2019 Undergraduate Engineering
Cloud Campus | Melbourne | Geelong | Warrnambool

Civil engineering
Electrical and electronics engineering
Environmental engineering
Mechanical engineering
Mechatronics engineering
Software engineering
Develop the engineering expertise to design the infrastructure of our modern world, from roads and power generation to complex mechanical systems. Get a competitive edge at Deakin by tackling real-world engineering problems in collaborative projects with industry partners and through work placements. Graduate ready to excel in your career thanks to our design-based approach to learning and state-of-the-art facilities.

Engineering at Deakin

Secure your place in the future of engineering
Project-oriented design-based learning (PODBL) in collaboration with industry is a key feature of our engineering degrees. This innovative and student-centred teaching methodology means that practical learning experiences are woven throughout the duration of our engineering courses.

In addition to traditional theory-based classes, you will spend 50 per cent of every trimester learning via team-based projects, in which you take real-world industry problems, and design, research, test and evaluate solutions, with the support of an academic.

Work integrated learning gives you the chance to undertake a full-time or part-time industry placement as part of your studies.

To learn more about industry placements, visit deakin.edu.au/sebe/international-wil.

Experience leading-edge facilities
Engineering students at Deakin access world-class facilities located within the Centre for Advanced Design in Engineering Training (CADET). Having access to some of the best facilities in the Australian sector allows students to realise and validate their designs through combinations of computer simulation, prototyping, testing and manufacturing. The focus on design and innovative approach to learning throughout CADET ensures that you have extensive access to state-of-the-art equipment, enabling you to gain practical experience and a deeper understanding.

Key facilities/laboratories
- Virtual reality
- 3D printing/additive manufacturing
- Materials and manufacturing
- Renewable energy
- High voltage
- Geomechanical
- Concrete and structural testing
- Water

Find out more at deakin.edu.au/engineering/cadet.

Smart energy partnership
Deakin and AusNet Services, through its Mondo Power advanced energy solutions group, are collaborating as part of a $30 million project to establish an industrial-scale smart microgrid energy system and integrated research and education platform at Deakin’s Geelong Waurn Ponds Campus.

The Waurn Ponds Smart Energy Partnership will establish a 2.25 megawatt smart microgrid, including a solar generation farm, a 1 megawatt battery storage capacity and an integrated new research and visualisation centre, providing unique opportunities for Deakin to develop and test solutions at an industrial scale and train the next generation of energy professionals.
Engineering at Deakin

Professionally accredited courses
The School of Engineering’s long-standing partnership with Engineers Australia is an important relationship and informs our teaching program. This ensures our curriculum is relevant and that our graduates develop the skill set that employers want, as well as giving our civil, mechanical and mechatronics engineering degrees professional accreditation that is internationally recognised – allowing graduates to practise as professional engineers in many countries around the world. The Bachelor of Electrical and Electronics (Honours) is also provisionally accredited by Engineers Australia and Deakin University is currently seeking full accreditation at the time this publication went to print.

Not only that, employers seek out Deakin graduates for their forward-thinking, innovative and entrepreneurial qualities.

Valuable links with industry
Our connection to industry extends beyond curriculum and course design to include student placements, projects and our industry advisory group, which includes members from the following companies: SEW-EURODRIVE, AusNet, Iscar, Thales, Norman Disney & Young, Barwon Water, Ford and Air Radiators.

Travel the world
Deakin offers various overseas programs, including trimester abroad, short-term partner programs, faculty-led study programs, overseas internships and international volunteering opportunities. Deakin engineering students have studied and completed work experience in a wide range of countries, including China, India, Taiwan, Malaysia, USA and Sweden. Study abroad programs provide students with the opportunity to pursue their degree while learning about techniques and theories that foreign countries employ and enhance career opportunities for our students. For more information, visit deakin.edu.au/overseas-study.

Deakin also offers the Global Science and Technology Program, giving you the chance to gain experience beyond the classroom and experience the world while studying. The program is open to current Year 12 students via the VTAC application process. For more information, visit deakin.edu.au/sebe/global.

Civil engineering
Civil engineers are responsible for the planning, design, construction and project management of buildings and roads, airports and railways; water resources management; water supply and sewerage systems; and other infrastructure systems.

