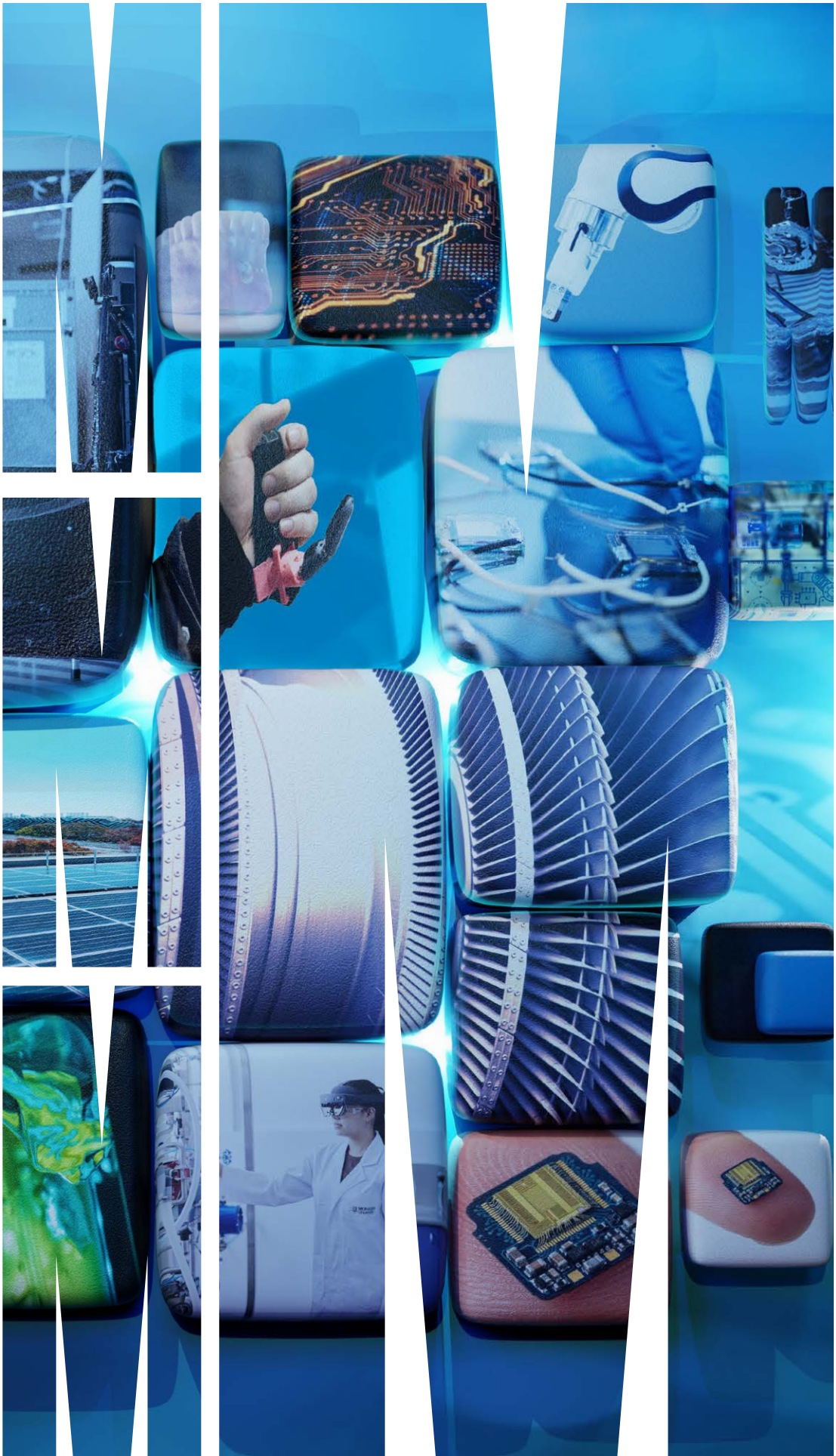
MONASH University

2027
ENGINEERING
UNDERGRADUATE
COURSE GUIDE

ENGINEERING UNDERGRADUATE



MONASH ENGINEERS DESIGN THE FUTURE

MONASH UNIVERSITY recognises that its Australian campuses are located on the unceded lands of the people of the Kulin Nations, and pays its respects to their Elders, past and present.

WORLD RANKINGS

#36

IN THE WORLD
QS WORLD UNIVERSITY RANKINGS 2026

#51

IN THE WORLD FOR ENGINEERING AND TECHNOLOGY
QS World University Rankings by Subject, 2026

TOP 100

IN 12 ENGINEERING SUBJECTS GLOBALLY
Academic Ranking of World Universities, 2025

Become part of a world-class team of engineers, driven by the passion and commitment to deliver sustainable solutions for today's global challenges, including climate, energy, transportation, water, health and communications.

Whether you aspire to contribute to the health of the planet, become the CEO of your own start-up, or become a world-leading researcher, Monash Engineering is where your journey starts.

Kick-start your future at a global top 40 university and graduate ready for a successful career.

MONASH NOVA ROVER

Student-led team competing in international rover competitions, designing and building Mars rovers. The team brings together students from engineering, science and IT to solve real-world space exploration challenges.

CONTENTS

ENGINEERING SPECIALISATIONS

COURSE INFORMATION FAST FACTS

Look for these icons on each course page for key information.

- Location
- Duration
- Intakes
- Requirements[1]
- Specialist course

1 Entry scores listed in the fast facts section are for domestic students only. For international entry requirements see page 30.

GRADUATE OUTCOMES

98%

STUDENTS WHO DO A CO-OP INTERNSHIP RECEIVE A JOB OFFER FROM THE COMPANY

93.3%

MONASH ENGINEERING GRADUATES ARE IN FULL-TIME EMPLOYMENT WITHIN 4 MONTHS

2023 Graduate Outcomes Survey (GILT)

39K+

ENGINEERING ALUMNI FROM MORE THAN 90 COUNTRIES

2026

ENGINEER YOUR DEGREE

FOUR-YEAR DEGREE TAILORED TO YOUR FUTURE

START WITH A COMMON FIRST YEAR

Be immersed in engineering from day one. You'll gain a solid foundation of scientific and design fundamentals, whilst discovering which specialisation best aligns with your goals and interests.

10 SPECIALISATIONS

In second year you will select your specialisation, enabling you to focus on your area of interest.[1]

MINORS

Option to add a minor from another engineering discipline or emerging field in your third year.

INDUSTRY EXPERIENCE

Graduate job-ready with professional development and industry experience that is built into the course.

QUALIFIED AND ACCREDITED

Recognised by Engineers Australia and the Washington Accord, our graduates are accredited to work in Australia and other countries including Canada, China, India, Japan, Singapore, UK and USA.

ENGINEERS AUSTRALIA

DOUBLE YOUR QUALIFICATIONS

DOUBLE DEGREE

Complement and extend your engineering degree by gaining a double degree with only one extra year of study.[2]

ACCELERATED MASTERS

The Master's Accelerated pathway gets you on a fast-track to a postgraduate qualification in just 4.5 years.

EXPAND YOUR EXPERTISE

INDUSTRY PLACEMENTS

Apply your knowledge and skills in the real world with one of the many Monash Industry Experience programs.

STUDENT TEAMS

Join one of our world-renowned student teams. Compete in local and international competitions whilst working alongside team sponsors and industry partners.

EXPLORE RESEARCH

Take a deeper dive to gain research experience via final year projects and other research opportunities.

GLOBAL EXCHANGE

Take the opportunity to study abroad at more than 100 partner universities.

1 Biomedical engineering specialisation is selected from the first year.
2 Additional 1.5 years for Engineering and Arts double degree. Additional 2.5 years for Engineering and Laws double degree.

WITH ALL THE SUPPORT YOU NEED. REALISE YOUR FULL POTENTIAL.

WORLD-CLASS FACILITIES

Thrive in our dynamic and interactive learning spaces, state-of-the-art fabrication facilities and collaborative makerspaces.

LEARN FROM THE BEST

Learn the latest engineering concepts from professors and lecturers who are leaders in their fields. Your labs and hands-on workshops are also supported by teaching associates with recent experience as students themselves.

GENEROUS SCHOLARSHIPS

Monash celebrates academic excellence and diversity, and we offer a range of scholarships and awards to help ensure money and circumstances aren't barriers to you getting a world-leading engineering education.

MENTORING AND SUPPORT

- Peer mentors for all first-year students
- Women in Engineering at Monash (WEM) student team and Women in Engineering mentoring program
- Mentoring, support and outreach programs for Indigenous students
- LGBTIQ+ mentoring and support (GLEAM).

VIBRANT AND INCLUSIVE CAMPUS

Feel alive in a multicultural environment with exceptional social, cultural and sporting facilities, a huge range of food choices, medical and wellbeing services and a comprehensive orientation program.

LIFE-LONG CONNECTIONS

Build your networks through student teams, clubs and societies and our Monash Engineering alumni network of more than 39,000 graduates from 90 countries.

A CAREER IN ENGINEERING

Engineers are creative, imaginative, analytical and technical, with excellent teamwork skills. As an engineer, you'll apply science and mathematics in a practical way to design and develop new technologies and improve existing ones.

CONSIDER A CAREER IN ENGINEERING IF YOU:

- are curious about how things work
- have an interest in improving the quality of human life
- like analysing and solving problems
- enjoy designing and building things
- like working with lots of different people in multidisciplinary teams
- are interested in maths and science
- are goal-oriented
- enjoy challenges

WHAT DO ENGINEERS DO?

Engineers solve problems, figure out how things work and create solutions. They're key to the development of society and solving the challenges faced by our world, such as climate change, natural resource depletion, food shortages, clean drinking water supply and increased energy demands. Engineers possess a rare combination of skills and qualities that place them in demand in many industries. An engineer's career is diverse, interesting, and can be anywhere in the world.

As a qualified engineer, you'll also be equipped to work in many areas outside of engineering, such as management, banking and consulting. Problem-solving and planning skills, combined with a focus on the future and continuous improvement, make engineers excellent business leaders.

UNLIMITED CAREER OPTIONS

Engineers design, build and test everything we use to create a liveable and sustainable world. Their unique skills are needed in nearly every industry. With hundreds of different types of engineering jobs, the possibilities are endless.

Some of our graduates have gone on to successful careers as:

- Biomaterials and nanotechnology engineers in medical development companies
- Global development engineers for non-governmental organisations (NGOs)
- Chemical process engineers in the food and agriculture industry
- Project manager, consultant, or industrial designer in building and construction
- Computer scientist and wireless network engineer in telecommunications
- Artificial Intelligence and software engineers in the defence force
- Capital works engineer in sustainability, water and energy field
- Executive Director of access and operations in a global mining company
- Robotics and avionics engineers for an international space agency
- Director of transport modelling and mapping for a government infrastructure authority
- Entrepreneur and business owner in a start-up tech company
- CEO and Chief Engineers in the automotive industry.

As a Monash Engineering graduate, you'll be a highly sought-after industry professional when you first enter the workforce and throughout your career.

$120K

AVERAGE AUSTRALIAN ENGINEERING SALARY

Adzuna Job Report, 2024.

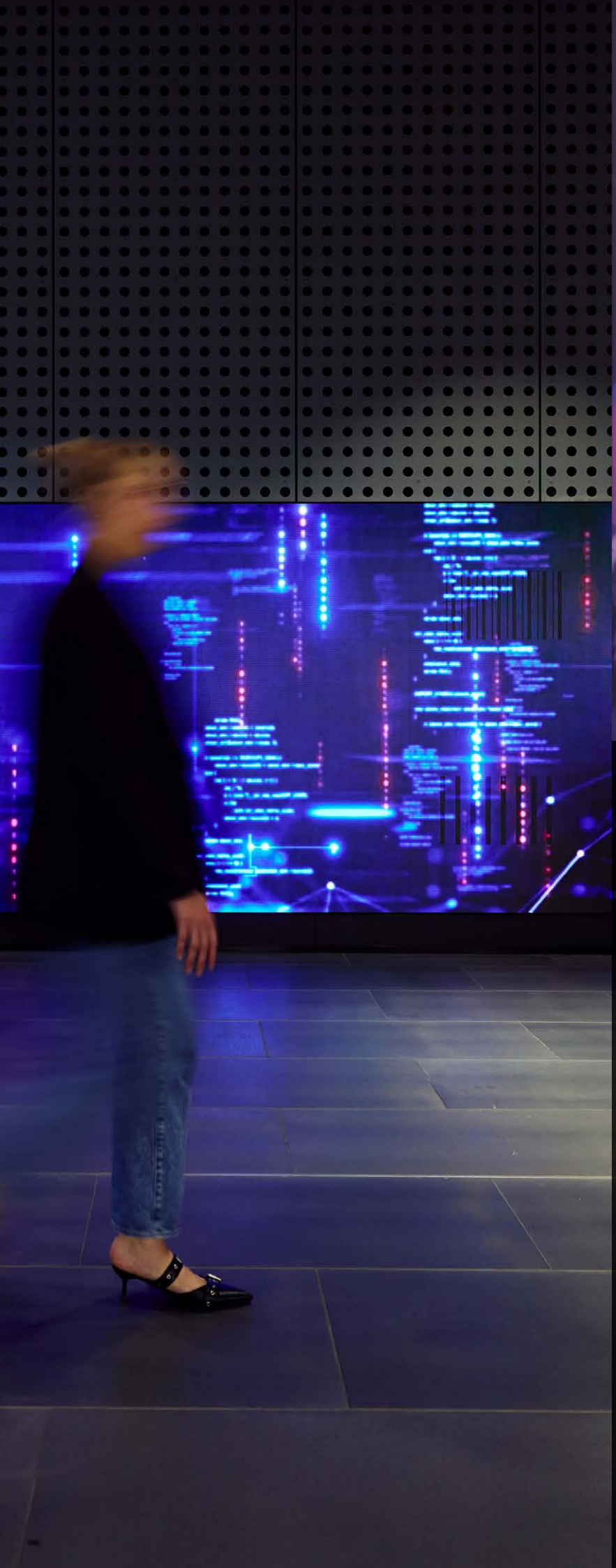
93.3%

ENGINEERING GRADUATES ARE IN FULL-TIME EMPLOYMENT WITHIN FOUR MONTHS

2023 Graduate Outcomes Survey – Longitudinal, Quality Indicators for Learning and Teaching (QILT).

JOBS IN ENGINEERING ARE PREDICTED TO GROW OVER THE NEXT FIVE YEARS – TWICE AS FAST AS NON-STEM JOBS

Employment Outlook – March 2022, Australian Government.



AT LUNAR OUTPOST OCEANIA, I GET TO WORK WITH A BUNCH OF AMAZING, TALENTED PEOPLE FROM ALL OVER THE COUNTRY TO BUILD AUSTRALIA'S FIRST LUNAR ROVER, ROO-VER.

As a mechanical engineer, my work involves creating CAD models, 3D printing, designing machined parts and conducting research on the lunar landscape. Specifically understanding how to design systems to survive the lunar dust, radiation, vacuum, launch and thermal environments."

CHLOE CHANG

Mechanical Engineer, Lunar Outpost Oceania
Bachelor of Robotics and Mechatronics Engineering (Honours) Graduate

WORLD-CLASS FACILITIES

The engineering precinct at Monash University provides facilities that will enhance your personal learning experience.

MONASH MAKERSPACE

The Monash Makerspace is a facility with the latest equipment for our students, staff, alumni and industry partners to come together to build, design and create, and encourage entrepreneurial activities.

Other student collaboration, design and technical lab spaces:

- Design and Build Studios: equipped with industry-standard simulation, prototyping, fabrication, and manufacturing facilities for student projects.
- Digital Makerspace: equipped with high-performance tools to support IT and engineering student teams in cultivating their technology, coding, and AI projects.
- Student Analytical Makerspace and Pilot Lab: purpose-built location for students to conduct wet-lab chemical and biological experiments. Featuring state-of-the-art analytical equipment, bench space and fume extraction, students can carry out experiments for their projects, in a controlled, safe environment, with technical staff on-hand where needed.
- Industry Innovation Studio: for students completing the Industry Innovation Program (IIP) to design, assemble and test industry projects.
- Monash Smart Manufacturing: offers an end to end, digitally connected, collaborative manufacturing system that interacts and responds to the changing environment and monitored processes in real-time, in the areas of Smart Manufacturing, Robotics, Digital Twins and AI.

ALAN FINKEL BUILDING FOR TECHNOLOGY AND DESIGN

The Alan Finkel Building for Technology and Design features the latest dynamic and interactive learning spaces, labs, and technology. The five-storey, smart-technology-enabled building is one of the world's most efficient and innovative teaching spaces. It fosters innovation and collaboration, allowing students to explore, design, construct, and investigate new technologies required for a sustainable energy future.

MONASH INNOVATION LABS

The Monash Innovation Labs is a vibrant ecosystem where industry partners, researchers, and students collaborate, with purpose-built infrastructure to spark insights and fast-track innovations.

The Industry Innovation, Co-operative Education, and Industry Doctoral programs are coordinated in the Monash Innovation Labs, providing students with opportunities to connect with industry, gain work experience, and boost employability.

MONASH TECHNOLOGY PRECINCT

The Monash Technology Precinct connects the university's top talent, government initiatives, and industry partners with powerful research infrastructure. The precinct has been recognised by the Global Institute for Innovation Districts (GIID) as an example of how effective land planning and zoning activities can enable innovation and foster a thriving, multipurpose ecosystem.

