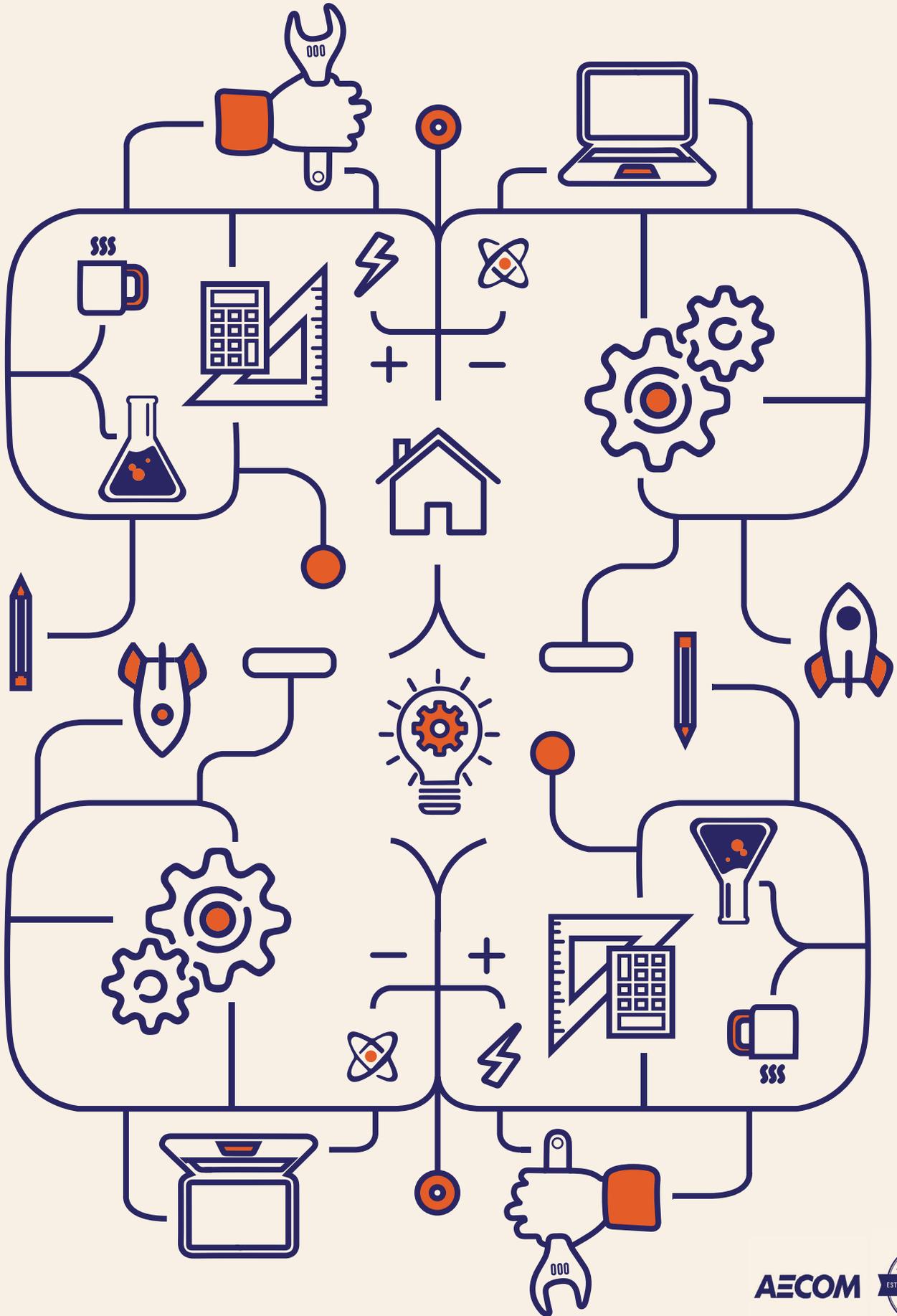


# MONASH ENGINEERING CAREERS GUIDE 2021



## ACKNOWLEDGMENTS

**2021 Careers Guide Coordinator**  
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The 2021 Monash Engineering Students' Society would not have been possible without the hard work and dedication of many people.

Firstly, I'd like to thank our designer Ruby Waldren for her commitment and creativity, and the many hours she has invested in the project. Her ability to professionally design content and ideas, creating this brilliant publication has been invaluable.

Thank you to the 2021 MESS Sponsorship and Industry Team, lead by our determined and hard-working Industry Director Karina Vasudevan. Your immense efforts, hours of resilient work behind the scenes have made this guide possible. An Qu, Angus Costopoulos, Billie Bennet, Grace Boxer, Marko Moutafis, Atulya Anil Kumar, Blake Froude, Callum Taylor, Courtney Papa, Daniel Boffa, Jacinta Yao, Simon Haleel, Jayasurya Jayachandran, Rachel Knowles, Luke McVicar, Madeleine Allen, Max Peethamparam, Phil Riha, Taylor Poon and of course Erika Choong and Olivia Downes: you have generously volunteered your time and are collectively providing hundreds of engineering students with fulfilling networking experiences and an exceptional support in their journey from university to the industry world.

Every year, Monash University collaborates providing us with content that completes this guide in all ways. I'd like to thank Monash Abroad, Careers Connect, the Monash University Faculty of Engineering, Monash Industry Team, Monash Talent, and each and every student club and team whose representatives have devoted themselves to enhancing the life of Engineering Students at Monash University and have made the 2021 MESS Careers Guide into a comprehensive resource for them.

I acknowledge Connor Vaux, for supporting me in every step of the way. Further, to Stephen Bajan, Miranda Ray-Flaming, Shish Qian, Blake Froude, Sophia Tan, Clare Carew, I cannot express the importance of your support and wish you all the best with your future endeavours.

Finally I want to express my gratitude towards our 2021 industry partner firms and companies featured in the Guide this year. Your contribution to the Industry Program at MESS, attendance to events and support to young aspiring engineers is unmatched in providing students with lifelong networking skills and industry connections that will lead to new opportunities. Your partnership with MESS provides students with a smooth transition into the workforce and a motivation to study and work within the engineering industry.

The MESS Careers Guide is a valuable resource like no other, and it's product of the combined efforts of many great minds, I know that engineering students at Monash will be able to make great use of it.

“

**THE ENGINEERING  
HAS BEEN, AND  
IS, A MAKER  
OF HISTORY**

**- JAMES KIP FINCH**

## WELCOME

### 2021 Industry Director Karina Vasudevan

It is my great pleasure to welcome you all to the 2021 Monash Engineering Careers Guide, produced by the Monash Engineering Students' Society (MESS), and supported by our partners at AECOM.



The Careers Guide is the result of several hours of hard work by the MESS Industry Team. Alba, our Careers Guide Coordinator made this entire publication possible, and Erika and Olivia, our Industry Officers, were fantastic in their supporting work. We all could not be prouder to present you with this incredibly comprehensive resource.

My aim as the Industry Director at MESS is to help students grow professionally and prepare you for life in the industry or beyond university, and I really believe this is one of the most valuable resources available to all Monash Engineering students in this journey.

The Careers Guide showcases all the extracurricular opportunities that exist to you as a Monash Engineering student. I cannot emphasise highly enough how valuable these experiences are!

Not only will such experiences immediately set you apart to any future employer, but you will also imbibe countless skills along the way that can never be gained in any classroom. My recommendation is finding something that aligns with your interests or goals, and just going for it!

Furthermore, you will notice an extensive amount of career-related advice inside the Careers Guide (as the name might suggest). Do read through these, and also take the time to browse the 'Company Listings' and familiarise yourselves with our partner companies. This is an excellent way to envision where you might like to work in one day.

I also want to bring the MESS Industry Programme to your attention - as a club, we work tirelessly to run networking events, seminars, workshops and distribute resources throughout the year. We connect you, the students, with industry representatives and companies spanning across the fields of Engineering, Technology, Consulting, Trading and more, with your professional success being our main goal. Please make good use of all that we have to offer you.

I will leave you with a reminder - that as Engineering students, we truly are key to the future. We are not defined by our grades, but rather by the opportunities that we seize, the skill sets that we continually seek to grow, and the openness to learning that we all share. I hope that the 2021 Monash Engineering Careers Guide inspires you all to continue to build on your experiences, or to try something new this year.

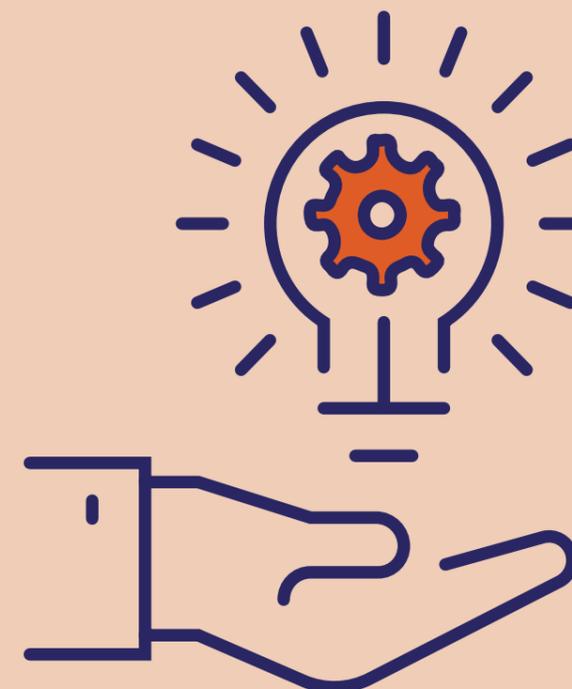


Karina Vasudevan  
Industry Director

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# MESS INDUSTRY PROGRAM 2021

## What is MESS?

The Monash Engineering Students' Society is a non-for-profit society run by students who work to help Monash Engineering students graduate as the best engineers they can be. Throughout the year, MESS will host industry events that will provide you with the necessary skills to go into the workforce, as well as offering multiple opportunities for interaction and networking with our sponsoring firms, without whom this wouldn't be possible.

**If you have any new ideas, MESS would love to hear from you!**

## Beers with Engineers Semester One

Beers with Engineers is MESS' premier industry event, unique in the fact that it's format completely contrasts the typical structure of a networking event. The friendly and social atmosphere of Beers with Engineers, complemented by an off-campus venue, eliminates the formalities of traditional networking.

This event creates a comfortable environment for students to familiarise themselves with your company and its representatives. This setting encourages genuine networking conversation, allowing representatives to meet potential employees in a more social setting.



## Industry Night Semester Two

This is a chance for students and industry representatives to develop more meaningful relationships through in-depth conversations. This night commences with assessment style activities designed to encourage conversation as well as familiarise students with company brands. This is then followed by an open networking session in which your organisation will be able to promote, and converse with attendees about career opportunities.

This more structured format is designed to assist students who feel daunted by the prospect of networking and provides your representatives with further opportunities to promote your organisation.



## Online Alternatives

In the case of an online-based year, where in-person event attendance levels are heavily restricted or prohibited altogether, two online events have been planned to completely replace the in-person versions of Beers with Engineers and Industry Night.

## Beers with Engineers Semester One

If transitioned online, Beers with Engineers will still remain an informal networking night of the same name, with an emphasis on online activities and the trademark casual, relaxed environment of the event.

It will be an interactive way for students to reach out to representatives and companies to pursue internships, post-graduate roles and careers. The enjoyable online activities will encourage relationships between student and representatives, allowing for a more individual and engaging experience.

## Industry Night Semester Two

If transitioned online, Industry Night will correspond to the extremely successful Online Industry Fair, which was run twice in 2020 with an attendance of over 500 students collectively. This event was composed of three different sub-events: company presentations, networking and employability workshops and Q&A with students.

The event was an incredible way for companies to speak on various topics from skills required to apply for their Engineering roles, to the work culture within their industry. This format is an ideal way to give students insight about the company and how to reach out for employment positions.



# STUDENT TESTIMONIAL

## Shish Qian

**Bachelor of Resources and Renewable Energy Engineering (Honours)  
Graduate Electrical Engineer in Future Power Solutions at Jacobs  
shishqian@gmail.com**

### Tell us a little bit about yourself:

My fun fact is that I was born in South Africa, but I am a true Melburnian. I love brunch and am constantly on the hunt for good plant-based feeds. My COVID hobby was turning my apartment into a jungle and my cat, Momo, was not impressed that her prime sunbaking positions have become occupied by plants. I love exploring and travelling and have recently discovered my love for hiking.

### What are your top tips as to making the most of your time at university?

**Say yes.** Say yes to *all the opportunities* that interest and fascinate you, and sometimes even say yes to the opportunities that you're not 100% sure about. You never know where those opportunities may lead you and what kind of people you may meet and connect with. Sign up for that club, go on exchange for a month, six months or a year, apply for that job that you probably won't get. As they say, you miss 100% of the shots that you don't take.

**Balance.** This is a hard one. It's easy to get caught up in chasing good grades or attending every single one of the uni social events and running yourself into the ground. Set aside time to focus on your mental and physical self and reset every couple of days or weeks. It's important to recognise your own boundaries and not push yourself too hard.

**Set goals.** Have an idea of what you want, whether it's short or long term. *I found it much easier to decide what I wanted to do when I had an overarching goal to work towards.* Do you want

to develop your leadership skills and improve your public speaking this year? Volunteer for a club committee position and help organise events. Do you want to secure an internship for the end of the year? Attend networking events and start getting those connections.

### What are your top tips as to making the most of your time at university?

I think the biggest misconception I had when starting university is that taking longer to finish your degree than the recommended 4 years meant that it was less of a degree. When I decided to lighten my study load, I had way more time to focus on my own wellbeing and happiness and ultimately my university experience improved because of that. I wish I had that mind-set from the start of my degree so that I could've enjoyed my first few years of university a bit more. ***Everyone lives their lives at their own pace and it's no fun comparing your progress to everyone else's.*** There's no extra gold star for finishing your degree faster than everyone else so just take your time and enjoy the experience.

### Any final words of advice?

It's okay to take your time, make a few mistakes and change your mind. Whatever you end up studying or doing, it's never too late to change or switch things up. I know plenty of people who started in a completely different degree or field, realising it was not for them, and then finding a better path. You are in control of your life and you have the power to make that change.



“ Everyone lives their lives at their own pace



I WAS TAUGHT THAT THE WAY OF PROGRESS WAS NEITHER SWIFT NOR EASY

- MARIE CURIE

# STUDENT TESTIMONIAL

## Stephen Bajan

Bachelor of Electrical and Computer Systems Engineering and Bachelor of Commerce

### Tell us a little bit about yourself:

Firstly, to give you some context; I'm Stephen and I graduated from Monash last year with a Bachelor of Electrical & Computer Systems Engineering and Bachelor of Commerce.

During my time at Uni, I worked hard and I played hard to make the most of it. I signed up for events, I went to the parties, I volunteered, I mentored, I joined clubs, I joined teams. I met amazing people and I had an amazing time.

It definitely hasn't been easy getting to this point, but there are 4 key things I've learnt that I believe will give you the best chance at getting the most out of Uni and landing a job you'll actually want to get up for in the morning!

### What are your top tips as to making the most of your time at university?

**Well, you're already winning.** You've picked up this guide and that means you are at least a little bit involved with MESS. Good move.

#### 1. Get Involved

The best way to get through an engineering degree is with a little help from your friends. A lot of engineering is collaborative, and more and more of our degree is attempting to cater to this. Become open to meeting, befriending, and working with the people in your degree. It will make the whole process easier, more enjoyable and you'll get better grades as a result.

For me, the best way to meet people was to join student clubs. Not only did I get access to amazing resources (like this careers guide!) but I was also able to meet awesome like-minded students who are now close friends and form the basis of my professional network. Whether it is MESS, one of the many other Engineering clubs or Non-Engineering clubs, getting involved will make your University experience so much richer, help build connections and help you look forward to come to Uni.

Of course, it would be naïve of me to not mention the elephant in the room, online learning. Yes, at times you may not be able to meet new people in lecture theaters, engineering libraries or MESS BBQ's but don't give up. I've personally found that online resources such as the FaME Mentorship Program, Engineering discord servers, and MESS online social events are great starting points to make new friends and form these important networks.

#### 2. Apply for Internships



***There is nothing more attractive to an employer than previous experience.***

Vacation work is by far the biggest learning experience you will have during your degree. I was fortunate enough to complete two, three month summer internships during my time at Uni. I easily learnt more in those twelve short weeks than I did in my first four semesters of Uni. These internships were not typical Electrical Engineering roles; however, they helped me discover new potential career pathways. ***I was able to alter my career aspirations based on what I had experienced in the 'real world'.***

Even if it is not in the exact field you want to get into, apply for all opportunities. Learning how to conduct yourself in an interview and later in a workplace is a crucial skill to have. And speaking of interviews, being able to talk about some 'real world' internship experience when you eventually go for that dream job is invaluable. It's usually the thing employers want to hear most about, regardless if your prior experience relates to the job you're going for!

#### 3. Discover what you want

In my experience, the stuff you learn during your first couple of years only shows half the possible doors to careers available to you. There is an ever-growing amount of career pathways available to an Engineering student, and some of these will only be discovered by taking the leap to learn more.

Selecting electives which you are genuinely interested in is one great way to do this. When you are interested in the elective, not only you will learn much more efficiently, but you may open the door to a whole new field within your engineering stream that you didn't know existed. For me, this lesson was learnt when I enrolled in an Artificial Intelligence (AI) unit and realised that there were career pathways where I could put down the soldering iron and focus more on enhancing the world with AI.

Joining student teams is another great way of discovering more about an area of Engineering you're interested in while developing hands-on skills and solving real world problems. When I first began at Uni, Monash Motorsport was the only student team on campus. Now, there are over a dozen student teams available to develop your professional skills and go deeper into topics you're passionate about. Joining Monash DeepNeuron was the best way to delve into the world of AI and helped me discover more about the multiple new career paths that were not discussed during my University classes.

#### 4. Forge your own path

By now, you may have realised that everyone's time at University is different and **there's no one best pathway to success.** Making friends, joining clubs and teams, and discovering what you want during your degree are all valuable steps to surviving Uni and finding your dream job. But, the most important advice I can give you is to forge your own path.

The three biggest moments of my time at University were the day I decided to study Civil Engineering, two weeks later when I decided to change to Electrical Engineering and three years later when I realised that whilst I preferred building lamps over bridges, my true passion was in AI. Through choosing AI electives, interning at companies outside of my degree and joining student teams, I was able to forge my University path to centre around an area of study I didn't know existed when I first began. I'm telling you this because I think there is a huge amount of pressure to choose the right degree, the right path, the first time. But what I've experienced is that no one really knows their right path until they put themselves out there and gain experience in a variety of fields.

So whether it be underloading, changing your stream, or delving into a niche field of study you're passionate about, don't feel like you need to stick to the 'traditional University route'.

#### Final Words

Basically, the moral of the story is to make the most of your University experience. Surround yourself with like-minded people, get involved in all that Uni life has to offer and make sure you love what you're doing. You're never going to know what you want to do until you try it!



“ There is nothing more attractive to an employer than previous experience. ”

# ENGINEERING AT MONASH

## Discipline Descriptions

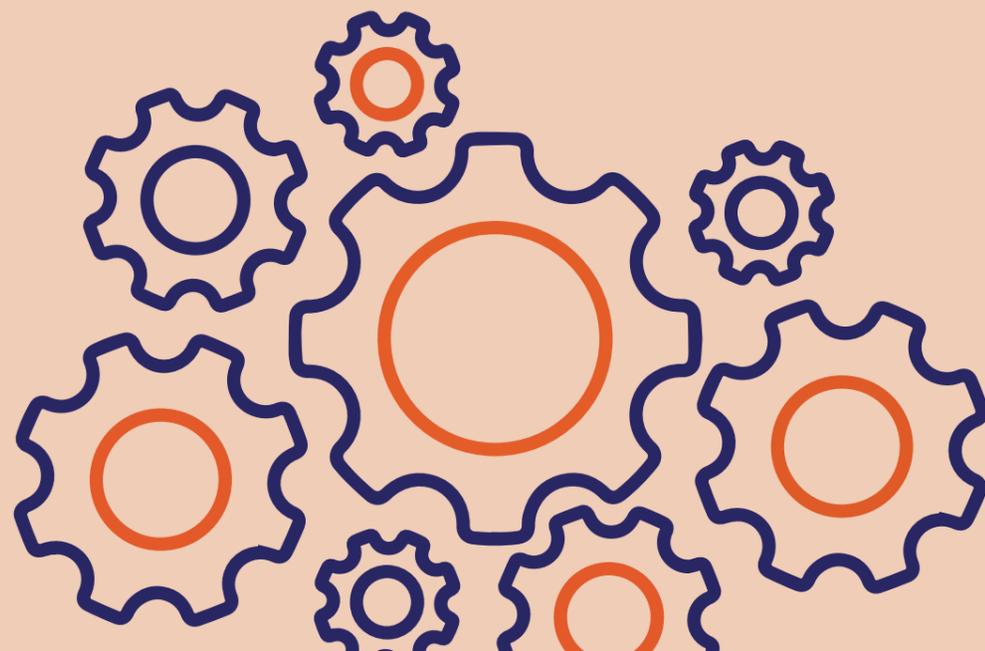
14	Aerospace
15	Biomedical Engineering
16	Chemical Engineering
17	Civil Engineering
18	Electrical and computer systems engineering
19	Environmental Engineering
20	Materials Engineering
21	Mechanical Engineering
22	Robotics and Mechatronics Engineering
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30	Master of Engineering



## SPECIALISED ENGINEERING COURSES

- Monash University is the **#1 School** for Engineering in Australia and within top **100** worldwide
- **81.4%** of graduates secure full-time employment within **4 months** of graduating
- **All degrees** are accredited by Engineers Australia
- Jobs in Engineering are expected to grow within the next **5 years**
- All degrees are **4 years full-time** or 8 years part time. You can choose to start in February or July and kick start with common first year.
- For more information check out the [Monash specialisation](#) web pages and [course maps](#)

\*\* Resources Engineering in Mining or Renewable Energy is no longer offered as a major. Check out the minors section to expand your career opportunities within this area. If you are interested in energy production and the mining industry it is recommended to major in Environmental, Chemical, Civil or Electrical and Computer Systems.

# AEROSPACE

“A thrilling profession in the midst of developing the next generation of flight vehicles”

Bachelor of Aerospace Engineering (Honours)

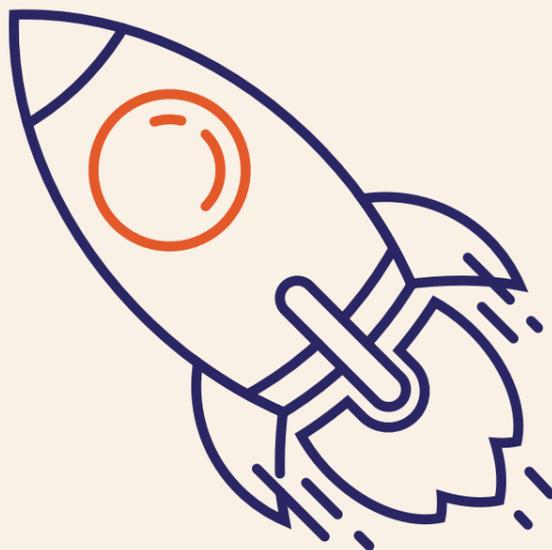
Clayton Campus

Double Degrees: Arts, Commerce, Law (Honours), Science

## What do Aerospace Engineers do?

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, and materials and structural testing.