Electrical and electronics engineering
Study design, construction, protection and project management of power generation, distribution, transmission, scheduling and usage, automation and control. You’ll learn about renewable electrical power generation, smart distribution and power usage in different locations and the role of energy production and efficiency in climate change. This cross-range of study will enable you to take on a number of diverse roles after graduation.

Environmental engineering
Learn how to develop practical engineering applications to protect our environment. This rapidly growing field of expertise will make you a highly sought-after graduate for a range of areas including energy, water, construction and waste management.

Mechanical engineering
Mechanical engineering is the application of science and technology to the design, production and operation of systems, mechanical devices and machinery. Mechanical engineers are involved with almost every design imaginable, including complex items such as cars, aircraft and medical implants.

Disciplines
At Deakin we talk about disciplines, also known as study areas. You might be interested in a particular discipline, but uncertain about the course that’s right for you. Read through these discipline descriptions and, if they interest you, go to the relevant course in the following pages to find out more about the course, what you’ll study, work experience opportunities and the types of careers it may lead to. You can also visit deakin.edu.au for detailed course information, including a description of the units within each degree.

Engineers design creative solutions to technical problems that impact the world around us. Whether you are interested in a career in design, consulting, construction, energy or manufacturing, or you’re looking to expand your skills in innovation and entrepreneurial thinking, Deakin’s undergraduate engineering degree options are a terrific way to advance your career and make an impact on the world!

Professor Karen Hapgood
Head of School
School of Engineering

Courses to careers
At Deakin, we’re about careers and experience, not just courses. Visit explore.deakin.edu.au to kickstart your course and career exploration at Deakin. With more than 600 paired courses and careers, it’s the perfect destination for you to explore your future career.

Environmental engineering
Environmental engineering teaches you how to integrate electronic devices with mechanical design and information technology. These principles help you to design and build many real-world applications such as automated processes, surgical robots or even self-driving cars. In second year you’ll design a robot for potential entry into the Warman Competition, and in third year you’ll design and build ‘sumo robots’ that need to outsmart, overpower and outmanoeuvre the competition.

Software engineering
Create the smart systems of the future. Studies in software engineering give you specialised skills in computing, robotics and cyberphysical systems, in preparation for a career as an innovative software engineer capable of developing the smart devices and systems of the future.

Mechatronics engineering
Mechatronics teaches you how to integrate electronic devices with mechanical design and information technology. These principles help you to design and build many real-world applications such as automated processes, surgical robots or even self-driving cars. In second year you’ll design a robot for potential entry into the Warman Competition, and in third year you’ll design and build ‘sumo robots’ that need to outsmart, overpower and outmanoeuvre the competition.

Software engineering
Create the smart systems of the future. Studies in software engineering give you specialised skills in computing, robotics and cyberphysical systems, in preparation for a career as an innovative software engineer capable of developing the smart devices and systems of the future.
Bachelor of Civil Engineering (Honours)
Deakin's Bachelor of Civil Engineering (Honours) places great emphasis on the practical application of engineering and scientific principles to produce industry-ready engineers, who are immediately employable and capable of adapting to an ever-changing future.

The degree gives you the building blocks to plan, design, construct and maintain the infrastructure systems that are necessary for our day-to-day lives such as roads, airports and railways; water supply and sewerage systems; water resources management; and buildings. This course covers the broad range of civil engineering disciplines, including engineering materials, structural engineering, water engineering, geotechnical engineering and transport engineering.

Work experience
Professional Engineering Practice is a compulsory unit in all Deakin engineering degrees. This means you will have a minimum of 60 days work experience in one or more organisations, giving you insight into your future career options. You also study a range of project-oriented design-based learning and project-based learning units, bringing together theory, site studies and laboratory investigations, including Water Engineering Design and Geotechnical Investigation and Design, for example.

Careers
As a graduate, you’ll be highly sought after by industry for your skills in engineering, innovation, leadership, project management and communication, as well as your capacity to astutely anticipate and tackle the unknown challenges of tomorrow.

