers Australia.

Careers

- AI scientist
- Computational Engineer
- Cyber Security Analyst

You might also be interested in

- Bachelor of Computer Science
- Bachelor of Information Technology
- Bachelor of Mathematical and Computer Science

Bachelor of Environmental Policy and Management

SATAC code 324031
Duration 3 years full-time
Campus North Terrace
Guaranteed entry ATAR: 70 or IB/interstate/overseas equivalent
Enquiries adelaide.edu.au/degree-finder (search *environmental*)

Earth is home to 8 billion people with an ever-increasing population — and we're careless. Animals and plants are dying out, oceans are overfished and polluted, loggers cut down precious forests, and climate change is affecting the planet. Finding a way to live together and protect the environment could be our greatest challenge.

Environmental policy, applied effectively, can stop this from happening through land and water management, carbon mitigation and adaptation, national parks, and new approaches to sustainable development. Environmental policy makers solve problems with the community and protect the environment for a better future. They protect vital ecosystems and stand between the environment and processes that degrade it.

What will you do?

Our Bachelor of Environmental Policy and Management challenges you to make a positive impact. You will:

- research how humans affect natural environments
- explore approaches to conservation and sustainability
- create policy and plans for managing environmental problems
- learn about climate change, biodiversity, population growth and resource scarcity.

There are also travel opportunities. We offer exchanges and study tours where you'll tackle real-life problems in vulnerable communities.

Careers

- Parks Management
- Climate and Ecosystem Modeller
- Environmental Protection Officer

You might also be interested in

- Bachelor of Arts
- Bachelor of Arts (Advanced)
- Bachelor of International Development

Bachelor of Food and Nutrition Science

SATAC code 314761
Duration 3 years full-time
Campus North Terrace, Waite and Regency Park
Guaranteed entry ATAR: 75 or IB/interstate/overseas equivalent
Assumed knowledge SACE Stage 2: Chemistry and Mathematical Methods or IB/interstate/overseas equivalent
Enquiries adelaide.edu.au/degree-finder (search *food*)

Food is fundamental to our wellbeing as a society. New approaches to production and processing of food, as well as to our diet, are key for health and sustainability.

The Australian food and beverage industry exports $40 billion a year and is growing rapidly. There is a high demand for food and nutrition scientists able to tackle today's challenges and meet tomorrows global needs.

What will you do?

Our Bachelor of Food and Nutrition Science prepares you to educate and innovate with food. You will:

- tackle global issues like food security and population health to help feed the world into the future
- learn about food systems and production from 'farm-gate to fork'
- gain hands-on experience through 120 hours of placement in a food, nutrition or health organisation
- learn how to design, formulate, produce, package and market foods under industry conditions
- develop the skills to use and alter food to combat diet-related health issues
- experiment with chemical composition and flavour combinations in the lab
- explore ways of developing sustainable, nutritious, safe and healthy food supplies.

Careers

- Food Scientist
- Flavour Chemist
- Science communicator

You might also be interested in

- Bachelor of Agricultural Science
- Bachelor of Science
- Bachelor of Science (Advanced)

Bachelor of Food and Nutrition Science (Honours)

SATAC code 354481
Duration 4 years full-time
Campus North Terrace and Waite
Guaranteed entry ATAR: 75 or IB/interstate/overseas equivalent
Assumed knowledge SACE Stage 2: Chemistry and Mathematical Methods or IB/interstate/overseas equivalent
Enquiries adelaide.edu.au/degree-finder (search *food*)

Our direct-entry Bachelor of Food and Nutrition Science (Honours) provides high achieving students with automatic entry into an honours year, provided a 4.5 grade point average (GPA) is maintained.

The sustainable production of quality food and nutrition—fundamental to human health and wellbeing—is a thriving, multi-billion-dollar global industry. This degree will equip you to enter this exciting and rewarding field with advanced capability and an employability edge.

What will you do?

Like the Bachelor of Food and Nutrition Science, the direct-entry Bachelor of Food and Nutrition Science (Honours) prepares you to educate and innovate in food. During the first three years, you will:

- tackle global issues like food security and population health to help feed the world into the future
- understand food systems and production from 'farm-gate to fork'
- gain hands-on experience through 120 hours of placement in a food, nutrition or health organisation
- learn how to design, formulate, produce, package and market foods
- develop the skills to use and alter food to combat diet-related health issues
- experiment with chemical composition and flavour combinations in the lab
- explore ways of developing sustainable, nutritious, safe and healthy food supplies.

Then, in your honours year, you'll deepen your knowledge through a major research project, acquiring significant research skills along the way.

Careers

- Food Scientist
- Flavour Chemist
- Science communicator

You might also be interested in

- Bachelor of Agricultural Science
- Bachelor of Science
- Bachelor of Science (Advanced)

Bachelor of Information Technology

SATAC code 354121
Duration 3 years full-time
Campus North Terrace
Guaranteed entry ATAR: 75 or IB/interstate/overseas equivalent
Enquiries adelaide.edu.au/degree-finder (search *information technology*)

IT makes and breaks organisations worldwide. Businesses with more intuitive, high-performing systems leave competitors in their wake. But even market leaders risk losing customers by the thousands if they can't maintain service levels.

Demand for professionals with exceptional IT design and management skills is rising. And our new Bachelor of Information Technology puts you squarely in employers' sights.

What will you do?

Leveraging the University's strong industry links and world-class research, it features an emphasis on systems and business approaches, and design thinking. Majors are offered in either Cyber Security or Artificial Intelligence and Machine Learning.

In addition to gaining a broad, application-based understanding of computer and information sciences, you'll develop skills in:

- evaluating and using IT methods, tools and processes in real-world contexts, complemented by the ability to integrate new and emerging technology
- applying systems-thinking principles to manage and develop well-structured, maintainable and safe technological solutions
- advanced critical and independent thinking, and interpersonal communication.
- learn how to develop highly secure, complex IT systems (Cyber Security Major)
- protect networks, data and software systems from attack and unlawful access (Cyber Security Major)
- explore self-driving cars, robotic vision, machine learning and image recognition (AI Major)
- using enterprise data and AI tools for cutting-edge data analysis and productivity improvement (AI Major)

And both majors include a significant industry-focused project or internship.

Careers

- IT programmer
- Computer programmer
- Data Analyst

You might also be interested in

- Bachelor of Computer Science
- Bachelor of Engineering (Honours)(Software)
- Bachelor of Mathematical and Computer Sciences

Bachelor of Marine and Wildlife Conservation

SATAC code 354551
Duration 3 years full-time
Campus North Terrace
Guaranteed entry ATAR: 75 or IB/interstate/overseas equivalent
Enquiries adelaide.edu.au/degree-finder (search *marine*)

Conservationists observe, preserve and discover life. Whether swimming with colourful marine creatures or reforesting for native birds, they pursue their passions and connect with nature. Unfortunately, many species are vanishing—and more will disappear during our lifetime.

What will you do?

Our Bachelor of Marine and Wildlife Conservation gives you the knowledge and skills to safeguard ecosystems and protect animals in crisis. You will:

- build foundational knowledge of ecology, biology, evolutionary science, statistics, botany and zoology
- learn to identify plants, animals, and marine life in natural settings
- use new technology, like drones and satellites, to collect data and monitor habitats
- build valuable industry connections with organisations—from Arid Recovery and BioR in South Australia to Conservation International
- reflect on the social, political and economic constraints of your field
- access cutting-edge technology and facilities
- learn from nationally and internationally acclaimed researchers.