Monash is also home to world-class research facilities including:

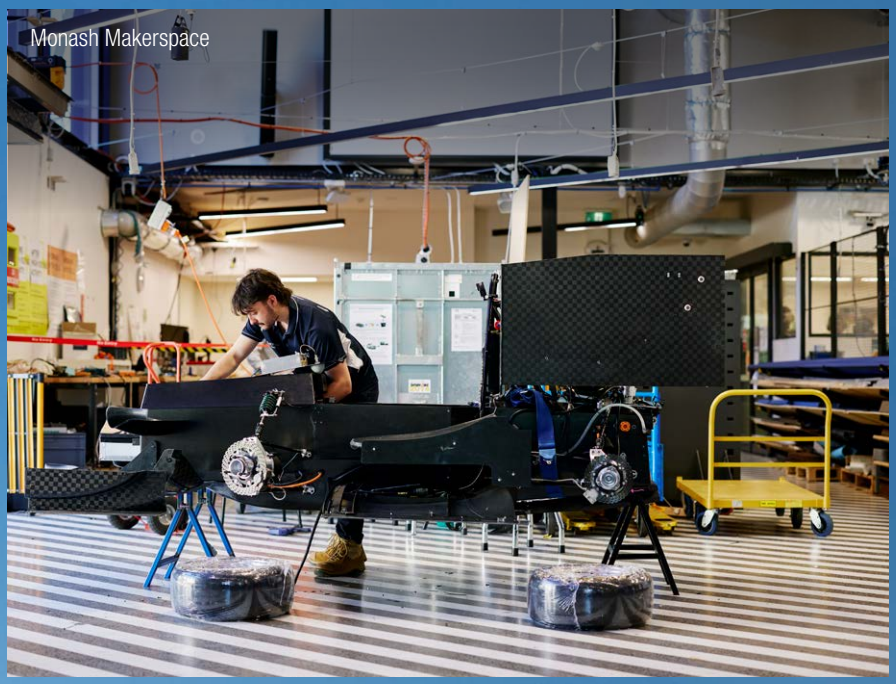
- New Horizons Research Centre
- Monash Centre for Additive Manufacturing (MCAM)
- Woodside FutureLab
- The TITAN Microscope
- X-ray Analytical Platform
- National Drop Weight Impact Testing Facility
- Monash Robotics Lab
- The Living Lab
- Australian Synchrotron.

TAKE A VIRTUAL TOUR AROUND SOME OF MONASH ENGINEERING'S FACILITIES

youtu.be/PysO9jpQUE8

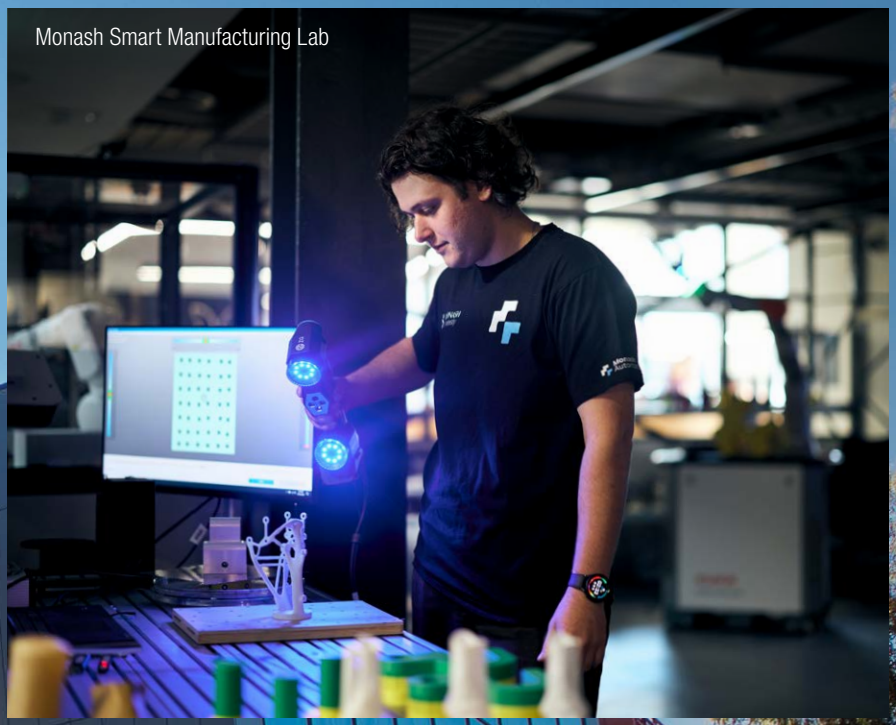
Alan Finkel Building for Technology and Design


Student Analytical Makerspace & Pilot Lab

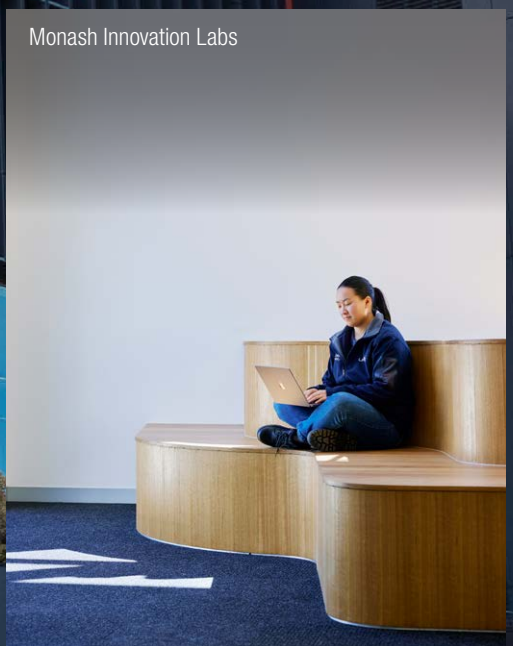

Monash Makerspace

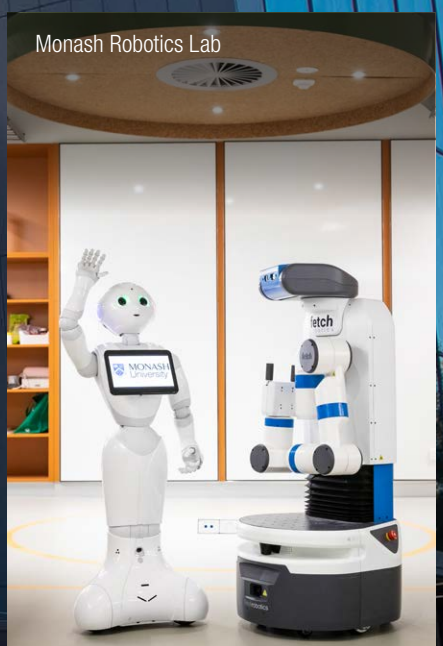

New Horizons Research Centre


Living Lab


Monash Smart Manufacturing Lab


Design and Build Studios


Monash Innovation Labs


Monash Robotics Lab


360° interactive lecture room

INDUSTRY EXPERIENCE
GRADUATE WORK-READY

Connect with industry on campus, undertake an internship or build your professional skills in the way that works best for you. Our programs help you develop leadership skills, think like an entrepreneur and gain real-world experience while you study. While you need strong academic knowledge, employers also value graduates who demonstrate interpersonal and communication skills, international perspectives, critical thinking and problem-solving abilities, giving you a competitive edge when you graduate.

CO-OPERATIVE EDUCATION PROGRAM (CO-OP)
3 or 6-month paid engineering internship with our industry partners, gain hands-on engineering skills and work experience that complements your studies and future.

monash.edu/engineering/coop

INDUSTRY INNOVATION PROGRAM (IIP)
Scholarship-based program with 3 or 6-month projects at the Monash Innovation Labs with our industry partners and academics on a project focused on innovation.

monash.edu/engineering/iip

PROFESSIONAL PRACTICE
Embedded in your degree, shape your industry experience to your interests and career goals in-class, through student teams, Industry Experience (IE), or a Co-op internship.

monash.edu/engineering/prof-practice

RESEARCH EXPERIENCE
Experience Monash's world-leading research through student teams, your Final-Year Project, or the Research, Experimentation and Discovery (RED) program, working alongside leading researchers.

monash.edu/engineering/red

EMPLOYABILITY SKILLS PROGRAM
Extend your learning beyond the classroom through professional development, industry and alumni engagement, and workshops to boost your employability and graduate prospects in the competitive job market.

monash.edu/engineering/esp

ENTREPRENEURSHIP
Turn your ideas into reality with The Generator, Monash's entrepreneurial hub offering hands-on learning, mentorship, seed funding and a community to support your startup or social enterprise.

monash.edu/entrepreneurship

ENGINEERING MENTORING PROGRAMS
Mentoring provides support, guidance, and career insights in engineering. Friends and Mentors in Engineering (FaME) helps new students settle in, while Alumni, Student, and Women in Engineering programs connect you with industry professionals for advice and experience.

monash.edu/engineering/mentoring

GLOBAL EXCHANGE
Studying overseas broadens your learning and life experience. Build an international network, gain independence and enjoy cross-cultural opportunities through over 150 partner universities in 30+ countries, through Monash Malaysia, or the Global Immersion Guarantee (GIG) program.

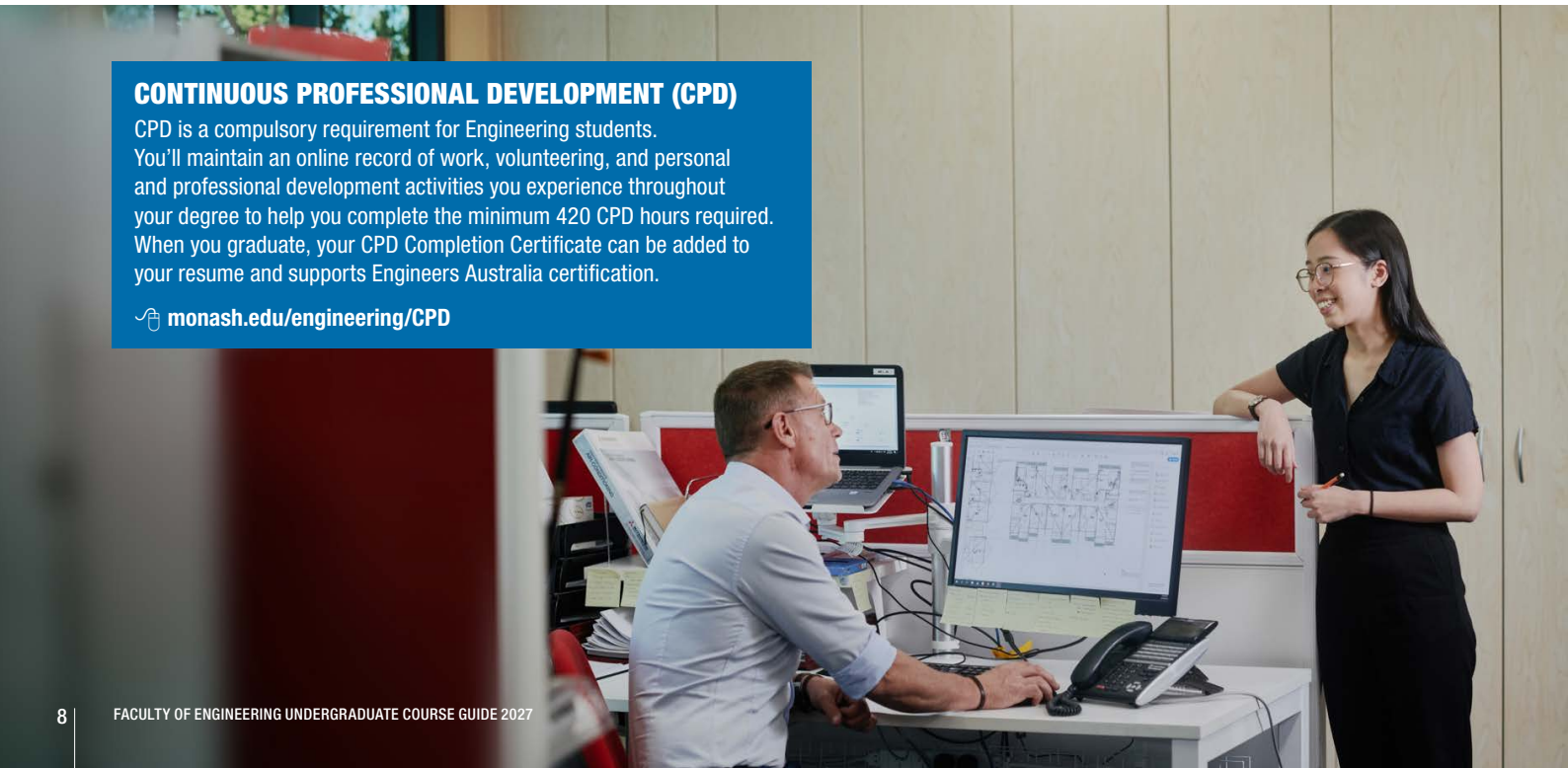
monash.edu/study-abroad/outbound

NATIONAL INDIGENOUS SPACE ACADEMY (NISA)
NISA gives Aboriginal and Torres Strait Islander STEM students hands-on experience with world-leading space research and engineering. Students attend a Space Boot Camp at Monash, then go on placements at NASA's Jet Propulsion Laboratory (US) or RAL Space (UK), developing skills in robotics, planetary science, and aerospace.

monash.edu/engineering/nisa

CONTINUOUS PROFESSIONAL DEVELOPMENT (CPD)
CPD is a compulsory requirement for Engineering students. You'll maintain an online record of work, volunteering, and personal and professional development activities you experience throughout your degree to help you complete the minimum 420 CPD hours required. When you graduate, your CPD Completion Certificate can be added to your resume and supports Engineers Australia certification.

monash.edu/engineering/CPD



INDUSTRY EXPERIENCE TO SET YOU UP FOR SUCCESS

Monash Engineering students had the opportunity to travel to Seattle, United States, for a summer internship at Amazon Prime Air, where they contributed to developing the next-generation drone delivery system. Working alongside technical mentors, managers, and fellow interns, they developed innovative solutions while gaining hands-on experience with cutting-edge technology and tools at a leading global technology company.

Chris Yu, a recent Robotics and Mechatronics Engineering and Computer Science graduate who interned at Amazon, is now employed there as a Software Developer. In his fifth year, he undertook a Co-op internship to gain a clearer understanding of his career aspirations.

"I worked on a project to securely log and compress video images from drone flights so they can be transferred over PCIEs and stored for future use. The stand-out moment of my internship was producing my first demo. Following the research, I developed existing code and ran performance tests to identify and nominate a candidate solution. The proposed solution I produced was vital and will contribute to the final product in the next major release. After my time at Amazon, working alongside some incredible people, it has motivated me to strive for better – there's a lot I want to achieve in my lifetime."

"The Monash students have worked and contributed to our perception system and how we code it, our flight safety calculations, and also our business system programs where Prime Air has to integrate into the Amazon ecosystem - not a simple thing. Their fresh view has been fantastic. The feedback from our managers and leaders is: the students were able, with instruction, to bolt in and to work through projects and add value to us. And hopefully, we added value to their experience along the way."

DAVID CARBON

Vice President
Prime Air at Amazon

prime air

98%

OF STUDENTS RECEIVE JOB OFFERS FROM THEIR CO-OP EMPLOYER

SEE WHAT IT'S LIKE TO INTERN AT AMAZON PRIME AIR

Scan or visit:

youtu.be/bkocpLRMO7Y

STUDENT TEAMS AND CLUBS

Student-led teams, clubs and societies can give you a head start and prepare you for your career, providing opportunities to put theory into practice in a design-build-compete environment. Develop hands-on skills, solve real problems and compete on the world stage. Form lasting friendships, industry connections and develop your professional skills whilst pursuing areas you're passionate about.

Joining a student team will set you up for career success. It's how you distinguish yourself from the crowd and demonstrate to future employers that you can translate your studies into practice. You'll get to experience authentic, real-world projects and challenges. Work in diverse, multidisciplinary teams to deliver innovative products or drive change to make the world a better place.

Our student-run clubs and societies provide opportunities to connect with like-minded people, learn new skills and network with professional engineers to expand your circles and employment opportunities. Build strong links with the local engineering industry and take advantage of innovative facilities and leading research. Some of the groups are:

MONASH ENGINEERING STUDENTS' SOCIETY (MESS)

MESS is a not-for-profit organisation that'll enrich your Monash experience through social, academic and industry experiences that are engaging and fun. MESS also produces an annual engineering careers guide, a useful resource to help you secure a job after you graduate.

MONASH NOVA ROVER

Design and build the next generation Mars and Lunar rovers. The team compete in the University Rover Challenge at the Mars Desert Research Station in the United States and the Australian Rover Challenge.

MONASH HIGH POWERED ROCKETRY (HPR)

HPR is a student team dedicated to the design, analysis and construction of high-powered rockets. They compete in the world's largest rocketry competition, the Spaceport America Cup.

MONASH SUSTAINABLE BUILDINGS

A multidisciplinary team of Engineering, Science, and Art Design and Architecture students whose mission is to create practical net-zero designs that give back to the environment and community. The team has competed in and won international competitions for their sustainable and innovative designs.

ROBOGALS MONASH

Robogals Monash is a not-for-profit organisation that aims to encourage more young women to pursue STEM career opportunities, with a focus on engineering. Robogals offers opportunities to strengthen your communication and leadership skills, and gives volunteers access to professional development opportunities within an international organisation.

MONASH DEEPNEURON (MDN)

MDN is a student-led team dedicated to advancing Artificial Intelligence (AI) and High-Performance Computing (HPC) for real-world impact. Through cutting-edge projects, workshops, and initiatives, the team explores Machine Learning, Deep Learning, Neural Networks, and Generative AI. With a strong focus on outreach and education, MDN aims to make AI and HPC more accessible, fostering understanding and innovation for all.

Other engineering clubs, teams and societies you can be involved with are:

- Engineers Without Borders
- Gay and Lesbian Engineers at Monash (GLEAM)
- Materials Engineering and Science Society
- Mechatronics Engineering Clayton Club
- Monash Aerospace and Mechanical Engineering Club
- Monash Association of Civil Engineering Students
- Monash Automation
- Monash Biomedical Engineering Student Society
- Monash Boring Excavating Student Team (BEST)
- Monash BrewLab
- Monash Carbon Capture and Conversion (MC^3)
- Monash Connected Autonomous Vehicle
- Monash Engineering and Pharmaceutical Science Society
- Monash Environmental Engineering Society
- Monash Forge
- Monash Human Power
- Monash Motorsport Malaysia
- Monash Pilot Processes
- Monash Railway Express
- Monash SynBio Tech
- Monash Uncrewed Aerial Systems
- Monash Young MedTech Innovators
- Precious Plastic Monash
- Shell Eco Marathon Team Monash
- Society of Monash Electrical Engineers
- Society of Monash University Chemical Engineers
- Sustainable Water Monash
- Transport Engineers at Monash.

Discover more info
monash.edu/engineering/student-experience/teams-and-clubs

MONASH MOTORSPORT (MMS)

Join MMS and help conceive, design, build and race a formula-style racing car. MMS has a mission to create the most competitive and well-designed formula-style race cars possible. They also developed Australia's first competition-ready Formula Student driverless car.