Professional recognition
Engineers Australia
Course structure
32 credit points – 31 core units and one elective unit.
deakin.edu.au/study-at-deakin/find-a-course/civil-engineering

Bachelor of Electrical and Electronics Engineering (Honours)
This program covers the broad areas of electrical and electronic engineering disciplines, including renewable power generation and grid integration of renewable energy sources; smart distribution and transmission; urban, industrial, rural and regional power usage; energy efficiency and intelligent demand management.

The course encourages the responsible use of electrical power in a changing climate and covers a broad range of electrical and electronic engineering disciplines. You’ll also develop an understanding of the ethical considerations and contemporary technical issues in the practice of engineering.

The design-based approach undertaken during the course allows students to apply fundamental theory in industry-relevant projects, combining project management and communication skills along with direct access to industry and state-of-the-art facilities.

Work experience
Professional Engineering Practice is a compulsory unit in all Deakin engineering degrees. This means you will have a minimum of 60 days work experience in one or more organisations, giving you insight into your future career options. You also study a range of project-oriented design-based learning and project-based learning units, bringing together theory, site studies and laboratory investigations, including Electrical Systems Engineering Project, Power System Protection Design and Safety, for example.

Careers
Extensive employment opportunities in design, production, technical and consulting roles within a range of industries including renewable energy industries, power utilities, resources/mining, local government and public works.

Professional recognition
The Bachelor of Electrical and Electronics Engineering (Honours) is provisionally accredited by Engineers Australia. Deakin University is currently seeking full accreditation at the time this publication went to print. For the latest information please visit deakin.edu.au/study-at-deakin/find-a-course/electrical-and-electronics-engineering.

Course structure
32 credit points – 31 core units and one elective unit.
deakin.edu.au/study-at-deakin/find-a-course/electrical-and-electronics-engineering

AusNet Services Women in Power Engineering Scholarship
AusNet Services offers a number of scholarships to encourage successful female students into engineering disciplines. The Women in Power Engineering Scholarship is available to females entering the Bachelor of Electrical and Electronics Engineering (Honours), with successful applicants receiving a cash payment of up to $10,000 per year for the normal duration of the course.

For more information, visit deakin.edu.au/ausnet-services-women-in-power-engineering-scholarship.

Bachelor of Environmental Engineering (Honours)
Develop a breadth of knowledge across the environmental engineering discipline and the technical skills to develop sustainable engineering solutions to the challenges faced within this field. In particular, learn the fundamentals of environmental engineering and the natural and physical sciences involved in the discipline, including geography, chemistry, mathematics, environmental science and analysis, marine ecosystems, fluid mechanics, hydrology and hydraulics, waste management, environmental infrastructure, protection, planning and more.

Work experience
You’ll gain industry experience by completing at least 60 days of practical work experience in an engineering workplace, developing and enhancing your understanding of the environmental engineering profession, possible career outcomes and the opportunity to establish valuable professional networks.

Careers
Graduates will be in high demand for employment with engineering firms, land developers, government agencies, consulting firms; and well prepared for careers that address global issues such as climate change, environmental sustainability, waste disposal, recycling, public health, air and water pollution.

Course structure
32 credit points – 31 core units and one elective unit.
deakin.edu.au/course/bachelor-environmental-engineering-honours

AusNet Services Women in Power Engineering Scholarship
The project-based learning approach is really engaging and unique to Deakin, as well as the early adoption of design skills.

Jordan Ritchie
Bachelor of Mechanical Engineering (Honours) student

#1 careers service in Victoria
Our Graduate Employment division is dedicated to preparing you for the jobs and careers of the future. Through DeakinTALENT’s programs and services you can research different career options, hone your interview skills, as well as look for casual work while you study or find a graduate job.

Visit blogs.deakin.edu.au/deakintalent

The student experience
Hear what students have to say about studying engineering at Deakin by visiting deakin.yt/eng-students. Interested in the staff perspective? Visit deakin.yt/eng-staff.

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**Bachelor of Mechanical Engineering (Honours)**

The Bachelor of Mechanical Engineering (Honours) draws heavily on Deakin’s world-class research in automotive engineering and advanced materials/manufacturing, strong links with industry and state-of-the-art facilities. The design-based approach undertaken during the course allows students to apply fundamental theory in industry-relevant projects, combining project management and communication skills with advanced numerical simulation techniques, product realisation and testing.