Careers

- Marine Biologist
- Conservation Scientist
- Environmental Manager

You might also be interested in

- Bachelor of Science
- Bachelor of Science (Advanced)
- Bachelor of Science (Animal Science)

Bachelor of Mathematical Sciences

SATAC code 324421
Duration 3 years full-time
Campus North Terrace
Guaranteed entry ATAR: 80 or IB/interstate/overseas equivalent
Prerequisites
SACE Stage 2: Mathematical Methods and Specialist Mathematics or IB/interstate/overseas equivalent
Enquiries adelaide.edu.au/degree-finder (search *mathematics*)

Mathematics is both a logical and creative pursuit. It's about curiosity, challenge, perseverance and passion.

Millions of industries around the world depend on mathematical scientists. They analyse and interpret patterns, predict and model outcomes, solve problems and drive human progress.

What will you do?

Our Bachelor of Mathematical Sciences challenges you to explore the full breadth and depth of mathematical learning. You will:

- learn from award-winning researchers and teachers in state-of-the-art facilities
- build fundamental statistical and mathematical knowledge
- hone your creativity, rigour, logical thinking, professionalism and research skills
- delve into abstract theories that underpin modern science
- create, collect, analyse and model data.

Majors are available in:

- Applied mathematics
- Pure mathematics
- Statistics.

Careers

- Data Analyst
- Meteorologist
- Defence Scientist

You might also be interested in

- Bachelor of Mathematical Sciences (Advanced)
- Bachelor of Mathematical and Computer Sciences
- Bachelor of Science (Space Science and Astrophysics)

Bachelor of Mathematical Sciences (Honours)

SATAC code 354501
Duration 4 years full-time
Campus North Terrace
Guaranteed entry ATAR: 80 or IB/interstate/overseas equivalent
Prerequisites
SACE Stage 2: Mathematical Methods and Specialist Mathematics or IB/interstate/overseas equivalent
Enquiries adelaide.edu.au/degree-finder (search *mathematics*)

Virtually every industry around the globe depends on mathematical scientists. They analyse and interpret patterns, predict and model outcomes, solve problems and drive progress.

Our Bachelor of Mathematical Sciences (Honours) Direct Entry prepares you to enter this near-limitless world of career possibility. It provides the same breadth and depth of learning as the foundation bachelor degree, but with the additional opportunity to advance directly into a research-focused fourth-year honours program.

What will you do?

Taking a major in Applied Mathematics, Pure Mathematics or Statistics, you will:

- learn from award-winning researchers and teachers in state-of-the-art facilities
- build fundamental statistical and mathematical knowledge
- hone your creativity, rigour, logical thinking, professionalism and research skills, including through a significant fourth-year independent research project
- delve into abstract theories underpinning modern science
- create, collect, analyse and model data.

You'll need to maintain a GPA of 4.5 throughout your studies to retain your place; drop below this and you'll need to transfer to the foundation Bachelor of Mathematical Sciences.

Direct entry into the fourth (honours) year will require completion of 12 units of Level III courses in Applied Mathematics, Pure Mathematics or Statistics, with a minimum GPA of 5.

Careers

- Data Analyst
- Meteorologist
- Defence Scientist

You might also be interested in

- Bachelor of Mathematical Sciences (Advanced)
- Bachelor of Mathematical and Computer Sciences
- Bachelor of Science (Space Science and Astrophysics)

Bachelor of Mathematical Sciences (Advanced)

SATAC code 324691
Duration 3 years full-time
Campus North Terrace
Guaranteed entry ATAR: 95 or IB/interstate/overseas equivalent
Prerequisites
SACE Stage 2: Mathematical Methods and Specialist Mathematics or IB/interstate/overseas equivalent
Additional entry requirements
Year 12 applicants must obtain an Australian Tertiary Admissions Rank (ATAR) of 95 or higher (or equivalent), including any applicable adjustment factors.
Enquiries adelaide.edu.au/degree-finder (search *mathematics*)

Want to drive progress through mathematics?

Our Bachelor of Mathematical Sciences (Advanced) is a degree for highly capable students who are passionate about maths and want to excel.

What will you do?

Alongside mathematical and statistical expertise, our advanced degree places a strong emphasis on research skills. You will:

- work with award-winning academics and researchers in state-of-the-art facilities
- access special programs designed for high-achieving students
- gain valuable exposure to mathematical sciences research culture
- take three Advanced Mathematical Perspectives courses.

Majors are available in:

- Applied mathematics
- Pure mathematics
- Statistics.

Note: You must maintain a GPA of 5.0 or you'll be required to transfer to the Bachelor of Mathematical Sciences.

Careers

- Meteorologist
- Data Analyst
- Defence Scientist

You might also be interested in

- Bachelor of Mathematics
- Bachelor of Mathematical Sciences and Computer Science
- Bachelor of Computer Science

Bachelor of Mathematical and Computer Sciences

SATAC code 314541
Duration 3 years full-time
Campus North Terrace
Guaranteed entry ATAR: 80 or IB/interstate/overseas equivalent
Prerequisites SACE Stage 2: Mathematical Methods or IB/interstate/overseas equivalent
Enquiries adelaide.edu.au/degree-finder (search)

Maths and computer science is a powerful combination. In an increasingly technological age, pairings like these are only becoming more valuable for a wide variety of careers.

What will you do?

Our Bachelor of Mathematical and Computer Sciences is a flexible degree. Program advisers are available to work with you to develop a study program tailored to your interests and career goals. You will:

- learn from world-class researchers and teachers in state-of-the-art facilities
- build fundamental statistical and mathematical knowledge
- explore complex computer systems and theories
- hone your creativity, rigour, logical thinking, professionalism and research skills
- pursue diverse electives—from business classes to social science programs.

Majors are available in:

- Applied Mathematics*
- Artificial Intelligence
- Computer Science
- Cybersecurity
- Data and Decision Sciences
- Distribution Systems and Networking
- Data Science
- Pure Mathematics*
- Statistics*

* You can also choose to study any two of: Applied Mathematics, Pure Mathematics, or Statistics in any combination in lieu of a single major.

A minor is also available in Public Health.

Careers

- Business Data Analyst
- Telecommunications Analyst
- Mathematician

You might also be interested in

- Bachelor of Mathematical Sciences
- Bachelor of Computer Science
- Bachelor of Information Technology

Bachelor of Science

SATAC code 314581
Duration 3 years full-time
Campus North Terrace
Guaranteed entry ATAR: 75 or IB/interstate/overseas equivalent
Prerequisites None, however SACE Stage 2 Chemistry, Mathematical Methods, Physics or Specialist Mathematics are prerequisites for some first year courses
Assumed Knowledge:
SACE Stage 2: Chemistry and Mathematical Methods and Physics or IB/interstate/overseas equivalent
Enquiries adelaide.edu.au/degree-finder (search *science*)

Love science but not sure which path to take? The Bachelor of Science lets you design your own degree based on your strengths and emerging interests. From Chemistry to Palaeontology, Genetics to Geophysics... we support your scientific curiosity.

Our degree is ranked best for Science in South Australia, and among the top 150 in the world^.

What will you do?

Whether you want to use your critical thinking to help drive global change or join the cutting-edge of research, our Bachelor of Science will give you the skills you need. You will:

- become an adaptable scientist as you learn the skills to evolve with one of the fastest-growing sectors
- learn from world-class researchers who are experts in their field
- develop connections in the science world through internships
- engage with new ideas through discovery and experiential learning
- develop in-depth discipline knowledge through a major
- build highly sought-after skills in communication, critical thinking and creative problem solving
- access research facilities of international significance.