## Your future 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. You could also have a career in management, consulting or finance. Join a thrilling profession in the midst of developing the next generation of flight vehicles. The Airbus A350, A400M and the Boeing 787 Dreamliner 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
- Manufacturing
- Research and development
- Defence industries
- Renewable energy
- Transportation aerodynamics
- Building and structure design and testing.

# BIOMEDICAL ENGINEERING

NEW

“Bridge the gap between medicine and technology to transform the future of healthcare and save people's lives”

Bachelor of Biomedical Engineering (Honours)

Clayton Campus

Only offered as a single degree

## What do biomedical engineers do?

Imagine, design and build new technologies that transform the future of healthcare and change millions of lives for the better by studying biomedical engineering. You'll bridge the gap between medicine and technology to create new types of diagnostics, monitoring tools and therapies, and build game-changing medical instruments and devices.

Save people's lives by building a new diagnostic tool that identifies deadly diseases much faster and more accurately than before. Restore function to the body with new biomaterials that can repair and regenerate cells in ways that were previously unthinkable. Apply AI principles to advanced monitoring tools that pick up potential problems quicker than a human ever could. Or, build your own global start-up in the growing med-tech field. Whatever you do, you'll make a powerful impact on patients' treatment, recovery and quality-of-life as a biomedical engineer.



## Your future career options:

Biomedical engineers apply engineering design skills to medical and biological sciences for the purpose of improving people's health. 3D-printed body parts, cardiac pacemakers, 4D ultrasounds, x-ray machines, brain-machine interfaces and robotic prosthetics - these are just some of the critical technologies used around the world to save lives and promote better health outcomes, and were all designed by biomedical engineers.

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 and opening in 2022, will offer exciting opportunities to pursue biomedical engineering research.

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
- Biomedical instrumentation industries
- Research and development
- Med-tech entrepreneurship
- Engineering consultancy

# CHEMICAL ENGINEERING

“As populations grow and resources and energy reserves decline, the demand for chemical engineers is increasing”

Bachelor of Chemical Engineering (Honours)

Clayton and Malaysia Campus

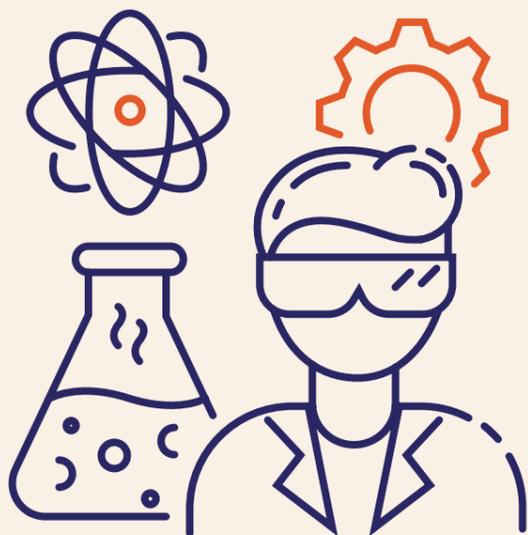
Double Degrees:  
Arts, Biomedical Science,  
Commerce, Law (Honours),  
Pharmaceutical Science, Science

## What do chemical engineers do?

Chemical engineering blends chemistry with engineering and other fields including biological science, environmental science, nanotechnology, pharmaceutical science, mathematical modelling, 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 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.

**Chemical Engineering at Monash is accredited by the Institution of Chemical Engineers**



## Your future career options:

When you graduate as a chemical engineer, you could play a leading role in solving the challenge of providing society with food, energy and water. Exciting career opportunities are also available for highly trained chemical engineers in emerging industries of nanotechnology and biotechnology.

### 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
- plan and test methods of manufacturing
- improve energy efficiency or reduce water and resource consumption at manufacturing sites
- Develop sustainable methods for the treatment 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
- Design, develop and use advanced and renewable materials.

You could also have a career in law, mining, business or government.

# CIVIL ENGINEERING

“The design, construction, maintenance and operation of infrastructure for the benefit of society”

Bachelor of Civil Engineering (Honours)

Clayton and Malaysia Campus

Double Degrees:  
Architectural Design, Arts,  
Biomedical Science, Commerce,  
Law (Honours), Science

## What do Civil Engineers do?

Civil engineers design and improve 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 and build higher-capacity transportation systems. We need them to construct larger commercial and industrial complexes. We need them for water supply and pollution control.

We need efficient, cost-effective and innovative repair or replacement of civil infrastructure such as roads, bridges and buildings. At Monash we help you prepare for your civil engineering career early, with a focus on the fundamentals and a taste of industry experience through opportunities in the major fields.

## Specialisations within Civil Engineering

**Structures:** structural engineers design buildings, bridges, airports, railways, towers, off-shore platforms and tunnels, and ensure that the structures are structurally sound under extreme environmental conditions such as wind, waves and earthquakes.

**Transport:** transport and traffic engineers plan the future travel needs of city and country areas, investigate alternative transport technologies and maximise the safety and efficiency of existing systems.

**Water:** water engineers manage water supply systems for people, 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 control and use stormwater. They also develop urban water-sensitive designs.

**Geotechnics:** geotechnical engineers advise on foundation design, support structures, stability of slopes, tunnel design and construction, and the suitability of materials for infrastructure projects

## Your future career options:

Civil engineer graduates work in a myriad of areas, including designing, building and managing just about everything from a major freeway or railway, to a water storage reservoir, oil rig platform, harbour facility, or environmentally friendly structure. As a Civil engineer you could:

- Investigate, design and manage the construction of multi-storey buildings.
- Design a water supply system for a new city.
- Provide smart mobility solutions underpinned by technological advances to traffic congestion problems.
- Manage the maintenance of the large bridges that link most cities' major arterials.
- Develop new ways of tackling climate change through geological sequestration of carbon dioxide.
- Prevent contamination of soil and ground water from industrial activities.
- Develop 'green buildings' that produce more electricity than they consume.
- Design systems to control erosion in rivers and protect people from the devastation of floods.
- Design a road, freeway or tunnel and manage its construction.
- Develop ways of treating and reusing stormwater and waste water to preserve precious resources.
- Develop mathematical or physical models of systems, such as soils, water currents or traffic flows, to study behaviour and develop better management approaches for systems.

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

- Government infrastructure projects
- Private industry
- Construction and mining
- Roads and traffic industries
- Work with consortiums to design eco-tourism resorts.
- Work in mining extraction and processing of ores from the earth.

# ELECTRICAL AND COMPUTER SYSTEMS ENGINEERING

“Investigate, design, develop, test, market and manage a wide range of products and systems”  
the demand for chemical engineers is increasing”

Bachelor of Electrical and Computer Systems Engineering (Honours)

Clayton and Malaysia Campus

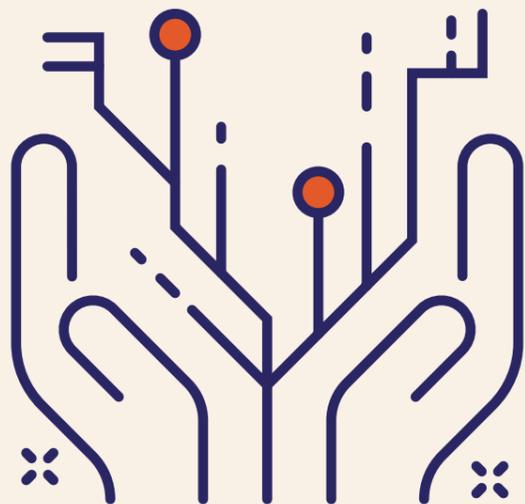
Double Degrees:  
Arts, Biomedical Science, Commerce, Computer Science, Information Technology, Law (Honours), Science

## What do electrical and computer systems engineers do?

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.



## Your future 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. 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

When you graduate you could work for large public and private telecommunications, manufacturing and electrical-power companies, or in 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

# ENVIRONMENTAL ENGINEERING

“Reduce the impact of human activity and protect our natural world”

Bachelor of Environmental Engineering (Honours)

Clayton Campus

Double Degrees:  
Arts, Commerce, Science

## What do environmental engineers do?

By minimising environmental problems through sustainable development, environmental engineers make a genuine difference to our world. They help restore the environment by improving the knowledge on air, water and land quality.

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. 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.

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.

Working closely with a range of professionals and the community, environmental engineers:

- Develop sustainable building and transport system in harmony with the environment
- Design and implement sustainable manufacturing technologies to minimise industrial pollution
- Remediate or rehabilitate contaminated sites

- Reduce catchment soil erosion and salinity
- Evaluate, monitor, regulate and minimise the environmental risks and impacts of engineering projects
- Develop environmental management systems
- Ensure the provision and distribution of clean water supplies

## Your future career options:

Environmental problems exist in all countries and industries so opportunities are broad and far reaching for environmental engineers. Areas of work might include:

- Air pollution control
- Water supply and management
- Impact assessment
- Hazardous waste management
- Energy production
- Stormwater and wastewater management
- Environmental management systems

Organisations employing environmental engineers include:

- Power generation companies
- 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
- International agencies that aid developing nations

# MATERIALS ENGINEERING

“A ground-breaking field of research and a thriving job market for aspiring engineers”

Bachelor of Materials Engineering (Honours)

Clayton Campus

Double Degrees:  
Arts, Biomedical Science,  
Commerce, Law (Honours),  
Science

## What do materials engineers do?

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.

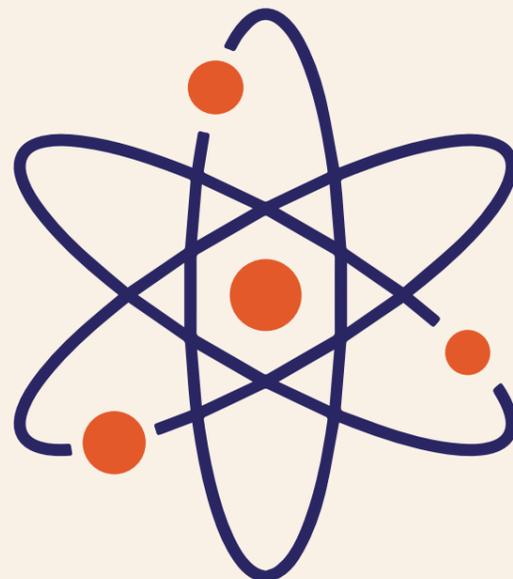
Materials engineers work with everything from the thermal protection of space shuttles to high-tech artificial hip and cochlear implants, and nanoparticles that seek and destroy cancer. Materials engineering is truly interdisciplinary. It involves physics, mathematics, biology and chemistry, culminating 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 and mining

## Your future 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
- Failure analysts
- Materials selection specialists (aero, auto, structural)
- Process engineers
- Corrosion or durability engineers
- Research engineers.



# MECHANICAL ENGINEERING

“Design and develop everything from door locks to space shuttles”

Bachelor of Mechanical Engineering (Honours)

Clayton and Malaysia Campus

Double degrees:  
Arts, Biomedical Science,  
Commerce, Design, Law  
(Honours), Science

## What do mechanical engineers do?

Mechanical engineering is about the efficient use of energy in the design and function of all types of mechanisms, from the simplest to the most complex. It builds on physics, chemistry, materials, mathematics and biology to achieve this goal. Growth industries include advanced manufacturing, smart buildings, renewable energy, medical engineering and consulting practice.

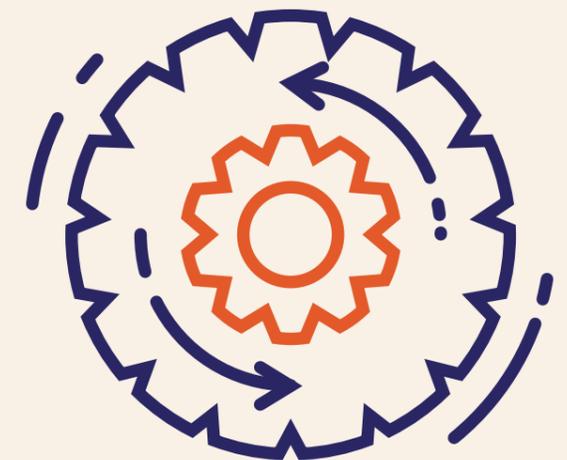
Mechanical engineers are increasingly engaged in the design and operation of devices that require skills that cross traditional discipline boundaries. As a mechanical engineer, you could design automatic control systems, or create efficiently heated and cooled buildings. You could manage the water supply for a whole state, take charge of the operation of a smart building, design wind turbines or highly efficient, low-cost products for the developing world.

Optimise the aerodynamics of trucks and trains, work with the medical profession to create robots that can operate with greater precision than a human, or be at the cutting edge of advanced manufacturing using 3D printers to create aircraft parts with elegance and function.

## Your future 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
- Product process and design
- Consulting and project management
- Research and development
- Aerospace field and test engineering
- Mechanical design automation
- Robotics prosthetic limb and joint design
- Renewable energy systems.



# ROBOTICS AND MECHATRONICS ENGINEERING

“The cutting-edge of creating smarter products, robotic devices and processes”

Bachelor of Robotics and Mechatronics Engineering

Clayton and Malaysia Campus

Double degrees: Arts, Commerce, Science

## What do robotics and mechatronics engineers do?

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

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

You'll learn how to handle vast amounts of data and creating systems that make sense of 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 as the need for professionals in this space is increasing. They're needed in the advanced manufacturing and aerospace industries as well as by the manufacturers of robots and in data analysis.

## Specialisations within Robotics and Mechatronics Engineering

**Artificial Intelligence:** covers neural networks and deep learning, advanced engineering design, computer vision systems, and intelligent robotics

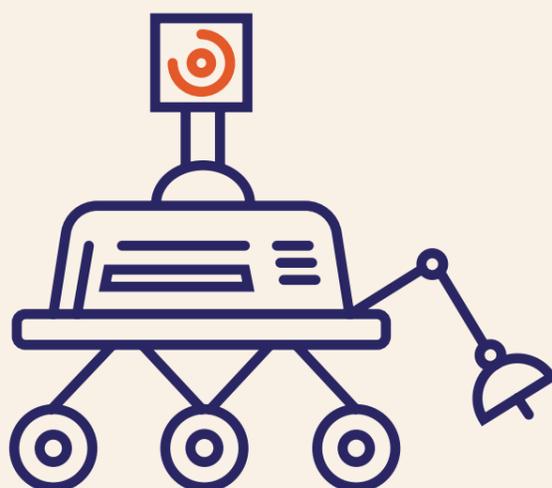
**Automation:** allows you to develop an understanding of manufacturing operations, power systems, and changing technologies

## Your future 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. Opportunities exist in:

- Robotics and automation
- Aerospace systems and flight control
- Artificial intelligence
- Bioengineering
- Intelligent systems for motor vehicles
- Manufacturing systems and processes
- Telecommunications
- Medical systems
- Software engineering
- Mining systems and processes
- Nanotechnology.

There are also opportunities for robotics and mechatronics engineers in consulting, management and finance. You may also pursue a career in research and development, in academia, research institutions or advanced industry sectors.



# SOFTWARE ENGINEERING

“Develop, analyse and improve software to ensure it runs effectively, safely and securely”

Bachelor of Software Engineering (Honours)

Clayton and Malaysia Campus

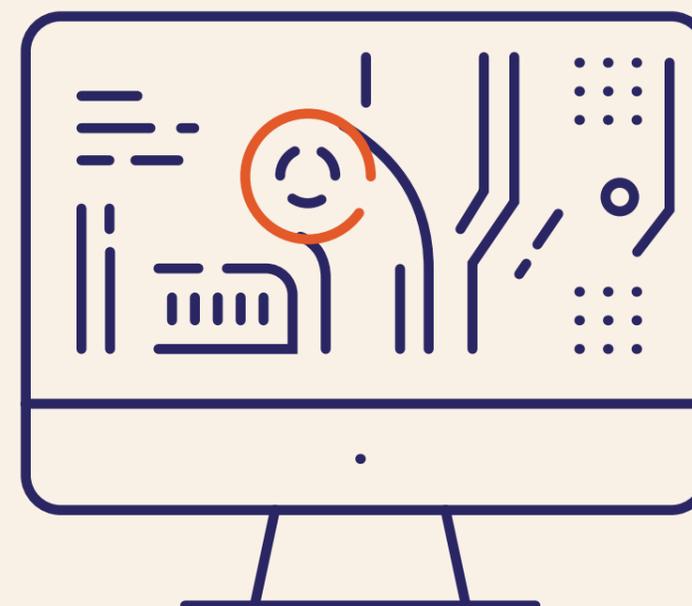
Double degrees: Arts, Commerce, Computer Science, Information Technology, Science

## What do software engineers do?

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 software products, 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.

**Software Engineering is accredited by the Australian Computer Society**



## Your future 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.

## ENGINEERING MINORS

Complement your engineering specialisation with a minor and tailor your studies to explore your interests and expand your career opportunities.

If you are completing a single degree course, you can use electives to complete one of the engineering minors from a different engineering discipline and/or approved minors from Arts, Business and Economics, IT or Science.

An engineering minor will diversify your skill set and add versatility. Gain knowledge in another field outside of your chosen specialisation and understand other engineering disciplines to incorporate technical skills to deliver better solutions. You'll have a more holistic approach to project engineering and be well-positioned to communicate across specialisation areas. Skills highly valued and sought after by industry.

A minor has four units studied over at least two years and is listed on your transcript. Minors from another faculty are undertaken in year 1 and 2, and engineering minors are completed in year 3 or 4 of your studies.

### Minors Availability

	Specialisation						
	Aerospace	Chemical	Civil	Electrical and Computer Systems	Environmental	Mechanical	Robotics & Mechatronics
Artificial Intelligence	Y	Y	Y	Y	Y	Y	Y*
Civil	-	-	-	-	Y	-	-
Environmental	-	-	Y	-	-	-	-
Computational	Y	Y	Y	Y	Y	Y	Y
Micro and nano technologies	Y	Y	Y	Y	Y	Y	Y
Mining	Y	Y	Y	Y	Y	Y	Y
Renewable energy	Y	Y	Y	Y	Y	Y	Y
Smart Manufacturing	Y	Y	Y	Y	Y	Y	Y**
Sustainable	Y	Y	Y	Y	-	Y	Y

\* = Only available for Automation Stream

\*\* = Only for Artificial Intelligence Stream

Engineering Minors are not available in Biomedical and Software Engineering Specialisations. Some minors require prerequisites.

## MINORS & POST GRADUATE OPPORTUNITIES

# ENGINEERING MINORS

## Artificial intelligence in engineering

Artificial intelligence (AI) is used by engineers to develop driverless vehicles, meaningful human machine interaction and image recognition. This minor allows engineers to develop new designs involving robotics, deep learning, computer vision and autonomous vehicles. Understand how to construct computer vision systems for surveillance, robotics and medical imaging. Learn how deep learning can solve problems in classification and natural language processing and take a closer look at personal cognitive assistants and driverless car designs. AI, machine learning and robotics are fast-growing industries with technology constantly evolving and pushing boundaries and engineers with these skills are in high demand.

## Civil Engineering

Civil engineers design and improve 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 and build higher-capacity transportation systems; to construct larger commercial and industrial complexes; for water supply and pollution control; and to repair or replace roads, bridges and other structures. The core areas of civil engineering are structural, transport, water and geomechanics.

## Computational Engineering

Computational engineering is a new and rapidly growing multidisciplinary field that simulates the physical world using computers to solve engineering design problems. The use of computational tools is at the heart of almost all modern engineering practice. Engineers rely on computational simulation techniques to develop new technologies and shape the world we live in. Biomedical devices, submarines and wind turbines are just a few examples where computer models are used to predict how new designs will behave in reality.

Computational models are powerful, but their proper use requires an understanding of their fundamentals and their limitations. This minor will provide training in both fundamental and applied computational analysis, including optimisation, numerical methods, data visualisation, and the modelling of thermofluid and solid systems.

## Environmental Engineering

Environmental engineering involves the implementation and management of solutions that are in harmony with the principles of sustainable development. It's concerned with reducing energy and minimising waste, while providing the community with the development opportunities it needs to grow. Environmental engineers make a genuine difference to our world. By improving the knowledge on air, water and land quality, they help restore the environment and protect our natural world.

## Micro and Nano Technologies

Micro and nano technologies form the basis of any modern miniaturised system including electronic devices containing computer chips, sensors and actuators in smartphones and vehicles and diagnostic systems, biomedical devices and devices for environmental monitoring. This minor equips engineers with the knowledge of the properties and applications of nanomaterials and the fabrication techniques required to engineer these materials. Learn about lithography, biomimicry and bionanotechnology-inspired nanostructures using biological building blocks in self-assembling processes.

Explore how the design properties of nanostructured materials may be exploited for every day applications, ranging from food packaging and sunscreens to sensors and energy-related areas. Get hands-on experience of working in a state-of-the-art cleanroom environment at the Melbourne Centre for Nanofabrication, where you can design and fabricate your own microdevice.

## Mining Engineering

Mining engineering involves environmentally safe extraction and processing of natural minerals from the earth. Mining engineers supply critical materials like copper, iron, lithium and gold, that are essential for modern society and the world's economy. They develop innovative and sustainable ways to make mining cleaner and safer, and help to sustain the future supply of the world's natural resources. Mining engineers work in all aspects of the resources industry from exploration and planning, to extraction, processing and rehabilitation. Automation and digital technologies are modernising the mining industry and transforming mining careers.

## Renewable energy engineering

Renewable energy engineering focuses on the fundamental conversion of solar radiation, wind, hydro, and bioenergy resources into electricity by designing, building and operating energy plants such as wind farms, solar farms and hydro power facilities. These engineers run the large-scale energy system incorporating renewables, and they provide expert advice in the development of energy policy to facilitate the transformation of the energy system, both domestically and internationally.

## Smart manufacturing

Smart manufacturing is the core of Industry 4.0. which includes cyber-physical systems, internet of things, and augmented reality. This minor equips engineers with the knowledge of modern systems of telecommunication, mechatronics, cyber-physics, and manufacturing for the new era of industry.

Have the skills and knowledge to prepare for the impending digital transformation driving the convergence of technologies that result in Cyber-Physical Systems (CPS). Understand the evolution of key technologies, transformation to digital chains and the need to seamlessly combine organisational and technological issues into a single framework.

Be introduced to underlying technologies, major components and system-wide architectures of modern telecommunication systems, such as the Internet, mobile telephony, digital TV and Digital Audio Broadcasting. Learn about design methods and tools for ideation and methodologies and undertake a team automation project to design and build a mechatronic system, based on a microcontroller with appropriate mechanical structure, sensors and actuators.

## Sustainable engineering

The Sustainable engineering minor equips engineers with the knowledge and skills to understand the interplay between the environment and human activities. The goal is to provide solutions to the pressing environmental challenges in a sustainable manner. It takes a multidisciplinary approach based on industrial, materials, water and systems-based engineering management perspectives.

A growing multidisciplinary field of engineering, you'll be introduced to life-cycle analysis, sustainability in the built environments include passive and active technologies, and the political, social and environmental background to materials usage. Examine the impact of population, affluence and technology changes on population and ecological footprints. Understand cleaner production technologies, sustainable resource processing and environmental technologies to create engineering solutions for a sustainable future

## Minors from other faculties

From astrophysics and accounting, to bioethics, cybersecurity or language studies there are a range of minors to choose from to explore an area of study that really excites or inspires you. Complement your engineering degree with a minor from Arts, Humanities and Social Sciences, Business, Information Technology or Science fields and broaden your career options

Click below for list of approved Minors



## POST GRADUATE OPPORTUNITIES

Graduate study can be the foundation to a great career, it can turn an existing career into something brilliant, help you change careers, or aid in pursuing your passion.