During the course you’ll cover core mechanical disciplines, including machine design, thermo-fluids, structural design and industrial control while developing skills in project management, communication and financial management. You will also gain a solid understanding of product and process modeling, and how to design for sustainability.

You’ll also have opportunities to test your mechanical design and engineering skills in challenges, such as the Shell Eco Marathon and Warman international and other national competitions. Graduates have a high degree of employability in the automotive and manufacturing sectors, as well as a range of other industries that utilise students’ strong engineering design and product development skills.

**Course structure**

32 credit points – 31 core units and one elective unit.

deakin.edu.au/study-at-deakin/find-a-course/mechanical-engineering

**Work experience**

Professional Engineering Practice is a compulsory unit in all Deakin engineering degrees. This means you will have a minimum of 60 days work experience in one or more organisations, giving you insight into your future career options. You also study a range of project-oriented design-based learning and project-based learning units, bringing together theory, site studies and laboratory investigations, including Structural Design, Thermo-Fluid System Design and Industrial Control, for example.

**Careers**

Extensive employment opportunities in design, production, technical and consulting roles within a range of industries including high-tech manufacturing, automotive and resources/mining.

**Professional recognition**

Engineers Australia

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**Bachelor of Mechatronics Engineering (Honours)**

The Bachelor of Mechatronics Engineering (Honours) integrates electronic devices with mechanical design and information technology, preparing you to be an industry-ready professional engineer. You will gain the skills to apply mechatronics engineering principles to challenging real-world problems such as the automation of industrial processes using robotics and other cutting-edge technologies, flying drones, 3D printers, robotics and self-driving cars.

The course also provides you with transferable skills in entrepreneurship, innovation, project management, technical report writing and more.

You’ll develop an understanding of ethics within the engineering profession, and of technical and professional issues within the industry while gaining an insight into the social, cultural, global and environmental responsibilities of the modern engineer.

**Careers**

Employment opportunities as a mechatronics engineer are diverse and include roles in industrial automation and electronic control systems, transportation systems, developing mechatronic products and systems, and as a consulting engineer.

**Work experience**

Professional Engineering Practice is a compulsory unit in all Deakin engineering degrees. This means you will have a minimum of 60 days work experience in one or more organisations, giving you insight into your future career options. You also study a range of project-oriented design-based learning and project-based learning units, bringing together theory, site studies and laboratory investigations, including Design Fundamentals, Electrical Systems Engineering Project and Embedded System Design, for example.

**Professional recognition**

Engineers Australia

**Course structure**

32 credit points – 31 core units and two elective units.

deakin.edu.au/study-at-deakin/find-a-course/mechatronics-engineering

* The first year is available at all three campuses. Students undertaking first year at the Melbourne Burwood Campus can choose to complete their course requirements either at the Geelong Waurn Ponds Campus or via the Cloud Campus. International students can only enrol in this course at the Geelong Waurn Ponds Campus or Cloud Campus.

* Cloud Campus students are required to participate in campus-based intensive activities each trimester at the Geelong Waurn Ponds Campus.

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**The most satisfied students – 8 years in a row**

At Deakin, we pride ourselves on the satisfaction of our students and the success of our graduates. To us, the experience of each student matters, from the quality of teaching they receive to their ongoing employability. When Deakin scores highly in a number of rankings year on year, it’s thanks to many thousands of these great individual experiences.

* Australian Graduate Survey 2000-2015, Graduate Outcomes Survey – Quality Indicators for Learning and Teaching 2016-2017

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‘CADET is a very thoughtful facility and encourages students to develop teamwork skills in the way the classes/studios are set up. The facility provides modern technological features to facilitate student learning.’

Raveena Nethmi Ranepura Dewage
Bachelor of Civil Engineering (Honours) student
The Bachelor of Software Engineering (Honours) is an innovative course focusing on software engineering, cyber-physical systems and robotics applications, producing sought-after graduates who will create the technologies of the future.

The rapid advancement of sensing and computing hardware supporting smart, connected devices is driving growing demand for software engineers who can move beyond traditional technologies such as web and database systems.

During the course you will extend your skills beyond web and database technologies and desktop software patterns to acquire niche skills in robotics and cyber-physical computing in preparation for careers as innovative software engineers capable of developing the cyber-physical systems of the future.