You can pursue any of the following major areas of study:

- Biochemistry
- Bioinformatics
- Chemistry
- Ecology and Environmental Science
- Evolutionary Biology
- Experimental and Theoretical Physics
- Genetics
- Geology
- Geology and Earth Resources
- Geology and Geophysics
- Geology and Palaeontology
- Microbiology and Immunology
- Palaeontology
- Palaeontology and Evolution
- Physics and Geophysics
- Physics
- Plant Biology
- Pure and Applied Chemistry
- Soil Science
- Theoretical Physics

^ *QS World University Rankings by Subject, 2023*

Careers

- Botanist
- Forensic Scientist
- Palaeontologist

You might also be interested in

- Bachelor of Applied Data Analytics
- Bachelor of Science (Advanced)
- Bachelor of Teaching (Secondary) with Bachelor of Science

Bachelor of Science (Advanced)

SATAC code 324651
Duration 3 years full-time
Campus North Terrace
Guaranteed entry ATAR: 95 or IB/interstate/overseas equivalent
Prerequisites None, however SACE Stage 2 Chemistry, Mathematical Methods, Physics or Specialist Mathematics are prerequisites for some first year courses.
Assumed Knowledge:
SACE Stage 2: Chemistry and Mathematical Methods and Physics or IB/interstate/overseas equivalent
Additional Entry Requirements
Year 12 applicants must obtain an Australian Tertiary Admissions Rank (ATAR) of 95 or higher (or equivalent), including any applicable adjustment factors
Enquiries adelaide.edu.au/degree-finder (search *science*)

Love scientific enquiry and research? Aspire to be outstanding in your field? The Bachelor of Science (Advanced) is a distinctive vocational degree for high-achieving students who want to excel in their chosen career.

What will you do?

Our advanced degree challenges you to take your scientific training and research skills to the next level. You will:

- learn to drive scientific breakthroughs as you join a research-rich institution at the cutting edge of discovery
- dive straight into life as a researcher with early access to real-world research opportunities usually reserved for honours or postgraduate students
- link with academic mentors and staff in pioneering research areas, allowing you to establish networks before you graduate
- build a breadth of experience through lab placements and a semester-long research project
- work on further projects that can be developed for an honours year and postgraduate study (Masters or PhD).

You'll design your own degree from a broad range of scientific Majors:

- Biochemistry
- Bioinformatics
- Chemistry
- Ecology and Environmental Science
- Evolutionary Biology
- Genetics
- Geology
- Geology and Earth Resources
- Geology and Geophysics
- Geology and Palaeontology
- Geophysics
- Microbiology and Immunology
- Palaeontology
- Palaeontology and Evolution
- Physics
- Physics and Geophysics
- Plant Biology
- Pure and Applied Chemistry
- Soil Science
- Theoretical Physics.

Careers

- Geobiologist
- Analytical Chemist
- Aerospace Scientist

You might also be interested in

- Bachelor of Science (Advanced) (Honours)
- Bachelor of Science
- Bachelor of Teaching (Secondary) with Bachelor of Science

Bachelor of Science (Advanced) (Honours)

SATAC code 354111

Duration 4 years full-time

Campus North Terrace

Guaranteed entry ATAR: 95 or IB/interstate/overseas equivalent

Prerequisites None, however SACE Stage 2 Chemistry, Mathematical Methods, Physics or Specialist Mathematics are prerequisites for some first year courses.

Assumed Knowledge:

SACE Stage 2: Chemistry and Mathematical Methods and Physics or IB/interstate/overseas equivalent

Additional entry requirements
Year 12 applicants must obtain an Australian Tertiary Admissions Rank (ATAR) of 95 or higher (or equivalent), including any applicable adjustment factors.

Enquiries adelaide.edu.au/degree-finder (search *science*)

Like the Bachelor of Science (Honours), our direct-entry Bachelor of Science (Advanced) (Honours) is ideal if you haven't yet chosen an area of science to specialise in, but—once you have—want to follow that path well beyond step one.

The program again builds on our Bachelor of Science (Advanced) and lets you explore your scientific curiosity before specialising. But at every stage, you'll be challenged by even greater academic demands. Ultimately, you'll emerge as a clear future leader in your field.

What will you do?

Your first year is all about discovery. You'll investigate a number of scientific fields, before choosing a major to focus on in years two and three (see Bachelor of Science (Advanced) for choices).

During this time you'll enjoy the same fantastic opportunities offered to all Bachelor of Science (Advanced) students. That includes developing advanced research skills, making real-world connections through internships, and potentially gaining global experience with international study. In your honours year, you'll then advance along either a disciplinary research or professional skills pathway.

The disciplinary research path is the most research-intensive. Working with a specific researcher or research group, you'll undertake a major research project, together with advanced coursework, in one of the following study areas:

- Biochemistry
- Bioinformatics
- Chemistry
- Ecology and Environmental Science
- Evolutionary Biology
- Experimental and Theoretical Physics
- Genetics
- Geology
- Geology and Earth Resources
- Geology and Geophysics
- Geology and Palaeontology
- Microbiology and Immunology
- Palaeontology
- Palaeontology and Evolution
- Physics
- Physics and Geophysics
- Plant Biology
- Pure and Applied Chemistry
- Soil Science
- Theoretical Physics

Careers

- Geospatial Scientist
- Atmospheric Chemist
- Toxicologist

You might also be interested in

- Bachelor of Science
- Bachelor of Science (Advanced)
- Bachelor of Teaching (Secondary) with Bachelor of Science

Bachelor of Science (Animal Behaviour)

SATAC code 334171
Duration 3 years full-time
Campus Roseworthy
Guaranteed entry ATAR: 75 or IB/interstate/overseas equivalent
Enquiries adelaide.edu.au/degree-finder (search *animal*)

Love interacting with animals? Fascinated by pets and their personalities?

Animal behaviour is psychology for the animal kingdom. It's about understanding the science behind why animals act in certain ways, how we should work with them, and how we can look after their futures. It even informs our understanding of human behaviour.

What will you do?

Explore why cat's meow, find out if parrots are smart, and play with the odd puppy or two as you build the skills to join this growing industry. You will:

- study the behaviour of animals big and small, including cats, dogs, birds, horses, livestock, wildlife and insects
- build practical skills through internship opportunities
- join a close-knit, animal-loving community at our Roseworthy campus
- learn about animal development and the biological drivers of behaviour
- explore your personal animal interests through research projects and case studies
- draw on the University's internationally recognised expertise in animal science and veterinary bioscience.

There is also a strong practical element, with opportunities for industry experience, field work and study tours.

Careers

- Animal Behaviourist
- Welfare Officer
- Wildlife Officer

You might also be interested in

- Bachelor of Science (Animal Science)
- Bachelor of Veterinary Technology
- Bachelor of Science

Bachelor of Science (Animal Science)

SATAC code 324141
Duration 3 years full-time
Campus Roseworthy
Guaranteed entry ATAR: 75 or IB/interstate/overseas equivalent
Assumed knowledge SACE Stage 2: Chemistry and Mathematical Methods or IB/interstate/overseas equivalent
Enquiries adelaide.edu.au/degree-finder (search *animal*)

We rely on animals for so much—labour, entertainment, companionship. Animal science is essential for keeping the animals under our charge housed, fed, healthy and safe.

Animal scientists research new technologies and approaches to managing animal production and welfare, develop and run breeding programs, regulate animal feed and products, and work to decrease the environmental impact of agriculture.

What will you do?

Our Bachelor of Science (Animal Science) prepares you for success in the lab and the field. You will:

- learn how to positively influence the productivity and welfare of livestock, as well as the health of pets, zoo animals and wildlife
- build practical skills with 200 hours of professional work experience
- work with a variety of species, including livestock, horses, wildlife, companion animals and laboratory animals
- join a close-knit, animal-focused community at our Roseworthy campus
- study the fundamentals of animal physiology, as you explore areas like wildlife management, nutrition and on-farm management
- draw on the University's internationally recognised expertise in animal and veterinary sciences.