WOMEN IN ENGINEERING

EMPOWER YOUR FUTURE AT MONASH

Engineering is for everyone. Diversity makes engineering stronger, more creative, and more responsive to the needs of diverse communities and industries in our changing world.

At Monash University, we believe that engineering is a pathway for anyone passionate about creating real-world solutions, and we are committed to supporting young women every step of the way.

Our supportive programs start before you're even at University. The MEG program for high school girls will give you the chance to meet like-minded girls and discover what you're interested in and help you to decide if you want to study engineering.

Once you start your Engineering degree at Monash you'll be part of a supportive community that empowers you to thrive. Build connections with peers and mentors, take part in student clubs or teams, and participate in networking and other events that will continue to support you long after graduation, helping you achieve success in a world that needs your skills and innovation.

MEG PROGRAM

Monash Engineering Girls (MEG) is an exciting program for high school girls passionate about maths, science, technology, and design. If you're creative, enjoy problem-solving, and love working in teams, engineering might be your perfect fit.

Join MEG in Year 9 and stay until Year 12, where you'll participate in special activities and have access to exclusive events that introduce you to different types of engineering and help you discover which one suits you best. Along the way, you'll connect with like-minded peers and current Monash Engineering students and lecturers, gaining insight into what it's really like to study engineering at Monash.

For more information or to join the MEG program, visit:

monash.edu/engineering/meg

SUPPORTIVE AND CONNECTED COMMUNITY

There's many programs, events and opportunities for you to connect with your peers and lecturers, learn from a mentor who's walked the path before you or hear from accomplished women in engineering and be inspired.

The student-run clubs, teams and societies such as Women in Engineering at Monash, Robogals, GLEAM provide opportunities to join with like-minded people, learn new skills and network with women in STEM to expand your circles – and your opportunities.

WOMEN IN ENGINEERING AT MONASH (WEM)

WEM is a student-run club that supports, inspires and connects a network of women-identifying engineers at Monash. The society delivers a variety of events and industry guides to give you easy access to information that helps you make the most of your uni experience, and make a smooth transition into the workplace.

wem-monash.org

MENTORING PROGRAM

The Women in Engineering (WIE) Mentoring Program connects penultimate and final year students with industry professionals and alumni to build networks, gain real-world insights, and grow professionally. It supports women to thrive in their studies and careers, while giving mentors the opportunity to empower the next generation of engineering professionals.

monash.edu/engineering/women-in-engineering-mentoring

FIND OUT MORE ABOUT MEG

Scan or visit:
go.monash.edu/j68jg3

COMMITMENT TO DIVERSITY AND INCLUSION

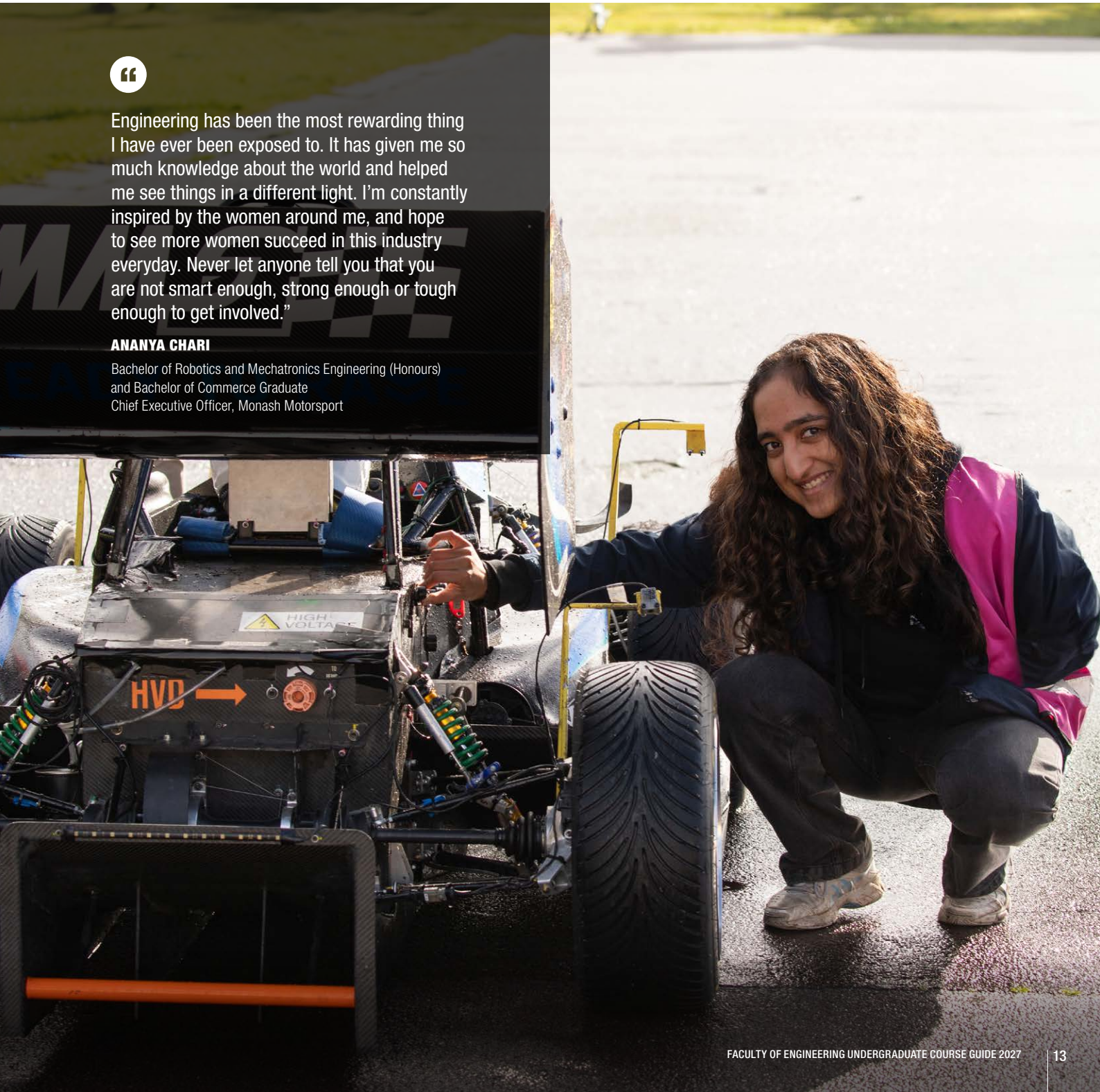
Monash is committed to inspiring and supporting young women to pursue a career in engineering and other STEMM fields. We are proud to hold five SAGE Cygnet awards as part of our work towards Athena SWAN Silver accreditation – a globally recognised program for advancing gender equity, diversity, and inclusion.

This year 24% of students studying engineering at Monash identify as women, compared to the national average of approximately 18 percent.[1] We are dedicated to gender equity and expanding initiatives to support women in engineering to achieve their full potential.

SCHOLARSHIPS

Monash offers a number of dedicated scholarships for Women in Engineering. There's no need to complete a separate application, it's automatically assessed. We want women interested in engineering to be able to access our world-leading education, regardless of their background or economic status.

1 Engineers Australia



"Engineering has been the most rewarding thing I have ever been exposed to. It has given me so much knowledge about the world and helped me see things in a different light. I'm constantly inspired by the women around me, and hope to see more women succeed in this industry everyday. Never let anyone tell you that you are not smart enough, strong enough or tough enough to get involved."

ANANYA CHARI

Bachelor of Robotics and Mechatronics Engineering (Honours) and Bachelor of Commerce Graduate
Chief Executive Officer, Monash Motorsport

OUR COURSES

BACHELOR OF ENGINEERING (HONOURS) DEGREE

At Monash you can become a fully qualified and accredited engineer in just four years. Our world-leading team of engineers will immerse you in engineering from day one. Your degree kicks off with a common first year, where you'll gain an understanding of scientific and design fundamentals, and the interaction between engineering and society. You'll also explore the ten engineering disciplines[1] before deciding which to specialise in from second year. See pages 17-26.

Professional and leadership skills, hands-on learning and industry experience are all part of the curriculum, so you can graduate work-ready. See page 8.

If you are completing a single degree course, you can complement your specialisation with a minor[2] in emerging engineering fields and expand your career opportunities. See page 27.

We also offer you the opportunity to broaden your options with a double degree, which can be completed in just one additional year.[3] See page 15.

OTHER GRADUATE STUDY OPTIONS

Whether you want to gain a professional edge, or are looking to explore your specialisation at an advanced level or pursue research interests, graduate study will take your qualification and career outcomes to the next level.

- Master of Advanced Engineering
- Master of Engineering
- Master of Professional Engineering
- Master of Engineering Science by Research
- Master of Transport and Mobility Planning
- Doctor of Philosophy (PhD)
- Industry Doctoral Program

For more information on all the graduate study options available, visit:

monash.edu/engineering/postgraduate-study

MASTER'S ACCELERATED PATHWAY

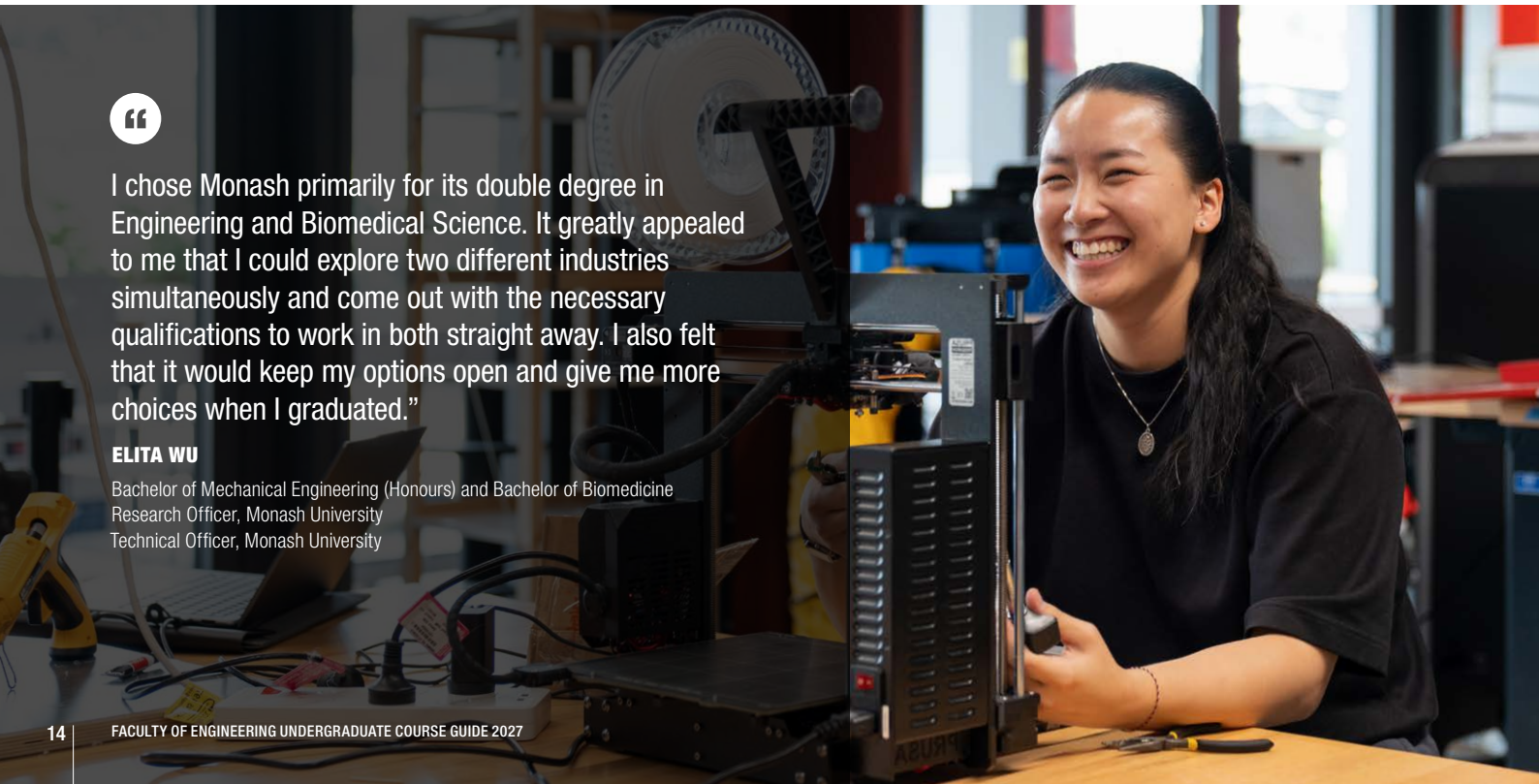
BACHELOR OF ENGINEERING (HONOURS) AND MASTER OF ENGINEERING

Graduate with a bachelor's degree plus an expert master's degree in just four and a half years. This accelerated pathway program is designed for high-achieving students to be on track to earn both a Bachelor of Engineering (Honours) and a Master of Engineering degree. You'll receive outstanding practical and theoretical preparation for a career in engineering, with a rich selection of specialist electives and strong links to industry.

The master's will extend your technical knowledge and provide you with advanced leadership and complex problem-solving skills. It is designed to foster innovative thinking, entrepreneurship, and professional development. The Master's Accelerated Pathway fast-tracks you to a graduate qualification, saving you on fees, study time, and improving your employment outcomes.

monash.edu/engineering/masters-accelerated-pathway

1 The common first year is not available for the biomedical engineering specialisation. Apply directly to the Bachelor of Biomedical Engineering if you intend to choose this specialisation.
2 Minors are for single degree course only and not available in some specialisations. See: **monash.edu/engineering/minors** for details.
3. Additional 1.5 years for Engineering and Arts double degree. Additional 2.5 years for Engineering and Laws double degree.



"I chose Monash primarily for its double degree in Engineering and Biomedical Science. It greatly appealed to me that I could explore two different industries simultaneously and come out with the necessary qualifications to work in both straight away. I also felt that it would keep my options open and give me more choices when I graduated."

ELITA WU

Bachelor of Mechanical Engineering (Honours) and Bachelor of Biomedicine
Research Officer, Monash University
Technical Officer, Monash University

DOUBLE YOUR CAREER OPTIONS

Earn two degrees with only one[1] extra year of study and broaden your career opportunities. Combining engineering with another degree gives you a distinct set of skills and helps you stand out in today's competitive job market, offering diversity, more career choices and flexibility.

	Architectural Design	Arts	Biomedical Science	Commerce	Computer Science	Design[2]	IT	Laws (Honours)[1]	Pharmaceutical Science[3]	Science
Aerospace		●		●				●		●
Chemical		●	●	●				●	●	●
Civil	●	●	●	●				●		●
Electrical and computer systems		●	●	●	●		●	●		●
Environmental		●		●						●
Materials		●	●	●						●
Mechanical		●	●	●		●		●		●
Robotics and Mechatronics		●		●	●		●			●
Software		●		●	●		●			●

ARCHITECTURAL DESIGN

The building industry needs engineers with architectural expertise. Combining architectural design with civil engineering fosters creative solutions for social and engineering challenges. Graduates gain skills to design, renovate, and improve structures, making them highly valuable to firms globally.

ARTS[1]

Combining an engineering degree with an arts degree provides complementary skills in technology and communications. You'll develop the transferable skills employers are looking for: communication, teamwork, research and critical thinking.

BIOMEDICAL SCIENCE

A double degree in engineering and biomedical science prepares you to meet the growing demand for technological solutions in the evolving field of biological sciences, where engineering increasingly integrates with advances in biomedical science.

COMMERCE

Do you dream of making it big in the business world? Many CEOs of major corporations have engineering qualifications. People with sound business skills and a strong technological background are consistently in demand across many industries and organisations.

COMPUTER SCIENCE

Computer science tackles growing information challenges. Industry needs experts to extract and analyse data from engineering processes/devices. Blending theory and practice to solve engineering problems and drive innovation across the IT spectrum.

DESIGN[2]

Have an eye for form and function? Enjoy building things? Combine mechanical engineering with design as a product design engineer. Create ergonomic, functional products by integrating engineering, creativity, and manufacturing expertise.

INFORMATION TECHNOLOGY

The connection between engineering and IT will only grow with technological advancements. IT supports engineering across all disciplines, and industry needs graduates skilled in both. This double degree develops creative problem-solving skills to apply IT in engineering.

LAWS (HONOURS)[1]

An engineering and laws double degree connects technology with legal expertise, equipping engineers to navigate legal, corporate, and political implications. Graduates can practise as solicitors or join legal teams in engineering, manufacturing, or technology firms.

PHARMACEUTICAL SCIENCE[3]

There's an increasing demand for pharmaceutical scientists with the expertise to take products from the design and formulation stage through to manufacturing. This double degree combines chemical engineering and pharmaceutical science to produce graduates capable of covering the full spectrum of pharmaceutical product design and development processes.

SCIENCE

Engineering is concerned with the application of science; however, many engineers are fascinated by scientific investigation and eager to enhance their understanding of the pure sciences. You may choose to combine engineering with food science, technology, explore the fundamentals of the cosmos through astrophysics or the human body.

For more information, visit
monash.edu/engineering/double-degrees

1 Additional 1.5 years for Engineering and Arts double degree. Additional 2.5 years for Engineering and Laws double degree.
2 Industrial design only.
3 Formulation science only.

Clayton

4.5 years full-time[2]
9 years part-time

February

ATAR: 90.25[1]
IB: 35.50[1]
MG: 80.10

Specialist and
Expert master's

UNDERGRADUATE SPECIALISATIONS[2]

- Aerospace
- Chemical
- Civil
- Electrical and computer systems
- Environmental
- Materials
- Mechanical
- Robotics and mechatronics

MASTER'S SPECIALISATIONS[2]

- Biological engineering
- Civil engineering
- Electrical engineering
- Energy transition engineering
- Engineering management
- Materials engineering
- Mechanical engineering
- Power systems engineering
- Renewable energy
- Smart manufacturing

CRICOS: 001722B

1 The scores provided are to be used as a guide only, and are either the lowest selection rank to which an offer was made in 2026 or an estimate (E).
MG: Monash Guarantee
2 Refer to the website for available specialisations at the master's level.