Work experience
This course includes a core internship unit, where you will be required to undertake a minimum of 100 hours in industry, providing professional work experience with an approved host organisation.

You will also have an opportunity to use your elective units to apply for an industry-based learning position or alternatively a short-term Career or STEM Placement to work on industry projects, gaining experience in entrepreneurship and business skills.

Careers
As a software engineer you will operate at the junction of software development and systems engineering, applying your specialised robotics and cyber-physical computing skills alongside hardware designers and application developers. You will drive the design and development of computing solutions that interact with people and operate within and interact with environments and other technologies.

Course structure
32 credit points – 20 core units (totaling 28 credit points) and four elective units.

deakin.edu.au/course/bachelor-software-engineering-honours

The Bachelor of Science and Technology Program at Deakin is designed to add an international experience to your degree, supporting you to develop new skills and a broader world view while studying overseas. Successful applicants will be offered a monetary scholarship to assist with travel costs and will be required to participate in the Deakin Global Citizenship Program.

How to apply
The program is open to current Year 12 students. You apply via a two-stage process. First, add the Global Science and Technology Program to your list of course preferences through VTAC, followed by your undergraduate course of interest as a lower preference. Second, complete the Global Science and Technology Program Supplementary Application form, which is available on Deakin’s website.

To see where past students have gone, visit deakin.edu.au/sebe/global.

Find your course
Browse from the hundreds of exciting undergraduate courses we have on offer at deakin.edu.au. Undergraduate courses at Deakin generally begin in March, and some courses also have intakes in July and November.

Once you find the course you’re after, make sure you understand the entry requirements, application methods and application dates.

Understand the entry and documentation requirements
Make sure you understand the entry requirements for your chosen course by reading the course page carefully (online at deakin.edu.au/course or in this booklet). For recent secondary education applicants, in addition to the listed ATAR, some courses may require you to have studied a prerequisite subject(s), or others may also require you to provide extra materials, such as a portfolio or personal statement.

Selection requirements for non-Year 12 applicants may include personal statement, entrance tests as specified, e.g. STAT (Special Tertiary Admissions Test), or the non-academic assessment (for all applicants to teaching courses), supplementary information form, audition, interview or folio presentation.

What type of applicant am I?
Recent secondary education applicant
• Current Year 12 student
• Completed Year 12 in 2017 or 2016
• Interstate Year 12 student
• New Zealand school leaver
• International Baccalaureate (IB) student
• Gap-year student

Non-Year 12 applicants
• Applicants with higher education study
• Applicants with VET study
• Applicants with work and life experience

For more information about your application, please refer to the 2019 Undergraduate Architecture and Built Environment booklet or visit deakin.edu.au/study-at-deakin/find-a-course/construction-management.

Gather supporting documents
When applying direct to Deakin as a non-Year 12, it’s important to attach any requested supporting documentation, which may include a CV, academic transcripts, STAT results or a personal statement, otherwise your application may be delayed. We recommend gathering all this documentation before you commence the application process to ensure you can complete it in one sitting.

Apply
Depending on your course, our flexible trimester system means you may be able to start in Trimester 1 (March), 2 (July) or 3 (November). If you're a recent secondary education applicant, applications for Trimester 1 should be made through VTAC (vtac.edu.au).

If you are a non-Year 12 applying for Trimester 1 for one Deakin course only, you may apply direct to Deakin. Applications for Trimester 2 or 3 should be made directly to Deakin via the applicant portal at applicantportal.deakin.edu.au.

### Bachelor of Civil Engineering (Honours) | S460

- **VCE units 3 and 4** – a study score of 20 in English other than EAL or at least 25 in English (EAL) and a study score of at least 20 in one of: mathematical methods (any) or maths: specialist mathematics.
- Refer to specific course entry.

### Bachelor of Electrical and Electronics Engineering (Honours) | S460

- **VCE units 3 and 4** – a study score of 20 in English other than EAL or at least 25 in English (EAL) and a study score of at least 20 in one of: mathematical methods (any) or maths: specialist mathematics.
- Refer to specific course entry.