Engineering coursework programs offer a balance of theory and practice, with an emphasis on industry-driven projects. Engineering programs, particularly at a Masters level, may include the option of a minor or major thesis component. Check out the [course map](#).

### MASTERS

#### Master of Professional Engineering

Clayton Campus  
2 years full-time  
International Accreditation  
(Engineers Australia)

The Master of Professional Engineering provides a solid foundation for professional development and gives you an edge in the competitive graduate employment market. Build on your undergrad degree, change career direction and become an accredited engineer

In this master's degree you can build on your undergraduate experience, diversify your skills in a different specialisation or change your career and become a fully-accredited engineer. Whether you've completed undergraduate studies in engineering or in another field, the Master of Professional Engineering is the key to a career as an internationally recognised professional engineer.

The two year program provides students who already have an engineering degree the opportunity to gain entry to the profession. You will build on your undergraduate experience and deepen your specialisation knowledge through core units and advanced level technical units in your discipline area. If you want to change fields and specialise in another engineering discipline or have a degree in a different field, such as science, mathematics or pharmacy and want to pursue a career in engineering, the three-year conversion course gives you the technical skills and knowledge you need to become a practising engineer.

Find out more via the link below



### SPECIALISATIONS

#### Chemical

Tackle our most pressing energy, environmental and healthcare challenges by exploring industrial-scale processes that convert raw materials into commercial products. Enhance your leadership capacity with advanced knowledge of thermodynamics, reaction engineering, fluid dynamics, separation processes, and much more, in units taught by industry experts. Extend your technical expertise by choosing a stream in food engineering or engineering design.

Chemical engineers are highly sought after by almost every industry worldwide, especially in emerging areas like nanotechnology, alternative energy and biotechnology. Develop cleaner biofuels to protect our environment. Improve water purification methods to counter dwindling supplies. Save lives through tissue engineering. Perform safety assessments of process plants. Advance hydrogen storage for automobiles. Make smart drug delivery even smarter. In any pursuit, you might manage a company or start up your own.

#### Civil

As the world's population explodes, we must adapt our built environment to modern life. Prepare for a top-level job in infrastructure – grow your expertise in the design of steel and timber structures, geomechanics, building technologies, bridge design, computational methods, and much more, in units taught by industry experts. Acquire the technical knowledge essential to design, construct, improve and lead infrastructure projects. Focus on a particular area by selecting a stream in structure, transport or water.

Civil engineers enjoy great employability. Build sustainable prefabricated housing. Design earthquake-resistant schools.

Create systems to protect against foods. Construct highspeed railways. Devise conditions for improved traffic flow. Develop large-scale recycling schemes. Whether in private consulting practice or a construction company, a multinational company or government department, here or overseas, you can blaze the trail.

#### Electrical

In this diverse and rapidly changing technological field, you can innovate to improve our quality of life. Move to the forefront by expanding your understanding of signal processing, electronic design, electromagnetism and antennas, real-time system design, multimedia communications, smart grids, and much more, in units taught by industry experts. Put theory into hands-on practice in laboratory sessions and team-based design projects.

The demand for electrical engineers exceeds supply, affording you countless career opportunities. Develop smart power systems to keep our lights on. Help farmers optimise water use with automatic irrigation networks. Design the power electronics of electric vehicles or self-driving cars. Create advanced robotic systems that act as a surgeon's right hand. Perfect bionic eyes and ears to restore precious senses that most of us take for granted. Inspire others to change our lives for the better.

#### Materials

Make things stronger, lighter, cheaper, more functional and more sustainable. By improving existing materials, or creating entirely new ones, you lay the groundwork for broader applications and novel technologies. Advance your career by delving into polymeric materials, energy technologies, environmental durability, materials characterisation, biomaterials and biomechanics, additive manufacturing, sustainability, and much more, in units taught by industry experts.

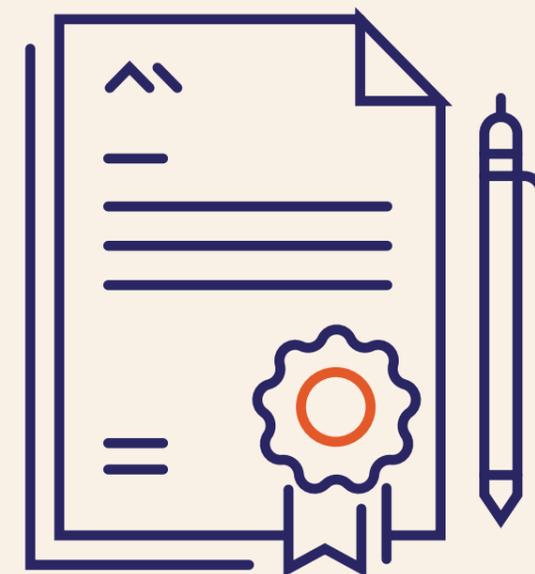
Materials engineers find themselves in a thriving job market. Progress tissue engineering in the repair of damaged organs. Design smart fabrics that act as a sensor to control automobile function. Apply 3D bio printing to the generation of living tissue

for personalised treatments. Develop next generation aerospace materials. Create nanoparticles that seek and destroy cancer. In this multidisciplinary field, you have unlimited options, with the potential to forget the future.

#### Mechanical

Mechanical engineers make the world go round – they turn energy into motion and power in virtually every machine or system that supports our way of life. Advance your knowledge of mechanical systems design, biomedical imaging and sensing, additive manufacturing, instrumentation sensing and monitoring, systems performance analysis, sustainability engineering, entrepreneurship, and much more, in units taught by industry experts. Gain a strong understanding of thermal and mechanical components and processes to move technology forward.

Career prospects for mechanical engineers are diverse and boundless. Design structures for space travel. Work with athletes to develop advanced sporting equipment. Refine service robotics for railways. Create prosthetic limbs. Assess the survivability of naval vessels with mechanical vibration. Reimagine sustainable energy. Wherever in the world you wish to work, you can make things happen.



# POST GRADUATE OPPORTUNITIES

## MASTERS

### Master of Engineering

Clayton Campus  
1 year full-time  
International Accreditation  
(Engineers Australia)

Our new Master of Engineering is available for commencement from semester two, 2021. This course will extend your technical knowledge in your chosen specialisation area and advance your leadership and complex problem-solving skills. There are five engineering specialisations to choose from: biological, civil, electrical, materials and mechanical. Giving you the opportunity to explore your specialisation at an advanced level and pursue your career goals.

Designed to foster innovative thinking, entrepreneurship and professional development, you will be well-positioned to lead and deliver sustainable engineering solutions.

The Master of Engineering provides valuable opportunities to apply your skills through real-world projects, student teams and internships to give you the professional and industry experience that sets you apart. Open up new possibilities for your career and apply for a Work Integrated Learning program placement with our partner organisations for hands-on experience while you study.

#### Career options:

- Specialist engineer or consultant within your chosen professional field
- Engineering management role in private or public sector entrepreneur or
- CEO of your own company

### International Double Master Programs with Southeast University (SEU) China

The Monash-Suzhou partnership combines academic and research excellence focussed on making positive changes worldwide. There are three engineering Double Master Programs available that take 1.5 to 2.5 years of full-time study to complete (depending on the units chosen). Studies are undertaken at the SEU-Monash campus in Suzhou, China, and students also have the opportunity to undertake one semester of study at Monash University's Clayton campus in Melbourne, Australia).

- [Master of Civil Engineering](#)
- [Master of Transportation Systems](#)
- [Master of Industrial Chemical Engineering](#)

## GRADUATE RESEARCH (PhD)

Monash Engineering's graduate research degrees give you an opportunity to conduct research that is transforming the future. Take this opportunity to make an impact and solve real world issues in a stimulating, supportive environment in areas such as climate change, transport congestion, water supply security, sustainable energy, artificial intelligence, robotics and more.

We are committed to training the next generation of research leaders and have over 1,000 graduate research students engaged in our areas of expertise.

PhD and Masters by Research scholarship opportunities are currently available with leading engineering researchers who are involved in pioneering research across 32 different research themes.

## Graduate Research (PhD) Links

### Chemical Engineering

- [Biotechnology](#)
- [Food](#)
- [Modelling](#)
- [Nanomaterials](#)
- [Fuels and Energy](#)
- [Membrane](#)

### Civil Engineering

- [Deep Earth Energy](#)
- [Engineering for Extremes](#)
- [Model-Data Fusion](#)
- [Sensing Technologies](#)
- [Smart Structures](#)
- [Sustainable Infrastructure](#)
- [Water Sensitive Urban Design](#)

### Electrical and Computer Systems Engineering

- [Wireless Telecommunications](#)
- [Optical Communications and Networking](#)
- [Internet of Things](#)
- [Smart Power Systems](#)
- [Robotics and Artificial Intelligence](#)
- [Biomedical Engineering](#)
- [Electromagnetics and Electronics](#)
- [Optimization, Information Processing, Control and Decision Systems](#)

### Materials and Materials Science Engineering

- [Additive Manufacturing](#)
- [Biomaterials](#)
- [Functional and Energy Materials](#)
- [Metals and Alloys](#)
- [Polymers](#)
- [Materials Theory, Modelling and Characterisation](#)

### Mechanical and Aerospace Engineering

- [Advanced Manufacturing](#)
- [Micro/Nano Engineering](#)
- [Robotics and Control](#)
- [Solid Mechanics](#)
- [Thermofluids](#)

### Interdisciplinary Research

- [Defence](#)
- [Robotics](#)



**WE BUILD TOO  
MANY WALLS AND  
NOT ENOUGH  
BRIDGES**

**- ISAAC NEWTON**

## COMPANY LISTINGS

34	AECOM
38	AMOG Consulting
39	Wood
40	Dalton Consulting Engineers
42	Defence Force Recruiting
44	Engineers Australia
46	Gamcorp
48	Honeywell
50	JVAT
52	NDY
54	Optiver
56	Traffix Group
58	Kearney
59	Telstra
60	Rockwell
62	IMC
64	Air Liquide



- AERO
- CHEM
- CIVIL
- ECSE
- ENV
- MAT
- MCHN
- MCHT
- RES



- AERO
- CHEM
- CIVIL
- ECSE
- ENV
- MAT
- MCHN
- MCHT
- RES



**Graduates – with their fresh thinking and passion for reimagining what’s possible – are critical to our success.**

We are a team of over 56,000 specialists working in 120 countries to deliver some of the world’s most influential and transformational infrastructure projects.

Together, across our regional communities and thriving metropolitan centres, we deliver a better world.

Whether we’re delivering city-shaping infrastructure or enabling clean and stable water supply to far-flung places many of us may never visit, our work makes a difference.

On every project and for every client, our talented teams pride themselves on big ideas, positive change, and on leaving lasting legacies that build communities.

We pride ourselves on our commitment to client service and excellence in project delivery.

<b>56,000+</b>	<b>TEAM MEMBERS WORLDWIDE</b>
<b>3,500</b>	<b>TEAM MEMBERS ACROSS AUSTRALIA</b>
<b>120</b>	<b>SERVING CLIENTS IN 170 COUNTRIES</b>
<b>18</b>	<b>AECOM OFFICES IN AUSTRALIA</b>

AERO

CHEM

CIVIL

ECSE

ENV

MAT

MCHN

MCHT

RES



# MAKE AMAZING HAPPEN

Whether we're delivering city-shaping infrastructure or ensuring clean and stable water supply, our work makes a difference – and graduates are critical to our success.

[aecom.com/australia-new-zealand-graduate-careers](https://aecom.com/australia-new-zealand-graduate-careers)

AERO

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RES



## WHAT ARE OUR GRADUATE OPPORTUNITIES?

We are seeking applicants from a wide range of disciplines, including civil, electrical, environmental, geotechnical, mechanical, structural, building services and chemical engineering, as well as design, planning, and program and cost management fields.

You'll have the chance to work alongside industry leaders on exciting projects that help shape and connect our cities and communities.

Our Growing Professional Skills (GPS) graduate program is designed to help you bridge the gap between formal education and the workplace.

The GPS program is spread across two years and comprises a range of core competencies and recommended training. As part of the program, we work with you to develop a plan, set your goals, and the actions required to achieve them.

## HOW WE SELECT

Your application for a graduate role will be assessed through a staged approach, including initial application review, online strengths based assessment, video interview and assessment centre/face to face interview.

## EQUAL OPPORTUNITIES

AECOM is an equal opportunity employer. Our Australian business is just one of 141 across Australia to be recognised by the Workplace Gender Equality Agency (WGEA) as an Employer of Choice for Gender Equality.

We have made a public commitment to close the gap between Aboriginal and Torres Strait Islander peoples and other Australians through our Reconciliation Action Plan.

## APPLY ONLINE

[aecom.com/australia-newzealand-graduate-careers/](https://aecom.com/australia-newzealand-graduate-careers/)  
Applications opening, 1st March 2021,  
closing 26th March 2021.

- AERO
- CHEM
- CIVIL
- ECSE
- MCHN
- MCHT
- RES



## Engineering Graduate & Vacation Student Recruitment



**Mechanical | Aerospace | Civil & Structural | Electrical | Chemical | Resources**  
 Specialist Engineering Design & Analysis Consultants since 1991

- Positions:**
- > Engineering graduate programs
  - > Mid year & summer vacation programs

- What we look for:**
- > Outstanding academic credentials
  - > Strong communication skills
  - > A desire to think laterally



**Location:** Notting Hill, Melbourne

- Graduate program:**
- > Rotation through all 3 areas of our business: Safety and Risk, Structural, and Marine Engineering
  - > Secondment to one of our regional offices
  - > Possibility of local, interstate and international short-term roles
  - > Exposure to R&D projects
  - > Weekly 'lunch 'n' learn' sessions
  - > Structured approach to development of professional engineering skills including:
    - Mentoring by senior staff
    - Progression towards CPEng status
  - > Active social committee and regular social events
  - > Real opportunities to work on actual projects

**Applications open in March and close:**

- **11th June 2021 for 2022 Graduate Positions**
- **30th April 2021 for mid-year vacation work**
- **3rd September 2021 for summer vacation work (unless filled earlier)**

If you think you have what it takes to help us realise our vision to be the leading specialist engineering service provider in our fields, you can apply at [www.amog.consulting](http://www.amog.consulting) or email your Cover Letter, CV and Academic Transcript (as a single PDF document) to [careers@amog.consulting](mailto:careers@amog.consulting)

AMOG is an equal opportunity employer.

[www.amog.consulting](http://www.amog.consulting)

- CHEM
- CIVIL
- ECSE
- MAT
- MCHN
- MCHT
- RES



# Our people make it possible.

At Wood, our people are what sets us apart, a global community of inquisitive minds. Each one committed to making a difference, to lifting each other up, to showing courage in the face of problems.

As part of Team Wood, you'll be challenged and inspired to power progress for our people, our business and our planet. Join us as we embark on a quest to unlock solutions to the world's most critical challenges.

[careers.woodplc.com](http://careers.woodplc.com)

**wood.**



As a leading civil engineering consultancy, DCE offers unparalleled opportunities for talented individuals in search of a rewarding career. At its heart, DCE is a people business. We work hard to provide an environment in which you can flourish and enjoy being a part of the Team DCE culture.

#### Careers at DCE

DCE is on an exciting growth path and recruiting and developing talented individuals to deliver what we're passionate about - innovative design and civil engineering solutions.

We pride ourselves on state of the art technology, the diversity and talent of our team and strong client relationships. Our great office locations and new office fitouts in Queensland and Victoria will provide you with the perfect environment to thrive as part of Team DCE.

#### Graduate Program

Our people are involved in some of the most exciting, high profile projects currently underway. These range from small scale, community-based schemes to flagship projects with a significant profile. As a graduate you will be involved in these projects from day one, working at the forefront of innovation to deliver the best possible solutions for our clients.

#### Vacation Program

DCE's three month program from December to February each year will ensure you are exposed to different facets of the business, allowing you a head start on your career pathway with potential employment opportunities at DCE upon graduation.

[dceng.com.au/careers](http://dceng.com.au/careers)



[w dceng.com.au](http://www.dceng.com.au)

[f facebook.com/DCEprofile](https://www.facebook.com/DCEprofile)

[@DCEng\\_](https://twitter.com/DCEng_)

[@DCEng\\_](https://www.instagram.com/DCEng_)

Delivering award  
winning designs &  
innovative solutions  
to complex projects



- AERO
- CHEM
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- ENV
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- MCHN
- MCHT
- RES
- SOFT

# ENGINEER A BETTER CAREER



As one of Australia's largest employers, the Defence Force provides outstanding career opportunities for Engineering undergraduates and graduates. Whether it's in the Navy, Army or Air Force, you'll work on some of the most challenging and significant engineering projects in the country, leading highly trained teams of people and utilising the most technically advanced equipment available.

The range of Engineering professions on offer includes Aeronautical, Armament, Avionics, Electrical, Electronics, Marine, Mechanical, Software and Weapons fields. You'll be working across elements such as maintenance, engineering and logistics management, design engineering and project management, supporting Defence capability and striving to achieve the next generation of advancements in technology.

Apart from gaining valuable technical, management and leadership skills, which you'll get the opportunity to apply in a variety of environments, you'll also gain a wide network of mentors and mates.

As a Defence sponsored student, you'll receive a competitive remuneration package including free health care, subsidised accommodation and job security. You'll also have your remaining HELP fees paid and receive a salary to study.

As an Engineer in the Navy, Army or Air Force you can expect an exciting and incredibly rewarding career. To find out more email [engineers@dfrc.com.au](mailto:engineers@dfrc.com.au)

CALL 13 19 01 OR VISIT [DEFENCEJOBS.GOV.AU](http://DEFENCEJOBS.GOV.AU)



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"I'm guaranteed to work on some of the most advanced technology."

RIAN, ENGINEERING STUDENT - JAMES COOK UNIVERSITY



The Defence University Sponsorship will allow you to focus on your chosen studies and make a difference with your degree. Sponsorship is available to students currently studying Engineering, Medicine, Dentistry, Nursing or an Allied Health degree at any recognised Australian university. Your remaining Higher Education Loan Program (HELP) fees will be paid and you will receive a salary to study. Other benefits include subsidised accommodation, free health care and a text book allowance. The sponsorship provides you not only with great financial benefits but a rewarding and exciting career upon graduation in the Navy, Army or Air Force.

To find out more visit [defencejobs.gov.au/unisponsorship](http://defencejobs.gov.au/unisponsorship) or call 13 19 01.



# Engineers Australia Free Student Membership



## Be part of something special

By joining Engineers Australia you'll be part of a passionate community of over 100,000 members all working together to engineer a better world. As the largest multidisciplinary professional association for engineering in Australia, Engineers Australia is the leading voice of the profession and your professional home for life.

**Raise your professional profile and get a head start in your career – become a free student member of Engineers Australia today!**



## Through joining Engineers Australia as a free student member you will:

### > Find your edge

We offer everything you need to become the best engineer you can be, keep up to date with what's happening in your field and start building your network. All you need to do is take a leap and invest in your career. It's worth it; trust us!

### > Build the skills employers need

Employers want more than just smart graduates; they want well rounded professionals. We know what employers want and work with you to develop these skills, so you can stand out and hit the ground running.

### > Get the job you want

Career fairs only give you access to a small number of jobs, but more than 80% of roles never get advertised. Take advantage of our members-only jobs board – it will open up a whole new world of opportunities for you.

### > Build your community

Building a professional network is critical. It might be a little about what you know, but it's definitely a lot about who you know. We connect you with other emerging engineers and senior leaders in your field.

### > Start your path to Chartered

Engineers Australia membership is your only way to become a globally recognised Chartered Engineer. We support your journey and show you the path to get there.

### > Be recognised

Prove your skills without having to say anything at all. An Engineers Australia post nominal is your resume in one word!

# Student Membership gives you

Put yourself at the heart of the largest knowledge sharing network for engineering and technology professionals in the country. Meet, learn and share with some of the most influential people in your field.

### > Access to our members-only jobs board

Your one stop for engineering internships, graduate and early career roles.

### > Connection to a network

100,000 engineers of all disciplines from all the major engineering employers in the country.

### > Monthly Digital create magazine

The award-winning monthly member magazine for engineering professionals, making sure you're kept up to date.

### > Networking and training events

Over 1,000 professional development activities and 25 national conferences across all areas of engineering each year.

### > Mentoring programs

Gain knowledge from senior engineers in your field.

### > Pathway to Chartered

Start your journey and build your competency to attain Chartered Status.

## You'll also receive

### > EA Library access to the best engineering resources in the world

Conference proceedings, research and technical papers, bibliographic database references and more.

### > Exclusive access to our YEA online community

The community for emerging engineers.

### > Post-nominals

(StudIEAust/StudTIEAust/StudAIEAust) means peers and employers instantly recognise your commitment to the profession and personal development.

### > Opportunities to join colleges, technical societies and special interest groups

Collaborate, network and share expertise with like-minded people and keep your skills up to date.

### > Discounts and rewards

Car hire, loans, insurance, training and more.



## Student Membership is Free!

Join today:

[yea.engineersaustralia.org.au/membership](http://yea.engineersaustralia.org.au/membership)



## STRUCTURAL COMPLIANCE CERTIFICATION

### Structural Consultants for the AUS/NZ Solar Industry

Helping the Solar Industry's leading Manufacturers & Installers achieve greatness in providing a highly tailored service which helps them get their projects from paper into a reality!

When accuracy, speed and cost are critical, we have the experience and systems to listen to your specific needs, analyse the critical issues and manage the workload to develop unique, cost effective solutions, delivered as you need them.

#### Servicing the Commercial Solar Industry:

Gamcorp provides detailed structural assessment and certification that is required for the installation of roof mounted array frames in Australia and New Zealand. The assessment calculates the structural capacity of the roof by ensuring there is adequate strength in roof area when additional wind loads and weights are imposed. Our assessment ensures that your clients and project certifiers know that the buildings are structurally safe and that you have taken measures to ensure an effective and capable design.

For more details,  
<https://www.gamcorp.com.au/solar-engineering>

#### Roof Mounted Solar Services:

- Roof Area Inspection
- Roof Sheet Pull Tests
- Structural Roof Assessment
- Pallet Load Assessment
- Site Specific Array Frame Certification
- Roof Optimisation Report (Building Owners)

#### 4 Steps to Compliance:

1. Request Structural Roof Assessment
2. Gamcorp completes structural assessment based on proposed PV layout and structural details provided.
3. Gamcorp notifies client if any of the roof area or PV layout criteria are not satisfactory.
4. Gamcorp completes Solar Array Installation Compliance Certificate and emails the Project Manager.

Gamcorp Melbourne Pty Ltd - Structural Consultants to the Solar Industry  
+61 3 9543 2211 - [info@gamcorp.com.au](mailto:info@gamcorp.com.au) - [www.gamcorp.com.au](http://www.gamcorp.com.au)



## STRUCTURAL INTERNSHIPS

### Internship Opportunities for Structural Engineering Students or Graduates

Gamcorp offers a 12 week internship program for current students or recent graduates to gain hands on experience working within our engineering team support our commercial solar power clients. Our internship program includes training and mentorings that builds on your academic knowledge and provides practical skills in client consultation, problem solving, computations, teamwork and communications.

#### Our Values and Beliefs



##### Trust

We believe that trust is the foundation of all relationships.



##### Professionalism

We believe that professionalism is being the best you can be.



##### Support

We believe that support is the willingness to take the time to go above and beyond.