Careers

- Animal Health Officer
- Biosecurity Officer
- Animal Behaviourist

You might also be interested in

- Bachelor of Science (Animal Behaviour)
- Bachelor of Marine and Wildlife Conservation
- Bachelor of Science (Veterinary Bioscience)

Bachelor of Science (Biomedical Science)

SATAC code 314091
Duration 3 years full-time
Campus North Terrace
Guaranteed entry ATAR: 75 / or IB/interstate/overseas equivalent
Prerequisites
SACE Stage 2: Chemistry AND one of either Agricultural Systems, Biology, Earth and Environmental Science, Mathematical Methods, Nutrition, Physics, Scientific Studies, Specialist Mathematics or IB/interstate/overseas equivalent
Assumed knowledge SACE Stage 2: Mathematical Methods and Physics or IB/interstate/overseas equivalent
Enquiries adelaide.edu.au/degree-finder (search *biomedical*)

Do you have an interest in medical biology and human health? Are you keen to discover more about human disease, from its cause and diagnosis through to novel treatments and cures?

Biomedical scientists are vitally important. They advance world-changing discoveries to improve the health and quality of people's lives.

The University of Adelaide is ranked in the top 100 in the world for Life Sciences and Medicine and best in South Australia^.

What will you do?

Our Bachelor of Science (Biomedical Science) gives you the knowledge and skills to access an emerging global sector. You will:

- learn the skills to drive the future of healthcare, from vaccine discovery to disease prevention
- gain real-world practical insights from industry lecturers and placements
- study how the body works and what happens when it fails
- explore how to stop deadly outbreaks of disease and create life-saving vaccinations
- build a vast knowledge base from simple molecules to whole organisms
- learn directly from active world-class biomedical researchers and educators.

Areas of specialisation include:

- Biochemistry
- Genetics
- Microbiology and Immunology

Careers

- Biomedical Scientist
- Microbiologist
- Life Scientist

You might also be interested in

- Bachelor of Biotechnology
- Bachelor of Science
- Bachelor of Science (Advanced)

^ *QS World University Rankings by Subject, 2023.*

Bachelor of Science (High Performance Computational Physics) (Honours)

SATAC code 324171

Duration 4 years full-time

Campus North Terrace

Guaranteed entry ATAR: 90 or IB/interstate/overseas equivalent

Prerequisites

SACE Stage 2: Physics, Mathematical Methods and Specialist Mathematics or IB/interstate/overseas equivalent

Enquiries adelaide.edu.au/degree-finder (search *physics*)

Love calculations, formulas and data-enabled science? Want to solve cutting-edge problems at the forefront of physics?

Computational physics is a rapidly growing and highly interdisciplinary research area. High-performance computations are an essential part of modern research in particle physics, condensed-matter physics, astrophysics, fluid mechanics, quantum field theory, quantum chromodynamics, and plasma physics. This program is accredited by the Australian Institute of Physics.

What will you do?

In our Bachelor of Science (High Performance Computational Physics) (Honours) you will:

- find answers to cutting-edge problems using high-performance computing
- learn to program parallel supercomputers using state-of-the-art computer languages
- access the University's supercomputer, Phoenix; a 300 teraflop high-performance computer
- immerse yourself in small group discovery experiences with like-minded peers
- take core courses in physics, mathematics and computer science
- apply sophisticated computing skills to modern physics problems.

In your final year Honours Program, you'll dive deep into theoretical or computational physics and physics applications. This includes specialist research projects and courses.

Careers

- Atmospheric Chemist
- Bioinformatician
- Satellite Project Scientist

You might also be interested in

- Bachelor of Science (Space Science and Astrophysics)
- Bachelor of Science
- Bachelor of Science (Advanced)

Bachelor of Science (Mineral Geoscience)

SATAC code 324551

Duration 3 years full-time

Campus North Terrace

Guaranteed entry ATAR: 75 or IB/interstate/overseas equivalent

Prerequisites

SACE Stage 2: Any two science subjects chosen from Biology, Chemistry, Geology, Agricultural Systems, Earth and Environmental Science, Mathematical Methods, Nutrition, Physics, Scientific Studies, Specialist Mathematics, or IB/interstate/overseas equivalent. (NB: only one mathematics subject may be counted)

Assumed knowledge
SACE Stage 2: Chemistry and Mathematical Methods and Physics or IB/interstate/overseas equivalent

Enquiries adelaide.edu.au/degree-finder (search *mineral*)

Mineral geoscience is all about Earth's mineral resources—their nature, origin, distribution, discovery and uses. Geoscientists explore for metallic and non-metallic deposits and find environmentally safe ways to dispose of waste materials from mining.

The University of Adelaide is ranked in the top 51-100 in the world for Earth Sciences*.

What will you do?

Our Bachelor of Science (Mineral Geoscience) prepares you for an interesting, well-paid and diverse career in the minerals and energy sector. You will:

- get hands-on with plenty of field work and exposure to industry in this high-demand field
- learn about mining, engineering and mineral resources, and environmental aspects of mine remediation
- explore Earth's mineral resources — their nature, origin, distribution, discovery and uses
- see rocks in their natural habitat, study the oceans and learn how to read history from the Earth
- take integrated and extended geology, tectonics and geophysics courses.

Careers

- Mineral Exploration
- Environmental Geoscientist
- Hydrogeologist

You might also be interested in

- Bachelor of Science
- Bachelor of Science (Advanced)
- Bachelor of Environmental Policy and Management

* *QS World University Rankings by Subject, 2023.*

Bachelor of Science (Space Science and Astrophysics)

SATAC code 324101

Duration 3 years full-time

Campus North Terrace

Guaranteed entry ATAR: 75 or IB/interstate/overseas equivalent

Prerequisites

SACE Stage 2: Physics, Mathematical Methods and Specialist Mathematics or IB/interstate/overseas equivalent

Enquiries adelaide.edu.au/degree-finder (search *space*)

Want to delve into the depths of our solar system? Explore the universe's most distant galaxies?

This is the number one degree in South Australia for Astronomical and Space Sciences research.* You will have access to world-leading researchers, including Nobel Prize winners and the recipient of the 2020 Prime Minister's Award for Science.

What will you do?

Our Bachelor of Science (Space Science and Astrophysics) places a strong emphasis on maths and physics. You will:

- work with, and learn from international researchers whose ground-breaking and award-winning discoveries are changing the way we understand our universe
- develop problem-solving skills critical to modern careers in physics, high-tech and space industries, and big data science
- have the opportunity to take part in project work with established scientists
- discover the fundamental processes which define our universe and our planet
- unravel the mysteries of space through core training in astronomy and space science
- supplement learning with other science, geoscience, and maths programs.

You'll also have opportunities to take part in project work with established scientists.

Careers

- Astronomer
- Aerospace Scientist
- Satellite Project Scientist

You might also be interested in

- Bachelor of Science
- Bachelor of Science (Advanced)
- Bachelor of Science (High Performance Computational Physics) (Honours)

Bachelor of Science (Veterinary Bioscience)

SATAC code 324491

Duration 3 years full-time

Campus North Terrace and Roseworthy

Prerequisites SACE Stage 2: Biology or Chemistry or Mathematical Methods or IB/interstate/overseas equivalent

Assumed knowledge
SACE Stage 2: Physics or IB/interstate/overseas equivalent

Additional entry requirements To meet the minimum academic threshold for entry, applicants must achieve a Selection Rank of 90 or above, or the equivalent International Baccalaureate (IB) / interstate / overseas score. New applications/ preferences for Veterinary Bioscience will not be considered after the closing date of 30 September 2024. Late applications will not be considered. Please note that strict quotas apply to the Bachelor of Science (Veterinary Bioscience) degree. Applicants must complete a written questionnaire and will also be required to acknowledge their understanding of the Inherent Requirements and Vaccination Guidelines. Further information about entry requirements and a link to the admissions guide which all applicants **must** read can be found on Degree Finder.

