

Engineering at Deakin

Undergraduate courses



Top 1% worldwide
for engineering and
technology¹



Design the infrastructure of the modern world

Develop the engineering expertise to design infrastructure, power generation and complex mechanical systems. Ranked in the top 1% in the world for engineering and technology,¹ you'll get a competitive edge at Deakin. Tackle real-world engineering problems in collaborative projects with industry partners and through work placements.

Why study engineering at Deakin?

Design and innovation are at the heart of engineering at Deakin. Our future-focused courses go beyond theory to provide you with the skills and experience you need to create innovative engineering solutions to the challenges of tomorrow. Choose your area of expertise from our major sequences:

- Civil engineering
- Electrical and electronics engineering
- Environmental engineering
- Mechanical engineering
- Mechatronics engineering

You will combine contemporary theory with industry-led projects and benefit from Deakin's unique industry partnerships to develop the skills needed to confidently pursue a career as a professional engineer.

State-of-the-art facilities

Deakin's engineering precinct houses some of the most advanced and future-focused systems, laboratories and learning spaces in Australia. Throughout your course you will have access to our world class facilities including our Geelong Warrn Ponds campus which features over \$8 million worth of high-end teaching equipment and cutting-edge technologies, including expansive 3D printing labs and specialist aids enabling you to design, visualise and create innovative engineering solutions. Whether you choose to study on campus or online, you'll experience these state-of-the-art facilities firsthand.



Professional recognition

Deakin's Bachelor of Engineering degrees have been designed in accordance with Engineers Australia's accreditation requirements, which gives the degrees international recognition, allowing graduates to practise as professional engineers in many countries around the world.

Industry-informed teaching

Our connection to industry extends beyond curriculum and course design to include student placements and real-world projects, research collaborations and our industry advisory group. Some of our current industry connections include Acciona, Air Radiators, AusNet Services, Barwon Water, Downer, Ford, ISCAR, Norman Disney & Young, SEW-EURODRIVE and Thales with many of these companies employing our graduates.

Career opportunities

With an international skills shortage in the engineering industry, and roles expected to rise significantly in the next five years, Deakin graduates are in demand both in Australia and abroad. In fact, over 92% of our recent graduates found full time employment within four months of completing their course.²

A hands-on approach

Gain practical learning experiences throughout your engineering course with our innovative and student-centred teaching method: Project-Oriented Design-Based Learning (PODBL). In collaboration with industry, PODB is a key feature of our engineering degrees and will help you graduate ready to excel in your career.

As well as theory-based classes, you'll spend 50% of every trimester learning via team-based projects, tackling real-world industry problems and designing, researching, testing and evaluating solutions, with the support of academic teaching staff. Work-integrated learning (WIL) gives you the chance to undertake a full-time or part-time industry placement as part of your studies.



Major sequences

Civil engineering

By studying Civil Engineering you'll combine contemporary theory with industry-led projects to develop the skills needed to confidently design, construct and maintain the built infrastructure systems that are vital in our day-to-day lives. You'll learn how to apply scientific and engineering principles to address complex problems and develop innovative solutions that are beneficial to organisations and the community.

Electrical and electronics engineering

Acquire sought-after skills in power generation, distribution and control to prepare yourself for the renewable energy careers of the future. With an emphasis on power and energy supported by state-of-the-art electronics design and communication technologies, you'll gain hands-on skills and experience to tackle modern engineering challenges in a changing world. You will also access the latest electrical and electronics engineering tools and application software in world-class, multi-million-dollar facilities including our 7.25MW industrial-scale Renewable Energy Microgrid.

Environmental engineering

Focus on the practical application of engineering and scientific principals to become a highly skilled graduate ready to tackle global environmental issues such as climate change, sustainability and pollution. Gain knowledge across environmental engineering industry areas including waste management, water engineering, catchment management and soil and water remediation. Develop solutions-led technical and professional skills to put you in high demand in this future-focused field.

Mechanical engineering

Get the design, engineering and entrepreneurial skills required to develop and run the complex mechanical systems, devices and machines of the future. By majoring in mechanical engineering, you'll be able to confidently apply principles of design, technology and science to develop innovative solutions to real-world problems. You'll learn the professional, engineering and entrepreneurial skills required to work in a diverse range of industries that contribute to developing the systems of the future.

Mechatronics engineering

This major prepares you to be a practical and industry-ready engineer capable of designing the electronics, robots and autonomous systems of the future. You'll learn how to design, program and integrate electronic devices with mechanical designs that communicate with other computers, devices or even cloud-based systems. You'll be able to deliver innovative solutions to real-world problems and design autonomous and intelligent devices ranging from self-driving vehicles to biomedical systems.