##### Sustainability

We believe that sustainability is using resources in the best way to ensure our future and environment.

For more information and register your interest, email

[recruitment@gamcorp.com.au](mailto:recruitment@gamcorp.com.au)

Gamcorp Melbourne Pty Ltd - Structural Consultants to the Solar Industry  
+61 3 9543 2211 - [recruitment@gamcorp.com.au](mailto:recruitment@gamcorp.com.au) - [www.gamcorp.com.au](http://www.gamcorp.com.au)

# THE FUTURE IS WHAT WE MAKE IT

We are a company of thinkers, doers, dreamers and makers. We are a culture, driven by collaborating with the best and the brightest, by championing ideas and embracing curiosity.

Be it buildings, infrastructure, oil and gas, aerospace, controls or materials, we make a lot of incredible things. We define the future of industries helping transform the way the world works.

**MAKING  
INDUSTRIAL PLANTS  
DIGITAL.**

**MAKING  
FIREFIGHTERS  
SAFER.**

**MAKING TAXIS FLY.**

**MAKING  
CONCERTHALLS  
PERFORM BETTER.**

**MAKING HOSPITALS  
HEALTHIER**

**MAKING  
PROPELLANTS  
EARTH-FRIENDLY.**

**MAKING PLANES  
TAKE OFF SOONER.**

**MAKING MARS  
MISSIONS  
BREATHABLE**

**MAKING JET FUEL  
FROM SEEDS.**

**MAKING  
WAREHOUSES  
SMARTER.**

**MAKING  
INFRASTRUCTURE  
DODGE  
CYBERATTACKS.**

**Honeywell**

# MAKE YOUR FUTURE HERE

## BE A #FUTURESHAPER TODAY WITH THE HONEYWELL EARLY CAREERS PROGRAM

We are a Fortune 100 company that invents and manufactures technologies to address tough challenges linked to global macro trends such as safety, security, and energy. We're building a safer, smarter, and more sustainable world through our technology and software across each of our 930 sites globally. Our impact is seen in every shape and size around the world. Our solutions are felt daily in aerospace, buildings & cities, retail, chemicals & materials, industrial & manufacturing, safety and supply chains.

We have been innovating for more than 100 years – and now we're creating what's next.

**At Honeywell, inclusion and diversity matters. Our mission in Pacific is to foster a performance culture that promotes respect, understanding, and appreciation of different perspectives, backgrounds and experiences.**

### Graduate Opportunities

As a Honeywell Graduate, you will get the opportunity to kick start your career and be a part of a diverse culture that fosters collaborative work practices, leaders who care, and work on impactful projects to help solve real-world challenges.

We have graduate opportunities available across Australia & New Zealand as follows:

- Graduate Engineer
- Graduate ICT Engineer
- Graduate Inside Sales Specialist
- Graduate Project Engineer
- Graduate Service Engineer
- Graduate Software Engineer
- Graduate Solution Architect
- Graduate User Experience
- Graduate Sales Development & Operations

### Are you ready to be a #futureshaper?

**We take pride in having a rich history of fostering our future leaders, with many early careers alumni holding various positions today, including senior leader roles.**

To find out more, please visit  
[www.earlycareersathoneywell.com.au](http://www.earlycareersathoneywell.com.au)

**Honeywell**

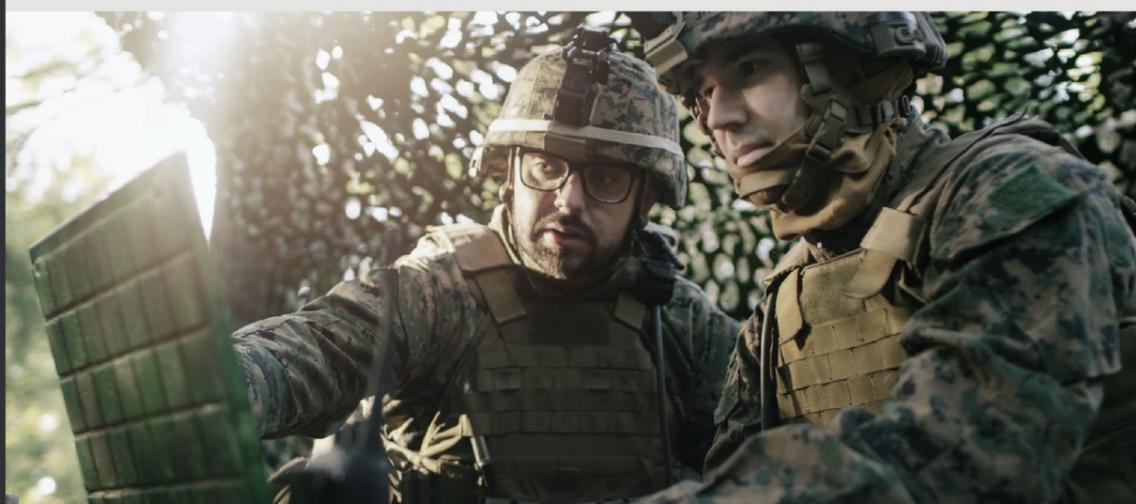


JVAT is an innovative risk and assurance consultancy firm that provides advice, services and products across the Defence & National Security, Government & Public Sector, Rail & Infrastructure, and Energy & Resources markets.

Our team consists of professional management consultants, engineers and assurance subject matter experts. We specialise in Risk & Assurance, including:

- **Systems, Software & Safety Engineering**
- **Systems, Software & Safety Assurance**
- **Human Factors Engineering**
- **Security & Cybersecurity**
- **Management Consulting**
- **Enterprise Risk Management**
- **Governance, Change Management & Culture**
- **User Experience (UX) Design**
- **Resilience & Wellbeing**

It's our company culture that really sets us apart from our competitors. We firmly believe in fostering a positive and open culture between our team and clients using a collaborative working relationship to maximise efficiency and productivity.



## GRADUATE MANAGEMENT CONSULTANT

At JVAT, we want you to discover a career path that excites you. Based in Melbourne or Brisbane, we are looking for graduates who have completed studies in Engineering or IT.

We are looking for people who are passionate, curious and seeking out a challenge in a client-facing role across a diverse industry-base.

You will have many opportunities to learn and grow within the Consulting, Risk and Assurance sectors in a Graduate Program that will support your journey to a successful career.



- Build upon technical expertise to add value, support the delivery of exciting projects and successfully provide management consulting solutions for clients
- Be supported with continuous training and development opportunities to ensure you reach your potential

### ABOUT YOU

- Creative problem solvers who are seeking a challenging and rewarding career.
- People who reflect JVAT values of; dedication to success, innovation that matters, trust, responsibility and transparency.
- Bachelor's degree in any Engineering or IT related field.
- Ability to analyse and solve problems, provide valuable insight and offer innovative solutions sourcing and assessing relevant information.
- Proficient technology skills (Microsoft Suite).

### WHAT WE OFFER

- Work in an innovative and collaborative culture focused on your learning and development.
- Competitive remuneration package.
- A focus on health and wellbeing, including a wellbeing package for gym/yoga, Travel and Private Health Insurance.
- 2 annual professional subscriptions.
- A young, growing, agile organisation that values people as our most valuable asset.



To find out more, visit [www.jvat.com.au](http://www.jvat.com.au) or contact [careers@jvat.com.au](mailto:careers@jvat.com.au)



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Commencing your engineering career with NDY means that you will become part of a unique international group of consulting engineers. As a graduate you will be part of a team that designs landmark developments and will make positive contributions to projects from Day 1.



AAMI PARK

MONASH UNIVERISTY LTB

ROYAL CHILDREN'S HOSPITAL



CHADSTONE OFFICE & HOTEL

COLLINS ARCH

EUREKA TOWER

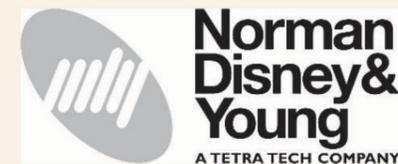
### NDY GRADUATE PROGRAM

NDY recognises that every graduate is unique, and that your development is essential to your success.

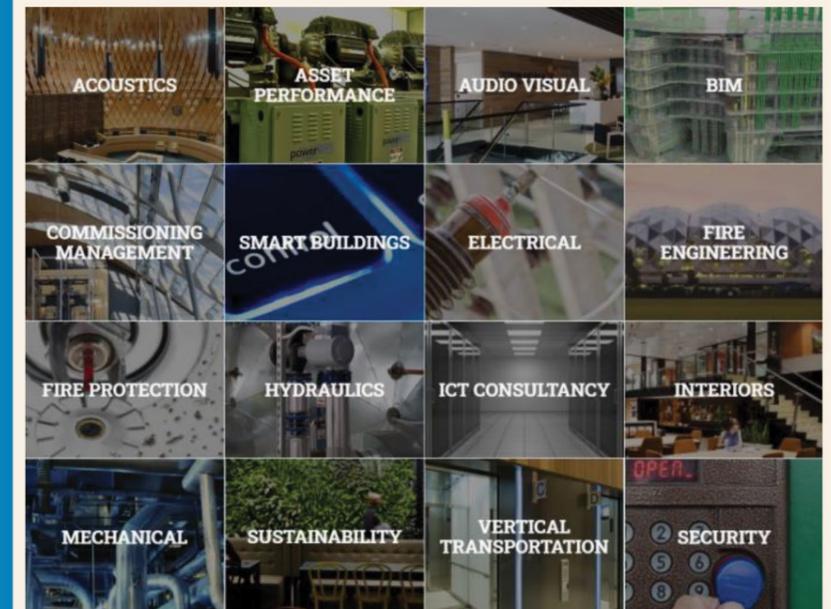
The NDY Graduate Program offers ongoing technical training and continuous professional development. The Program ensures that you will receive all the necessary post-graduate training to optimise your opportunities for career development and growth.

As an NDY graduate engineer you will be challenged and offered unique opportunities to:

- Learn and excel in your day-to-day responsibilities
- Be involved in work-based team activities
- Grow personally and professionally in a dynamic, inclusive and supportive culture
- Engage with and be mentored by exceptional technical experts



### NDY SERVICES



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### INTERSTATE AND INTERNATIONAL OPPORTUNITIES

Following completion of the Graduate Program there are opportunities for relocation or secondment to NDY locations throughout Australia (Melbourne, Sydney, Canberra, Adelaide, Perth, Brisbane), New Zealand (Auckland, Wellington), the UK (London), Hong Kong and Canada (Vancouver), and to sister Tetra Tech companies across the USA.

### COMMUNITY INVOLVEMENT

NDY is committed to giving back to the community. Our commitment to charitable causes has inspired the establishment of the NDY Charitable Trust which looks to provide support to communities in need.

The NDY Charitable Trust aims to make a difference through the combined efforts of our people and financial support from NDY.

We deliver our charitable efforts through a combination of pro-bono, in-kind and cash donations to causes that have a synergy with our business. NDY complements donations with practical assistance on a range of volunteering efforts around the globe, through its pool of skilled and talented engineers.

Through this initiative, all graduate engineers have an opportunity to give back to the community and be actively involved in social enterprises.

Apply now at [ndy.com/graduates](http://ndy.com/graduates)

### From Our CEO

At Norman Disney & Young A Tetra Tech Company (NDY) our people are the key to our success. They are experts on understanding the specific requirements of diverse industries and project types. This depth of talent and experience across our international footprint allows NDY to undertake the most challenging projects and to deliver successful commercial, environmental and technical outcomes. Our graduate program injects our business with the next generation of consulting engineers and business leaders making it integral to our ongoing success.

At NDY our graduates get exposed to world class:

- **People** – NDY employs the best. The prospect of working alongside industry thought leaders, our technical excellence and industry-leading approach to corporate social responsibility, makes NDY a beacon for top talent.
- **Projects** – As a top tier engineering consulting firm we partner with top tier clients to build truly iconic projects across the globe.
- **Opportunities** – Our leading talent development programs ensure every member of our team can accelerate their career.



Thank you for considering a career with NDY and I hope this brochure gives you an insight into the difference you can make in Making Spaces Work.

Stuart Fowler  
Chief Executive Officer



## It's like nowhere else. And that's exactly why we love it.

Optiver is a proprietary trading firm with nine locations across Europe, Asia-Pacific and North America. Powered by technological might and guided by intellectual rigour, we trade our own money, at our own risk for our own reward. But not solely for our own benefit.

By offering competitive, two-sided prices to buyers and sellers, we provide liquidity and inject stability into the world's financial markets. That's good for all market participants, from financial pros to the pensioner next door.

Market making takes a pretty unique set of skills. There's an enthusiasm for solving problems that threads through everything we do. We prove our ideas, and often, we know instantly whether a strategy, a fix, or an idea is working or needs more refinement. We harness some incredible minds, from the traders who make real-time decisions in ever-changing markets, to the tech teams that build our software, hardware and market linkages, to the risk and control teams who make sure we're always managing our risk and keeping our promises to the markets we partner with. Our world is complex, fast-paced and incredibly exciting – which is why we think you might love it.

[www.optiver.com](http://www.optiver.com)

### There's always more to learn. It's one of the best parts of the job.

If you're studying Mathematics, Computer Science, Software Engineering, Statistics, Engineering, Actuarial Science, Physics or Applied Finance, we're keen to talk to you. You don't need to know finance, because we can teach you. If you're curious, a born problem-solver, and looking for something that excites you, then come and see what we've got to offer.



### There are lots of reasons that joining Optiver is a great career move.

- We're a hybrid that combines the strengths of a tech company and a finance company.
- We give our people autonomy and responsibility, so your success is directly linked to your work and output, not to external opinion or anonymous clients.
- We're driven by transparency, which connects everything from fast feedback to a clear hierarchy, and even our remuneration and bonus structures.
- We get feedback straight from the source, which leads to better – and faster – outcomes for the market or your internal partners.
- We're a global business, which means we're always poised to take advantage of opportunities (and move our people around the world).
- We invest in our talent, so you'll have plenty of chances to sharpen your skills. There's always something new to learn from internal courses to external workshops (plus the daily exposure to amazing peers).
- We manage our own risk and our own reward. Which means, in real terms, we're not beholden to external clients.
- We're a collaborative team, in every sense of the word. We share ideas, opinions, information and opportunities so that when we win, everyone wins.

**We hire the exceptional to do the incredible.  
Come and see our world.**

optiver 

# Traffix Group

We're an industry leader in transport planning, traffic engineering and transport related infrastructure and construction works.

Join us and help develop solutions for current and future transport challenges.



## Do you have these attributes?

Dynamic • Talented • Driven • Team Oriented  
 Strong Communicator • Outstanding Academic Achievement  
 Desire for a Career in the Traffic and Transport Industry

### Why Us

With over 50 traffic engineers, transport planners, road safety auditors and technical staff, we help shape the ever changing Victorian built environment by providing our clients with the most innovative and thoughtful traffic and transport advice.

Traffix Group is an **equal opportunity employer** who is looking for the **next generation of traffic engineers and transport planners** to continue to grow our business based in **Melbourne's CBD**.

### Our Work / Projects

We work on a wide range of projects, from single residential dwellings through to multi-million dollar shopping centres, apartment buildings, new residential suburbs and major transport infrastructure projects.

Our clients include Local Councils, Department of Transport (VicRoads/Regional Roads/Public Transport Victoria), Civil Contractors, Architects, Property Developers, Town Planners, Lawyers, Shopping Centres, Hospitals, Universities, Schools, Residential Developers, Builders and Project Managers.

### Working as a Traffix Group Graduate

As a new graduate you will be exposed to the various aspects of our business and be involved with:

- Road, Intersection & Car Park Design
- Data Collection & Analysis
- Traffic Modelling & Reporting
- Road Safety
- Field Investigations
- Traffic Impact Assessments
- Time & Project Management

### How to Apply

Graduate applications will formally open in April 2021.

Register your interest now at [www.traffixgroup.com.au/careers/graduates](http://www.traffixgroup.com.au/careers/graduates) and stay up to date with the application process via:

 [www.traffixgroup.com.au/careers](http://www.traffixgroup.com.au/careers)

 [linkedin.com.au/traffixgroup](https://www.linkedin.com/company/traffixgroup)

 [careers@traffixgroup.com.au](mailto:careers@traffixgroup.com.au)

 03 9822 2888

### Developing Your Career in Transport

We will help you develop your career and offer:

- Comprehensive Technical Training**
- Access to Technical Experts/Senior Staff**
- Professional Development Opportunities**
- Attendance at Networking and Social Events**
- Varied Project Work In & Out of the Office**
- Work in a Collaborative Team Environment with Other Professional Disciplines**

Level 28, 459 Collins St  
Melbourne Victoria 3000

T: 03 9822 2888  
[traffixgroup.com.au](http://traffixgroup.com.au)



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- CIVIL
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- MAT
- MCHN
- MCHT
- RES
- SOFT



Photo by Pietro Alves  
Kearney, São Paulo

## Individual and inclusive to our core.

With the freedom to be yourself and recognition for what you bring, you'll find we're individual and inclusive to our core. While our values unite us, our desire to be the difference for our colleagues, our clients, and society at large sets us apart.

As a global consulting partnership in more than 40 countries, our people make us who we are. We're individuals who take as much joy from those we work with as the work itself. Driven to be the difference between a big idea and making it happen, we help our clients break through.

### Summer and Winter Internships

Our interns experience life as full-fledged Business Analysts. Working with experienced consultants and real clients, you will be solving business problems, conducting complex analyses, and drawing insights from your research and findings. Applications for our Internship programs commence in April and July each year.

### Business Analyst

Most Business Analysts join us immediately after graduating from their undergraduate degrees. As a Business Analyst, you are able to contribute as a full member of the client team, where you are expected to contribute ideas, opinions, and new information. Applications for the role of Business Analyst will commence at the start of 2021.

For more information, please email: [recruitment.au@kearney.com](mailto:recruitment.au@kearney.com)

[www.au.kearney.com/careers](http://www.au.kearney.com/careers)

KEARNEY

- ECSE
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- SOFT



## Show us your coding skills



Imagine this. You kick off your career with Australia's leading telco and technology company. You immediately get to work with leading-edge technologies; think 5G, IoT, AI and cyber security. And you can advance your career with innovative support programs like accelerated development, mentorship, flexible working, volunteering and coaching. Telstra is on a mission to reshape the future of how we all connect. You can be part of that future.

Reimagine tomorrow  
[careers.telstra.com](http://careers.telstra.com)

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expanding human possibility™

## Our strategy is to bring the Connected Enterprise to life

We integrate control and information across the enterprise to help industrial companies and their people be more productive and sustainable.



Expanding human possibility

SERVING CUSTOMERS FOR 117 YEARS

**\$6.7B** FISCAL 2019 SALES **23,000** EMPLOYEES

**100+** COUNTRIES

For the makers, innovators and problem solvers who believe in creating what's possible, Rockwell Automation offers a dynamic community where you can build a thriving career through solving complex, real-world problems that expand human possibility. Join us!

### Join our [Talent Network](#) today!

We connect the imaginations of people with the potential of technology to expand what is humanly possible, making the world more intelligent, more connected and more productive.

Check out Rockwell Automation's Company Culture here [#Life@ROK](#)

**Search Rockwell Automation Jobs [here!](#)**



## WHAT WE DO

WE ARE THE LARGEST COMPANY SOLELY DEDICATED TO **AUTOMATION + INFORMATION**

### WE HELP CUSTOMERS



REDUCE TIME TO MARKET



IMPROVE ASSET UTILIZATION



LOWER TOTAL COST OF OWNERSHIP



MANAGE ENTERPRISE RISKS

## THE INDUSTRIES WE SERVE



AUTOMOTIVE



LIFE SCIENCES



OIL & GAS



FOOD & BEVERAGE



MINING, METALS & CEMENT



POWER GENERATION



CHEMICAL



WATER WASTEWATER

[www.rockwellautomation.com/en-au](http://www.rockwellautomation.com/en-au)

### Contact us:

rasouthpacifichr@ra.rockwell.com

Tel: +61 3 9729 1418

Unit 1, 841 Mountain Highway, Bayswater 3152

expanding human possibility™



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# MAKING IT HAPPEN

IMC is a leading global market maker, buying and selling securities in all major asset classes on multiple trading venues worldwide. We provide liquidity and improve market efficiency, facilitating the transfer of risk for all market participants.

We make this happen by employing advanced technology, and highly skilled traders, harnessing a culture of innovation, openness and teamwork.

## 01 Hiring talented people and giving them lots of responsibility

Our employees are the core of our success. We hire talented people and give them lots of responsibility, support and freedom to make an impact. There are no silos or invisible barriers, and we will recognise the best ideas, regardless of hierarchy. We encourage our employees to have fun, and while we celebrate success, we also strive to keep both feet firmly on the ground.

## 02 Making things happen today and making them better tomorrow

As an ambitious company we are always ready to take the next step. We dare to imagine how things could be and then make it happen. We continuously plan for the future, anticipating change and innovating. We know that a good idea today may need re-thinking tomorrow.

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## Air Liquide | CAREERS

creative oxygen

A world leader in gases, technologies and services for Industry and Health, Air Liquide is present in 78 countries with approximately 64,500 employees and serves more than 3.8+ million customers and patients.

Oxygen, nitrogen and hydrogen are essential small molecules for life, matter and energy. They embody Air Liquide's scientific territory and have been at the core of the company's activities since its creation in 1902.

Through the passion and diversity of its people, Air Liquide leverages energy and environment transition, changes in healthcare and digitization, and delivers greater value to all its stakeholders.

Join us for a stimulating experience: you'll find a world of learning and development opportunities where inventiveness is at the heart of what we do, in an open, collaborative and respectful environment.

- Become a part of a network of **talent** and **international** driven **professionals** with a wide range of **expertise** areas
- **International** and **domestic** internal mobility opportunities strongly encouraged
- Diverse **talent development programs** and **training pathways**
- Become a part of something bigger and **make an impact** on everyday lives

**Kick start your career today and contact our Talent Acquisition Team:**

[email@airliquide.com](mailto:email@airliquide.com)

**Visit our websites to find out more:**

[www.industry.airliquide.com.au](http://www.industry.airliquide.com.au)  
[www.airliquidehealthcare.com.au](http://www.airliquidehealthcare.com.au)

“

**ALL SORTS OF THINGS CAN HAPPEN WHEN YOU'RE OPEN TO NEW IDEAS AND PLAYING AROUND WITH THINGS**

**- STEPHANIE KWOLEK**

# MONASH PROGRAMS

## Academic & Specialisation Clubs

- 68 Association of Civil Engineers at Monash
- 69 Materials Engineering Society
- 70 Monash Aerospace and Mechanical Engineering Club
- 71 Mechatronics Engineering Clayton Club
- 72 Monash Environmental Engineering Society
- 73 Monash Engineering and Pharmaceutical Science Society
- 74 Society of Monash Electrical Engineers
- 75 Society of the Monash University Chemical Engineers
- 76 Resources Engineering Students' Society
- 77 Female Engineers at Monash
- 78 Queers in STEAM
- 79 Transport Engineers at Monash
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- 82 Monash Energy Club

## Student Teams

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- 86 High Powered Rocketry
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# ACADEMIC AND SPECIALISATION CLUBS

# ASSOCIATION OF CIVIL ENGINEERS AT MONASH

## ACES

The Association of Civil Engineering Students (ACES) is an academic club for Monash University Civil Engineering students on the Clayton campus. The club's primary focus is to connect students to the Civil Engineering industry and does so through a variety of different events and initiatives. ACES annually hosts events such as careers fairs, company-specific events, various information sessions and construction site tours; in addition to providing useful information and resources to our members. In this way, ACES aims to inform students about the Civil Engineering profession and potential opportunities for vacation and graduate work.