Enquiries adelaide.edu.au/degree-finder (search *veterinary*)

Veterinarians are dedicated to the wellbeing of animals. They are scientists, surgeons, carers, and lifelong learners.

What will you do?

Join a tight-knit community of students at the School of Animal and Veterinary Sciences - the only one in South Australia. Our educators use real-world experience and practical training in their teaching, with many currently practicing in the veterinary industry. In this program, you will:

- explore the anatomy, physiology and behaviour of normal animals and identify the pathogenic organisms that attack them
- learn about animal handling and husbandry
- experience real industry settings including farms and intensive production facilities
- undertake a significant amount of hands-on animal work, starting in semester 1
- access our $37 million purpose-built veterinary teaching and research facilities.

Professional accreditation

Our veterinary science program is comprised of two degrees: the Bachelor of Science (Veterinary Bioscience) and the Doctor of Veterinary Medicine (Masters by Coursework (Extended). To practice as a veterinarian, you must complete both degrees, which is six years in total.

The veterinary science program at the University of Adelaide has been granted accreditation by the Australasian Veterinary Boards Council (AVBC), the Veterinary Surgeons' Board of Hong Kong and the Royal College of Veterinary Surgeons (UK).

This means when you graduate from your Masters, you'll be eligible for registration as a veterinarian in Australia, New Zealand, South Africa, Singapore, the United Kingdom and Hong Kong.

Careers

- Pathway to veterinary science
- Wildlife Officer
- Animal Scientist

You might also be interested in

- Bachelor of Veterinary Technology
- Bachelor of Science (Animal Science)
- Bachelor of Science

Bachelor of Veterinary Technology

SATAC code 354091
Duration 3 years full-time
Campus Roseworthy
Guaranteed entry ATAR: 75 or IB/interstate/overseas equivalent
Assumed knowledge SACE Stage 2: Mathematical Methods or IB/interstate/overseas equivalent
Enquiries adelaide.edu.au/degree-finder (search *veterinary*)

Also known as Allied Veterinary Professionals, veterinary technologists play a vital role in modern animal welfare. As well as providing high-level, hands-on veterinary care, including being a part of the anaesthesia, surgery and diagnostic imaging team, they oversee the application of cutting-edge new veterinary technology.

Data-driven apps, wearable devices, telemedicine—a steady stream of advanced new tools is reimagining what's possible in the clinical environment. As a veterinary technologist, you can ensure it delivers maximum benefit to animals' health and wellbeing.

What will you do?

Studied over three years full-time, it will give you:

- high-level knowledge and practical skills in caring for all kinds of animals—from cats, dogs and horses, to farm animals, wildlife and exotic pets
- the ability to operate state-of-the-art veterinary technologies
- knowledge and training in the use of anaesthetic and analgesic drugs
- deep knowledge of animal diseases, including those threatening humans and the concept of One Health
- extensive hands-on clinical experience
- regular access to our world-class, $37 million Veterinary Health Centre and Veterinary Skills Simulation suite.

Building on your core education, in third-year you'll also have the opportunity to select an area of special interest (Track) which will extend your knowledge and experience in your chosen field. And, you'll collaborate with Veterinary Bioscience and Doctor of Veterinary Medicine students throughout the degree, reflecting real-world workplace interactions.

Please note:

This program is not a pathway to the Bachelor of Science (Veterinary Bioscience) or becoming a registered veterinarian.

Careers

- Animal Technician
- Veterinary Technologist
- Veterinary Nurse

You might also be interested in

- Bachelor of Science (Animal Science)
- Bachelor of Science (Animal Behaviour)
- Bachelor of Science (Veterinary Bioscience)

Bachelor of Viticulture and Oenology

SATAC code 324611
Duration 4 years full-time
Campus Waite
Guaranteed entry ATAR: 75 or IB/interstate/overseas equivalent
Assumed knowledge SACE Stage 2: Chemistry and Mathematical Methods or IB/interstate/overseas equivalent
Enquiries adelaide.edu.au/degree-finder (search *viticulture + oenology*)

Great wine is central to South Australia's identity. In fact, Adelaide is one of the great wine capitals of the world with over 200 cellar doors within an hour of the CBD.

Seventy percent of Australian wine research happens at the University of Adelaide's Waite campus. Our winemakers are innovators and cultural leaders within a sector helping drive the nation's economy.

What will you do?

Our Bachelor of Viticulture and Oenology teaches best-practice techniques for growing wine grapes and making wine. You will:

- get your hands dirty in our on-campus vineyard and learn to make wine at Australia's largest teaching winery
- build practical skills through an industry placement in viticulture and/or oenology
- study at the largest agricultural teaching and research precinct in the Southern Hemisphere
- learn from more than 150 researchers and partners in wine and grape science
- access cutting-edge research at the Australian Research Council Training Centre for Innovative Wine Production.

There are also opportunities to study and gain experience overseas.

Careers

- Horticulturalist
- Distiller
- Winemaker

You might also be interested in

- Bachelor of Science
- Bachelor of Science (Advanced)
- Bachelor of Agricultural Sciences

Further study

Completed an undergraduate degree, and looking to further hone your expertise?

Whatever your career stage or goal, we offer a range of courses to help you advance your skills—from Professional Certificate and Graduate Certificate to Graduate Diploma, Masters and PhD.

Explore our postgraduate degrees

adelaide.edu.au/publications/future-students/postgraduate-coursework

Learn more about our research degrees

adelaide.edu.au/publications/future-students/postgraduate-research

Master of Artificial Intelligence and Machine Learning

SATAC code 3CM248, 3CM272

Duration 2 years full-time

Campus North Terrace

Entry requirements A completed Bachelor degree and a minimum GPA of 4.5.

Prerequisites SACE Stage 2: Mathematical Methods or IB/interstate/overseas equivalent

Enquiries adelaide.edu.au/degree-finder (search *artificial intelligence*)

Artificial intelligence and machine learning make life easier, in all its aspects: healthcare, defence, entertainment, agriculture. Artificial intelligence and machine learning now present the world's single greatest commercial opportunity and employment prospects are outstanding. AI and machine learning appointments worldwide have doubled in the past three years, with demand easily outstripping supply.

The Master of Artificial Intelligence and Machine Learning, conducted through the University of Adelaide's world-renowned Australian Institute for Machine Learning (AIML), will position you perfectly to play a senior leadership role in this exciting future.

What will you do?

- highly advanced technical skills in machine learning and AI application development, including in specialist areas, such as deep learning and visual question answering
- a firm grasp of the commercial, organisational and research opportunities presented by machine learning and AI
- a deep understanding of the disciplines' ethical and social considerationsthe chance to gain invaluable real-world experience, through a major research or industry-based project as well as an optional industry internship.
- extensive industry connections and networks.

You'll also receive ongoing mentoring, feedback and direction from AIML's world-class researchers and high-performing industry professionals.

Potential careers

- Machine Learning Engineer
- Diagnostic Technician
- Computer Scientist

You might also be interested in:

- Graduate Certificate in Artificial Intelligence and Machine Learning
- Graduate Diploma in Artificial Intelligence and Machine Learning
- Master of Computer Science

Master of Cyber Security

SATAC code 3CM247, 3CM274

Duration 2 years full-time

Campus North Terrace

Entry requirements A completed Bachelor degree with a minimum GPA of 4.5.

Enquiries adelaide.edu.au/degree-finder (search *cyber security*)

Cyber security is a crucial component for every company, spanning all sectors and offering numerous job opportunities. It plays an essential role in safeguarding organisations from cybercrime, which costs the world tens of trillions annually. Companies are now seeking cyber security experts with advanced technical skills, as well as a comprehensive understanding of the social, legal, and business contexts in the digital world.