What sort of engineer do you want to be?

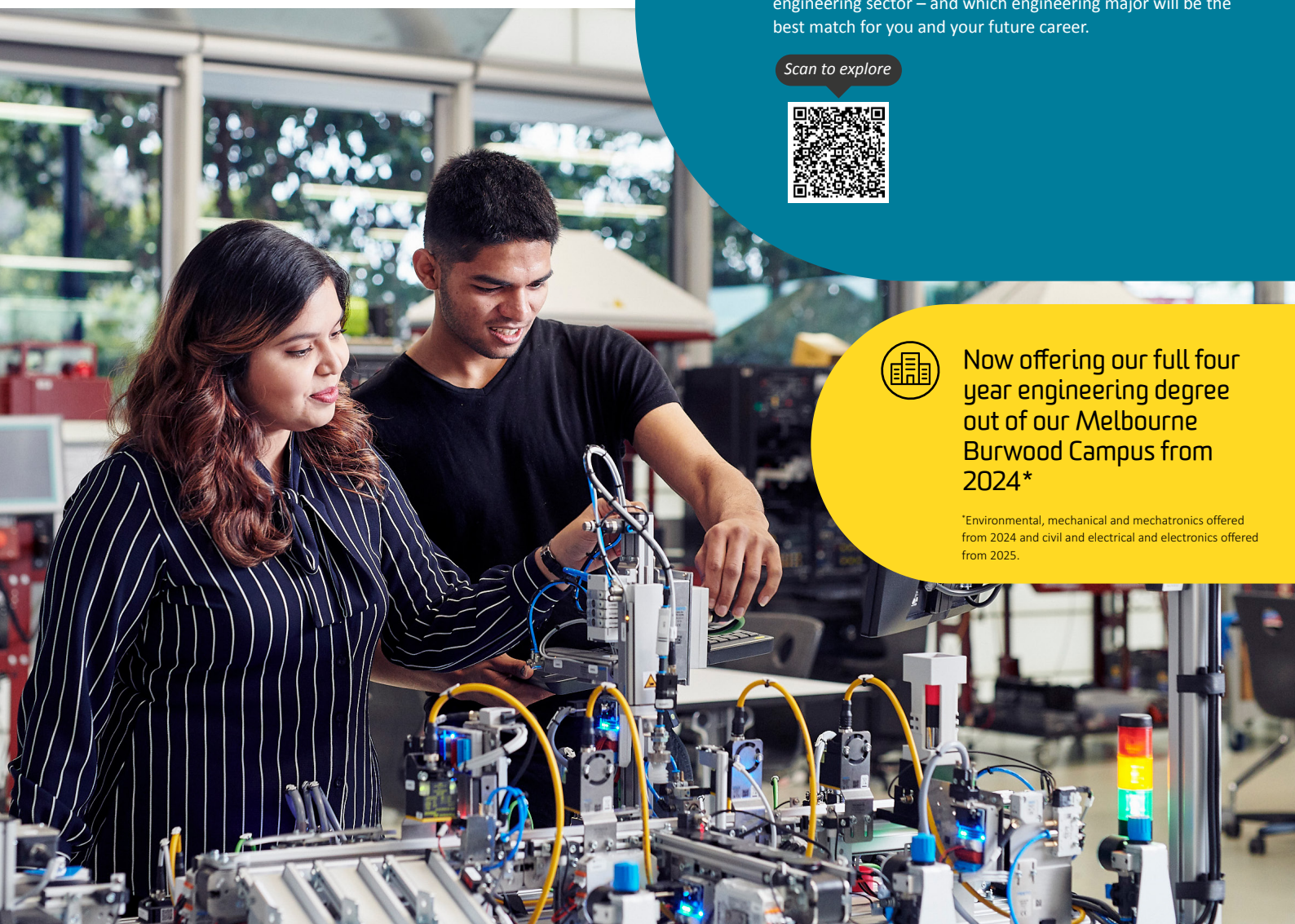
The work of engineers spans far and wide, from building tunnels and creating sustainable energy systems right through to constructing machinery and designing automated systems. Find out more about the diverse, rapidly evolving engineering sector – and which engineering major will be the best match for you and your future career.

Scan to explore



Now offering our full four year engineering degree out of our Melbourne Burwood Campus from 2024*

*Environmental, mechanical and mechatronics offered from 2024 and civil and electrical and electronics offered from 2025.