Our flagship event is the Industry Night, where representatives from different companies visit the campus and present what their company has to offer. The night begins with presentations and is followed by a networking session, which allows students to network with practicing engineers and representatives from the civil engineering and construction sectors to help provide a better insight into the different career pathways, engineering streams and opportunities. Members receive frequent updates regarding opportunities as well as, other relevant information, through our

social media pages on Facebook and LinkedIn, and the ACES Civil Banter newsletter - sent on a monthly basis to their student email accounts.

The club also brings together like-minded students and aims to build life-lasting relationships amongst peers through social events such as barbeques and trivia nights. We strongly encourage students to join our 'Civil Banter @ Virtual HAL' Facebook page and Discord server, which are spaces that allow for communication on civil engineering-related topics, and provide a friendly online environment for students from all year levels to interact. The Discord server provides numerous channels and rooms for students discuss unit-specific content and is often used by the club to hold study sessions and games nights.

If you would like to find out more about us, just speak to any of our committee members or send us a message on our Facebook page, LinkedIn, email or join our Discord server.



MONASH  
ACES

# MATERIALS ENGINEERING SOCIETY

## MATES

MATES, the Materials Engineering Society, is a student group working together to provide for and support everyone studying materials science and engineering.

We have a number of students across all year levels, allowing you to meet people in your classes who you otherwise may not have met, as well as older students who have already completed segments of the course and may be able to assist you with any questions that you have or give you guidance.

MATES runs a number of different programs throughout the year to introduce our members to both graduate and vacation opportunities through industry-led presentations. We also host a trivia night, a number of BBQs, and an end of year dinner to help students interact with those also undertaking the same specialisation and build a network of staff and students.

Contact us via the links below or feel free to drop by Room 110 in Building 37, 18 Alliance Lane.



# MONASH AEROSPACE AND MECHANICAL ENGINEERING CLUB

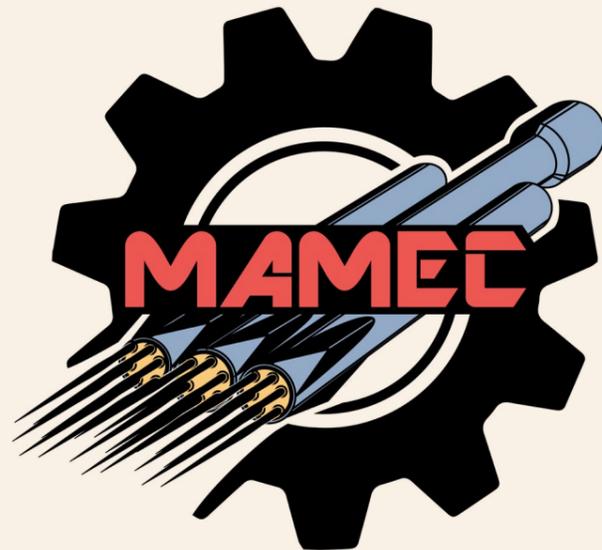
## MAMEC

The Monash Aerospace and Mechanical Engineering Club (MAMEC) is the port of call for all Monash Clayton mechanical and aerospace engineering students, both current and future. We're here to help you through every step of your journey through and beyond university. We aim to connect you to your peers and classmates, as well as industry leaders such as Boeing, Ford, BAE Systems and Worley to kickstart your career. Not sure if mechanical or aerospace is for you? MAMEC is also here to help answer any questions and clear any concerns you may have about studying mechanical or aerospace engineering at Monash.

In 2020, MAMEC launched the popular Student Teams Expo where students heard from 14 of Monash's student teams. We also presented our flagship Industry Night, combining both aerospace

and mechanical engineering industries. Our members also learned industry insights and tips to craft the best resumes and put their best foot forward at interviews. 2020 saw the relaunch of our Trivia Night as well as the Discord Games Night, sparking friendly competition among attendees. Coming off a successful 2020, you can count on MAMEC's 2021 events being ones NOT to miss!

Stay up to date with all things MAMEC by liking us on Facebook and joining our Discord server! Reach out to us via email or Facebook to find out how to join as an ordinary member and unlock our member benefits.



# MECHATRONICS ENGINEERING CLAYTON CLUB

## MECC

MECC is the club for Robotics and Mechatronics Engineering students at Monash. We run industry and academic information sessions and host competitions throughout the year.

Our typical event lineup includes:

### Robot Building Competition

A chance for first and second-year students to get some hands-on mechatronics experience and skill-building

### HardHack

A hackathon-style event where physical prototypes are mandatory: we want to see what you can build

### Tech Industry Night

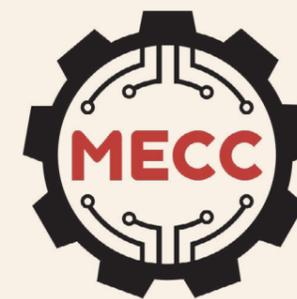
An opportunity to network with technical industry representatives, particularly from electrical and automation companies, and find out the details of internships and company recruitment

### Mechanical Industry Night

Similar to Tech Industry Night, but with more of a focus on the mechanical side of engineering.

### Trivia and games nights

These are times for you to relax with like-minded peers and make some friends, maybe winning some prizes along the way



mechatronics  
engineering  
clayton club

# MONASH ENVIRONMENTAL ENGINEERING SOCIETY

## MEES

MEES is a social and academic club that wants to help you establish a network that begins with students and creates lasting professional partnerships.

MEES promotes interaction between its members and professionals, alumni and students, both within Monash and externally. We attempt to facilitate this engagement through a combination of social, academic and industry initiatives and developing a culture of student engagement.

We host a number of events throughout the year including:

- Professional Development Night
- FYP Information Night
- Annual Camps
- Industry Nights
- Industry Guide

✉ Contact us via email  
mees@monashclubs.org



# MONASH ENGINEERING AND PHARMACEUTICAL SCIENCE SOCIETY

## MEPSS

### What is Engineering/Pharmaceutical science?

Combining chemical engineering with pharmaceutical science, this double degree course is unique in Australia and rare worldwide, producing professionals capable of covering the full spectrum of the pharmaceutical product design and development process. Pharmaceutical engineers work in all wide range of jobs, from experimenting with innovative formulations to manufacturing commercialised products.

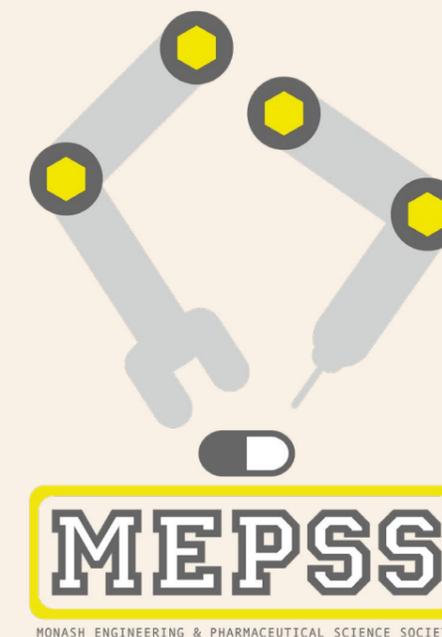
### Who are we?

The Monash Engineering and Pharmaceutical Science Society (MEPSS) is built to provide support, representation and a social medium for all students of the Pharmaceutical Science/Chemical Engineering double degree, and all students with an interest in the pharmaceutical engineering field.

We provide social events like BBQs, pizza and other exciting nights. First and foremost, however, we are here to make sure all students of the double degree have the most enjoyable time at university! We also provide perks like alumni connections and networking opportunities in the pharmaceutical engineering field. If you are interested in this industry, then this society is for you! We help set you up with the best opportunities and with the best people, while making sure you have the best time.

Feel free to contact us about MEPSS, engineering or the course in general.

These are times for you to relax with like-minded peers and make some friends, maybe winning some prizes along the way



# SOCIETY OF MONASH ELECTRICAL ENGINEERS

## SMEE

The Society of Monash Electrical Engineers (SMEE) is a student run academic society for Electrical Engineering students. We run a number of events throughout the year including:

**Trivia Night:** Our annual social evening at the Nott, for beers and good company

**HardHack:** Melbourne's only Electrical Engineering hackathon - for a cash prize pool of up to \$2000, and exposure to industry representatives

**Tech Industry Night:** With over 15 companies present, TIN is the university's premier technology focused industry event. society of monash electrical engineers (smee)

**Robot Building Competition:** A competition where first and second years are taught the essential skills for their electrical or mechatronics degrees

**Industry Pathways Panel:** An intimate and long-form industry night where we go in depth with industry reps and find out what a career in engineering is really like And more! If you'd like to join SMEE, you can always find us in room 111, 16 Alliance Lane (the electrical engineering building).

 Contact us via our email [smee@monashclubs.org](mailto:smee@monashclubs.org)



# SOCIETY OF THE MONASH UNIVERSITY CHEMICAL ENGINEERS

## SMUCE

The Society of Monash University Chemical Engineers (SMUCE) is a student-run society aiming to bridge the gap between the classrooms and the world outside the university. Thus, serves as a link between students, academics and industry.

We also work closely with the Department of Chemical Engineering and Monash Employment and Careers Development to increase student awareness of the professional opportunities and to build upon the skills necessary to aid them in their professional undertakings.

Throughout the semester, we hold weekly seminars where we invite representatives from various companies or organisations to present potential career pathways into employment to our members. Recently, we have also started creating recorded industry panels which can be viewed on our YouTube Channel.

Socially, SMUCE organises a number of events to facilitate networking opportunities between

students, different year levels and academic staff and to help alleviate the study stress as semester progresses. Such events include barbecues, game competition nights and our annual SMUCE Academic Dinner.

SMUCE helps facilitate peer learning through the GroupUp sessions. They are small academic support groups set up by students in preparation for the tests and exams. Furthermore, SMUCE upholds its tradition of linking students with industry and we publish annual career guides to provide students with job and research opportunities that are relevant to Chemical Engineering.

To learn more about us, connect with us via our social platforms.



## SMUCE

# RESOURCES ENGINEERING STUDENTS' SOCIETY

## RESS

Resources Engineering Student Society (RESS) is a club for all students interested in the Resources sector! This includes the Mining and Renewables Engineering degrees and new minors.

RESS provides students studying these areas with opportunities to get together in a social and fun way. We have had BBQs, movie nights, and other activities for Resources students to get to know their peers. Additionally, we promote career progression in the resources sector by leveraging our industry and alumni contacts to provide networking opportunities.

RESS also provides advice on what the benefits are of working in the resources industry to students who are unsure of what the sector entails.

With the addition of Mining and Renewable Energy minors into the Monash curriculum, we aim to bring together students from every faculty to collaborate with each other under the umbrella of Resources Engineering.

It is our goal to help promote the Resources sector to students who would otherwise not consider it as a fantastic career choice!

Our 2020 events included: Renewables Career Night, Mining Industry Night, FYP Info seminar, Renewables Site Visit, Mining Games and many lunchtime barbecues!



**RESS**  
RESOURCES ENGINEERING  
STUDENT SOCIETY

# FEMALE ENGINEERING AT MONASH

## FEM

Female Engineers at Monash (FEM), is a student orientated club that aims to support female engineering students by facilitating connections with both students and employers, assisting in developing soft skills that are sought after by employers and providing opportunities that inspire students to think creatively and critically.

Although our focus is on female students, we welcome anyone who supports women in engineering! Think of it as a cool way to meet new people and make friends! Throughout the semester we run social and academic events, such as our Trivia Night and FEM Industry Night, where we launch our annual Industry Guide. Through these events, we encourage you to get to know representatives from the industry as well as provide you with easy access to relevant information that can help you make the most of your time here at university!

This year we held various different online events to engage with students. We had social events like Games Night, Movie Night, Zumba, Meet the FEM

Committee and heaps more! Apart from that there were quite a few online industry events such as Q/A sessions and webinars with our sponsors. One of the main industry events we held this year was an online round table networking event where students learnt about companies and networked with company representatives.

2021 is going to be an exciting year for FEM, as we are aiming to bring more fun and helpful events to our members next year! Are you interested in being part of FEM? Stay tuned and connected with our events by following our social media platforms below.

We hope to see you at our events!

You can contact us at [fem@monashclubs.org](mailto:fem@monashclubs.org) and stay up to date with our events and other opportunities at our facebook page



## QUEERS IN STEM

### GLEAM

Queers in STEM is a student run club based on the Clayton campus, formed to assist queer STEM students with their journeys into the professional workplace. With a concentration on the embracement and exploration of different sexual and gender identities, GLEAM's objective is to provide support and insight to our members so that they feel well equipped to enter the professional workforce.

We do this by facilitating professional workshops with queer professionals; providing career oriented resources; and providing an arena for

queer and questioning STEM students to network and meet other queer and ally students and employers. In addition to that, we also hold events for students to socialise and ease the stress of studying. These events include barbeques (when it is safe to do so), trivia nights and game nights.

For any inquiries, please get in contact with GLEAM via our different platforms



## TRANSPORT ENGINEERS AT MONASH

### TEM

Transport Engineers at Monash (TEM) is a club run by Civil Engineering students with a passion for Transport Engineering. TEM focuses on promoting the Transport sector to engineering students throughout all disciplines. This is achieved through different ways, including:

**Mentorship Program:** The mentoring program is Transport Engineers Monash's main event, and the aim of this program is to find students interested in learning about the transport sector and pair them with experienced mentors from industry.

Recently, due to COVID, TEM has also included an overall wellbeing section, focusing on providing students with more support in the mentorship program.

**Lunchtime Talk:** At the Lunchtime Talk, speakers from the Transport industry or alumni from TEM/Monash are invited to talk about major infrastructure projects, new developments in transport engineering, as well as their experience with entering the industry and final year projects.



# Transport Engineers Monash

# ENGINEERS WITHOUT BORDERS

## EWB

At Engineers Without Borders (EWB) Monash, our mission is to raise awareness of humanitarian engineering, and advance the social and humanitarian principles we believe should be at the centre of the modern engineering industry. To this end, we run a variety of events and workshops designed to educate our members about humanitarian design and how to use engineering to make a real difference in the world. Some of our events include our Appropriate Technology workshops, the Ideathon, and Trivia Night.



Opportunities to get involved...

**School Outreach:** High school workshops run by volunteer members which teach students about challenges faced by developing communities with hands-on activities.

**Appropriate Technology:** Workshops that give you an opportunity to learn more about humanitarian engineering and its design principles.

**EWB Ideathon:** An intensive hackathon challenging its participants to apply humanitarian design to real life scenarios and problems.

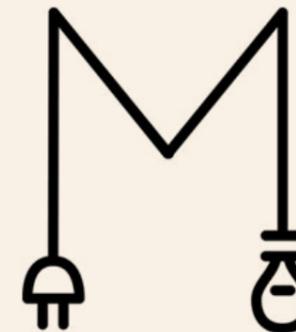
# MONASH ENERGY CLUB

## MEC

Monash Energy Club (MEC) is a club that brings together all students interested in the Energy Industry! We welcome all different academic backgrounds, and aim to provide an opportunity to be involved in and learn about Australia's Energy transformation, covering all areas from new technologies and trends to news and policies. We have many events throughout the year, both social and educational and we provide students unique networking opportunities with our industry partners for potential internships, graduate, and PhD programs.

Some of our events this year have been: Trivia Night, EnergyHack, AGL tour, Hydrogen Masterclass, Young Professionals in Energy webinar, and our 'Grounded' webinar series which featured Energy-Industry professionals from groups such as Tesla, Climate Council, Monash University and Woodside.

Oh and we also have a podcast!



# MONASH

## Energy Club

# MONASH MOTORSPORT

## MMS

# STUDENT TEAMS

### Who are we?

We are a student-run team who compete in the World's largest university level competition, Formula SAE/Student. The students on the team are from many different faculties including engineering, commerce, science, design and law. The team is split into five different departments which are: Autonomous Systems, Business, Dynamics, Electrical Systems and Structures.

### What do we do?

We design, build, test and compete with open wheel, single seater race cars. The competition covers everything from the on-track performance of the cars and their design, to costing and entrepreneurial potential. Members gain hands on engineering and business acumen and establish their interpersonal skills, creating networks far beyond their university education, into industry.



### What is our goal?

The vision of the team is to become the "most respected Formulas Student team in the world". This goal encompasses our on-track performances, standing in the Formula Student community and the opportunities we afford our team members.

Monash Motorsport is currently ranked 1st in the combustion class and 3rd in the electric class, out of 630 registered teams worldwide. In 2019 we also proudly unveiled Australia's first fully autonomous competition-ready Formula SAE race car. In 2021, the team will be focussing our efforts on a single electric vehicle, capable of both driven and driverless racing. This new concept will allow all of our team members opportunities to gain experience in key emerging technologies, such as electric powertrains, autonomous mobility and advanced material engineering.

### How can you get involved?

Monash Motorsport gives students the opportunity to develop real-world engineering and business skills, as well as providing international employment and networking opportunities. We have opportunities for students at any stage of their undergraduate or postgraduate degree. If you are interested in learning more about us, check out our social media and fill out our expression of interest form on our website to be the first to hear when our recruitment period begins:



# MONASH NOVA ROVER

## Who are we?

Monash Nova Rover are a group of passionate multidisciplinary university students which are the first Australian team to compete at the University Rover Challenge at Utah, USA. Many Australian students are interested in space development but there are few opportunities in Australia to explore this passion. Our team of students from a broad spectrum of backgrounds and skills are dedicated to the advancement of space and STEM technologies.

## What do we do?

In 2018 we became the first Australian team to compete in the Australian Rover Challenge and in 2019 placed 9th out of 86 teams. The team utilises the annual competition as a vehicle to develop new skills, innovate technologies and promote the opportunities of STEM-based courses and careers. Our rover is designed to assist an astronaut on Mars and is equipped with a large robotic arm, in-situ life detection and autonomous capability. We also apply our skills broadly with an established outreach program and recently with competition changes due to COVID the team has expanded our involvement in other challenges and competitions.

## What is our goal?

The team is incredibly proud of how far they've come and the work they've achieved as well as the wonderful support from our sponsors, friends and family along the way the past year. In 2021, we aim to continue to adapt and apply our skills effectively to whatever circumstances present us, continue our progress and growth and take home a podium position in our upcoming competitions!

## How can you get involved?

The team generally recruits bi-annually and students from all backgrounds and welcome to apply. Follow our progress and announcements on social media or learn more about the team on our website.



# CONNECTED AUTONOMOUS VEHICLE

## CAV

## Who are we?

Monash Connected Autonomous Vehicle (MCAV) is a student team focusing on research and development of autonomous systems and intelligent transport systems (ITS), and transforming a conventional vehicle into an autonomous vehicle that can operate in a connected network.

## What do we do?

Our vision is to build a safe and efficiently operated connected Autonomous vehicle in a shared environment, such as public roads or spaces.

Last year we transformed a road going Subaru Forester into an autonomous vehicle capable of parking itself in a designated parking area. This was successfully achieved by a team of 50 student engineers in 2019.

The team is also heavily engaged in ITS and autonomous system development such as intersection controls, IoT data acquisition, traffic simulation and VR/AR applications. The team have also hosted its first ITS webinar in September on the Future of Transport, a round table discussion on future transportation trends, developments and impacts.

To learn more about the team and our work, please visit our website and our Facebook page.

## What is our goal?

In 2020, we have developed and further improved our simulation system to perform V2X communication/interaction at an intersection between two autonomous vehicles, where two vehicles will communicate to another and pass an intersection without interruptions. For 2021, the team will continue the goal to make this system into a reality.

## How can you get involved?

MCAV offers a wide range of technical and business areas for students from different engineering disciplines and faculties. For more information about the job opening, and our technical sections and business area, please visit our website: [monashcav.com](http://monashcav.com)

## Are there opportunities for me as a postgraduate student?

Of course! MCAV welcomes all students at different levels of study to join the team, we also offer a range of projects you could get involved in.



# HIGH POWERED ROCKETRY

## HPR

### Who are we?

Monash High Powered Rocketry is a team of enthusiastic students dedicated towards the design, analysis and construction of high powered rockets. The team is composed of a diverse range of Monash University students. This includes students from the faculty of engineering, science, commerce and design; who together form the technical, business and management aspects of the team. We compete in a variety of interstate and international rocketry competitions, most notably the Australian University Rocket Competition and the Spaceport America Cup.

### What do we do?

We design, construct and launch rockets that are capable of reaching supersonic speeds of up to Mach 1.94 and altitudes of 30,000 feet (~9km), whilst running onboard experiments. The team also places a huge emphasis on the continuous running of outreach programs for both primary and high school students to encourage participation in STEM.

### What is our goal?

Our ultimate goal is to become a well renowned contributor to the development of rocketry and the space industry in Australia at a technical level. In order to achieve this, we continually look for ways to push the boundaries of space technology and enable students to become the space industry pioneers of the future

### How can you get involved?

Recruitment runs once a year for interested students, during the middle of the year. There are further opportunities in semester one for students in the engineering faculty to get involved by being a part of our design 1 program. Additional opportunities may be posted throughout the year depending on the teams requirements. Follow Monash HPR on our social media to receive updates about what the team is up to and when recruitment periods are open!

### Are there opportunities for me as a postgraduate student?

Recruitment is open to all postgraduate students, both PHD and Masters! International students are also welcome to apply!



# MONASH DEEP NEURON

## MDN

### Who are we?

Monash DeepNeuron (MDN) is a student team focused on empowering students and researchers to use Artificial Intelligence (AI) and High-Performance Computing (HPC) through ethical, hands-on research projects.

### What do we do?

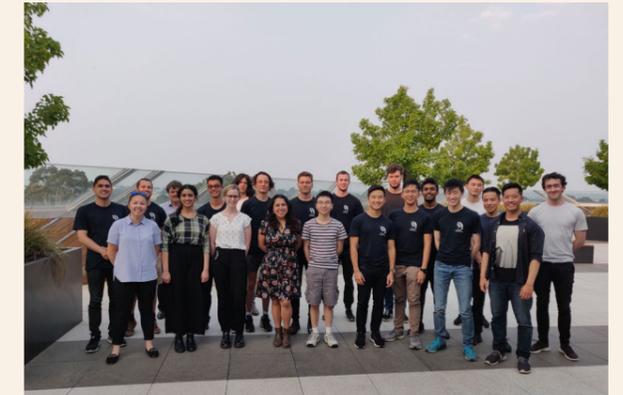
We take on a variety of AI & HPC related projects from sources all around the university, including researchers, faculties and other student teams, as well as the occasional external project. We're a team that's completely run by students, for students; all our team members take part in our projects voluntarily, using this opportunity to learn about AI & HPC and practice their technical skills while also involving themselves in the MDN community.

### What is our goal?

Our goal is to develop and promote the knowledge of AI & HPC in Monash students and the wider public. Artificial intelligence often gets a negative reputation in the public's perception. Although some of their concerns may be warranted, this doesn't have to be the case. We place a heavy emphasis on using AI ethically here at MDN, and we seek to enlighten people about the capabilities of it and how to avoid misusing it.

### How can you get involved?

Any student from Monash University, no matter undergraduate or postgraduate, can join MDN. We recruit once a semester, looking for anyone with an interest in AI & HPC, not just Engineering and IT students. If you want to know when we next recruit and how to apply, keep a tab on our Facebook page or visit our website



# PRECIOUS PLASTICS MONASH

## PPM

### Who are we?

Precious Plastic Monash is a multidisciplinary student-run team tackling the issue of plastic pollution. We are a chapter of the global Precious Plastic movement. In 2013, Dave Hakkens designed four machines to recycle plastic and then published those designs onto the internet for free! We took the designs for the plastic shredder, injector, extruder and compression oven and modified them to create our 1x1 metre Integration Unit (IU).