What will you do?

Our Master of Cyber Security program is designed to equip you with the necessary skills to lead cutting-edge cyber security initiatives for governments, law enforcement agencies, companies, and NGOs. The program encompasses a broad spectrum of industries, including health, medical technology, defense and security, environment, and natural resources, providing you with diverse international exposure.

You will gain:

- a deep, interdisciplinary understanding of complex cyber security needs and considerations across multiple industries
- highly advanced technical skills and the ability to apply them in real-world contextsthe ability to critically analyse and evaluate relevant data and technology
- the refined interpersonal skills to effectively communicate issues and strategies to a range of stakeholders
- valuable AI and machine learning knowledge, through our affiliation with the Australian Institute for Machine Learning.

Make history with a PhD

At the University of Adelaide, we offer PhD and Masters-level research degrees in every discipline under the supervision of globally recognised experts. We can also help broaden your experience and connections through industry-embedded PhDs, internships or a jointly awarded PhD with our fellow world-leading, research-intensive domestic and international partners.

For more information, including a step-by-step guide on how to apply for a Higher Degree by Research program, visit: adelaide.edu.au/publications/ua/media/455/getting-your-phd.pdf

You'll also apply and expand your learning through a major research project, or industry-based practise.

This program is able to be studied in either part-time, standard full-time or accelerated mode—enabling you to undertake your studies at a pace and level of commitment that suits you.

Potential careers

- Cyber Intelligence Expert
- Computer Forensics Specialist
- Encryption Specialist

You might also be interested in:

- Graduate Certificate in Cyber Security
- Graduate Diploma in Cyber Security
- Master of Artificial Intelligence and Machine Learning

Master of Data Science

SATAC code 3CM246, 3CM275

Duration 2 years full-time

Campus North Terrace

Entry requirements A completed Bachelor's degree and a minimum GPA of 4.5.

Prerequisites SACE Stage 2: Mathematical Methods or IB/interstate/overseas equivalent

Enquiries adelaide.edu.au/degree-finder (search *data science*)

Big data and data science are revolutionising many fields—from science and engineering to economics, the tech sector, and digital humanities.

Our Master of Data Science places you at the forefront of this new field.

What will you do?

- Undertake a specialised introductory data science class (MATHS 7107 Data Taming) in your first study period.
- Build core skills in programming (Python, R, and Julia), mathematics and statistical data science.
- Learn how data science techniques can drive changes in organisations, industries and communities.
- Use data to answer questions in your chosen areas of interest.
- Apply your learning in a significant research project or internship.

This program is able to be studied in either part-time, standard full-time or accelerated mode—enabling you to undertake your studies at a pace and level of commitment that suits you.

Potential careers

- Systems Analyst
- Data Scientist
- Database Coordinator

You might also be interested in:

- Graduate Certificate in Data Science
- Graduate Diploma in Data Science
- Master of Cyber Security

Master of Viticulture and Oenology

SATAC code 3CM180

Duration 2 years full-time

Campus North Terrace

Entry requirements Relevant Bachelor degree or equivalent in a Science related field including (but not restricted to) Agriculture, Biology, Microbiology, Biochemistry, Chemistry, Plant and General Science and Engineering. Please note the program is only available for Semester 2 entry.

Enquiries adelaide.edu.au/degree-finder (search *viticulture*)

Adelaide is one of the great wine capitals of the world—in fact, 70 percent of Australian wine research happens at the University of Adelaide's Waite campus.

This intensive two-year degree has an international reputation for excellence. It's suited to students with a relevant bachelor degree or equivalent in a science field and opens opportunities for graduates both in Australia and internationally.

What will you do?

- Study at the largest agricultural teaching and research precinct in the Southern Hemisphere.
- Make wine in our state-of-the-art Hickinbotham Roseworthy Wine Science Laboratory.
- Build hands-on scientific and technological skills in the vineyards and winery.
- Learn from over 150 researchers and partners in grape and wine science.
- Access cutting-edge research at the Australian Research Council Training Centre for Innovative Wine Production.
- Undertake a research project and submit a thesis of 10,000 words OR complete an industry placement of at least 10 weeks (375 hours).

Potential careers

- Horticulturalist
- Distiller
- Winemaker

You might also be interested in

- Graduate Diploma in Wine Business
- Master of Wine Business

Undergraduate degree index

Undergraduate degrees available at the University of Adelaide. Students with strong interests in more than one area of study may wish to consider a double or combined degree. To assist in finding which brochure is right for you the table below shows where the degree that interests you can be found. For a comprehensive list of available degrees, visit adelaide.edu.au/degree-finder

Business

Study area	Undergraduate program
Accounting and finance	• Bachelor of Commerce • Bachelor of Finance and Banking
Business	• Bachelor of Business • Bachelor of Commerce • Bachelor of Economics • Bachelor of Economics (Advanced) • Bachelor of Finance and Banking • Bachelor of Philosophy, Politics and Economics • Bachelor of Project Management • Diploma in Business
Economics	• Bachelor of Economics • Bachelor of Economics (Advanced) • Bachelor of Philosophy, Politics and Economics

People and society

Study area	Undergraduate program
Humanities and social sciences	• Bachelor of Arts • Bachelor of Arts (Advanced) • Bachelor of Criminology • Bachelor of Environmental Policy and Management • Bachelor of International Development • Bachelor of International Relations • Bachelor of Languages • Bachelor of Philosophy, Politics and Economics • Bachelor of Sociology • Diploma in Arts • Diploma in Arts (Specialisation) • Diploma in Languages
Mental health and wellbeing	• Bachelor of Health and Medical Sciences • Bachelor of Health and Medical Sciences (Advanced) • Bachelor of Psychological Science • Bachelor of Psychology (Advanced) (Honours) • Bachelor of Sociology
Law	• Bachelor of Criminology • Bachelor of Laws
Teaching and education	• Bachelor of Teaching (Secondary) with Bachelor of Arts • Bachelor of Teaching (Secondary) with Bachelor of Mathematical and Computer Sciences • Bachelor of Teaching (Secondary) with Bachelor of Music • Bachelor of Teaching (Secondary) with Bachelor of Science

Creativity

Study area	Undergraduate program
Architecture	• Bachelor of Architectural Design • Bachelor of Construction Management • Bachelor of Construction Management (Honours) • Associate Degree in Construction Management • Bachelor of Engineering (Honours) (Architectural and Structural)
Arts	• Bachelor of Arts • Bachelor of Arts (Advanced) • Bachelor of Criminology • Bachelor of Environmental Policy and Management • Bachelor of International Development • Bachelor of International Relations • Bachelor of Languages • Bachelor of Media • Bachelor of Philosophy, Politics and Economics • Bachelor of Sociology • Diploma in Arts • Diploma in Arts (Specialisation) • Diploma in Languages
Media	• Bachelor of Media
Music	• Bachelor of Music (Classical Performance) • Bachelor of Music (Creative Practice) • Bachelor of Music (Jazz Performance) • Bachelor of Music (Music Education) • Bachelor of Music Advanced (Classical Performance) • Bachelor of Music Advanced (Creative Practice) • Bachelor of Music Advanced (Jazz Performance) • Bachelor of Music Advanced (Music Education) • Bachelor of Music Theatre