Discover more at
monash.edu/engineering/masters-accelerated-pathway

MASTER'S ACCELERATED PATHWAY

Graduate with both a Bachelor's and a Master's degree by adding just one extra semester to your study.

In the Master's Accelerated Pathway, you can earn both a Bachelor of Engineering (Honours) and a Master of Engineering in as little as 4.5 years.

With the perfect blend of practical and theoretical learning, you'll explore your passions and build real-world skills through hands-on experiences, work placements and industry connections.

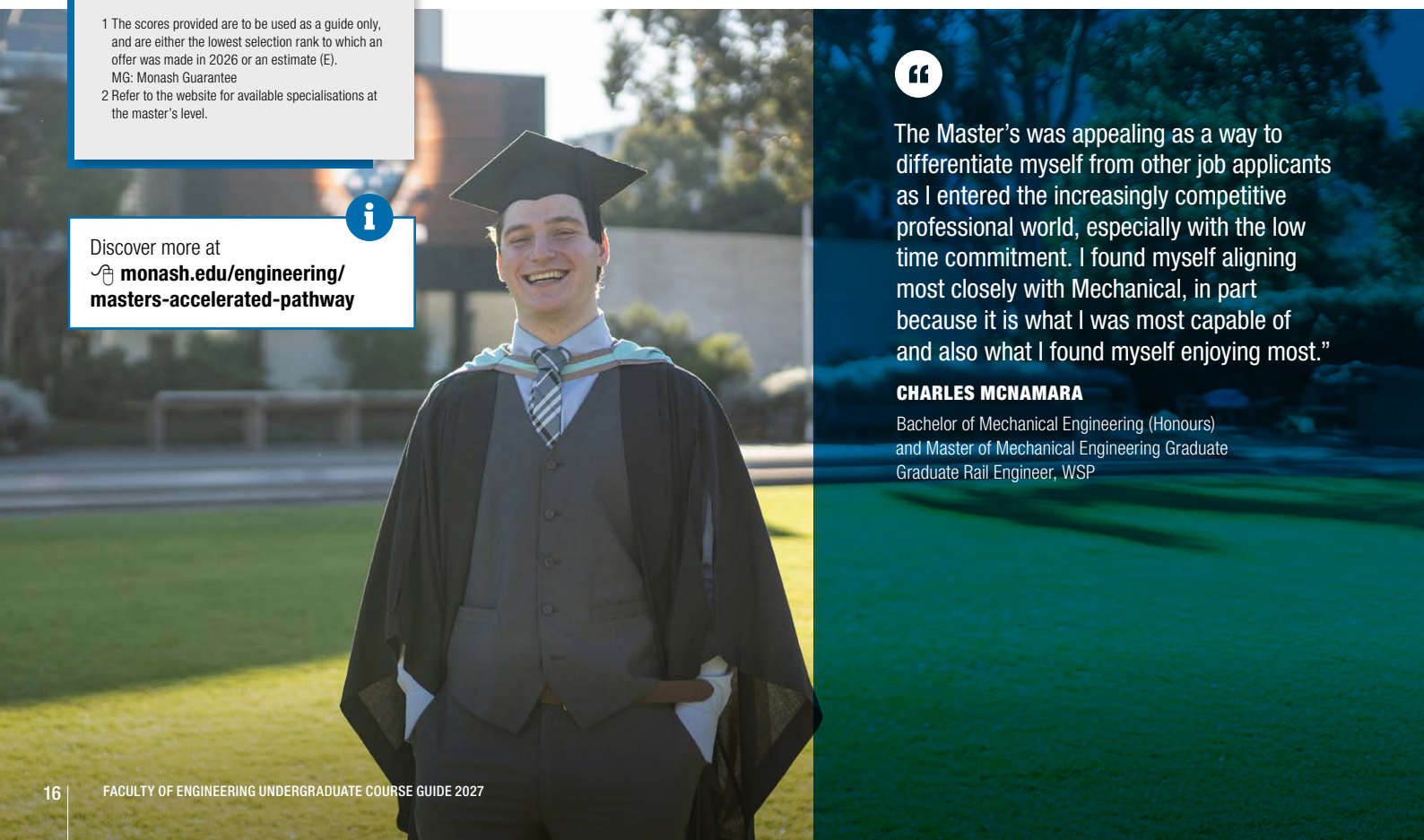
Starting with a fully accredited Bachelor's degree, you'll have the flexibility to tailor your studies and drive your future career path.

The Master's program takes your knowledge even further, developing your expertise, leadership abilities and problem-solving skills. Whether you want to deepen your Bachelor's specialisation – or explore new areas like Renewable energy or Smart manufacturing – you'll be ready to create innovative, sustainable solutions that enrich your community and your career.

You may also be eligible for one of our generous scholarships, which can help you save time and money while advancing your career prospects.

CAREER OPTIONS

- Specialist engineer or consultant within your chosen professional field
- Engineering management role in private or public sector
- Entrepreneur or founder of your own start up company.



"The Master's was appealing as a way to differentiate myself from other job applicants as I entered the increasingly competitive professional world, especially with the low time commitment. I found myself aligning most closely with Mechanical, in part because it is what I was most capable of and also what I found myself enjoying most."

CHARLES MCNAMARA

Bachelor of Mechanical Engineering (Honours) and Master of Mechanical Engineering Graduate
Graduate Rail Engineer, WSP

AEROSPACE ENGINEERING

Aerospace engineering is concerned with the design, airworthiness, development and maintenance of flight vehicles. It's a multidisciplinary combination of aerodynamics, aero-structures, avionics, propulsion, materials engineering and computational simulation.

As an aerospace engineer, you'll have the skills to tackle many of tomorrow's global challenges. You may be involved in the creation of a more environmentally-friendly aircraft, or even help build a vehicle capable of exploring our solar system and beyond. Project work includes the use of wind tunnels for aerodynamic testing, computational modelling for predicting structural behaviour, advanced manufacturing, materials and structural testing.

CAREER OPTIONS

When you graduate you could work in aircraft design and maintenance, aerospace control systems, aerodynamics, sustainable energy and conservation, lightweight materials, big data analytics, or new manufacturing techniques. You could join a large aerospace company or a manufacturer that contracts to the aerospace industry. Or work at an airline, a government aerospace laboratory or research centre. Formula One teams also employ aerospace engineers. With the establishment of the Australian Space Agency, you could work with one of the many new space launch or satellite startups in Australia. You could also follow in the footsteps of Monash aerospace alumni and work at an international space agency or multinational. Your training will also equip you to pursue a career in management, consulting or finance. Join a thrilling profession in the midst of developing the next generation of flight vehicles.

The Airbus A380, the Falcon Heavy rocket, and the Mars Perseverance Rover are just some of the advances led by aerospace engineers. Career specialisations include:

- aircraft design and testing
- avionics and control systems
- airport operations and management
- aircraft fleet management
- satellite and launch systems engineering
- research and development
- defence industries
- renewable energy
- transportation aerodynamics
- building and structure design and testing.

Clayton

4 years full-time
8 years part-time

February and July

ATAR: 85[1]
IB: 32.75[1]
MG: 75

Specialist

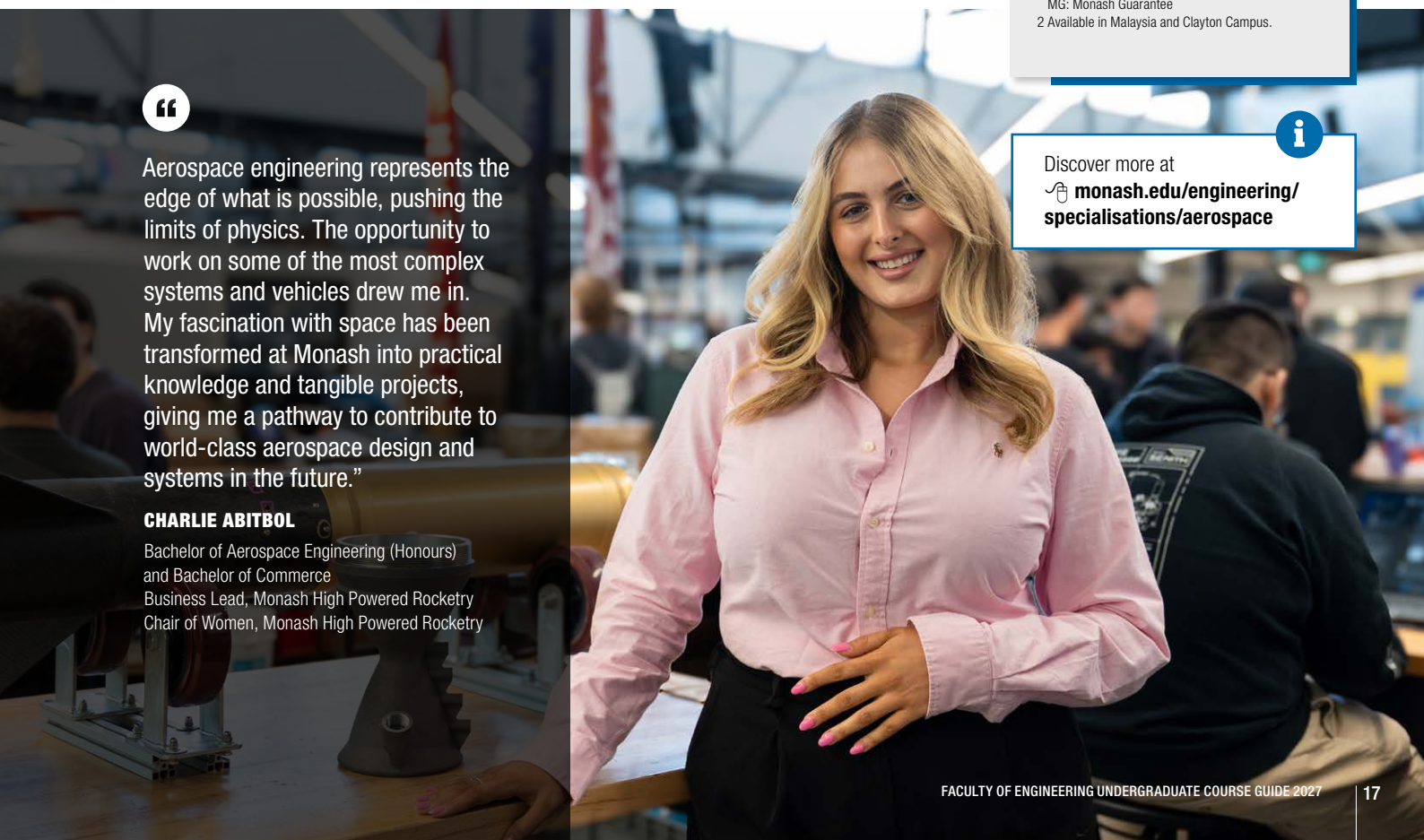
DEGREE AWARDED
Bachelor of Aerospace Engineering (Honours)

DOUBLE DEGREES
- Arts
- Commerce
- Laws (Honours)
- Science

MINORS
- Artificial intelligence in engineering[2]
- Medical technology
- Micro and nano technologies
- Mining engineering
- Renewable energy engineering
- Sustainable engineering
- Transport

CRICOS: 001722B

1 The scores provided are to be used as a guide only, and are either the lowest selection rank to which an offer was made in 2026 or an estimate (E). MG: Monash Guarantee
2 Available in Malaysia and Clayton Campus.



"Aerospace engineering represents the edge of what is possible, pushing the limits of physics. The opportunity to work on some of the most complex systems and vehicles drew me in. My fascination with space has been transformed at Monash into practical knowledge and tangible projects, giving me a pathway to contribute to world-class aerospace design and systems in the future."

CHARLIE ABITBOL
Bachelor of Aerospace Engineering (Honours) and Bachelor of Commerce
Business Lead, Monash High Powered Rocketry
Chair of Women, Monash High Powered Rocketry

Discover more at
monash.edu/engineering/specialisations/aerospace

BIOMEDICAL ENGINEERING

Clayton, Malaysia[2]

4 years full-time
8 years part-time

February

ATAR: 85.10[1]
IB: 32.75[1]
MG: 80

Specialist

DEGREE AWARDED
Bachelor of Biomedical Engineering (Honours)

CRICOS: 001722B

1 The scores provided are to be used as a guide only, and are either the lowest selection rank to which an offer was made in 2026 or an estimate (E). MG: Monash Guarantee
2 First two years are completed in Malaysia, followed by the final two years at the Clayton campus.

Discover more at
monash.edu/engineering/specialisations/biomedical

Biomedical engineers apply engineering design skills to medical and biological sciences for the purpose of improving people's health. X-rays, cardiac pacemakers, ventilators and artificial joints – these are just some of the critical technologies used everyday to save lives and promote better health outcomes, and were all designed by biomedical engineers.

As a biomedical engineer, you'll bridge the gap between medicine and technology to improve diagnostics, monitoring and therapy, and create new medical instruments and devices. Whether you design new 3D-printed prosthetics, use biomaterials to repair and regenerate cells, apply AI principles to advanced monitoring tools, or build your own start-up in the med-tech field, you'll make a powerful impact on patients' treatment, recovery and quality-of-life as a biomedical engineer.

At Monash, you'll be equipped with strong clinical, technical and regulatory foundations in professional biomedical engineering practice, taught by leading academics in physiology, anatomy, molecular biology, materials science, electrical, biomedical, mechanical and chemical engineering.

With our network of industry partners, you'll have opportunities to build your career and gain practical experience before you graduate, while the Australian-first Victorian Heart Hospital, located on the Clayton campus offers exciting opportunities to pursue biomedical engineering research.

Play a leading role in transforming 21st century healthcare, and change millions of lives around the world for the better by studying biomedical engineering.

CAREER OPTIONS

When you graduate as a biomedical engineer, you'll find exciting and rewarding opportunities in the following areas:

- medical equipment and device design and manufacturing
- medical and healthcare services
- pharmaceutical design and manufacturing
- biomedical instrumentation industries
- prosthetics
- research and development
- med-tech entrepreneurship
- engineering consultancy.

"I chose biomedical engineering because it's the intersection of engineering, biology and healthcare. I'm interested in how engineering principles can be used to understand the human body and developing technologies that improve patient care and quality of life. One highlight of my course has been learning about fluid dynamics and seeing how principles of fluid flow apply to human physiology, particularly in understanding processes like blood circulation."

KRISHA KHATRI
Bachelor of Biomedical Engineering (Honours)
Culture and Engagement Officer, Monash Young MedTech Innovators
Peer Mentor - Access, Inclusion and Success,
Monash University

CHEMICAL ENGINEERING

Chemical engineering blends chemistry with engineering and other fields including biological science, environmental science, nanotechnology, pharmaceutical science, mathematical modelling, artificial intelligence and digitalisation, mineral processing, management and economics. Many everyday items involve chemical engineering during some stage of their production: pharmaceuticals, computer chips, mobile phones, catalysts, food and water, and our fossil fuel and renewable energy sources, to name just a few.

Chemical engineers invent, develop, design and improve the sustainability of processes that convert raw materials and wastes into useful products, with minimal environmental impact. They're also involved with pollution control, energy generation and conservation, recovering energy from waste and renewable resources, and protection of the environment.

A selection of high-achieving students are given the opportunity to undertake integrated industrial training in their final year. You'll have the benefit of expert industry lecturers teaching several units in third and fourth year, in addition to frequent industry guest lecturers in all year levels. You can also take your studies further with the Master of Biological Engineering[2] accelerated pathway. Advance your skills and career opportunities with one extra semester of study.

CAREER OPTIONS

As a chemical engineer, you can:

- develop alternative fuels and renewable sources for chemicals, pharmaceuticals and power production
- design, develop or improve industrial processes and equipment for large-scale chemical and biochemical manufacturing
- design processes to capture carbon to combat global warming
- plan and test methods of manufacturing
- improve energy efficiency or reduce water and resource consumption at manufacturing sites
- develop sustainable methods for the upcycling of byproducts and waste from manufacturing processes
- devise green production processes that are safe, efficient, profitable and environmentally sound
- research naturally-occurring chemical reactions so that these processes can be copied for human benefit
- conduct environmental impact studies
- develop and implement lower emission production technologies
- research and develop new processes and products including mathematical modelling, artificial intelligence and digitalisation
- design, develop and use advanced and renewable materials.