### What do we do?

We save plastic from going into landfill! Our IU shreds, melts and moulds plastic into valuable products for the community. When we aren't creating exciting products - such as clocks, furniture and school signage - we spend lots of time engaging with the community. By visiting schools and presenting at events like the Royal Melbourne Show, we spread our message as far as possible and are fortunate to meet many passionate people along the way. We are always excited to further develop our Integration Unit and design new products!

### What is our goal?

Our vision is to reduce plastic pollution by building and empowering a global community to use plastic as a precious resource. We aim to achieve this by promoting collective responsibility in the community, educating individuals to rethink their plastic use and designing solutions to repurpose plastic, replace plastic or challenge perceptions about plastic. We want more people to realise that plastic is precious, empowering them to think twice before choosing and throwing away disposable plastic products.

### How can you get involved?

Check out our Facebook page for recruitment opportunities! We also post gorgeous photos of our products and machine designs, share details about upcoming events and share small ways that you can improve your relationship with plastic. Be sure to keep a lookout for our next workshop tours when they are available - it might just change what you think is possible in the fight against plastic pollution.

Let's Recycle Together!



# MONASH FORGE

### Who are we?

Monash forge is a student run team which currently uses traditional methods of forging and casting to produce quality metal items. Our members learn to work safely with metal, develop an understanding of metallurgy principles, and learn to deliver high value public and university workshops.

### What do we do?

The team aims to educate the public and develop processes to produce high quality products for the general community around Monash, also providing an example of how to effectively develop a closed loop materials and energy life cycle for metal products.

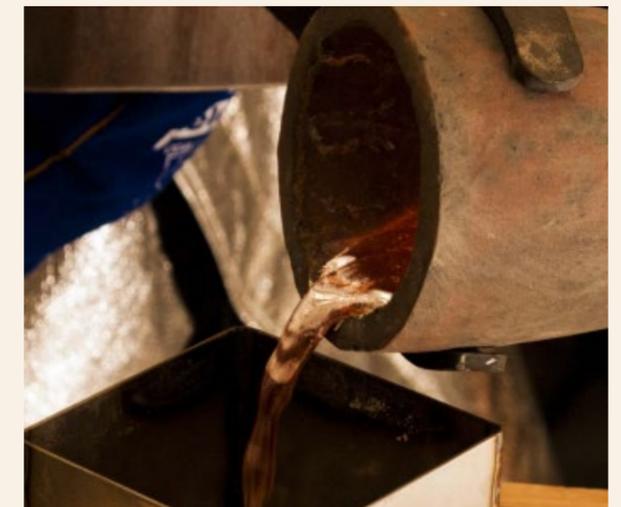
### What is our goal?

Monash Forge has three central goals:

1. Inspiring sustainability, which we achieve through using recycled materials to reduce waste in the community and by reducing the emissions required for production.
2. Spreading education about metalworking and sustainability, which we achieve by developing and delivering workshops for the Monash community and the general public.
3. Finally, providing unmatched performance. From our metalworking and manufacturing processes to the workshops we deliver to the public, everything is aimed to be of the highest quality.

### How can you get involved?

Monash Forge is always on the search for keen minds to join the team, especially individuals interested in metalworking and sustainability initiatives, whether from undergraduate or postgraduate study. Recruitments are advertised on our Facebook page, as well as through emails from the faculty.



# MONASH HUMAN POWER

## MHP

### Who are we?

Monash Human Power is a student-led engineering team from Monash University in Melbourne, Australia. Since 2015 we have been designing, manufacturing and racing fully-faired human-powered vehicles (HPV) to push the limits of human speed.

Our team is aiming to break the Australian HPV F200 land speed record of 94.6km/h. This year marks our largest recruitment to date, bringing our team up to 60 interdisciplinary students. We take pride in developing industry-ready graduates through our collaborative design and manufacturing process. We believe that HPV provides a relevant and immersive framework for learning STEM and we use this framework to promote sustainability in schools.

### What do we do?

Upon joining our team, you'll get the opportunity to join one of our six subteams:

**Aerodynamics:** Responsible for the design and testing of the external shell (fairing) and other aerodynamic components of the bike.

**Chassis & Drive-Train:** Responsible for the design and manufacture of the chassis and all other mechanical components of the vehicle

**Corporate:** Works behind the scenes to support the technical side of the team by coordinating marketing, events, and sponsorship.

**Electrical:** Responsible for the camera, internal display and the recording of data.

**Materials:** Responsible for the prototyping and manufacture of the fairing.

**Rider Development:** Focuses on maximising the performance of our riders.

### What is our goal?

We are aiming to compete at the World Human Powered Speed Challenge, which takes place annually at Battle Mountain, Nevada. Teams from around the world gather on State Route 305 in a quest to break the human powered land speed record. The current world record in this competition is 144 km/h.

### How can you get involved?

Keep in touch with us via our different platforms:



# MONASH BREWLAB

### Who are we?

We are the first student-led team in Australia operating in a nano-scale brewery, producing craft beer and kombucha. We provide students with an opportunity to engage in an environment that builds on skills developed in their degree while learning about brewing.

### What do we do?

With the guidance of our industry partners, we design and implement procedures to produce beer and kombucha whilst establishing a business model around this initiative. Additionally, we support our industry partners with the analytical skills available in the team. We also foster an environment in sharing knowledge with the homebrewing community for improvement in their recipes and procedures. Furthermore, our new 'Brew at Home' kits provide students an opportunity to develop their recipe making skills and experiment with their own homebrews.

### What is our goal?

We aim to establish a core range of high quality products to be distributed and build a positive reputation among the Monash and Victorian Brewing Community.

### How can you get involved?

Whether it be wanting to develop your teamwork or technical skills or you just have a passion for beer or kombucha brewing, there is a spot for you in our team. Our team is made up of both undergraduate and postgraduate students from a variety of faculties and specialisations. Find us on Facebook, Instagram or LinkedIn where recruitment rounds will be announced. Alternatively, look out for us at O-week and at student expos where you can talk to one of our team members for more information.



# MONASH UNMANNED AERIAL SYSTEMS

## UAS

### Who are we?

Monash Unmanned Aerial Systems, also known as Monash UAS, is a student-run team established in 2011. We are a group of passionate multidisciplinary students from Monash working together to complete various UAV challenges and giving back to the community through various workshops and events.

### What do we do?

The team designs, builds, and operates fixed-wing and multi-rotor autonomous unmanned aerial vehicles to compete in the biennial International UAV Challenge. Currently, the team is working towards the 2021 Medical Rescue Challenge. Beyond the UAV Challenges, we also create and run workshops and programs in an attempt to inspire the next generation of STEM students.

### What is our goal?

The UAV Challenges are aimed to promote the civilian use of UAVs and the development of low-cost systems that can be used for search and rescue missions. Through this, we can direct our passions and knowledge to create solutions that can positively impact the community.

### How can you get involved?

Check out our Facebook page for progress updates of our team and information on our recruitment opportunities. We run annual recruitment periods and welcome Monash students from all disciplines and specialisations



# YOUNG MEDTECH INNOVATORS

## MYMI

### Who are we?

We are an interdisciplinary organisation dedicated to achieving positive impact through medical technology, healthcare and biomedical innovation, by bringing about collaboration between undergraduates, graduates, PhDs and Early Career Researchers (ECRs) regardless of home institution, discipline, creed or experience.

### What do we do?

We turn ideas, into projects, into medtech startups that have real world healthcare implications. We bring together faculties such as Law, Arts, Commerce, and IT into the Medtech space in events such as our Symposium and our flagship hackathon event MedHack.

Through our work, we:

- Build and provide a clear pipeline and network for young people to enact positive systemic change
- Focus on facilitating and sparking interdisciplinary projects in healthcare
- Improve access to new and essential medical and healthcare technology through sustainable practices

### What is our goal?

Our vision is to engage and connect young visionaries to academia and industry through strengthening partnerships in all sectors of medical technology, healthcare and biomedical innovation.

Our primary goal is to be the epicentre for medical technology, healthcare and biomedical innovation.

### How can you get involved?

We are always on the lookout for people who are passionate about medtech. Regardless of which faculty you come from, there is always space for you. To join our team, follow on Facebook, Instagram, Twitter or LinkedIn to stay up to date on when we are recruiting.

Otherwise, if you have a groundbreaking project idea that's bursting to come to life, feel free to email us via the link below to have a chat with us.



# MONASH SOLAR DECATHLON TEAM

## MSDT

### Who are we?

Monash Solar Decathlon Team or MSDT is a multidisciplinary team of visionary students that design highly efficient net-zero buildings and housing. We also have a group of dedicated faculty advisors and partners to assist us in our endeavours.

### What do we do?

MSDT competes in the annual US Department of Energy Solar Decathlon Design Challenge to design net-zero buildings. Within this competition, there are multiple divisions or types of establishments. In last year's 2019/2020 competition, we competed in the Suburban Single-Family, Attached Housing and Mixed-Use Multifamily Divisions of which we reached the finals in all three divisions with the Suburban Single-Family being the winner of their division. We have now just entered the 2020/2021 competition where we are competing in the Urban SingleFamily, Attached Housing and Elementary School divisions.



### What is our goal?

With climate change, building a future with net zero carbon emissions is essential. Buildings consume about 19% of Australia's energy usage and we can make a large impact by incorporating net-zero buildings into our society. We aim to show that building a net zero building can be feasible, not only from an engineering perspective but also a financial perspective, in both residential and commercial establishments. Going above and beyond, we also want to incorporate designs that give back to the community as shown by the narratives of our divisions. Our Elementary School division is designing an experience focused and inclusive school able to cater for students with special needs. Our Attached Housing division is partnering with Kara House to design a safe housing complex for women and children that have undergone family violence. Lastly, our Urban Single-Family division is designing an adaptable home that a family can grow into, all with mobility needs in mind.

### How can you get involved?

We welcome passionate students from every level of study, whether it be undergraduate or postgraduate, from any engineering stream and even any faculty. If you want to learn more about us or are interested in recruitment, stay updated by following our socials and website:



# MONASH FUEL FROM WASTE

### Who are we?

Monash Fuel from Waste is a student-led team founded in 2019, with the vision to create a more sustainable campus by converting food waste into biodiesel using biological and chemical processes.

### What do we do?

Using oleaginous yeast, we aim to use carbohydrate heavy waste from food vendors from around campus to generate lipids. From this, we produce biodiesel, which will then be used to fuel various vehicles around the Clayton campus. As opposed to traditional business models that endlessly consume resources we aim to build towards a circular economy by recycling waste. As a team, we wish to optimise and investigate the processes required to create biodiesel, by conducting experiments in our lab located in the Chemical Engineering Building at 16 Alliance Lane.



### What is our goal?

Our goal is to sustainably generate biodiesel via biological processes from food waste. We hope to one day be able to supply fuel to the support vehicles around Clayton campus that run on diesel engines. Furthermore, we hope to promote the idea of a circular economy and encourage others to consider making using waste as a starting material.

### How can you get involved?

To get involved please reach out to us via our website or Facebook page. We are always the lookout for passionate new team members!



# ROBOGALS MONASH

## Who are we?

Robogals Monash is a not-for-profit, student-run organisation that aims to inspire and encourage young women to pursue STEM career opportunities. At Robogals Monash we advocate for gender equality in STEM. We aim to achieve this by running interactive robotics workshops for students at primary schools, high schools and local libraries across Victoria.

## What do we do?

Robotics workshops will typically run multiple times each week at different locations throughout the year, so you can sign up to workshops that suit your schedule. There will be opportunities to be a workshop demonstrator, and later on, a lead volunteer. Furthermore, there are many networking opportunities with our partner companies such as industry events. On top of all that, we run heaps of social events and activities including games night and an outreach camp! We even have massive events such as Engage Engineer where we team up with other student teams to teach over 200 high school students about Engineering!

## What is our goal?

In 2021, you can:

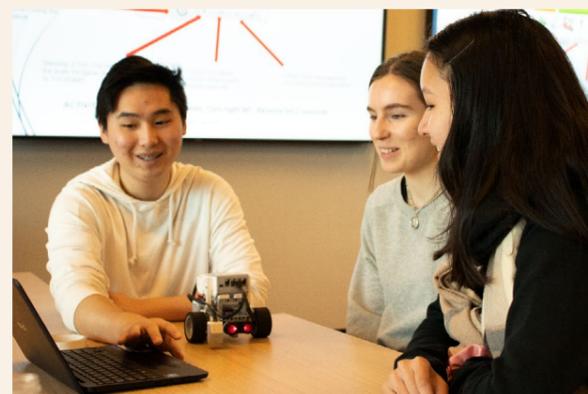
**Volunteer:** Weekly opportunities to be a demonstrator at robotics workshops.

**Network:** Attend engineering industry and mentorship events with our partner companies.

**Socialise:** Get to know like-minded volunteers across all degrees and make friends at Robogals Monash social events!

## How can you get involved?

For updates and information on how you can get involved, like our Facebook page to find out when our next training sessions are. Training sessions are a great way to discover more about our robotics workshops and start volunteering!



“

IF YOU'RE  
OFFERED A SEAT  
ON A ROCKET  
SHIP, DON'T  
ASK WHAT SEAT.  
JUST GET ON!

- SHERYL SANDBERG

# MONASH INDUSTRY TEAM INITIATIVE

## MITI

### What is MITI?

The Monash Industry Team Initiative (MITI) partners multidisciplinary student teams from Monash University with leading Australian and global industry partners. Students collaborate and design innovative solutions to real issues in today's business world.

The Monash Industry Team Initiative (MITI) program offers you a unique opportunity to gain professional experience in a unique learning environment. This team based initiative will partner you with a leading industry host where you will be tasked with solving a real-world business problem. Placed in a contemporary business environment the experience will expose you to a practical and very different way of learning with students that study in different disciplines.

### How does it work?

Students are competitively selected from a range of study fields to form a multidisciplinary team, rather than participate as single interns. The teams range from 2-4 in size.

### What are the types of projects/opportunities available to students?

The projects generally run for 12 weeks over the summer break and are full time. Participating industry partners have a specific project which students will begin and complete within the 12 weeks.

Various MITI projects outcomes can be found here: 

### What are the benefits of the programme?

Students are able to utilise skills learnt from their study and understand how they are transferred to real working situations. Organisations can range from not for profit to private companies, and students will be also introduced to soft skills that are used in a working environment. This is also a platform for students to create professional networks in industry.

### How can students get involved?

**Applications for the MITI program are welcome from penultimate and subsequent year undergraduates, Masters and PhD students who meet the following criteria:**

- Be an Australian or New Zealand citizen, holder of an Australian permanent resident or permanent humanitarian visa, or an international student

#### As a minimum requirement:

- Be enrolled as a full-time Monash student completing an undergraduate degree and has commenced their penultimate year of study, that is you must be currently studying in at least your second year of a three year undergraduate degree. If completing a four year undergraduate degree, then your third year is your penultimate year.

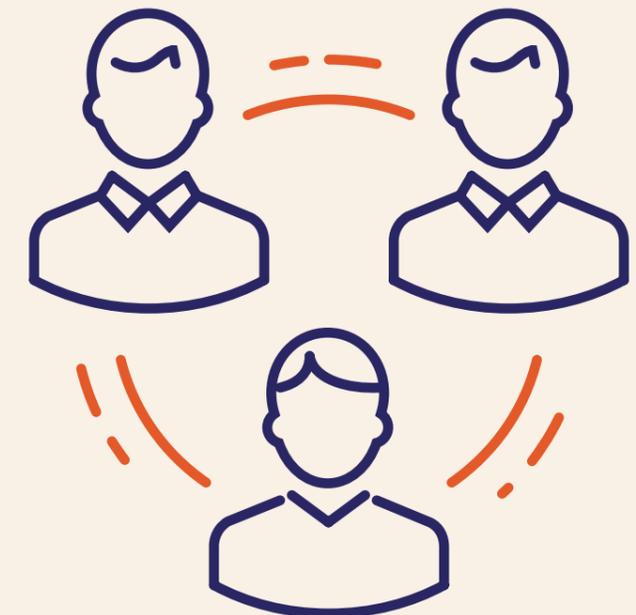
#### OR

- Be enrolled as a full-time Monash student completing a postgraduate qualification (coursework or research) at Masters or PhD level
- All applicants must have a credit average or above in their studies

**For all graduate research (PhD) students, prior discussion with your current supervisor is advised to ensure there are no issues with workload and any existing scholarship arrangements are not affected.**

As a MITI team member you will be offered a scholarship to assist with living expenses for the duration of the project. All scholarships are administered by the Coursework Scholarship Unit, Monash, Clayton campus.

The relevant information can be found at our website:



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SCIENCE CAN  
AMUSE AND  
FASCINATE US  
ALL, BUT IT IS  
ENGINEERING  
THAT CHANGES  
THE WORLD

- ISAAC ASIMOV

## MONASH TALENT

Find work that's worth it

Whether you're looking for a job right now, or just want to get ahead in your job search, Monash Talent is here to help!

### WHAT IS MONASH TALENT?

Monash Talent is a free, easy to use employment service for Monash University students and graduates. The dedicated team of graduate recruitment experts are here to increase your chances of finding work that's related to what you studied.

### HOW CAN MONASH TALENT HELP?

Our team of industry engagement specialists search high and low for exciting and meaningful graduate and student opportunities.

Our team is committed to finding the right role for you. We offer a streamlined process with one-on-one support from start to finish. We're also here for you during those first 3-6 months of your new job.

Let us be the direct link to a range of employers from different industries who are looking to hire job-ready candidates just like you!

### BENEFITS FOR STUDENTS

- A range of part-time, full-time, permanent, or project opportunities.
- Roles for domestic and international students.
- Relevant job opportunities directly to you via email or phone.
- Application and recruitment support, tailored interview advice, and post-commencement check-ins.

### HOW DO I SIGN UP?

The registration process is quick and easy. Simply create a profile by entering your contact details, skills and qualification.

After that, applying for future jobs is just a few clicks away.

Registering allows one of our friendly team members to contact you regarding suitable roles.



### FIND OUT HOW MONASH TALENT HELP YOU LAUNCH YOUR CAREER

We have placed almost 200 students and graduates in a range of industries, including Science, IT, Marketing, Engineering, HR, Accounting, and many more! To learn more about how we can help you, register at [monash.edu/talent](http://monash.edu/talent).

### FOR MORE INFORMATION CONTACT THE TEAM

MONASH TALENT  
T: +61 9903 8222  
E: [monashtalent-graduates@monash.edu](mailto:monashtalent-graduates@monash.edu)

# UNDERGRADUATE LEADERSHIP PROGRAM

## ELP

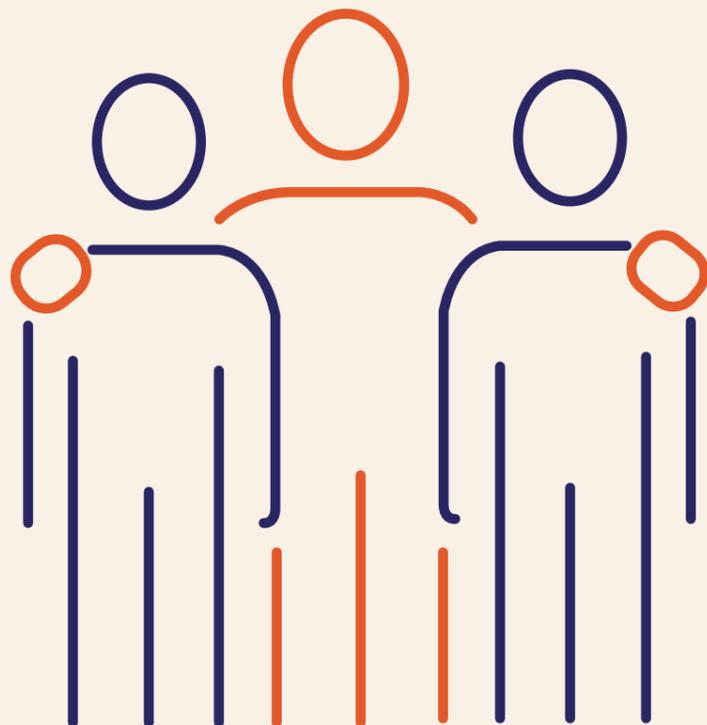
### ABOUT

The Monash Engineering Leadership Program is designed to transform students into future engineering leaders.

The two-year program is delivered by industry experts and focuses on all aspects of leadership. It provides a rare opportunity to network, acquire life skills and learn about leadership outside the formal classroom environment. Student intake occurs once a year in October through an open call for applications. The program is designed to challenge, develop and engage students to help them become confident and articulate and ready to work in industry.

The journey commences with Launch into Leadership, which is a two-day launch that provides the foundations of the program. Individual topic modules then focus on building participants' knowledge and experience. Students also have the opportunity to put their skills into practice by attending industry visits and Engineers Australia events. Attendance at the two-day launch, all modules, one industry visit and two Engineers Australia events is compulsory.

Applications for 2022 open on Thursday. You need to have at least a further 2 years of study to complete. **[More information here.](#)**



# MASTERS LEADERSHIP PROGRAM

## MMLP

### ABOUT

The MMELP offers a suite of workshops and seminars to help you develop and practice your employability and leadership skills.

Throughout the program, you will have the opportunity to develop workplace competencies, prepare for industry expectations and work with cultural differences in a global context.

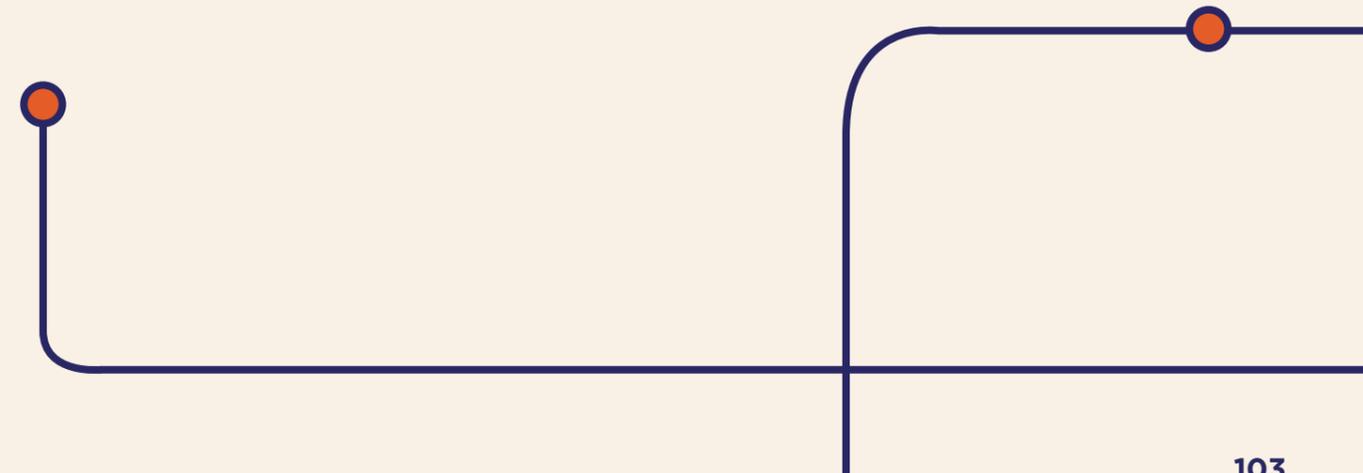
The program will include a number of bespoke activities including workshops on networking and communications, industry visits, an alumni panel, an introduction to Engineers Australia and more. In conjunction with this, we encourage you to take part in other professional development activities that are offered university-wide. More information on these activities can be found below.