Health

Study area	Undergraduate program
Allied health	• Bachelor of Occupational Therapy (Honours) • Bachelor of Physiotherapy (Honours) • Bachelor of Speech Pathology (Honours)
Biomedical science and biotechnology	• Bachelor of Biotechnology • Bachelor of Biotechnology (Honours) • Bachelor of Science • Bachelor of Science (Advanced) • Bachelor of Science (Biomedical Science)
Dentistry and oral health	• Bachelor of Dental Surgery • Bachelor of Oral Health
Health and medical sciences	• Bachelor of Applied Data Analytics • Bachelor of Health and Medical Sciences • Bachelor of Health and Medical Sciences (Advanced)
Medicine	• Bachelor of Medical Studies / Doctor or Medicine
Mental health and wellbeing	• Bachelor of Health and Medical Sciences • Bachelor of Health and Medical Sciences (Advanced) • Bachelor of Psychological Science • Bachelor of Psychology (Advanced) (Honours) • Bachelor of Sociology
Nursing	• Bachelor of Nursing
Psychology	• Bachelor of Psychological Science • Bachelor of Psychology (Advanced) (Honours) • Bachelor of Sociology
Public health	• Bachelor of Applied Data Analytics • Bachelor of Health and Medical Sciences • Bachelor of Health and Medical Sciences (Advanced)

STEM

Study area	Undergraduate program
Agriculture, food and wine	• Bachelor of Agricultural Sciences • Bachelor of Applied Data Analytics • Bachelor of Food and Nutrition Science • Bachelor of Food and Nutrition Science (Honours) • Bachelor of Science • Bachelor of Science (Advanced) • Bachelor of Science (Animal Science) • Bachelor of Viticulture and Oenology
Animal and veterinary sciences	• Bachelor of Agricultural Sciences • Bachelor of Marine and Wildlife Conservation • Bachelor of Science (Animal Behaviour) • Bachelor of Science (Animal Science) • Bachelor of Science (Veterinary Bioscience) • Bachelor of Veterinary Technology
Architecture	• Bachelor of Architectural Design • Bachelor of Construction Management • Bachelor of Construction Management (Honours) • Bachelor of Engineering (Honours) (Architectural and Structural) • Associate Degree in Construction Management
Biomedical science and biotechnology	• Bachelor of Applied Data Analytics • Bachelor of Biotechnology • Bachelor of Biotechnology (Honours) • Bachelor of Science • Bachelor of Science (Advanced) • Bachelor of Science (Biomedical Science) • Bachelor of Engineering (Honours) (Electrical and Electronic) • Bachelor of Engineering (Honours) (Mechanical) • Bachelor of Science (Honours) direct entry • Bachelor of Science (Advanced) (Honours)
Defence, cyber and space	• Bachelor of Applied Data Analytics • Bachelor of Computer Science • Bachelor of Computer Science (Advanced) • Bachelor of Engineering (Honours) (Civil) • Bachelor of Engineering (Honours) (Electrical and Electronic) • Bachelor of Engineering (Honours) (Environmental and Climate Solutions) • Bachelor of Information Technology • Bachelor of Mathematical Sciences • Bachelor of Mathematical Sciences (Advanced) • Bachelor of Mathematical and Computer Sciences • Bachelor of Science • Bachelor of Science (Advanced) • Bachelor of Science (Space Science and Astrophysics) • Bachelor of Science (High Performance Computational Physics) (Honours)
Energy, mining and resources	• Bachelor of Applied Data Analytics • Bachelor of Engineering (Honours) (Chemical) • Bachelor of Engineering (Honours) (Civil) • Bachelor of Engineering (Honours) (Electrical and Electronic) • Bachelor of Engineering (Honours) (Environmental and Climate Solutions) • Bachelor of Engineering (Honours) (Mining) • Bachelor of Engineering (Honours) (Petroleum) • Bachelor of Engineering (Honours) (Petroleum) with major • Bachelor of Engineering (Honours) (Software) • Bachelor of Science • Bachelor of Science (Advanced) • Bachelor of Science (Mineral Geoscience)

Study area	Undergraduate program
Engineering	• Bachelor of Engineering (Honours) (Architectural and Structural) • Bachelor of Engineering (Honours) (Chemical) • Bachelor of Engineering (Honours) (Civil) • Bachelor of Engineering (Honours) (Electrical and Electronic) • Bachelor of Engineering (Honours) (Environmental and Climate Solutions) • Bachelor of Engineering (Honours) (Mechanical) • Bachelor of Engineering (Honours) (Mining) • Bachelor of Engineering (Honours) (Petroleum) • Bachelor of Engineering (Honours) (Petroleum) with major • Bachelor of Engineering (Honours) (Software) • Diploma of Engineering
Environment and sustainability	• Bachelor of Applied Data Analytics • Bachelor of Architectural Design • Bachelor of Construction Management (Honours) • Bachelor of Construction Management • Bachelor of Engineering (Honours) (Environmental and Climate Solutions) • Bachelor of Engineering (Honours) (Chemical) • Bachelor of Engineering (Honours) (Civil) • Bachelor of Engineering (Honours) (Electrical and Electronic) • Bachelor of Engineering (Honours) (Mechanical) • Bachelor of Environmental Policy and Management • Bachelor of Science • Bachelor of Science (Advanced) • Bachelor of Science (Mineral Geoscience) • Bachelor of Marine and Wildlife Conservation • Associate Degree in Construction Management
Mathematical Sciences	• Bachelor of Mathematical Sciences • Bachelor of Mathematical Sciences (Advanced) • Bachelor of Mathematical and Computer Sciences • Bachelor of Teaching (Secondary) with Bachelor of Mathematical and Computer Sciences
Sciences	• Bachelor of Agricultural Sciences • Bachelor of Applied Data Analytics • Bachelor of Biotechnology • Bachelor of Biotechnology (Honours) • Bachelor of Food and Nutrition Science (Honours) - direct entry • Bachelor of Food and Nutrition Science • Bachelor of Marine and Wildlife Conservation • Bachelor of Science • Bachelor of Science (Honours) - direct entry • Bachelor of Science (Advanced) • Bachelor of Science (Advanced) (Honours) - direct entry • Bachelor of Science (Animal Behaviour) • Bachelor of Science (Animal Science) • Bachelor of Science (Biomedical Science) • Bachelor of Science (Mineral Geoscience) • Bachelor of Science (Space Science and Astrophysics) • Bachelor of Science (Veterinary Bioscience) • Bachelor of Veterinary Technology • Bachelor of Viticulture and Oenology • Bachelor of Science (High Performance Computational Physics) (Honours) • Bachelor of Teaching (Secondary) with Bachelor of Science
Technology	• Bachelor of Computer Science • Bachelor of Computer Science (Advanced) • Bachelor of Engineering (Honours) (Software) • Bachelor of Information Technology

Open Day 2024

You're invited • Sunday 11 August

Open Day is your chance to get a taste of what the University of Adelaide is all about.

Held in August each year, Open Day offers you a chance to:

- see our picturesque campus and world-class facilities up close
- hear from our award-winning teaching staff
- discover our wide range of study areas and degrees
- speak with current students and recent graduates
- explore all that campus life has to offer—including student clubs, university sport, and the huge variety of social events run through the year
- learn about the range of support services available to help you thrive throughout your studies and beyond.

Dive into a day packed with exciting activities, enlightening talks and presentations, campus tours, and much more.

To find out more or register, visit our website.

adelaide.edu.au/openday

THE UNIVERSITY of ADELAIDE

make history.

The Academy by Deloitte

Developing industry-aligned, career ready skills

Deloitte.

THE UNIVERSITY of ADELAIDE

The University of Adelaide and global organisation Deloitte join forces to develop a world-class student experience delivering the in-demand business skills of tomorrow.

- ☑ Paid internship with Deloitte, solving real client problems
- ☑ Tailored electives and professional skill-building
- ☑ Immersive work experience opportunities across multiple industries
- ☑ Postgraduate Professional Certificate completed concurrently with your degree

Open to students studying degrees in Arts, Business, Health, Law, Economics, Sciences, Engineering and Technology.

adelaide.edu.au/the-academy

make history.