Clayton, Malaysia

4 years full-time
8 years part-time

February and July

ATAR: 85[1]
IB: 32.75[1]
MG: 75

Specialist

DEGREE AWARDED

Bachelor of Chemical Engineering (Honours)

DOUBLE DEGREES

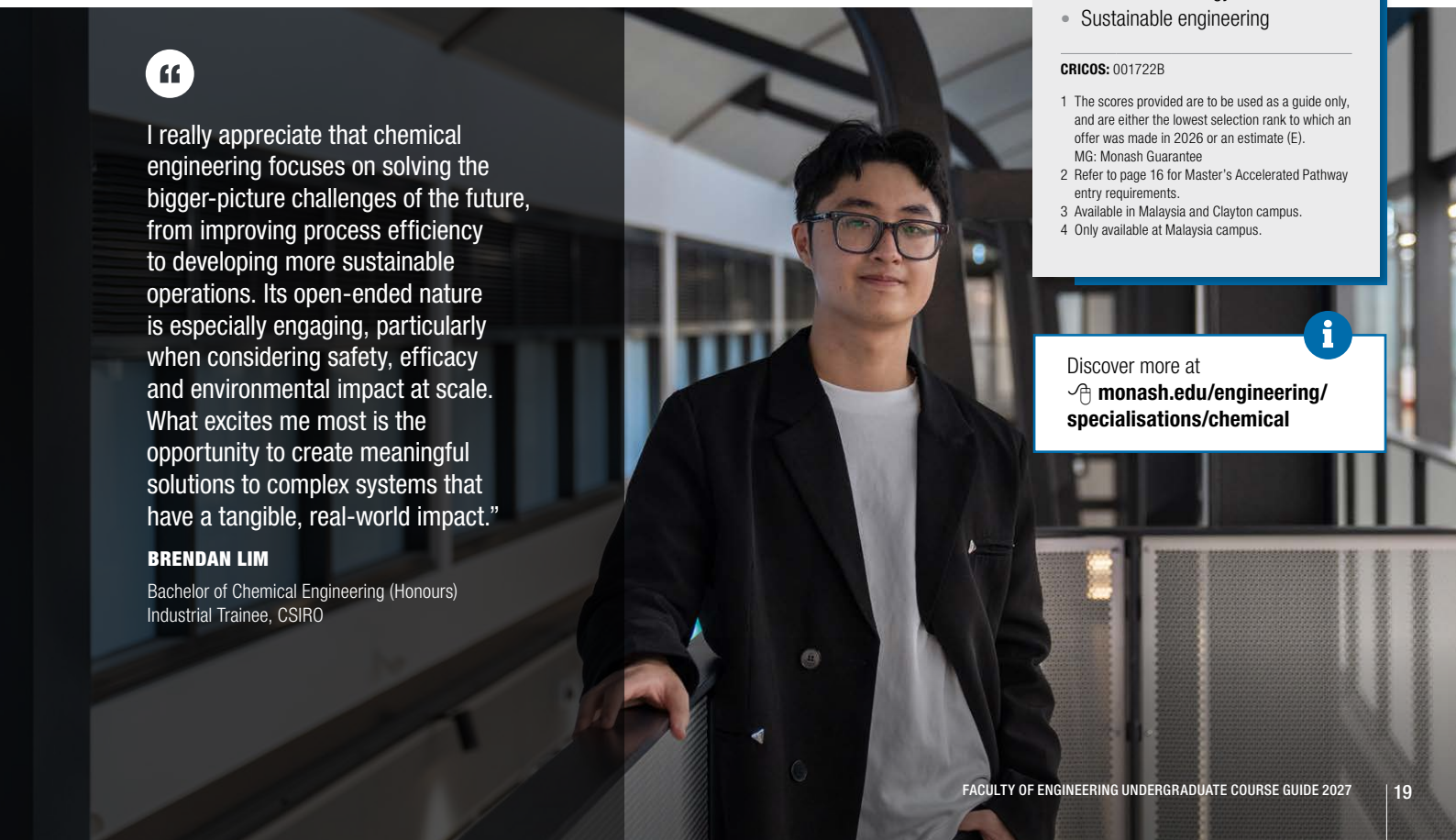
- Arts
- Biomedical Science
- Commerce
- Laws (Honours)
- Pharmaceutical Science
- Science

MINORS

- Artificial intelligence in engineering[3]
- Decarbonisation and net zero[4]
- Electric vehicle technology[4]
- Environmental engineering
- Intelligent manufacturing[4]
- Micro and nano technologies
- Mining engineering
- Renewable energy engineering
- Semiconductor[4]
- Sensory systems in Industry 4.0[4]
- Sustainable energy transition[4]
- Sustainable engineering

CRICOS: 001722B

1 The scores provided are to be used as a guide only, and are either the lowest selection rank to which an offer was made in 2026 or an estimate (E). MG: Monash Guarantee
2 Refer to page 16 for Master's Accelerated Pathway entry requirements.
3 Available in Malaysia and Clayton campus.
4 Only available at Malaysia campus.



"I really appreciate that chemical engineering focuses on solving the bigger-picture challenges of the future, from improving process efficiency to developing more sustainable operations. Its open-ended nature is especially engaging, particularly when considering safety, efficacy and environmental impact at scale. What excites me most is the opportunity to create meaningful solutions to complex systems that have a tangible, real-world impact."

BRENDAN LIM

Bachelor of Chemical Engineering (Honours)
Industrial Trainee, CSIRO

Discover more at
monash.edu/engineering/specialisations/chemical

CIVIL ENGINEERING

Civil engineers design and maintain infrastructure systems and processes that allow humans and nature to coexist with minimal impact. Modern society couldn't function without them. We need civil engineers to design the buildings we live and work in, the roads and bridges we use to travel on, and the water we need to live. We need them to construct larger commercial and industrial complexes. We need them for water supply and pollution control.

We need them to sustainably manage existing civil infrastructure such as roads, bridges and buildings. Civil engineering is more than just hard hats. At Monash we help you prepare for your civil engineering career early, learning the fundamentals and exploring emerging technologies, such as AI, 3D printing and robotics. You will also have the opportunity to gain industry experience in the major fields.

As a civil engineer, you can be involved in:

- **Structures** – design and oversee construction of buildings, bridges, airports, railways, commercial complexes, towers, offshore platforms, and tunnels. Ensure structures remain sound under extreme conditions such as heavy traffic, high winds and earthquakes.
- **Water** – plan and manage water supply and drainage systems for communities, agriculture, and industry. Develop projects to control flood waters, design dams, spillways, and pipe networks. Manage rivers and develop systems to collect and treat wastewater, and develop urban water systems.
- **Transport** – plan for the future travel needs of cities and rural areas. Investigate alternative and sustainable transport technologies including electric and autonomous connected vehicles to make existing road and traffic systems safer, more efficient, and user-focused.
- **Geomechanics** – design and analysis of foundations and support structures, slopes, waste containment facilities, dams and tunnels, as well as engineering of geomaterials for infrastructure projects.

CAREER OPTIONS

Graduating as a civil engineer, you'll find challenging and rewarding opportunities in the following areas:

- private industry and government infrastructure
- humanitarian engineering and sustainable development
- construction and mining
- roads and traffic industries
- marine and resort developments property and land development consulting firms
- environmental and renewable energy sectors.

Clayton, Malaysia

4 years full-time
8 years part-time

February and July

ATAR: 85[1]
IB: 32.75[1]
MG: 75

Specialist

DEGREE AWARDED

Bachelor of Civil Engineering (Honours)

DOUBLE DEGREES

- Architectural Design
- Arts
- Biomedical Science
- Commerce
- Laws (Honours)
- Science

MINORS

- Artificial intelligence in engineering[2]
- Electric vehicle technology[3]
- Environmental engineering
- Future mobility systems[3]
- Intelligent Manufacturing[3]
- Medical technology
- Micro and nano technologies
- Mining engineering
- Renewable energy engineering
- Sustainable engineering
- Transport

CRICOS: 001722B

1 The scores provided are to be used as a guide only, and are either the lowest selection rank to which an offer was made in 2026 or an estimate (E). MG: Monash Guarantee
2 Available in Malaysia and Clayton campus.
3 Only available at Malaysia campus.

Discover more at
monash.edu/engineering/specialisations/civil

"Growing up in Malaysia, I was fascinated by buildings and skyscrapers like the Petronas Twin Towers, and I wanted to build my own houses and high-rise buildings for a career. Thus, civil engineering felt like the most logical choice, especially as I became more interested in sustainability and the impact buildings have on the environment."

HENRY LIM

Bachelor of Civil Engineering (Honours)
Prototyping Division Lead, Monash Sustainable Buildings

ELECTRICAL AND COMPUTER SYSTEMS ENGINEERING

Electrical and computer systems engineering is an extremely diverse field, encompassing biomedical, computer systems, electronics, electrical power, AI, robotics and telecommunications. Electrical and computer systems engineers investigate, plan, design, develop, construct, test, market and maintain a wide range of products and systems.

Monash will give you the hands-on training and theoretical insight you need for an exciting future as an electrical and computer systems engineer.

You'll experience industry-standard reprogrammable chips in the laboratories from first year onwards. By third year you'll be building miniaturised machines with very powerful processing on board. In fourth year you may apply this knowledge to a 'product' of your own.

CAREER OPTIONS

As an electrical and computer systems engineer, you can design and develop digital products such as smartphones, virtual reality systems or computer games, or maybe robotic medical devices to assist in surgery and rehabilitation. Many Monash graduates work in large public and private telecommunications, manufacturing and electrical-power companies. Others work for defence and intelligence organisations. You could also work in banking and finance, or with any organisation that creates, stores, encodes and transmits big data or manages complex systems. You could work locally or internationally in a wide range of industries, including:

- power generation
- industrial and power electronics
- wireless communications
- artificial intelligence
- optical communications
- the 'Internet of Things'
- embedded systems
- computer programming
- robotics
- healthcare.

Clayton, Malaysia

4 years full-time
8 years part-time

February and July

ATAR: 85[1]
IB: 32.75[1]
MG: 75

Specialist

DEGREE AWARDED

Bachelor of Electrical and Computer Systems Engineering (Honours)

DOUBLE DEGREES

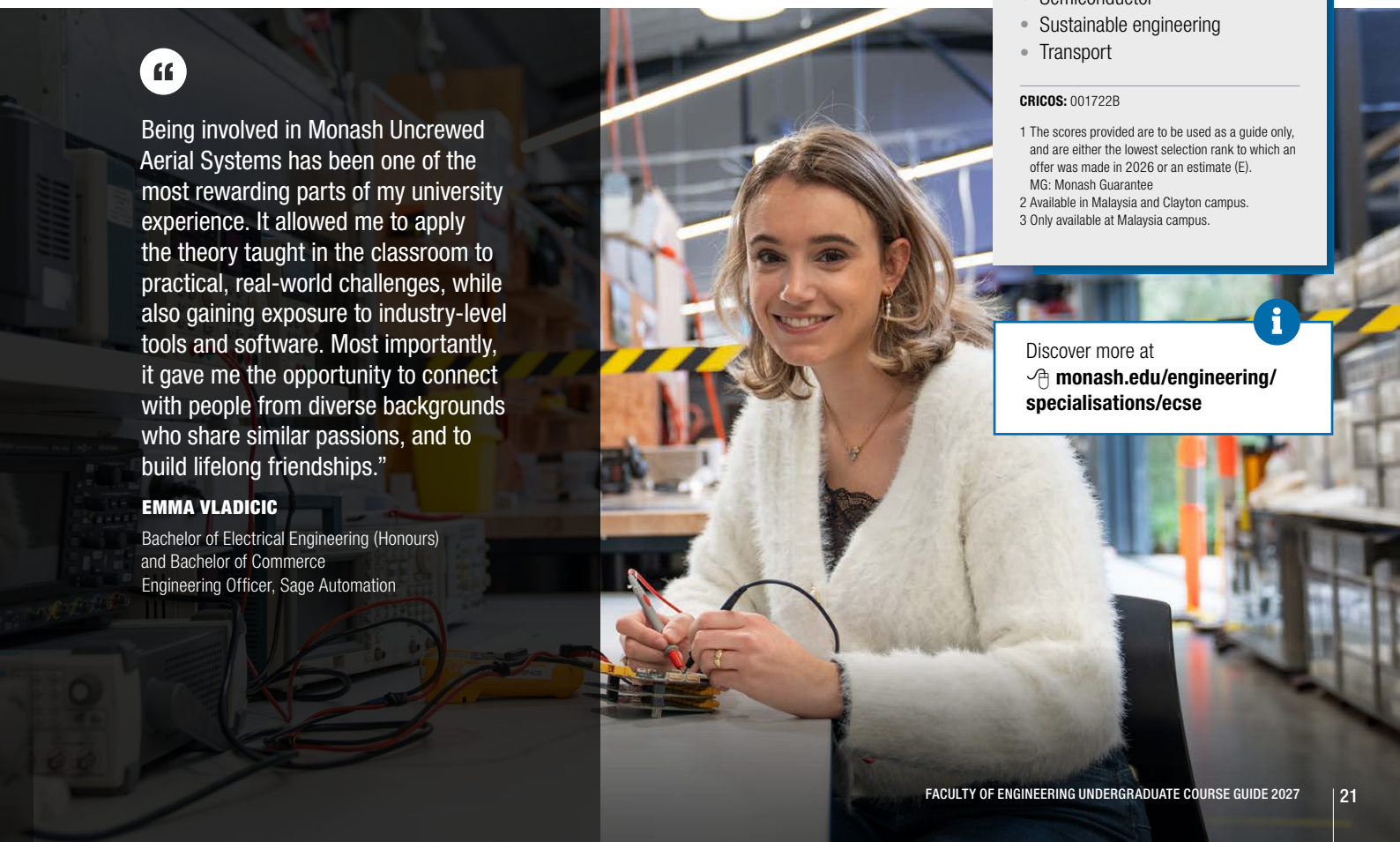
- Arts
- Biomedical Science
- Commerce
- Computer Science
- Information Technology
- Laws (Honours)
- Science

MINORS

- Artificial intelligence in engineering[2]
- Electric vehicle technology[3]
- Internet of Things (IoT)[3]
- Intelligent manufacturing[3]
- Medical technology
- Micro and nano technologies
- Mining engineering
- Renewable energy engineering
- Semiconductor[3]
- Sustainable engineering
- Transport

CRICOS: 001722B

1 The scores provided are to be used as a guide only, and are either the lowest selection rank to which an offer was made in 2026 or an estimate (E). MG: Monash Guarantee
2 Available in Malaysia and Clayton campus.
3 Only available at Malaysia campus.



"Being involved in Monash Uncrewed Aerial Systems has been one of the most rewarding parts of my university experience. It allowed me to apply the theory taught in the classroom to practical, real-world challenges, while also gaining exposure to industry-level tools and software. Most importantly, it gave me the opportunity to connect with people from diverse backgrounds who share similar passions, and to build lifelong friendships."

EMMA VLADICIC

Bachelor of Electrical Engineering (Honours) and Bachelor of Commerce
Engineering Officer, Sage Automation

Discover more at
monash.edu/engineering/specialisations/ecse

ENVIRONMENTAL ENGINEERING

Few branches of engineering have such a profound impact on our health, quality of life and the future wellbeing of the planet as environmental engineering. It's all about the implementation and management of solutions and programs in keeping with the principles of sustainable development and humanitarian engineering. It involves reducing energy and resource use and both minimising and managing waste and pollution, while providing the community with the development opportunities it needs to grow.

Environmental engineering encompasses water and air-pollution control, recycling, water supply, waste disposal, land management, transport and the built environment, process engineering and public health issues.

CAREER OPTIONS

Environmental problems exist in all countries and industries, so your opportunities are broad and far-reaching. You could work in air-pollution control, water supply, land management, impact assessment, hazardous-waste management, energy production, stormwater and wastewater management, environmental management systems and much more.

Organisations employing environmental engineers include:

- power generation
- engineering consulting firms
- industries that need cleaner production systems
- private and municipal agencies that supply drinking water and treat wastewater
- companies treating and disposing of hazardous waste
- environmental agencies and companies responsible for mine-site rehabilitation
- organisations helping to account for carbon and implementing low-carbon solutions
- government agencies monitoring and regulating environmental issues
- universities that teach and conduct sustainability research
- not for profit and international agencies that aid developing nations.

Clayton

4 years full-time
8 years part-time

February and July

ATAR: 85[1]
IB: 32.75[1]
MG: 75

Specialist

DEGREE AWARDED
Bachelor of Environmental Engineering (Honours)

DOUBLE DEGREES

- Arts
- Commerce
- Science

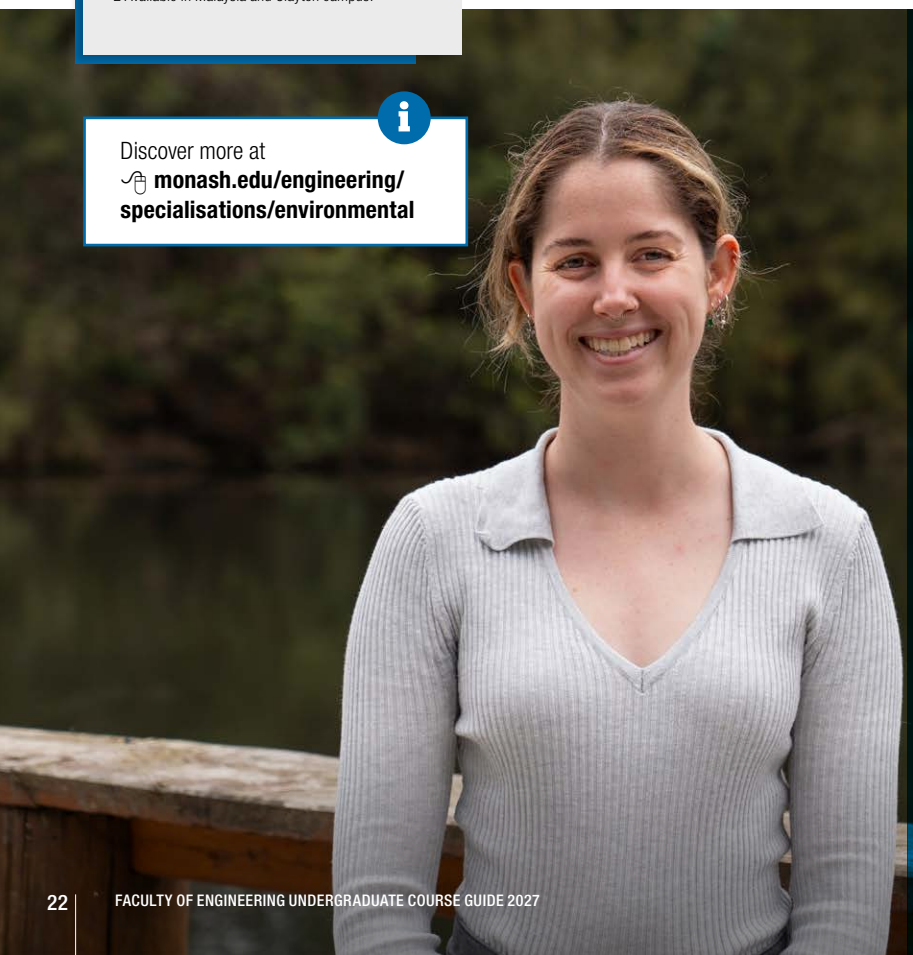
MINORS

- Artificial intelligence in engineering[2]
- Civil engineering
- Medical technology
- Micro and nano technologies
- Mining engineering
- Renewable energy engineering
- Transport

CRICOS: 001722B

1 The scores provided are to be used as a guide only, and are either the lowest selection rank to which an offer was made in 2026 or an estimate (E).
MG: Monash Guarantee
2 Available in Malaysia and Clayton campus.

Discover more at
monash.edu/engineering/specialisations/environmental



"I was always passionate about environmental issues and sustainability. I loved chemistry and biology in high school, which eventually led me to Environmental Engineering. It covers a diverse range of topics and fields, from organic chemistry analysing air pollutants to advanced hydrology and building sustainability, making it a well-rounded specialisation focused on minimising environmental impact."