### Bachelor of Environmental Engineering (Honours) | S465

- **VCE units 3 and 4** – a study score of 20 in English other than EAL or at least 25 in English (EAL) and a study score of at least 20 in one of: mathematical methods (any) or maths: specialist mathematics.
- Refer to specific course entry.

### Bachelor of Mechanical Engineering (Honours) | S462

- **VCE units 3 and 4** – a study score of 20 in English other than EAL or at least 25 in English (EAL) and a study score of at least 20 in one of: mathematical methods (any) or maths: specialist mathematics.
- Refer to specific course entry.

### Bachelor of Mechatronics Engineering (Honours) | S463

- **VCE units 3 and 4** – a study score of 20 in English other than EAL or at least 25 in English (EAL) and a study score of at least 20 in one of: mathematical methods (any) or maths: specialist mathematics.
- Refer to specific course entry.

### Bachelor of Software Engineering (Honours) | S464

- **VCE units 3 and 4** – a study score of 20 in English other than EAL or at least 25 in English (EAL) and a study score of at least 20 in one of: mathematical methods (any) or maths: specialist mathematics.
- Refer to specific course entry.

### Global Science and Technology Program

- Applicants must meet the prerequisites for their specific engineering preference.
- **Extra Requirements**: Applicants must also complete and submit the Global Science and Technology Program Supplementary Information Form (deakin.edu.au/visglobal).

### Related Course

### Bachelor of Construction Management (Honours) | S346

- **VCE units 3 and 4** – a study score of 20 in English other than EAL or at least 25 in English (EAL).
- Refer to specific course entry.

### Course and Entry Requirements

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<td>$30,200</td>
<td>6/6</td>
</tr>
<tr>
<td>Global Science and Technology Program</td>
<td>80.00</td>
<td>A</td>
<td>A</td>
<td>N/A</td>
<td>N/A</td>
</tr>
</tbody>
</table>

**Note:** The 2020 indicative Commonwealth Supported Place (CSP) fees are based on a typical enrolment for an Australian domestic student enrolled in two trimesters of full-time study, or 8 credit points, unless otherwise indicated. This fee should be used as a guide only and is subject to change.

The 2020 annual course fees for international students indicates the tuition fee for two trimesters of full-time study, or 8 credit points, unless otherwise indicated. Additional fees may apply. This fee is subject to change for 2020. Visit deakin.edu.au/int-fees for latest information.

IELTS is the International English Language Testing System (for international students only). The IELTS scores in the table above reflect the minimum overall score required as well as the lowest score allowed for any band (overall and/or lower band scores).

Recent secondary education applicants include current Year 12 and Year 12 graduates from 2017 and 2018.

There are three categories under which non-Year 12 applicants may apply to Deakin:
- applicants with higher education study;
- applicants with vocational education;
- work and life experience.

Visit deakin.edu.au/course and head to the course of interest to find out further details on admission requirements.

### Ingenious engineering

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### Barwon Water Achievement Award

If you’re studying in the first year of your engineering or environmental science degree, we encourage you to apply for this scholarship. The award is valued at $2000 per year for three years, pending academic performance. You must be able to show outstanding commitment to the community; and selection is based on an application and interview. Scholarship recipients are encouraged to undertake the opportunity of paid work experience with Barwon Water during the summer vacation and trimester breaks.

* Visit deakin.edu.au/scholarships for latest information.
Contact us

Need to contact Deakin?
We have staff at each of our campuses who are more than happy to answer your general queries.

Prospective student enquiries
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myfuture@deakin.edu.au

International students
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study@deakin.edu.au

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www.studyassist.gov.au
www.myfuture.edu.au
www.youth.gov.au
www.youthcentral.vic.gov.au

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WARRNAMBOOL
5 August 2018
9.00 am–3.00 pm
Princes Highway, Warrnambool Victoria

GEELONG WAURN PONDS
19 August 2018
9.00 am–3.00 pm
75 Pigdons Road, Waurn Ponds Victoria

GEELONG WATERFRONT
19 August 2018
9.00 am–3.00 pm
1 Gheringhap Street, Geelong Victoria

MELBOURNE BURWOOD
26 August 2018
9.00 am–3.00 pm
221 Burwood Highway, Burwood Victoria

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Engineering