Year 12 tuition courses

We deliver SACE Stage II and study assist subject preparation and revision courses, designed to help Year 11 and Year 12 students achieve their full academic potential and prepare for future tertiary study.

Courses are run throughout the year during school holidays at our North Terrace campus in Adelaide's CBD.

Subject courses

- Biology
- Chemistry
- Mathematical Methods
- Physics
- Specialist Mathematics

Study Assist courses

- Exam Preparation and Techniques
- Excelling in Year 12
- Study Skills

Book now

ua.edu.au/schools/tuition-courses

Support for Aboriginal and Torres Strait Islander students

adelaide.edu.au/wirltu-yarlu

The University of Adelaide is committed to empowering and uplifting Aboriginal and Torres Strait Islander students. Wirltu Yarlu provides a culturally enriching environment that nurtures students throughout their educational journey.

Starting from high school

The Karnkanthi Education Program delivered by Wirltu Yarlu is a groundbreaking initiative that aims to provide Aboriginal and Torres Strait Islander High School students (years 10 to 12/13) with early support, tools and inspiration to succeed in their studies, helping future students build their academic confidence to consider and pursue a university education. This innovative program has no cost to students or their families.

To applying for University

Wirltu Yarlu helps make the application and transition to university life more accessible. The Unit is dedicated to making university life enjoyable for its students offering a wide range of services and support that complement the University's existing resources, including tailored support from the Wirltu Yarlu Student Services Officers (SSOs).

And on-going support when you're here

The SSOs work closely with Faculties and other University services to enhance the student experience, applying a cultural and holistic lens at every step of the journey, enabling a space and community that fosters growth and celebrates Aboriginal and Torres Strait Islander students to feel proud of their Culture and confident in their academic abilities.

My fondest memories of studying at the University of Adelaide are definitely of the friendships formed with other students, especially at Wirltu Yarlu. The support, encouragement, and belief in my achievement that I received kept me going in the tough times and ensured I had some light moments of relief even when assignments and exams loomed large."

Rebecca Richards

Adnyamathanha and Barngarla
University of Adelaide graduate
and Australia's first Indigenous Rhodes Scholar

Applying to the University of Adelaide

How to apply

Applications to University of Adelaide undergraduate programs are made online via SATAC: satac.edu.au

The application closing date for 2025 entry is 30 September 2024. Bachelor of Bachelor of Medical Studies/Doctor of Medicine, Bachelor of Oral Health and Bachelor of Dental Surgery applicants should refer to the UCAT ANZ website for information on the University Clinical Aptitude Test (UCAT ANZ) including application and test dates: ucat.edu.au/ucat-anz

International students should refer to: international.adelaide.edu.au/admissions/apply

Entry pathways

There are many pathways applicants can take to apply to the University of Adelaide, including Year 12, International Baccalaureate (IB), Subject-based entry, STAT, TAFE, Aboriginal and Torres Strait Islander Access Pathways, preparatory programs, foundation study and more.

To find out more about the available pathways, visit adelaide.edu.au/study/ undergraduate and select 'Entry Pathways' from the menu.

HECS Higher Education Loan

The Australian Parliament has recently passed amendments to the Higher Education Support Act 2003, which will affect students studying in a Commonwealth supported place from 1 January, 2021. The changes include:

- Adjusting the maximum Student Contribution amounts for different areas of study, for students commencing a new program in 2021
- Grandfathering Student Contribution amounts for continuing students
- Re-introducing the 10% HECS-HELP discount, for HECS-HELP eligible students who make an up-front payment of $500 or more towards their Student Contribution amount
- All Commonwealth supported students, and students accessing any of the HELP loans, must provide their valid Unique Student Identifier (USI).

For more information, please visit education.gov.au/job-ready/faqs

Student services and amenities fee

Students are charged an annual student services and amenities fee (SSAF) to assist with the funding of student services and amenities at the University. In 2024, the SSAF amount for full-time students was $351, and for part-time students it was $263. Fees may increase in 2025. Eligible students may defer this fee to an SA-HELP loan.

For further information about the SSAF and SA-HELP, visit adelaide.edu.au/student/finance/ssaf and select 'Student Services & Amenities Fee (SSAF)'.

Additional costs

Students may be required to pay for specialist equipment, reading materials, etc. Students are advised not to purchase any equipment until they receive their faculty/school handbook, available during orientation.

For more information on other program-related fees and charges, visit adelaide.edu.au/student/finance and select 'Other Fees and Charges'.

2024 fees and costs

(may increase for 2025) adelaide.edu.au/student/finance/domestic/contribution

Areas of study	Student contribution per 1 EFTSL (24 units)	Student contribution per 0.125 EFTSL (3 units)
Band 1: Agriculture, English, Languages, Mathematics, Nursing, Postgraduate Clinical Psychology, Teaching	$4,445	$555
Band 2: Allied Health, Architecture, Engineering, Environmental Studies, IT, Performing Arts, Professional Pathway Psychology*, Science	$8,948	$1,118
Band 3: Dentistry, Medicine, Veterinary Science	$12,720	$1,590
Band 4: Accounting, Administration, Behavioural Science (not Professional Pathway Psychology*), Economics, Humanities, Law, Media, Social Studies	$16,323	$2,040

Adjustment factors

SATAC centrally administers two South Australian Universities adjustment factors schemes. The two schemes are the SA Universities Equity Scheme and the SA Language, Literacy and Mathematics Adjustment Factors Scheme.

For more details, visit adelaide.edu.au and search 'adjustment factors'.

Degree intake

Many undergraduate degrees will allow students to begin study in February or July. Please refer to individual degrees on Degree Finder (adelaide.edu.au/degree-finder) to check whether midyear entry is available.

Where Degree Finder states 'subject to availability' applicants should contact our Future Students Team for more information: future.ask.adelaide.edu.au

Deferring your studies

Most undergraduate degrees can be deferred for up to two years. Please refer to specific degrees for exceptions.

English language requirements for international students

All international students undertaking an Australian Year 12 program are required to achieve a Pass grade or above in one of the approved English as a Second Language or English language subjects. If an applicant attempts, but does not pass, the English language subject, then alternative options, such as an acceptable English language proficiency test result, may be arranged.

Successful completion of the International Baccalaureate (IB) diploma meets the English language requirements of the University of Adelaide.

Unique Student Identifier

A Unique Student Identifier (USI) is a reference number that creates an online record of your qualifications attained in Australia. All students undertaking a higher education qualification, need a USI in order to receive a qualification upon successful completion from 2023, and to receive commonwealth financial assistance from 2021.

For more details, visit usi.gov.au/students/get-a-usi

More information

Find answers to your questions using our online Knowledge Base, or our helpful staff can respond via email to your enquiries. Please see back cover for contact details.

Further enquiries

The University of Adelaide SA 5005 Australia
enquiries future.ask.adelaide.edu.au
phone +61 8 8313 7335
free-call 1800 061 459
web adelaide.edu.au
facebook facebook.com/uniofadelaide
twitter twitter.com/uniofadelaide
snapchat snapchat.com/add/uniofadelaide
instagram instagram.com/uniofadelaide
wechat UniversityOfAdelaide
weibo weibo.com/uniadelaide

Australian University Provider Number PRV12105
CRICOS Provider Number 00123M

May 2024. 2nd edition. Job no. 7330

Kaurna acknowledgement
We acknowledge and pay our respects to the Kaurna people, the original custodians of the Adelaide Plains and the land on which the University of Adelaide's campuses at North Terrace, Waite, and Roseworthy are built. We acknowledge the deep feelings of attachment and relationship of the Kaurna people to country and we respect and value their past, present and ongoing connection to the land and cultural beliefs. The University continues to develop respectful and reciprocal relationships with all Indigenous peoples in Australia, and with other Indigenous peoples throughout the world.