CHELSEA MORGAN
Bachelor of Environmental Engineering (Honours)
Vocational Student, East Gippsland Water

MATERIALS ENGINEERING

Materials engineering is all about making new materials and improving existing ones. It's about making things stronger, lighter and more functional, sustainable and cost-effective. It underpins much of engineering – if we want to make things, we need to have materials with the right properties. Whether it's a next-generation jet engine, a biodegradable tissue scaffold to grow organs from stem cells, or new types of solar cells and batteries, the structure, properties and processing of materials are crucial to the final product.

Materials engineers work with everything from the thermal protection of space shuttles to high-tech artificial hip and cochlear implants, and nanoparticles that seek and destroy cancer. Materials engineering is truly interdisciplinary. It involves physics, mathematics, biology and chemistry, culminating in a groundbreaking research field and a thriving job market. As a materials engineer, your expertise will be sought after in the emerging fields of additive manufacturing, nanotechnology, biomedical materials, electronic materials, recycling and energy generation, the development of lightweight metal alloys and in traditional industries such as metallurgy, mining and infrastructure engineering.

CAREER OPTIONS

Demand for materials engineers continues to outstrip supply, with Monash graduates receiving an exceptional response in the employment market. Working across a range of exciting industries including aerospace, biomedical, mining, future manufacturing, 3D printing and recycling, materials engineers become:

- biomedical engineers
- consultants
- technology managers
- metallurgists
- materials designers
- energy scientists and future renewable energy engineers
- forensic engineers, aircraft forensics and defence scientists
- materials selection specialists (aero, auto, structural)
- failure analysts
- process engineers
- corrosion or durability engineers
- research engineers.

Clayton

4 years full-time
8 years part-time

February and July

ATAR: 85[1]
IB: 32.75[1]
MG: 75

Specialist

DEGREE AWARDED

Bachelor of Materials Engineering (Honours)

DOUBLE DEGREES

- Arts
- Biomedical Science
- Commerce
- Science

MINORS

- Artificial intelligence in engineering[2]
- Intelligent manufacturing[3]
- Medical technology
- Micro and nano technologies
- Mining engineering
- Renewable energy engineering
- Sustainable engineering
- Transport

CRICOS: 001722B

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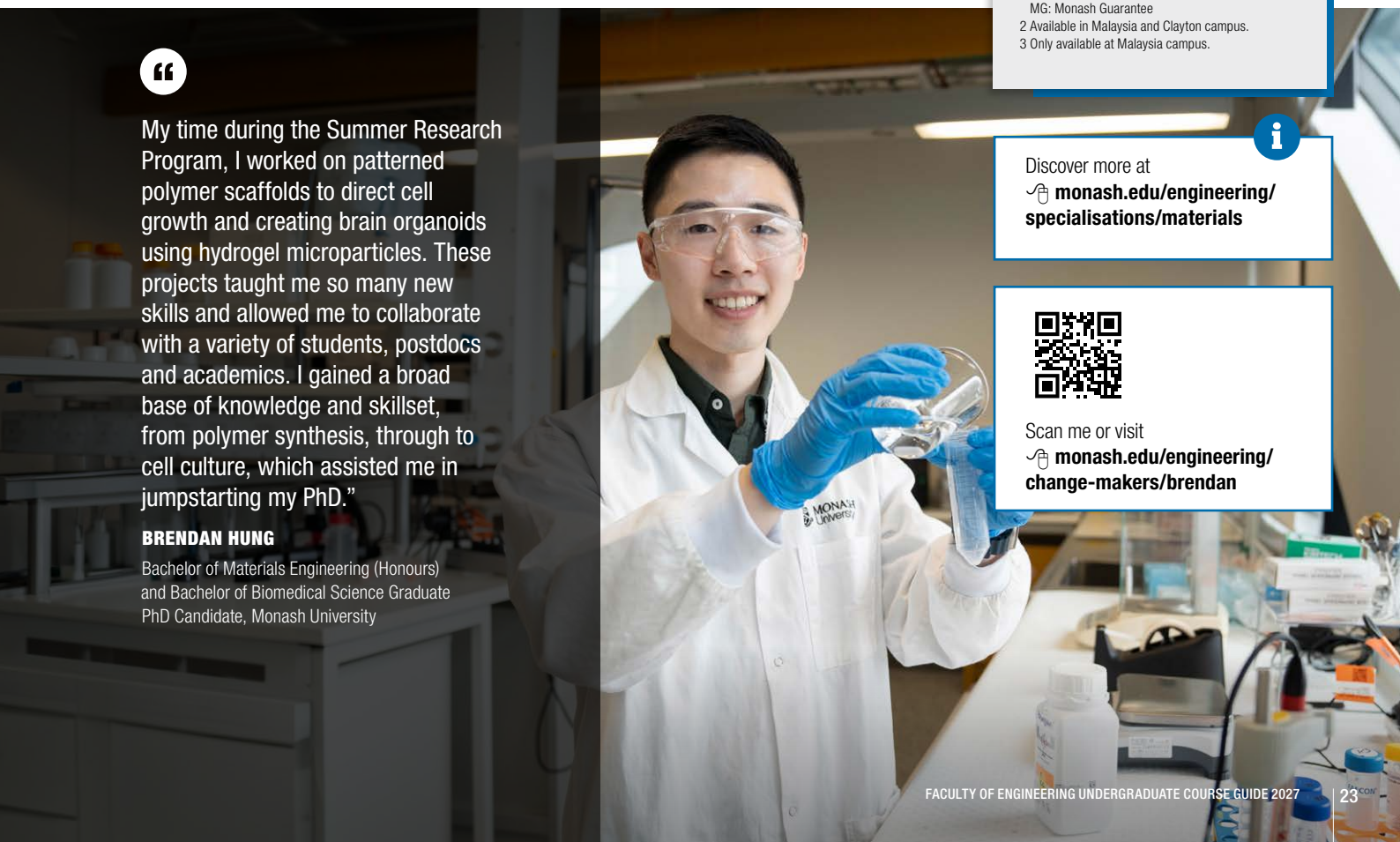
2 Available in Malaysia and Clayton campus.
3 Only available at Malaysia campus.



"My time during the Summer Research Program, I worked on patterned polymer scaffolds to direct cell growth and creating brain organoids using hydrogel microparticles. These projects taught me so many new skills and allowed me to collaborate with a variety of students, postdocs and academics. I gained a broad base of knowledge and skillset, from polymer synthesis, through to cell culture, which assisted me in jumpstarting my PhD."

BRENDAN HUNG

Bachelor of Materials Engineering (Honours) and Bachelor of Biomedical Science Graduate PhD Candidate, Monash University

Discover more at
monash.edu/engineering/specialisations/materials

Scan me or visit
monash.edu/engineering/change-makers/brendan

MECHANICAL ENGINEERING

Clayton, Malaysia

4 years full-time
8 years part-time

February and July

ATAR: 85[1]
IB: 32.75[1]
MG: 75

Specialist

DEGREE AWARDED
Bachelor of Mechanical Engineering (Honours)

DOUBLE DEGREES
- Arts
- Biomedical Science
- Commerce
- Design
- Laws (Honours)
- Science

MINORS
- Artificial intelligence in engineering[2]
- Decarbonisation and net zero[3]
- Electric vehicle technology[3]
- Intelligent Manufacturing[3]
- Internet of Things (IoT)[3]
- Medical technology
- Micro and nano technologies
- Mining engineering
- Renewable energy engineering
- Semiconductor[3]
- Sensory systems in Industry 4.0[3]
- Sustainable engineering
- Sustainable energy transition[3]
- Transport

CRICOS: 001722B

1 The scores provided are to be used as a guide only, and are either the lowest selection rank to which an offer was made in 2026 or an estimate (E). MG: Monash Guarantee
2 Available in Malaysia and Clayton campus.
3 Only available at Malaysia campus.

Discover more at
monash.edu/engineering/specialisations/mechanical

Mechanical engineering is about the intelligent and efficient use of motion and energy to create, manufacture and assemble designs, from the simplest to the most complex. It builds on physics, chemistry, materials, mathematics and biology. Growth industries include advanced manufacturing, smart buildings, renewable energy and medical engineering.

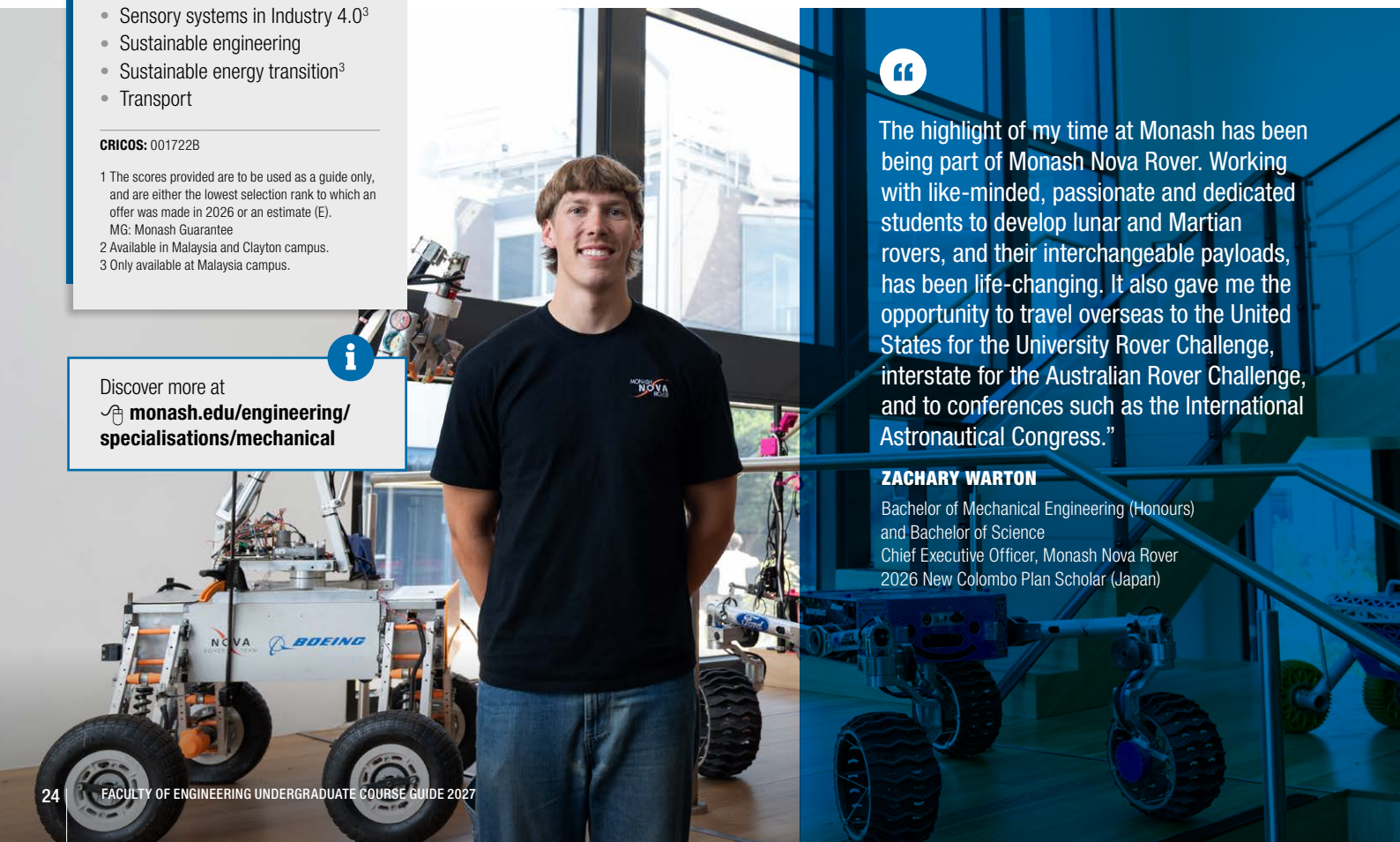
Mechanical engineers are increasingly engaged in the design and operation of devices that require skills that cross traditional discipline boundaries. As a mechanical engineer, you can build a career in industries including power generation, water distribution, biomedical, mass transportation and air travel.

You can use your skills to improve life on earth and in space. From designing sustainable living spaces to cost-effective products for the developing world. You could even create a safe and reliable human habitat to support future space exploration.

CAREER OPTIONS

As a mechanical engineer you will discover countless opportunities in a wide range of industries in Australia and overseas. You could pursue one or more of these specialist areas:

- building systems engineering
- advanced manufacturing
- robotics and automation
- advanced engineering analyses
- food production
- medical device technologies
- advanced composite structures
- micro and nano technologies
- wind engineering
- sustainable engineering systems
- renewable energy systems.



“The highlight of my time at Monash has been being part of Monash Nova Rover. Working with like-minded, passionate and dedicated students to develop lunar and Martian rovers, and their interchangeable payloads, has been life-changing. It also gave me the opportunity to travel overseas to the United States for the University Rover Challenge, interstate for the Australian Rover Challenge, and to conferences such as the International Astronautical Congress.”

ZACHARY WARTON
Bachelor of Mechanical Engineering (Honours) and Bachelor of Science
Chief Executive Officer, Monash Nova Rover
2026 New Colombo Plan Scholar (Japan)

ROBOTICS AND MECHATRONICS ENGINEERING

Robotics and mechatronics is where mechanical and electrical engineering meet, employing computer science and control systems to make devices smarter and more efficient.

As a robotics and mechatronics engineer you could create rovers for planetary exploration or robots for precision manufacturing or to assist the elderly. Alternatively, you might convert a household product into a truly clever device, and create the programs that control it.

You'll learn how to handle vast amounts of data and extract critical information from data in real time so that a fully automated manufacturing facility can operate safely and efficiently, or a car can drive completely autonomously.

Robotics and mechatronics engineers are in high demand. Their expertise is required in many industries including advanced manufacturing, aerospace, medicine, defence, transportation and data analysis.

CAREER OPTIONS

You'll be equipped with the knowledge and skills to design, develop, manufacture and operate the intelligent products and complex systems of today and tomorrow. There are also opportunities in consulting, management and finance. You may also pursue a career in research and development, in academia, research institutions or advanced industry sectors. Opportunities exist in:

- robotics and automation
- aerospace systems and flight control
- artificial intelligence
- bioengineering
- defence
- intelligent systems for motor vehicles
- manufacturing systems and processes
- telecommunications
- medical systems
- software engineering
- mining systems and processes
- nanotechnology.

Clayton, Malaysia

4 years full-time
8 years part-time

February and July

ATAR: 85[1]
IB: 32.75[1]
MG: 75

Specialist

DEGREE AWARDED

Bachelor of Robotics and Mechatronics Engineering (Honours)

DOUBLE DEGREES

- Arts
- Commerce
- Computer Science
- Information Technology
- Science

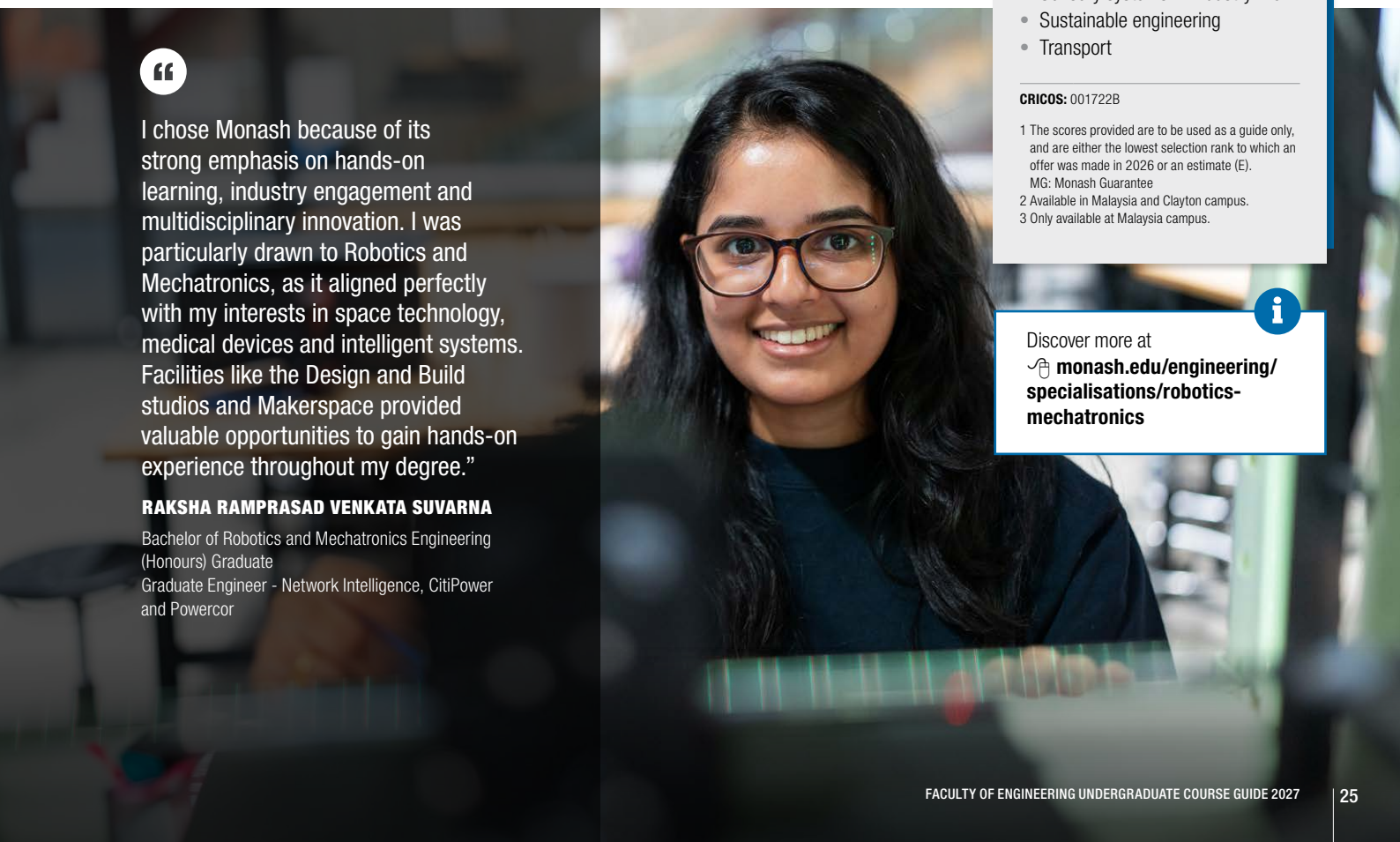
MINORS

- Artificial intelligence in engineering[2]
- Decarbonisation and net zero[3]
- Electric vehicle technology[3]
- Intelligent Manufacturing[3]
- Internet of Things (IoT)[3]
- Medical technology
- Micro and nano technologies
- Mining engineering
- Renewable energy engineering
- Semiconductor[3]
- Sensory systems in Industry 4.0[3]
- Sustainable engineering
- Transport

CRICOS: 001722B

1 The scores provided are to be used as a guide only, and are either the lowest selection rank to which an offer was made in 2026 or an estimate (E). MG: Monash Guarantee
2 Available in Malaysia and Clayton campus.
3 Only available at Malaysia campus.