Study engineering online

Accessing an engineering degree is now easier than ever with all our engineering degrees offered online.*

With the same leading academic staff and collaborative approach to on-campus study, online learning is enhanced by Deakin's digital tools, which gives you the ability to watch content and learn in your own time, contribute to seminar discussions in online forums with peers, attend drop-in sessions with lecturers, and access software or lab facilities online from anywhere in the world.

Mechatronics engineering student, Richard, fills us in on his journey studying online at Deakin.

Watch now



*Some campus attendance is required to participate in Engineering Intensive Activities and demonstrate your skills competency in person.

Bachelor of Engineering (Honours)

Location: Waurm Ponds (Geelong), Burwood (Melbourne)* and Online
Duration: 4 years full-time study (or part-time equivalent)
Intake: Trimester 1 (March), Trimester 2 (July)
Deakin code: S467

The Bachelor of Engineering (Honours) goes beyond the classroom by giving you the skills and hands-on experience to create innovative solutions to real-world engineering problems. You will build in-depth foundational engineering skills and have the opportunity to tailor your degree to your future career aspirations by majoring in one of the following areas; civil, environmental, electrical and electronics, mechanical or mechatronics engineering. Combining contemporary theory with hands-on industry-led projects, you will develop the skills needed to confidently design, construct and maintain engineering systems. Whether you're building robots in our state-of-the-art lab spaces or solving complex problems on your industry placement, our flexible approach to project-based learning will help you develop the practical skills necessary for your dream career.

Work experience

You'll gain industry experience by completing at least 30 days of practical work experience in an engineering workplace with assessment tasks designed to develop and enhance your understanding of the engineering profession, professional practice and continuing professional development, possible career outcomes, and the opportunity to establish valuable professional networks.

Course structure

This 32-credit-point course consists of 11 credit points of core units, 19 credit points from a major of your choice (Civil, Electrical and electronics, Environmental, Mechanical or Mechatronics engineering), and 2 credit points of elective units.

*The Environmental, Mechanical and Mechatronics engineering majors will be offered at Burwood (Melbourne), Waurm Ponds (Geelong) and online from 2024. The Civil and the Electrical and electronics engineering majors will only be available at Waurm Ponds (Geelong) and online in 2024. From Trimester 1, 2025, all majors will be available at Burwood (Melbourne), Waurm Ponds (Geelong) and online.

Scan to explore



Bachelor of Engineering (Industry) (Honours)

Location: Waurm Ponds (Geelong), Burwood (Melbourne)* and Online
Duration: 5 years full-time study (or part-time equivalent)
Intake: Trimester 1 (March), Trimester 2 (July)
Deakin code: S466

The Bachelor of Engineering (Industry) (Honours) equips you with technical expertise in an engineering field of your choice whilst also supporting you to undertake a compulsory year-long paid work-integrated industry placement as part of your studies. You will build in-depth foundational engineering skills and have the opportunity to tailor your degree to your future career aspirations by majoring in one of the following areas; civil, environmental, electrical and electronics, mechanical or mechatronics engineering. You will combine contemporary theory with industry-led projects and benefit from Deakin's unique industry partnerships to develop the skills needed to confidently pursue a career as a professional engineer.

Work experience

You'll gain industry experience by completing a year-long paid work experience placement in your fourth year in an engineering workplace. This practice-based experience is intended to go beyond the minimum required professional practice knowledge and skills typically sought from graduate professional engineers (as defined by the Australian engineering profession) and provide the opportunity for further progressed professional practice knowledge and skills so that you stand out upon graduation.

Course structure

This 38-credit-point course consists of 11 credit points of core units, 19 credit points from a major of your choice (Civil, Electrical and electronics, Environmental, Mechanical or Mechatronics engineering), 2 credit points of elective units and 6 credit points of industry placement units. This course is not available to International students.

*The Environmental, Mechanical and Mechatronics engineering majors will be offered at Burwood (Melbourne), Waurm Ponds (Geelong) and online from 2024. The Civil and the Electrical and electronics engineering majors will only be available at Waurm Ponds (Geelong) and online in 2024. From Trimester 1, 2025, all majors will be available at Burwood (Melbourne), Waurm Ponds (Geelong) and online.

Scan to explore



Entry to our courses with either General, Methods or Specialist mathematics.

deakin.edu.au/study-engineering

deakin.edu.au/study/how-to-apply

1800 693 888

deakin.edu.au/help-hub

*2023 Times Higher Education World University Rankings by Subject

2QILT Student Experience Survey 2020 and 2021

Published in July 2023. While the information published in this guide was accurate at the time of publication, Deakin University reserves the right to alter, amend or delete details of course offerings and other information published here. For the most up-to-date course information please visit deakin.edu.au.

Deakin University CRICOS Provider Code: 00113B