If you are enrolled in the Master of Professional Engineering, you can count any hours associated with the MMELP towards your CPD.

Students are able to take part in the MMELP activities and events as they please. There are no entry requirements – you simply register for an event and show up!

However, it is important to note that students who meet the program's minimum attendance requirements will be rewarded with the opportunity to list the MMELP on their **[Australian Higher Education Graduation Statement \(AHEGS\)](#)**.

The AHEGS is a certificate you can include with job applications that will provide professional recognition of your participation in the program and give potential employers insight into your achievements.



# STUDYING ABROAD WITH ENGINEERING

Engineering is a highly sought-after global discipline that has a place in all countries around the world. That's why we've made it easier to take part of your studies overseas; 1 in 4 Monash students are taking the opportunity to study abroad for either a whole year, a full semester or on a short-term study program. Monash is partnered with 160+ universities in over 35 countries, and that list is continuing to grow every year. Not only will time abroad be an enriching cultural experience, but it is also an attractive addition to your resume. You'll be overcoming language barriers and meeting people of different cultures (communication), coordinating your flights, accommodation and classes (organisation) and managing budgets, adapting to life in a foreign country and obtaining a visa (self-management) - all highly sought after skills for potential employers.

## Where and When can you go?

If you're planning to undertake Engineering units abroad, you'll need to have completed 48 credit points of Engineering units and to be allocated your specialisation. As an Engineering student, you have a variety of exciting and specialised overseas options available to you. Check out the Monash Abroad website for more detailed information on our partners overseas. A very attractive option is the Global Intercampus Program to Monash Malaysia, as the process is streamlined and allows you to study abroad semester earlier than all other semester-length programs. Some other popular destinations for Engineering students to consider are:

- UK:** University of Nottingham, University of Sheffield, University of Liverpool, University of Warwick
- Asia:** Tsinghua University, Shanghai Jiao Tong University
- USA:** Clarkson University, University of Nebraska, Purdue University, University of Colorado Boulder
- Europe:** Technical University of Denmark (DTU), Royal Institute of Technology (KTH, Sweden), Luleå University of Technology, University of Twente, University of Navarra

There are some summer and winter programs also available to Engineering students - chat to Engineering at the Faculty

## What Funding is Available?

In 2021, all students undertaking a credit-bearing program through Monash Abroad will receive the Monash Abroad Travel Grant, plus complimentary travel insurance. Each funding band has its own eligibility, but for 2020 the amounts are:

	Band A Alliances, Campuses and Network Grants	Band B Semester Program Grant	Band C Prato Program Grant	Band D Short-term Program Grant
	\$2500	\$1250	\$1000	\$500
Program Type	University of Warwick, Monash South Africa, Monash Malaysia	A semester exchange or study abroad approved by Monash Abroad	A Monash Prato Program approved by your faculty	An overseas study program less than one semester in duration approved by your faculty

# MONASH ABROAD

**What are the next steps?**

1. Head to the Engineering Faculty Office to discuss your course progression, when in your degree would be best for your time abroad and what units you may be eligible to take abroad.
2. Chat with the Monash Abroad team at a Regional Advising Session – a compulsory session for all students undertaking semester-length exchange – throughout the semester. Information on how to book into a Regional Advising Session is available on our website or through Google.
3. Peruse our 'partners' page to find the university partners that suit you.
4. Register your application through MAP for a semester abroad by 30 April, 2020 for Semester 1, 2021 or 15 October, 2020 for Semester 2, 2021.

## MONASH MALAYSIA

Monash Malaysia, our campus in the tropics, is a quick, easy and financially attractive destination for Engineering students. Monash Malaysia's School of Engineering consistently falls within the **top 100 of subject rankings**, and is the highest ranked program in Malaysia. The Global Intercampus Program will get you there – as long as you've met the eligibility criteria, there are unlimited places on this program, along with our largest package of funding for any program. All students eligible for Global Intercampus Program in Monash Malaysia will receive a **\$2500 grant, free accommodation** and a free student visa, amongst other great perks (excluding Malaysian citizens and NCP recipients).

Core units from most specialisations are on offer, so you can continue your course progression as if you were still studying at Clayton. Class sizes are smaller, offering more **one-on-one interaction** with some of the leading experts in each Engineering field. In addition, there are many Malaysia-specific Engineering electives on offer, including:

Specialisation	Malaysia Specific Units
Engineering - General	ENG2801 - Leadership and Innovation ENG6009 - Communicating research in engineering
Electrical and Computer Systems Engineering	ECE4032 - Advanced Control ECE4075 - Real time embedded systems ECE4808 - Organic electronics and micro devices
Civil Engineering	CIV5801 - Green Building
Mechanical Engineering	MEC4416 - Momentum, energy & mass transport in engineering MEC4417 - Refrigeration and air conditioning MEC4418 - Control systems MEC4801 - Non-Destructive testing and inspection MEC4802 - Sustainable engineering and design with nanomaterials MEC4803 - Internal combustion engines MEC4804 - Clean energy materials MEC5886 - Sustainable energy technologies MEC5887 - Environmental and air pollution control
Mechatronics Engineering	TRC4901 - Artificial intelligence for engineers TRC4200 - Engineering cyber-physical systems

## TROPICS EXCHANGE CHALLENGE

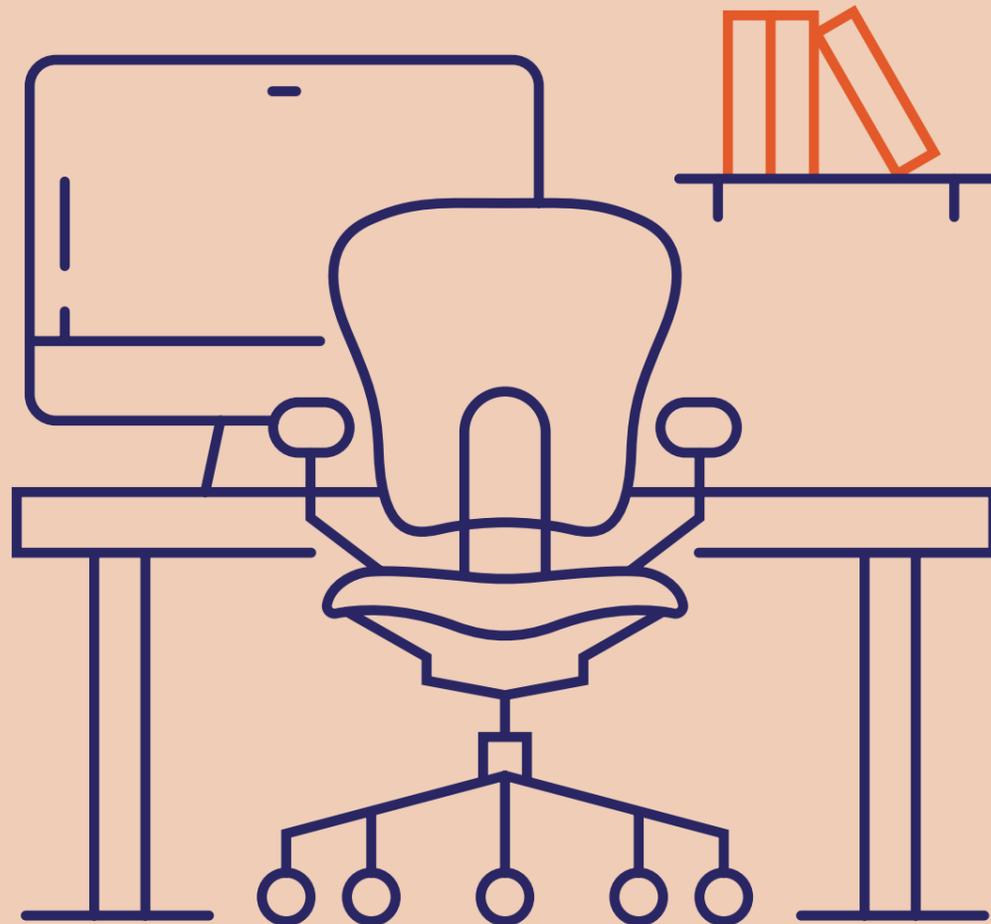
The E-TEC (Engineering – Tropical Exchange Challenge) program was launched in 2019. This prestigious program offers Engineering students a semester of fully credited coursework at the Monash Malaysia campus followed by a 10 day New Colombo Plan-funded enrichment module, including industry networking, specialisation-specific projects and a 3 day Orang Asli village trip to assist in house building and partaking in village life. In 2021, those eligible for the New Colombo Plan grant will receive \$5500 in additional funding for the duration of the program.

Limited places will be available for students in Semester 2, 2021. In future iterations, E-TEC will offer students a 6-month industry internship with some of Malaysia's finest Engineering companies across many specialisations. To find out more, contact Danette Deriane (dannette.deriane@monash.edu) at the Engineering Faculty Office.



# GETTING THAT JOB

109	Career Planning
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114	Assessments
121	Examples



## CAREER PLANNING

Planning your career is not a one-off activity that you can leave until the end of your course. It is a process involving a series of steps that you have already been doing as part of your education and will be doing all your life.

**For example, the decision to apply for your current course is one significant career decision you have already made.**

Within your current course, you have probably also been making choices about:

- Your major study sequence, specialisations and electives
- Searching for and gaining industry placements
- Whether to change courses
- Considering postgraduate options
- Applying for graduate positions
- Obtaining a summer holiday work placement
- Attending employment fairs and talking with employers

### Your Place in the World of Work

In the future, it's likely you'll be making many further career decisions as you navigate your way through a changing labour market. The world of work that is emerging is a dynamic place where the relationship between the labour market, organisations and individuals involves dealing with change. In this environment it makes sense to think about your career as consisting of many transition points over a long time span. During that time you're likely to be working in many different activities, jobs, organisations, industries and regions.

- \* Learning how to make effective career decisions is crucial. Developing your skills and confidence in taking charge of your own career will help you adapt to change and to take advantage of new career opportunities as they arise.



# APPLYING FOR JOBS

All jobs have selection criteria to which you must respond when applying for a job. Selection criteria are standards that job applicants need to meet to be appointed. Examples include qualifications, knowledge, skills, abilities and experience. The selection criteria may appear in advertisements, position descriptions or duty statements.

**An example of a selection criterion is: 'the appointee will need to have excellent research and analytical skills and be able to work under pressure to meet deadlines.'**

## How Employers Choose Candidates

Some employers do not use the specific label of selection criteria, but remember all jobs do have selection criteria. You may need to analyse the job ad to find what the employer is looking for in candidates – for example, if the role involves dealing with clients, it implies the need for interpersonal and customer service skills.

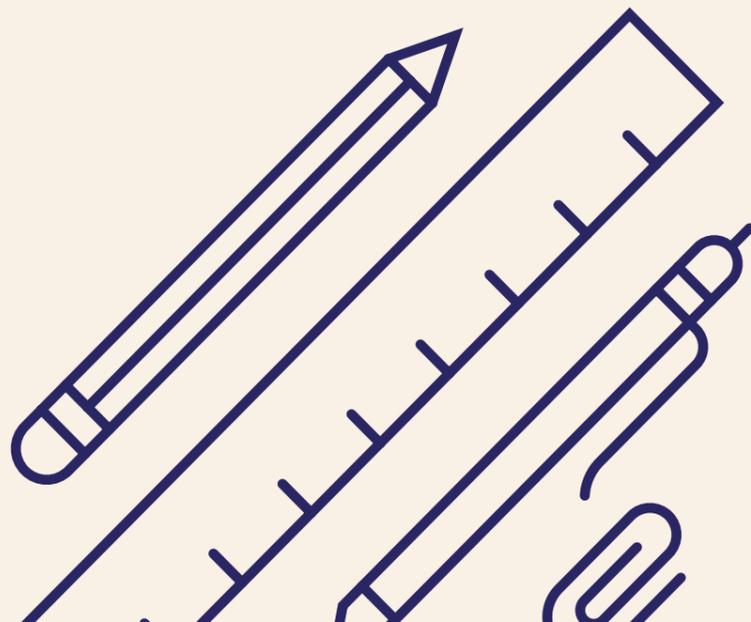
Depending on what the employer requests in the advertisement, you will **address selection criteria in all of these formats:**

**Cover letter:** should have a couple of paragraphs summarising the requested skills you bring to the position and outlining your motivation to contribute to the goals of the organisation

**Resume:** as well as your work history, training and qualifications, your resume needs to address the various skills you have which are well suited to, and displayed when completing, the relevant tasks and roles of the job.

**Response to key selection criteria:** this is a document where you respond to each selection criterion exactly as written; common in all jobs when a Position Description is provided

**Employer application form (online or in downloadable format):** there may be behavioural or scenario questions relating to the selection criteria, which you respond to in turn. To gain further in-depth information, visit the Monash Career Connect "How to Job Application" workshop, via the button below.



## What are employers looking for?

The most important criteria according to the Graduate Outlook Survey by Graduate Careers Australia (GCA), aside from relevant qualifications is:

### TOP THREE

1. Communication skills (written and verbal)
2. Teamwork skills
3. Interpersonal skills

### FOLLOWED BY:

- Resilience
- Planning and organisational skills
- Emotional intelligence (including self-awareness, strength of character, confidence, motivation)
- Self-management skills
- Understanding of the employer/organisation
- Initiative and enterprising skills
- Leadership skills
- Commercial awareness
- University grades
- Technology skills
- Relevant work experience

Conversely, the **top three skills** that employers report **graduates as lacking** are:

1. Understanding of the employer/organisation
2. Commercial awareness
3. Resilience

When applying for jobs, these are the key factors which you should be considering when putting together your application. Every employer will be a bit different, so it is important that you read the position description and job advertisement thoroughly to clearly capture what the employer is looking for in your application.

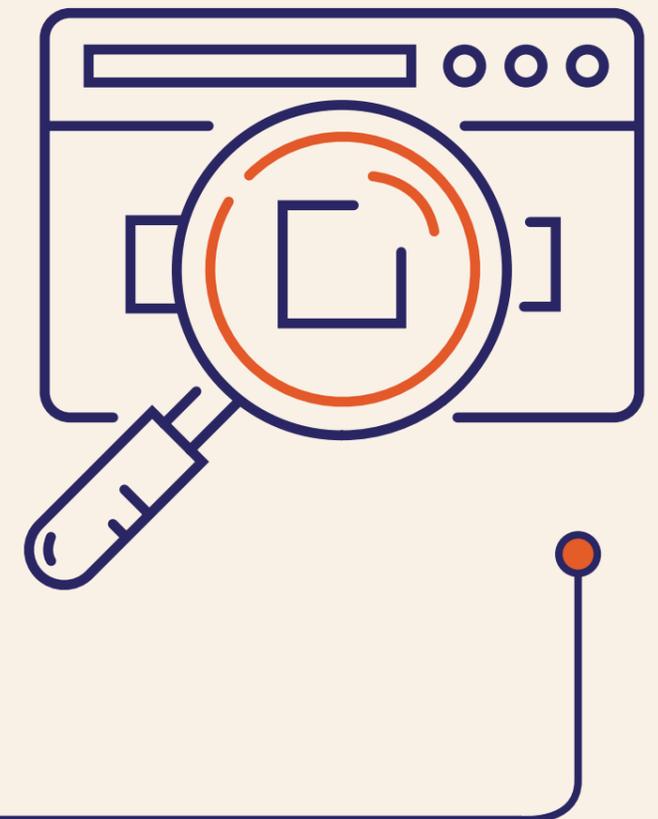
## Where To Start - Major Jobs Listing Sites

### Employer Websites

If you're looking for information about an employer, your best option is to go direct. A company's website can give you valuable information about their values and culture - information that helps you stand out from the crowd.

### Friends or Family

Never underestimate the power of 'Word of Mouth' and networking. Just from making connections, you can get your name noticed when you hand in that application.



## PREPARING YOUR APPLICATION

Every application should be unique and relevant! Applying shouldn't take long if you have prepared for it well.

### 1. Understand the job & What is required of it

- What skills and attributes is the employer seeking?
- What information will you need to supply in the application process?
- Do they want a separate response to key selection criteria?
- Do you need supporting documentation? (Passport, academic transcript...)
- Is there a contact person you can call to clarify the position?
- Do you have enough time to complete the application well?

### 2. Research the Company and the Role

- Use the "About Us" tab in the company's website to check their mission and vision and see their values and goals.
- Read industry based journals and read about recent innovations involving the company
- Speak with people you know who work in the industry
- Observe and mirror the language the company uses in their advertisement - use the same key words. Eg if you normally say 'teamwork' but in the application they use 'team player', change your resume to 'team player'.

### 3. Carefully Answer All Questions

- Respond to every question and double check that you have followed all the instructions
- Complete all additional questions to explain your interests, abilities and career goals
- Use STAR technique to provide specific examples that demonstrate your skills
- If you are asked to take an online psychometric or skills-based test make sure you are relaxed and prepared before you start, and have undertaken practice tests if possible. Psychometric tests advise the hiring manager if you are capable of performing a specific task.

### 4. Submit your Application

- Job websites often have an 'Apply now' link that may require you to register.
- Always type your responses in a Word document and transfer the information into the database. This allows you to spell check and save the information.
- Comply strictly with word/character limits (you can check with Word's Word Count tool in 'review' tab).
- Keep a copy of each from, you may need to revisit the information before the interview.
- Make sure you have included relevant attachments before submitting

### 5. Ways to Submit your Application

- **Email:** attach relevant right documents (resume, cover letter, etc) as PDF if possible to keep formatting consistent. Write an introduction for the body of the email and put the job title in the subject line.
- **Forms:** this requires that you complete a series of forms and upload required documents in an online portal.
- **Database:** online application process that captures your skills and experience to do the job through your answers. You may also be asked to upload supporting documents. This is common in Graduate Programs.

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WE ARE  
CONTINUALLY  
FACED BY GREAT  
OPPORTUNITIES  
BRILLIANTLY  
DISGUISED AS  
INSOLUBLE  
PROBLEMS

- LEE IACOCCA

# ASSESSMENTS

## Interview Techniques

Employers often use an interview as the final part of the selection process. As employers are looking for employees with the skills and attitude that match the key selection criteria of the position and the organisation's culture, they are trying to ascertain the following from the interview:

- **Do you have the qualifications, skills and experiences?**
- **Do you have the right attitude and are you enthusiastic about the position and the organisation?**
- **Do you fit within the organisation's culture, workplace environment and team?**

## Preparation

### Know yourself:

Why is working in the Engineering industry important to you? What skills and qualities have you learnt or enhanced from your qualifications and experiences?

### Know the organisation:

Scrutinise the job advertisement and the company's website, paying particular attention to the key selection criteria, upcoming projects, the organisation's culture and values. Increase your knowledge of the Engineering industry by speaking to people in the industry (Engineers Australia, APESMA).

### Improve your interview technique:

By attending a Careers Connect workshop. You can also role play with a friend.



### Ensure you know all the important details of the interview:

Time, date address, format and style and whether you need to present a professional portfolio.

## At the Interview

### Make the best impression from the beginning:

Punctuality and presentation are key. Greet the interviewer politely and pay them all your attention.

### Ensure you are engaged:

Use good eye contact, open body language and avoid nervous signs that may show uncertainty (eg. foot tapping).

### When responding to questions make sure you:

Actively listen to the whole question, speak clearly, answer honestly and use examples of experiences when you can portray your skills and qualities.

### Finish off positively:

Inquire about the next step in the process, reiterate your interest in the position and thank the interviewer for the opportunity to meet. You may also seek feedback once a decision has been made.



## Types of Questions

### Ice breaker questions:

- "Tell me about yourself?" to help develop the rapport.

### Expanding information on your resume:

- "It says on your resume that you have experience in X. Tell us some more."

### You may be asked questions about your academic background:

- "Tell me about your university studies."
- "Why did you decide to study X?"
- "How it relates to the job you have applied for."

### They may also check your career goals match the job you are applying for:

- "Why did you choose this career?"
- "How do you stay knowledgeable about the industry?"

### You could be asked about your knowledge of the organisation:

- "Why do you want to work for us?"

### When answering direct questions regarding your qualities and skills such as:

- "What are your strengths/weaknesses?"

Pick a weakness that you have corrected and show your ability to overcome the problem, but make sure it does not impact on your ability to complete the job.

### An employer might be interested in your technical knowledge:

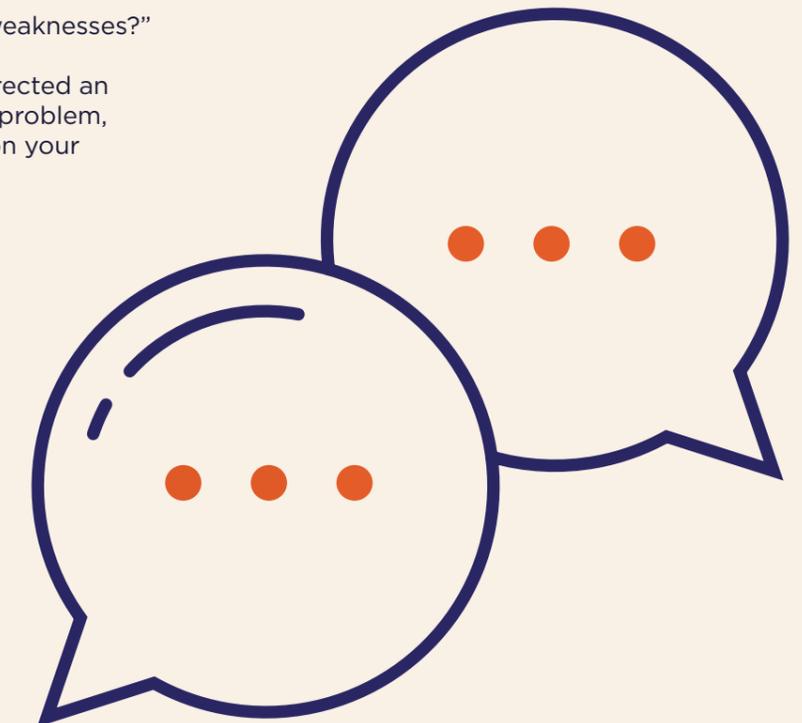
- "What are some of the professional boundaries that you might need to negotiate?"
- "What standards do you need to be aware of in this role?"
- "How do you keep your knowledge of the standards up to date?"

### Hypothetical questions evaluate your problem solving skills:

- "How would you deal with a difficult stakeholder?"
- "What do you think would be the result?"

### Behavioural questions are popular because employers believe past behaviour is a good indicator of future behaviour. You are expected to use specific examples from your experience:

- "Describe a recent work or study related problem. Tell me about the action you took to solve the problem. What was the outcome?"



## ASSESSMENT CENTRES

Some employers use structured activities for recruiting staff. They are designed to test whether you meet the selection criteria of the job.

### Types of Activities

Assessment centers can include interviews, short presentations, psychometric tests, individual and group activities. They usually run from half to two full days.

Group activities are used to see your behaviour in teamwork situations. Groups are usually of 6-10 applicants with a trained facilitator. Activities are often timed and can include:

- Discussion on a set topic. This may involve reaching a consensus
- Developing a solution to a problem. May involve role play
- Physical tasks (e.g. make a tower out of paper)
- Presentations

To add complexity to the problem you are often given incomplete or conflicting information. Alternatively, you may be given a large amount of information, too much to be completely analysed in the time given. Employers will usually let you know if you can ask them for additional assistance.