Discover more at
monash.edu/engineering/specialisations/robotics-mechatronics



"I chose Monash because of its strong emphasis on hands-on learning, industry engagement and multidisciplinary innovation. I was particularly drawn to Robotics and Mechatronics, as it aligned perfectly with my interests in space technology, medical devices and intelligent systems. Facilities like the Design and Build studios and Makerspace provided valuable opportunities to gain hands-on experience throughout my degree."

RAKSHA RAMPRASAD VENKATA SUVARNA

Bachelor of Robotics and Mechatronics Engineering (Honours) Graduate
Graduate Engineer - Network Intelligence, CitiPower and Powercor

SOFTWARE ENGINEERING

Clayton, Malaysia

4 years full-time
8 years part-time

February and July

ATAR: 85[1]
IB: 32.75[1]
MG: 75

Specialist

DEGREE AWARDED
Bachelor of Software Engineering (Honours)

DOUBLE DEGREES
- Arts
- Commerce
- Computer Science
- Information Technology
- Science

CRICOS: 001722B

1 The scores provided are to be used as a guide only, and are either the lowest selection rank to which an offer was made in 2026 or an estimate (E).
MG: Monash Guarantee

Discover more at
monash.edu/engineering/specialisations/software

Software engineering is a field that's constantly evolving as new technologies emerge. As an engineer in this area, your skills will be critical across many functions – from dispensing life-saving medicine to controlling flight paths.

As a software engineer you'll use your expertise in computer science, engineering principles and programming languages to build intelligent software products that may involve artificial intelligence and machine learning components, develop games and run network control systems. You could design systems and applications tailored to specific users and their needs, and build the underlying systems that run the technology and control networks. Solve business challenges by delivering technical solutions and assess organisation's current systems and needs to create strategies for improvement.

You'll learn about core areas such as software processes and life-cycles, requirements analysis, software design and architecture, software development, quality assurance and testing. Work with modern, industry-strength programming languages, technologies and systems. Through collaborative learning, you'll hone your teamwork, problem solving, resource management, project coordination and communication skills.

You can choose from a wide range of IT electives from cyber security to games development to business information systems. Gain valuable work experience through various industry programs including the IT Faculty's Industry-Based Learning (IBL) program. The Bachelor of Software Engineering (Honours) is accredited by the Australian Computer Society and Engineers Australia.

CAREER OPTIONS

In the age of digital transformation, new roles are constantly emerging and software engineering graduates are highly sought-after around the world. You could pursue a career as:

- software engineer or developer building products, games and network systems
- software architect or data engineer designing specific systems and databases
- block chain developer or engineer building software for digital identity, workforce management and data storage
- front end engineer writing the code for a website or app
- machine learning engineer writing personalised and predictive software
- network administrator or security engineer making systems secure and protect from threats.

"I chose software engineering because it sits at the core of almost every modern system, from everyday apps to largescale infrastructure and AI. It's a field with virtually unlimited growth, and I'm excited by the opportunity to build, connect systems, automate processes, and visualise complex data through code. As I progressed through my degree, that sense of possibility pushed me to aim higher and explore how far I could take my ideas."

YOONUS NAZEEM
Bachelor of Software Engineering (Honours) and Bachelor of Information Technology
Data Operations and Intelligence Intern, Monash University

ENGINEERING MINORS

Artificial intelligence in engineering[1] is used to develop driverless vehicles, human machine interaction and image recognition. Create new designs involving robotics, deep learning, computer vision and autonomous vehicles.

Civil engineering is the design and improvement of systems and processes that allow humans and nature to coexist with minimal impact. Including transportation systems, water supply, pollution control, roads, bridges and structures.

Electric Vehicle Technology[2] equips you with the essential interdisciplinary knowledge and skills to thrive in the rapidly growing electric vehicle industry. Covering key areas like vehicle design, electric powertrains, battery management, power electronics and autonomous EVs, this minor prepares you to tackle complex challenges like vehicle range and efficiency. By emphasising multifaceted approaches and focusing on the latest technologies and methodologies.

Environmental engineering involves the implementation and management of solutions with the principles of sustainable development. By improving the knowledge on air, water and land quality, environmental engineers help restore the environment.

Intelligent Manufacturing[2] involves solving problems in manufacturing to create components for products and systems at any scale. Develop new products, technologies, and automation to meet the demands of a fast-paced world.

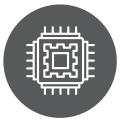
Internet of Things (IoT)[2] dive into the fast-growing world of interconnected systems that bridge computing, networking, and sensor technologies. Through a mix of hands-on projects and theoretical coursework, you will learn how to design, deploy, and manage IoT solutions across diverse sectors, from smart cities to healthcare and energy systems.

Medical technology explores life-changing devices like pacemakers, hip replacements and contact lenses. Study drug delivery systems, biosensors, tissue engineering, and regenerative medicine. Learn how these technologies interact with the body and bring innovations to clinical practice.

Micro and nano technologies form the basis of modern miniaturised systems from electronic devices, sensors and actuators in smartphones and vehicles and diagnostic systems, biomedical devices and devices for environmental monitoring.

Mining engineering involves environmentally-safe extraction and processing of natural minerals from the earth. The industry uses the latest automation and digital technologies to supply critical materials like copper, iron, lithium and gold, that are essential for modern society and the world's economy.

Renewable energy engineering focuses on converting solar, wind, hydro and bioenergy resources into electricity through the design, construction and operation of renewable energy plants. Renewable energy engineers manage large-scale energy systems and provide expert advice on energy policy development.



Semiconductor[2] allows you to explore the principles and applications of semiconductor technology, the backbone of modern electronics. Through a blend of theoretical coursework and hands-on lab experiences, you'll gain a deep understanding of the design, fabrication, and characterisation of semiconductor devices. Develop expertise in cutting-edge technologies and methodologies, positioning yourself to tackle complex challenges in this field.

Sensory systems in Industry 4.0[2] explore analogue systems and their role in modern industries. Learn about advanced sensors, programming, and autonomous technologies, integrating the Internet of Things, cloud computing, AI, machine learning, and more.

Sustainable energy transition[2] empowers you with the knowledge and skills to address the evolving challenges of energy systems in sustainability. Building a solid technical foundation and nurtures the innovative mindset essential for advancing your career in the rapidly growing energy sector.

Sustainable engineering is a growing multidisciplinary field where you'll explore life-cycle analysis, sustainability in built environments including passive and active technologies, and the political, social and environmental background to materials usage.

Transport is essential to the sustainability, economic and social outcomes of cities. How can we design transport systems to reduce emissions, positively impact cities and embrace cutting-edge technologies? Providing you with the skills to tackle the complex challenges of modern, sustainable transport systems.

Discover more at
monash.edu/engineering/minors

1 Available in Clayton and Malaysia.
2 Only available at Malaysia campus.

DOMESTIC ADMISSIONS AND ENTRY REQUIREMENTS

ATARS AND PREREQUISITES FOR SINGLE AND DOUBLE DEGREES

ACADEMIC PREREQUISITE SUBJECTS

The table below outlines the requirements, and the course listing tells you which categories apply to each course. Make sure you check if this applies to your course of choice in this guide.

	English		Mathematics			Science
	■ Level 1	■ Level 2	■ Level 1	■ Level 2	■ Level 3	
VCE	Units 3 and 4: a study score of at least 25 in English (EAL) or 25 in English other than EAL.	Units 3 and 4: a study score of at least 35 in English (EAL) or 30 in English other than EAL.	Units 1 and 2: satisfactory completion in two units (any combination) of General Mathematics or Mathematical Methods or Specialist Mathematics.	Units 3 and 4: a study score of at least 22 in Mathematical Methods (any) or Specialist Mathematics, or a score of at least 25 in Further Mathematics.	Units 3 and 4: a study score of at least 25 in one of Mathematical Methods or Specialist mathematics.	Units 3 and 4: a study score of at least 25 in Chemistry or Physics, or 30 in Biology.[1]
IB	At least 4 in one of the following SL subjects: • English A: Literature, or • English A: Language and Literature, or • Literature and Performance, *OR* At least 3 in one of the following HL subjects: • English A: Literature, or • English A: Language and Literature, *OR* At least 5 in one of the following SL subjects: • English AB, or • English B, *OR* At least 4 in the following HL subject: • English B.	At least 5 in one of the following SL subjects: • English A: Literature, or • English A: Language and Literature, or • Literature and Performance, *OR* At least 4 in one of the following HL subjects: • English A: Literature, or • English A: Language and Literature, *OR* At least 6 in one of the following SL subjects: • English AB, or • English B, *OR* At least 5 in the following HL subject: • English B.	At least 3 in any mathematics subject at SL or HL level.	At least 4 in one of the following SL subjects: • Math Studies, or • Mathematics: Applications and Interpretations, or • Mathematics, or • Mathematics: Analysis and Approaches, *OR* At least 3 in one of the following HL subjects: • Mathematics: Applications and Interpretations, or • Mathematics, or • Further Mathematics, or • Mathematics: Analysis and Approaches	At least 4 in one of the following SL subjects: • Mathematics, or • Mathematics: Analysis and Approaches, *OR* At least 3 in one of the following HL subjects: • Mathematics: Applications and Interpretations, or • Mathematics, or • Further Mathematics, or • Mathematics: Analysis and Approaches.	At least 4 in Biology, Chemistry or Physics, or 3 in Biology, Chemistry or Physics HL.[1]

SINGLE DEGREE COURSES AT A GLANCE

Course	Duration (years)[2]	Prerequisites (Refer to table above)				Degree awarded	Location	Indicative[3] ATAR	Indicative[3] IB score	Monash Guarantee
		English		Mathematics	Science					
		Level 1	Level 2	Level 3	Specified					
Engineering M	4	■		■	Chemistry, Biology or Physics	Bachelor of Aerospace Engineering (Honours)	CL	85	32.75	75
						Bachelor of Biomedical Engineering (Honours)	CL	85.10	32.75	80
						Bachelor of Chemical Engineering (Honours)	CL	85	32.75	75
						Bachelor of Civil Engineering (Honours)				
						Bachelor of Electrical and Computer Systems Engineering (Honours)				
						Bachelor of Environmental Engineering (Honours)				
						Bachelor of Materials Engineering (Honours)				
						Bachelor of Mechanical Engineering (Honours)				
						Bachelor of Robotics and Mechatronics Engineering (Honours)				
						Bachelor of Software Engineering (Honours)				
	4.5	■		■	Chemistry, Biology or Physics	Bachelor's Honours / Master's Pathway[4]	CL	90.50	35.50	80.10

DOUBLE DEGREE COURSES AT A GLANCE

Course	Duration (years)[2]	Prerequisites (refer to table on page 28)				Degree awarded	Location	Indicative[3] ATAR	Indicative[3] IB score	Monash Guarantee
		English		Mathematics	Science					
		Level 1	Level 2	Level 3	Specified					
ENGINEERING AND										
Architectural Design	5	■		■	Chemistry, Biology or Physics	Bachelor of Civil Engineering (Honours) and Bachelor of Architectural Design	CL CA	85.95	33	76
Arts[5]	5.5	■		■	Chemistry, Biology or Physics	Bachelor of Aerospace Engineering (Honours) and Bachelor of Arts	CL	86.60	33.25	75
						Bachelor of Chemical Engineering (Honours) and Bachelor of Arts				
						Bachelor of Civil Engineering (Honours) and Bachelor of Arts				
						Bachelor of Electrical and Computer Systems Engineering (Honours) and Bachelor of Arts				
						Bachelor of Environmental Engineering (Honours) and Bachelor of Arts				
						Bachelor of Materials Engineering (Honours) and Bachelor of Arts				
						Bachelor of Mechanical Engineering (Honours) and Bachelor of Arts				
						Bachelor of Robotics and Mechatronics Engineering (Honours) and Bachelor of Arts				
						Bachelor of Software Engineering (Honours) and Bachelor of Arts				
Biomedical Science	5	■		■	Chemistry	Bachelor of Chemical Engineering (Honours) and Bachelor of Biomedical Science	CL	91.90	36.25	85
						Bachelor of Civil Engineering (Honours) and Bachelor of Biomedical Science				
						Bachelor of Electrical and Computer Systems Engineering (Honours) and Bachelor of Biomedical Science				
						Bachelor of Materials Engineering (Honours) and Bachelor of Biomedical Science				
						Bachelor of Mechanical Engineering (Honours) and Bachelor of Biomedical Science				
Commerce	5	■		■	Chemistry, Biology or Physics	Bachelor of Aerospace Engineering (Honours) and Bachelor of Commerce	CL	88	34	77
						Bachelor of Chemical Engineering (Honours) and Bachelor of Commerce				
						Bachelor of Civil Engineering (Honours) and Bachelor of Commerce				
						Bachelor of Electrical and Computer Systems Engineering (Honours) and Bachelor of Commerce				
						Bachelor of Environmental Engineering (Honours) and Bachelor of Commerce				
						Bachelor of Materials Engineering (Honours) and Bachelor of Commerce				
						Bachelor of Mechanical Engineering (Honours) and Bachelor of Commerce				
						Bachelor of Robotics and Mechatronics Engineering (Honours) and Bachelor of Commerce				
						Bachelor of Software Engineering (Honours) and Bachelor of Commerce				
Computer Science	5	■		■	Chemistry, Biology or Physics	Bachelor of Electrical and Computer Systems Engineering (Honours) and Bachelor of Computer Science	CL	85.90	33	78
						Bachelor of Robotics and Mechatronics Engineering (Honours) and Bachelor of Computer Science				
						Bachelor of Software Engineering (Honours) and Bachelor of Computer Science				
Design	5	■		■	Chemistry, Biology or Physics	Bachelor of Mechanical Engineering (Honours) and Bachelor of Industrial Design	CL CA	86.75	33.25	76
Information Technology	5	■		■	Chemistry, Biology or Physics	Bachelor of Electrical and Computer Systems Engineering (Honours) and Bachelor of Information Technology	CL	85.60	33	76
						Bachelor of Robotics and Mechatronics Engineering (Honours) and Bachelor of Information Technology				
						Bachelor of Software Engineering (Honours) and Bachelor of Information Technology				
Laws (Honours)	6.5[6]		■	■	Chemistry, Biology or Physics	Bachelor of Laws (Honours) and Bachelor of Aerospace Engineering (Honours)	CL	95	38.75	85
						Bachelor of Laws (Honours) and Bachelor of Chemical Engineering (Honours)				
						Bachelor of Laws (Honours) and Bachelor of Civil Engineering (Honours)				
						Bachelor of Laws (Honours) and Bachelor of Electrical and Computer Systems Engineering (Honours)				
						Bachelor of Laws (Honours) and Bachelor of Materials Engineering (Honours)				
						Bachelor of Laws (Honours) and Bachelor of Mechanical Engineering (Honours)				
Pharmaceutical Science	5	■		■	Chemistry	Bachelor of Chemical Engineering (Honours) and Bachelor of Pharmaceutical Science	CL PA	87.15	33.50	75
Science	5	■		■	Chemistry, Biology or Physics	Bachelor of Aerospace Engineering (Honours) and Bachelor of Science	CL	85.65	33	75
						Bachelor of Chemical Engineering (Honours) and Bachelor of Science				
						Bachelor of Civil Engineering (Honours) and Bachelor of Science				
						Bachelor of Electrical and Computer Systems Engineering (Honours) and Bachelor of Science				
						Bachelor of Environmental Engineering (Honours) and Bachelor of Science				
						Bachelor of Materials Engineering (Honours) and Bachelor of Science				
						Bachelor of Mechanical Engineering (Honours) and Bachelor of Science				
						Bachelor of Robotics and Mechatronics Engineering (Honours) and Bachelor of Science				
						Bachelor of Software Engineering (Honours) and Bachelor of Science				

M Master's Accelerated Pathway | CL –Clayton | CA – Caulfield | PA – Parkville

1 The Biology prerequisite is not applicable for Engineering double-degrees with Biomedical Science and Pharmaceutical Science.
2 Duration is based on a standard full-time load of 48 credit points per annum.
3 Indicative – The provided score is the 2026 lowest ATAR to which an offer was made or an estimate (E), and is to be used as a guide only.
4 Master's Accelerated Pathway is only available to school leavers and is not offered with biomedical, or software engineering specialisations.
5 Depending on your Arts major, you may take the Arts component at Clayton or Caulfield.
6 This is an accelerated course where you will be required to undertake more than the standard annual load of 48 credit points in year 4, 5 or 6 in order to complete the course in 6.5 years.

INTERNATIONAL ENTRY REQUIREMENTS

COURSE	DEGREE AWARDED	Duration (years)[1]	Monash code	Location	Intake[2] (semester)	English language level (see below)	2026 fee p.a.[3] (A$)	Prerequisites (see page 28)			
								English		Mathematics	Science
								Level 1	Level 2	Level 3	Specified
Engineering	Bachelor of Aerospace Engineering (Honours)	4	E3001	CL	Feb July	A	A$59,600	■		■	Chemistry, Biology or Physics
	Bachelor of Chemical Engineering (Honours)										
	Bachelor of Civil Engineering (Honours)										
	Bachelor of Electrical and Computer Systems Engineering (Honours)										
	Bachelor of Environmental Engineering (Honours)										
	Bachelor of Materials Engineering (Honours)										
	Bachelor of Mechanical Engineering (Honours)										
	Bachelor of Robotics and Mechatronics Engineering (Honours)										
	Bachelor of Software Engineering (Honours)										
	Bachelor of Biomedical Engineering (Honours)										
	Bachelor of Engineering (Honours) / Master's Accelerated Pathway[4]	4.5			Feb			■		■	Chemistry, Biology or Physics

ACADEMIC ENTRY REQUIREMENTS

All Monash undergraduate courses require you to have successfully completed a minimum of an Australian Year 12 qualification (or equivalent) and achieve the required academic entry score. The table above outlines the academic entry scores for the listed qualifications that apply to each undergraduate course applicable to international students only. Entry scores for the listed qualification in this guide are calculated as follows:

COUNTRY	QUALIFICATION	AWARDING BODY	HOW TO CALCULATE YOUR ENTRY SCORE
AUSTRALIA	**Australian Year 12 qualifications listed below (refer to the '2026 ATAR for international students' column)**		
	Australian Year 12 qualifications		Final ATAR as awarded by the relevant Australian state Year 12 authority.
	Monash University Foundation Year (MUFY)	Monash College Pty Ltd	The undergraduate entry requirements published in this brochure are for students who commence the MUFY program in 2027. Refer to **monashcollege.edu.au/courses/fy/dd**
	Monash Pathway Programs Part 1 and Part 2		The Monash Pathway Programs Part 1 & Part 2 entry requirements published in this guide are for students commencing their undergraduate destination degree in 2027. Refer to **monashcollege.edu.au/courses/dips/dd**
	Trinity College Foundation Studies	Trinity College, The University of Melbourne	Overall average of the best four subjects (excluding English for Academic Purposes).
	UNSW Foundation Studies	University of New South Wales	Final grade point average.
CANADA	Ontario Secondary School Diploma – Grade 12	Ontario Ministry of Education	Overall average of the best six academic Grade 12 subjects[6] (excluding workplace preparation courses and open courses). Students must achieve a minimum total of 30 credits and complete Community Involvement. 6 The grade 12 subjects must be taken from the most recent completed Ontario Student Transcript issued by the Ontario Ministry of Education.
CHINA	Gaokao	Department of Education in China	The total score achieved in the Gaokao examination will be converted into a 100% scale by dividing the total score achieved with the 2026 Gaokao maximum score 7 published by the Department of Education in China for each Chinese province. 7 For example: If you achieved a total score of 555 in your Gaokao examination and the 2026 Gaokao maximum score for Guangdong is 750, then the percentage score on a 100% scale converted by Monash University will be 74%.
GLOBAL	GCE A Levels	• Cambridge International • Pearson Edexcel • Council for the Curriculum, Examinations and Assessment • Oxford, Cambridge and RSA Examinations • Welsh Joint Education Committee • Assessment and Qualifications Alliance	Total score by achieving either: • A maximum of the best three A Level subjects completed within two years.[8] In the event where only one A Level subject has been completed (and no other A Level subjects have been completed), two AS Level subjects can be counted in place of one A Level subject however the AS Level subject must not be in the same subject area as the A Level subjects included in the calculation. *OR* • A minimum of the best two A Level subjects completed within two years[8] plus the best two AS Level subjects. The AS Level subjects however must not be in the same subject area as the A Level subjects included in the calculation. Additional guidelines / Score grades as follows: • A Level subjects: A*(a*) = 5, A(a) = 5, B(b) = 4, C(c) = 3, D(d) = 2, E(e) = 1, U = 0. • AS Level subjects: a(a) =2.5, b(b) =2, c(c) =1.5, d(d) =1, e(e) =0.5, U = 0. • N (Narrow failure) and U (Unclassified) results are not to be included in the calculation. • A maximum of one bonus point is offered when achieving A* in an A Level Subject. 8 Subject examinations taken within two years may include more than one sitting. For example, subject examinations in June 2024 until June 2026 are acceptable.
	International Baccalaureate (IB) Diploma Programme	International Baccalaureate Organization	Total points as awarded on the IB Diploma Programme results.
GLOBAL (continued)	**American Admission Tests[9]**		
	• Advanced Placement (AP)	The College Board	Total of the best two AP examinations as awarded on the Student Score Report[10] issued by the College Board. Minimum accepted score in each AP examination is 3. 9 If you have completed multiple American Admission Tests (i.e. SAT, AP or ACT), the test with the highest achieved scores will be used to determine if the academic entry requirement has been satisfied 10 All AP examinations submitted to Monash University will be considered when calculating the entry score.
	• Scholastic Aptitude Test (SAT) – total score out of 1600		Total score by adding the best section scores achieved in 'Evidence Based Reading and Writing' and 'Math' as awarded on the SAT Score Report[11] issued by the College Board. 9 If you have completed multiple American Admission Tests (i.e. SAT, AP or ACT), the test with the highest achieved scores will be used to determine if the academic entry requirement has been satisfied. 11 All SAT examinations submitted to Monash University will be considered when calculating the entry score, provided the SAT is marked out of 1600.

AUSTRALIA-INTERSTATE			BRITAIN (GLOBAL)	CANADA	CHINA	FRANCE	HONG KONG	INDIA		INDONESIA	MALAYSIA		REPUBLIC OF KOREA		USA		VIETNAM	MONASH PATHWAY PROGRAMS	
2026 ATAR for international students	UNSW Foundation Studies	University Of Melbourne, Trinity College Foundation Studies	GCE A Level	Ontario Secondary School Diploma – Grade 12	Gaokao	International Baccalaureate (IB) Diploma	Hong Kong Diploma of Secondary Education	All India Senior School of Certificate	Indian School Certificate Examination	SMA3	STPM	UEC	College Scholastic Ability Test (CSAT)	High School Diploma	Advanced Placement	SAT (Total score out of 1600)	High School Diploma	Foundation Year (commencing MUFY in 2027)	Monash Pathways
																			Diploma Part 1[5] / Diploma Part 2[5]
85	8	81%	10	84.80%	75%	30	19	80%	75%	8.1	9.1	3.4	340	81%	7	1240	8.42	76.25%	80% / 60%
90	N/A	N/A	12	87.90%	80%	33	21	83%	77%	8.8	9.7	2.6	350	86%	8	1290	8.56	88.75%	N/A

HONG KONG (continued)	Hong Kong Diploma of Secondary Education (HKDSE)	Hong Kong Examinations and Assessment Authority	• Total score of the best five subjects[12] (Category A and C only). • Scores graded as follows: Level 1=1, Level 2=2, Level 3=3, Level 4=4, Level 5=5 or A=5, B=4, C=3, D=2, E=1. • A maximum of 1 bonus point is offered when achieving Level 5** or Level 5* in a HKDSE Category A subject. 12 The highest grade will be used in the calculation in the event where individual subject examinations have been sat in multiple sittings.
INDIA	All India Senior School Certificate	Central Board of Secondary Education	Overall average of the best four academic subjects (excluding Monash University approved non-academic subjects) and results indicated as 'pass'.
	Indian School Certificate Examination	Council for the Indian School Certificate Examinations	Overall average of the best four academic subjects (excluding Monash University approved non-academic subjects) and results indicated as 'pass certificate awarded'.
INDONESIA	SMA3	Ministry of Education, Culture, Research and Technology	Overall average of all Semester 1 and Semester 2 Grade 12 results. **Note:** Monash University undergraduate entry scores vary for SMA3 qualifications that are marked on differing grading scales.
MALAYSIA	STPM	Malaysian Examinations Council (Majlis Peperiksaan Malaysia)	Total of the best three subjects, excluding Pengajian Am (General Studies).
	UEC	United Chinese School Committees Associate of Malaysia (Dong Zong)	• Overall average of the best five subjects. • Only grades A1, A2, B3, B4, B5 and B6 to be included in calculation. C7, C8 and F9 cannot be included in the calculation. • Five subjects must be included in the calculation with a score of B6 grade or higher in each subject. • Score grades as follows: A1=1, A2=2, B3=3, B4=4, B5=5, B6=6. • It should be noted that a score of A1 is the highest score.
REPUBLIC OF KOREA	College Scholastic Ability Test	Korea Institute for Curriculum and Evaluation	Total score of the best four subjects (including Language Arts and Mathematics)[13,14] 13 Korean History, English and vocational education stream subjects can not be included in the calculation. 14 If you have completed both the College Scholastic Ability Test and South Korean High School Diploma, the qualification with the highest achieved score will be used to determine if the academic entry requirement has been satisfied.
	High School Diploma, Republic of Korea	Ministry of Education, Science & Technology	Overall average of academic subjects including fails (excluding non-academic subjects such as Moral Education, Home Science, Physical and Health Education, Civil Ethics, Ethics and Thought, Home Living, and Chinese Characters)[15]. 15 If you have completed both the College Scholastic Ability Test and South Korean High School Diploma, the qualification with the highest achieved score will be used to determine if the academic entry requirement has been satisfied.
VIETNAM	High School Diploma (Bằng Tốt Nghiệp Trung Học Phổ Thông)	Ministry of Education and Training, Socialist Republic of Vietnam	Overall average of all Grade 12 subjects.

If your qualification cannot be located in the above table refer to **monash.edu/prior-study**

PREREQUISITE SUBJECTS AND ADDITIONAL REQUIREMENTS

In addition to meeting English entry requirements, some Monash University undergraduate courses may require you to satisfy other prerequisite subjects and additional selection and/or extra requirements.

Please note that all entry requirements for Monash University and Monash College are subject to change.

MINIMUM AGE REQUIREMENTS

You must be at least 17 years of age to enrol in a Monash University undergraduate course. Some exemptions may apply. Refer to **monash.edu/admissions/age-requirements**

ENGLISH ENTRY REQUIREMENTS

When you apply for a Monash University undergraduate course you must satisfy English entry requirements.

	Academic IELTS					Internet Based TOEFL					Pearson Test of English (Academic)				
Level	Overall band score	Listening	Reading	Speaking	Writing	Total score	Listening	Reading	Speaking	Writing	Overall score	Listening	Reading	Speaking	Writing
A	6.5	6.0	6.0	6.0	6.0	79	12	13	18	21	58	50	50	50	50

1 Duration is based on a standard full-time load of 48 credit points per annum.
2 Please refer to **monash.edu/study** for further details on semester intake availability for individual specialisations.
3 Fees are quoted in Australian dollars; each is the annual average fee per 48 credit points of study in this course for 2026. Fees are adjusted annually. **monash.edu/students/admin/fees/course/international-full-fee**
4 Master's Accelerated Pathway is only available to school leavers and is not offered with biomedical, or software engineering specialisations.
5 The Monash Pathway Programs Part 1 and 2 entry requirements are for students commencing their undergraduate degree in 2027.

COURSE STRUCTURE

Here's an indicative course map showing what your studies could look like if you selected Mechanical Engineering.

View all engineering specialisation course maps
monash.edu/engineering/course-maps

YEAR 1[1]

Semester 1	Engineering mathematics	Engineering numerical analysis	Elective	Level 1 Engineering Breadth study elective
Semester 2	Engineering design	Engineering smart systems	Engineering methods	Elective

YEAR 2

Semester 1	Design 1	Solid mechanics 1	Advanced engineering mathematics	Level 1, 2 or 3 elective or engineering technical elective
Semester 2	Modelling and control	Thermofluids 1	Dynamics 1	Level 1, 2 or 3 elective or engineering technical elective

YEAR 3

Semester 1	Solid mechanics 2	Fluid mechanics 2	Material properties and selection	Level 3 or 4 technical or engineering minor elective unit	
Semester 2	Mechanical dynamics 2	Mechanical design 2	Numerical methods and machine learning	Level 3 or 4 technical or engineering minor elective unit	Industrial Training[3]

YEAR 4

Semester 1	Final year project A	Professional practice	Thermodynamics 2 and heat transfer	Level 3, 4 or 5 technical or engineering minor elective unit	Continuous Professional Development[2]
Semester 2	Final year project B	Finite element analysis	Mechanical design 3	Level 3, 4 or 5 technical or engineering minor elective unit	

Engineering fundamentals | Level 1 Engineering Breadth study elective | Discipline core units | Engineering design
Engineers Australia professional accreditation requirement | Free elective | Discipline technical elective or minor unit

1 If no foundation units are required.
2 Clayton campus students.
3 Malaysia campus students.

HOW TO APPLY

DOMESTIC STUDENTS

APPLY THROUGH VTAC

If you're an Australian or New Zealand citizen or an Australian permanent resident, apply through the Victorian Tertiary Admissions Centre (VTAC).
www.vtac.edu.au

PREREQUISITES

Please check that you meet the prerequisites for your chosen course before submitting your application. Prerequisite details for each course can be found in the admissions table beginning on page 28.

FEES

To estimate your course fees, visit: **monash.edu/fees**

COMMONWEALTH SUPPORTED PLACES (CSP)

You may be eligible for CSP if you are an Australian citizen, Australian permanent residents and permanent humanitarian visa holders or a New Zealand citizen living in Australia. A CSP is a subsidised enrolment where the government pays for part of your course and you only have to pay the Student Contribution Amount (SCA). Eligible CSP students may use a HECS-HELP loan to pay for all or part of the SCA.

monash.edu/enrolments/government-loans/commonwealth-supported-place

INTERNATIONAL STUDENTS

All international students must apply for a Monash University course online or through an accredited Monash agent.
Visit: **monash.edu/study/how-to-apply** for details.

Note: International students who are undertaking an Australian Year 12 qualification (for example, VCE or equivalent) in Australia or overseas, International Baccalaureate (IB) Diploma in Australia or New Zealand, or National Certificate of Educational Achievement (NCEA) Level 3 in New Zealand must apply through VTAC. Visit: **www.vtac.edu.au**

FEES

A$59,600 annual average fee per 48 credit points of study in this course for 2026. Further information on fees, visit: **monash.edu/fees**

MONASH COLLEGE

The preferred pathway for students who aspire to study engineering at Monash University but who narrowly miss the academic requirements for direct entry.

For more information on Monash College academic pathways, visit:
monashcollege.edu.au/courses

SCHOLARSHIPS

Monash celebrates academic excellence and supports students who are disadvantaged. We offer a range of scholarships and awards to help ensure money and circumstances aren't barriers to you accessing a world leading engineering education.

For details and a full list of scholarships, bursaries and awards available, visit: **monash.edu/scholarships**

LIVING IN MELBOURNE

Melbourne is a vibrant, multicultural city that offers an abundance of cultural festivities, international sporting events, cafés and restaurants with cuisines from around the world, beautiful parks and beaches, and an eclectic mix of music and arts. As one of the world's most liveable cities,[1] you can expect excellence in public transport and healthcare, as well as opportunities for casual work while studying.

COST OF LIVING

Before you begin your studies at Monash, it's a good idea to plan and prepare a budget. Your tuition and study fees do not include personal costs such as accommodation, food and miscellaneous items. For information on budgeting for your lifestyle, visit:

monash.edu/cost-of-living

STUDENT ACCOMMODATION

Living on-campus is a great way to experience university life and make connections while you study. On-campus accommodation is available at the Clayton campus and our Residential Services support team is available to help you through the application and transition process. If you prefer a little more independence, there is plenty of off-campus accommodation available.
For more information on accommodation, visit:

monash.edu/accommodation

STUDENT LIFE AT MONASH

CLAYTON CAMPUS

Twenty kilometres from the centre of Melbourne, Monash's Clayton campus combines a vibrant research, technology, and manufacturing precinct with first-rate sporting facilities, shops, a student centre, libraries, a post office, banks, medical services, and religious centres.

monash.edu/study/student-life

SUPPORT SERVICES

University study takes commitment and drive, especially if you're moving to a new city or country. We can help you settle into university life by providing an extensive range of support programs and services including:

- Academic support
- Safety and security
- Careers counselling
- Disability services
- International student support
- Spirituality
- Monash Connect
- Skills Essentials seminars
- Health and counselling.

monash.edu/students/support

ORIENTATION

Our orientation service incorporates a series of programs to help students adjust to a new country and the Monash University environment.

monash.edu/orientation

1 Economist Intelligence Unit.


Southbank


Australian native wildlife (Penguins)


Chadstone Shopping Centre


Great Ocean Road


The Shrine of Remembrance

MONASH University

DISCOVER MORE

Join us at one of our events to experience Monash Engineering first-hand.

- Monash Information Evenings
- Discover Monash Engineering
- Engineering Campus tours
- Monash Engineering Girls (MEG) program

monash.edu/engineering/events

MONASH ENGINEERING

monash.edu/engineering

FACEBOOK
MonashEngineers

INSTAGRAM
@monashengineering

LINKEDIN
linkedin.com/school/monash-engineering

TIKTOK
@monashengineering

YOUTUBE
youtube.com/monashengineering

MONASH UNIVERSITY
monash.edu

FIND A COURSE
monash.edu/study

FUTURE STUDENT ENQUIRIES
Australian citizens, permanent residents and New Zealand citizens
monash.edu/study/contact-us

International students
T Australia freecall: 1800 MONASH (666 274)
T +61 3 9903 4788 (outside Australia)
E study@monash.edu

Monash is proud to have the following industry partners who support our students through scholarships, prizes, the Employability Skills Program and Co-operative Education Internship Program:

4DMedical, Agilent, ANTEST, Aston Dynamics Engineering Excellence, aurecon, Bega, Bosch Invented for life, CORE Markets, ElectraLith, Australia FERA, Gelteq, Hitachi Inspire the Next, John Holland, prime air, PSCBiotech, Qantas, Telstra, VCrete Contractors

Philanthropic Donors: Alan and Elizabeth Finkel Foundation, Anita Castan Foundation, Dr. Colin White, Dr. Jerry Ellis AO, Dr. King Gan, Emeritus Professor Gary Codner, Motorola Solutions Foundation, Mr and Mrs Chor Kim Ng, Mr. Clive Weeks AO, Mr. Nick Apostolidis, Mr. Patrick Loftus-Hills, Professor Vin Massaro, Cicuttini Family, Dal Sasso Family, Dubsky Lang Foundation, Gandel Family, Hunt Family, Jenkins Family & Zema Energy.

OPEN DAY 2026

Peninsula
Saturday 1 August, 10am – 2pm

Caulfield
Saturday 1 August, 10am – 2pm

Clayton
Sunday 2 August, 10am – 4pm

Parkville
Sunday 16 August, 10am – 2pm

The information in this brochure was correct at the time of publication (April 2026). Monash University reserves the right to alter this information should the need arise. You should always check with the relevant faculty office when considering a course. Produced by University Marketing, Admissions and Communications, Monash University. CRICOS provider: Monash University 00008C Monash College 01857J

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