### Psychometric Testing

Employers often test graduate job applicants during the selection process. These tests are believed to offer greater objectivity, reliability and validity than interviews. Employers use a range of psychometric tests to assess personality, behavioural style, ability or aptitude.

#### Ability or Aptitude Tests

These tests measure your potential to do certain types of tasks. They rely on your natural ability or aptitude rather than knowledge or experience. Ability tests are usually timed. There are several types:

- Verbal reasoning - How well you analyse written information
- Abstract reasoning - How well you analyse a problem presented visually
- Perceptual ability - your ability with diagrams and pictures
- Numerical reasoning - How well you interpret numerical and statistical information
- Spatial ability - your ability with plans and 3D shapes
- Mechanical ability - Knowing how things work and fit together

#### Personality Tests

These are designed to give a picture of how you will behave in certain situations, such as the way you approach and solve problems. Although employers will probably have an ideal profile in mind, this is not usually made public and is difficult to guess. These tests are not usually timed.

## ONLINE APPLICATIONS

Employers are increasingly using electronic applications for graduate positions as they provide the flexibility of storing and comparing large amounts of information about candidates in an effective manner. Electronic applications usually contain a cover letter, a resume and the applicant's responses to questions based on the company's selection criteria.

### Electronic Applications

Electronic application forms are used by employers to assist with ranking candidates by comparing them transparently against the selection criteria and other applicants. Due to the importance that employers place on the information they collect via the online application forms, it is vital that graduates take their time to practice their responses before submitting them.

The best way to do this is to print off copies of the questions and then go through the process of writing and refining your responses electronically in a concise and systematic manner. A final check of your responses should be made prior to submitting via the application form to ensure no spelling or grammatical errors.

The information about a candidate that an electronic application form seeks to gather can usually be grouped into the following categories:

#### General Information

Contains questions about your personal details like name and address. The information provided needs to be current or valid for the whole application process.

#### Skills, Abilities and Personal Attributes

Companies are looking to elicit responses that require you to use specific examples from your experiences to demonstrate how you meet their needs. That is to show that you understand the question and can think of an example of a situation where you demonstrated the skill, ability or personal attribute.

- "Describe a situation where you used your organisational skills"
- "Discuss a time when you took on a leadership role."

#### Goals and Career Objectives

These questions are designed to find out whether you have considered your career pathway within the organisation you are applying to. You should demonstrate your interest and commitment to the industry area and also the reasons that you applied for the post.

- "Describe what interests you about a career as an engineer."
- "Why are you interested in joining our graduate program?"

#### Extra-curricular and Other Experiences

Employers are interested in more than just your academic or technical skills. Have you demonstrated your skills and abilities in other ways? The theory behind this is 'any experience is a good experience'.

- "Describe your greatest achievement outside of your work and studies."
- "List your non-academic leisure activities including level of involvement."



# SOCIAL MEDIA

## 1. Personal Branding and Self Awareness

In the increasingly connected and fast-paced job seeking environment self-awareness has become even more critical. An essential component of employability is building, differentiating and protecting your personal brand.

Everyone has a personal brand, whether they are aware of it or not and it is important for you to define yourself or recruiters will define you based on evidence you may not wholly control. To be able to express your personal brand it is important that you spend time reviewing how recruiters perceive you and what your core goals are.

If you don't know what your personal brand says about you then it is hard to persuade others to have faith in your brand. You need to be aware of your strengths and weaknesses so you can promote your strengths and overcome areas for development.

## 3. Market your Personal brand

Through use of marketing tools - both active and passive you can ensure you always have a presence in your employment search.

**Active Tools:** resumes and cover letters that support and define your brand and tell your personal story are critical. Highlighting your employability skills with evidence to back up your skills claims is essential. Having an 'elevator pitch' where you can quickly summarise yourself and your top selling points is also important. See details at the Employment and Career Development web page [careers.monash.edu](http://careers.monash.edu)

**Passive Tools:** your Internet presence is now often used by recruiters to find out more about you. You can work on these to improve your Internet footprint and ensure when someone searches for you on Google the information they find adds to your brand and doesn't detract from it.

## 2. Develop your Personal Brand

In the increasingly connected and fast paced job seeking clarity of "personal brand" encompasses self-awareness as well as goal and outcome awareness.

Define your aims and reflect on what you want from your interactions with your professional networks; ensure that you are authentic in these interactions - what are you passionate about, what drives you? If you find this difficult ask your friends or relatives or take a self-assessment test like those on [myfuture.edu.au](http://myfuture.edu.au).

### Skills analysis

In order to explain your skills you need to be able to give evidence of what skills you can be sure you have and wish to promote. A central part of this is finding the evidence that shows you have previously developed or demonstrated this skill. Specific examples with results statements are important!

Look at Employment and Career Development leaflets on Employability Skills online at [careers.monash.edu](http://careers.monash.edu) to develop these further, or also investigate the Leap Into Leadership Module regarding Personal Brand at this link: [🌐](#)

## 4. Internet Profile

Almost all people have some Internet presence, be it only on Facebook, and so will return results from a Google search. Increasingly in the recruitment process internet searches by recruiters are becoming routine to gain more information about candidates and this informs what recruiters believe about your personal brand.

Authenticity is very important in creating your online profile, building an online brand which aligns with your genuine interests. Don't ask questions on forums where you are not interested in the answers, don't be too scattered in your approach. Consistency of interest, for example a Twitter feed consisting of up to date information in a particular area is very useful in order to show your ongoing commitment to your field.

## f Facebook

It is obvious but always worth repeating, be careful of your search visibility, remember you can un-tag from photos, and remove posts that are undesirable. Check your fan groups and be aware of what they say about you. Limit the access of your professional contacts do set up lists within Facebook for specific access.

Many corporations have a presence on Facebook and announce when their graduate program/vacation recruitment starts, so it is good to 'Like' their page. Mentoring schemes like Willing and Able mentoring for students with disabilities now use Facebook as a major communications tool.

## 🐦 Twitter

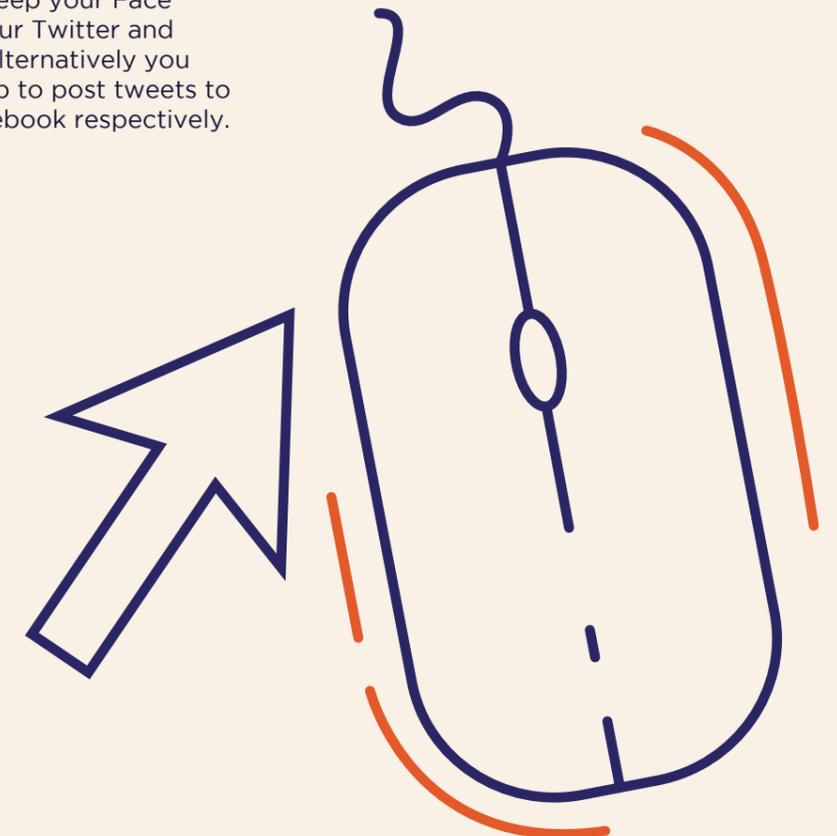
Sharing links of interesting articles and resources that relate to your professional area is a great way to look up to date to recruiters. However, Twitter is the most open of any of the social media sites so do be careful what you post.

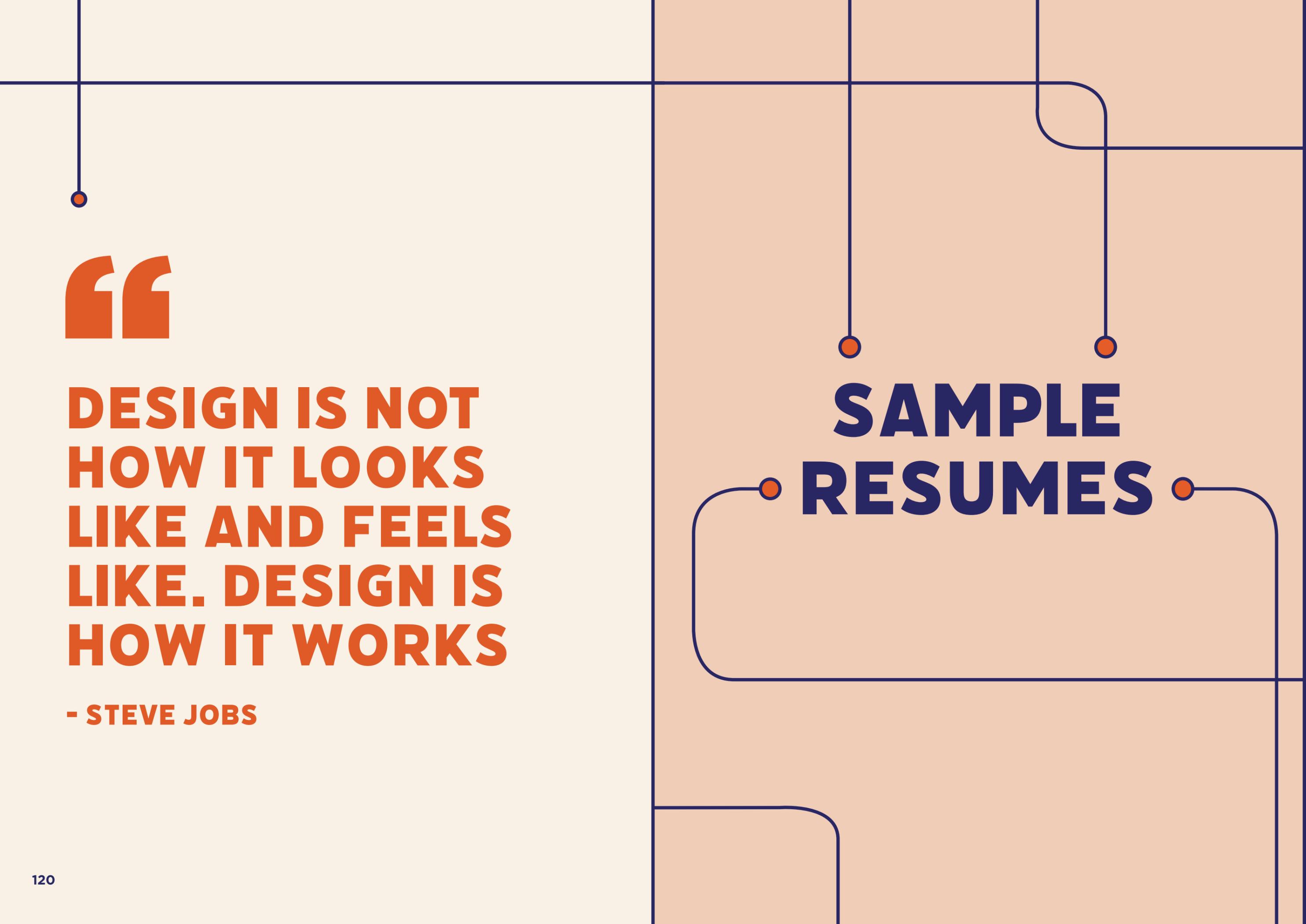
Consider whether you wish your twitter profile to be linked to your Facebook account or your LinkedIn account. You can keep your Facebook personal by making your Twitter and LinkedIn professional only; alternatively you can use hashtags #in and #fb to post tweets to your LinkedIn profile or Facebook respectively.

## in LinkedIn

You should view your profile on LinkedIn as an online resume and follow all the conventions of a normal resume when you enter details about your education and previous employment - see Career Connect's 'Writing a Resume' leaflet for more details. Make connections with people you genuinely know. If you don't know them well enough to contact them, then consider not making them a connection. Book into a LinkedIn workshop at Career Connect to find out how to build your profile and use LinkedIn for networking.

Join professional associations relating to your field of interest and add to forums and reply to questions to raise your profile. You can also build your profile by doing this on question and answer sites such as Quora, Vark and StackOverflow.





“

**DESIGN IS NOT  
HOW IT LOOKS  
LIKE AND FEELS  
LIKE. DESIGN IS  
HOW IT WORKS**

**- STEVE JOBS**

**SAMPLE  
RESUMES**

# CHARLOTTE WILLIAMS

Mechatronics Engineering student with a passion for enriching the communities around them. I aspire to use my driven attitude and technical skills in my future career and discover how I can best contribute to the world around me.

## Education

### Bachelor of Engineering, Mechatronics Engineering Monash University (2018-2021)

Maintained Distinction average (70+)  
Minor in Chemistry  
Victorian Certificate of Education | High School (2012-2017)  
ATAR: 96.35

## Experience

### Engineer Intern

*Robots & Co: December 2019-January 2020*

- Responsibility 1
- Skill developed.
- Assist in the maintenance of records, tracking of files (both physical and computerised).
- Provide the director, architects and engineers with support by assisting with their roles.

### Business Division Lead

*Monash 'Automation' Student Team: 2019-Present*

- Management of a small team that which obtains sponsors and interact with external partners.
- Drafting of sponsorship prospectus, setting of feasible goals.
- Creating training document for new division recruits.

### Industry director (2019/20) and Major events coordinator (2018/19)

*Monash University Students' Society*

- Society leader of the Industry Portfolio and Sponsorship Acquisition team
- Responsible for the management of high performing students executing society objectives
- Refining negotiating and rapport building skills with professional clientele
- Comfortable decision maker within an executive environment
- Arranged the major social events for the largest society in Monash University
- Networked with event professionals such as venues owners, photographers and DJs to build fruitful and positive business relationships
- Acquired skills for creating unique experiences for event patrons, i.e. creative problem solving and catering for diverse audiences
- Winner of the Clubs & Societies, Social Event of the Year 2019

**A:** Include contact details: phone and email. Double check no digits are wrong.

**A:** Great to have an introductory paragraph. This one is quite general - would recommend highlighting here if you have a passion area. For example adding "especially in the field of mining" **CC:** Include potential skills for the job and objective space. These skills should be specific or tailored to the job.

**A:** Great to have Education at the top with specific degree (majors and minors), WAM and dates.

**A:** Great to have work experience with most recent at the top.

**A:** I would recommend including any software packages that were used in the workplace. This can be appealing to some managers if they know they don't have to teach from scratch. For example, 'I used Revit to design...'. Or 'If learnt outside of the work environment could still include somewhere such as 'Basic Python programming skills'.

**A:** Good format including the name of the organisation, role and dates worked in a nice easy format, ensuring it is consistent throughout the resume. Bullet points are a good way to keep succinct points.

**CC:** When talking about smaller organisations, it is a good idea to have a 1-2 sentence blurb to provide context as to what they do.

**CC:** Here responsibilities and tasks are linked to a skill gained or achievement demonstrated. Tailor these skills to the job being applied for - every statement needs to a purpose and should highlight what you took from the role or task.

### Customer Sales and Service Consultant 2017-Present

*Telstra Retail Store, Southland*

- Assess customer needs and provide relevant solutions to achieve customer satisfaction while fulfilling sales targets
- Conduct introductory systems training for new staff
- 6-time store Sales Champion
- Average Net Promoter Score (Customer satisfaction score) of 9.1/10

### References provided upon request.

## Extra-Curricular/Volunteer Work

### The University of Worlds competition - Representing Australia (2020)

- Committed the past year to training three times a week, as well as committing additional time to attending competitions over the weekend.
- Appointed fundraising representative and was responsible for contacting potential sponsors and donors to support the team.
- Assisted with the preparation

### Open Day Ambassador Monash University (2019)

- Provide guidance to attendees of the Monash University Open Day
- Answered any general queries
- Directed attendees to relevant locations.

### Ask Me Ambassador Monash University (2018)

- Worked as a guide/informant for new students to enhance their university experience,
- Facilitated an increase in my knowledge about the university
- Met/communicated with a wide array of people

## Personal Attributes

- Fast learner
- Organised
- Logical thinker
- Compassionate
- Enthusiastic
- Eye for detail
- Articulate

## Additional Languages

- Fluent Spanish
- Intermediate French (A2)

**A:** Often candidates choose to leave off non industry work experience, but my advice would be to include this and talk about the specific skills that might be transferable (which they often are). Also highlight if this work is during uni time as it shows you can juggle study and work.

**A:** When writing the responsibilities/things achieved in each role I would suggest referring to the role the individual is applying for so they can ensure they're highlighting the most relevant thing to that particular position. Some things may be more important for some roles or organisations. For example, AECOM has a strong client/customer service focus given we are a consulting organisation so emphasising any client interaction or great client outcomes would stand out to us.

**CC:** For every statement made:

- Check whether it's relevant, does including this make your application stronger?
- For the 'deadlines' and 'ability to work under pressure', the student should then explain how these skills were demonstrated.
- If available, provide evidence, e.g. 'warm personality' could be supplemented by as 'indicated by 98% positive customer reviews'

**A:** As per this resume, in general I do suggest just having 'References on request' and not putting any details. Although organisations should know not to make contact prior to getting consent but it still removes the risk. For AECOM we don't get references for Graduates unless specifically requested by the hiring managers.

**A:** Understanding the organisation you are applying for will help with tailoring your resume appropriately. Understanding the values and purpose of the organisation can help with any extra information you add. For example, someone may have lots of different extracurricular activities. For AECOM we really value corporate social responsibility so highlighting the involvement with charitable work etc would be a positive. We also look for well-rounded individuals so showing involvement in societies such as being a president or vice president of a society shows a real commitment and we know lots of skills are learnt in this type of role. It is also quite a big workload to have alongside your study plus sometimes ongoing art time work.

**CC:** Link each role or involvement to what was gained from it, try to think of something gained that is relevant to the job in question. Good idea not to go overboard when describing small volunteer roles.

**CC:** This section is generally discouraged, instead I would recommend working in your various personal attributes into the professional summary or linking them with your past experience in order to substantiate them with evidence.

**CC:** This is an extremely valuable skill - put it in the first page during your professional summary!

# CHARLIE WILLIAMS

321 Example Street, Suburb 4321  
charlottewilliams@email.com

A highly motivated, responsible, and adept high school graduate looking to provide value to employer organization while gaining experience to develop personal skills. Principle objective is to work at a standard of excellence to earn a position in which to prove myself and grow.

**A:** Email and phone number are more important than postal address. People can be biased for all sorts of reasons – e.g. long commute.

**CC:** This section should be updated constantly to reflect your current status – even as a first year university student.

## Education

**CC:** Ensure chronological order.

2013-2017: Example Grammar School  
2019-Present: Bachelor of Commerce and Bachelor of Civil Engineering, Monash University

## Achievements

- Coach's Award and Best Team Player Awards in Hockey (2013-2018)
- Most Valuable Player Award in Basketball (2015)
- Monash Engineering Excellence Scholarship
- Year 12 House Captain

## Experience

**A:** If you have limited work experience it is definitely a good approach to add more detail to other areas such as this resume with key skills, achievements and could also add charitable work or involvement in sports etc.

### Senior School Musical Stage (2015-2018)

#### Service at Salvation Army:

- Volunteered fortnightly as an in-store customer service representative
- Collected the donations and assisted Senior School Musical Stage Crew (2015-2018)

### World Challenge Borneo (2017)

- Volunteered at a secondary school in India, and constructed an incinerator for the school
- Developed leadership, teamwork and communication skills, as well as gaining insight into the wider global community.

**CC:** By participating in something like this for three years, explain if any skills were gained. If the student has no paid experience, then these sorts of experiences should be elaborated on. Did the student demonstrate communication, professionalism, time management, use of technology, etc? And if so, how? Details are important if you don't have paid experience elaborate on areas that come closer.

### Junior Hockey and Basketball Coaching

\* Currently have had no paid employment history therefore determined to gain work experience.

**CC:** Never include this – let your skills speak for themselves.

## Key Skills

- **Friendly and approachable:** I thoroughly enjoy meeting new people and am always able to put a smile on my face while talking to people ensuring that they feel safer in a new environment.
- **Management:** able to complete tasks by the given deadline when instructions are clear. Comfortable with asking for confirmation if instructions are unclear.
- **Teamwork:** being friendly and open allows for teamwork to be highly efficient among team members.
- **Communication:** able to clearly and consistently communicate with people from all walks of life, ensuring that I listen, understand, and convey a coherent message.
- **Reflective:** able to take criticism on board, reflect upon it and improve issues. Even if criticism is not given, if I notice something is wrong, I have the initiative to be able to sort out the issue on my own.
- **Leadership:** successfully led as a House Captain in Year 12, in charge of 70+ members of the house. Throughout the time in the role, fundraisers were organised involving methods organized such as food days, or sausage sizzles.

**CC:** This area is fine to include if the student doesn't have any paid experience, however I would still recommend that the skills could be worked into the professional summary or past experiences.

## Interests

- Hockey and basketball
- Travel and culture
- Science and technology
- Health and fitness

**CC:** Ask if these have relevance before including them. If they're just filling space – not worth having them. Travel and culture, or health and fitness, is quite broad and whilst it's good to demonstrate you're well rounded, avoid these broad blanket statements.

## Referees

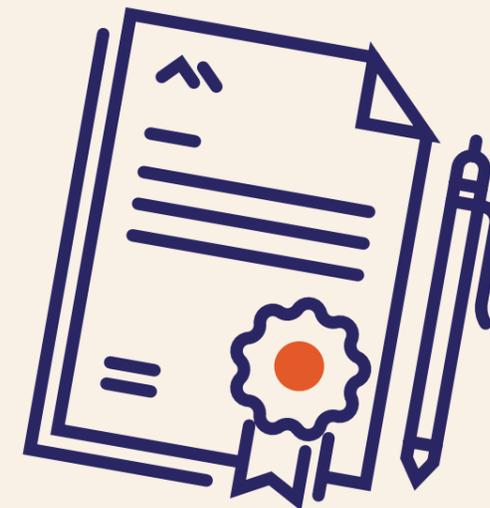
### Emily Meadow

School House Mentor  
Email: emilymeadow@exampleemail.com

### Mark Johnson

Junior Hockey Team Manager  
Email: markjohnson@exampleemail.com

**A:** I would remove referee details. In this instance high school teachers are probably not overly relevant either.



# COVER LETTERS

## COVER LETTERS

An employer reading a cover letter written by an Engineering graduate will be looking to learn about the applicant's work readiness (i.e. skills, abilities, experiences and personal qualities), how well they match the requirements of the position and why they want to work for the organisation. Outstanding cover letters are those that are well written, free from spelling or grammatical errors and most importantly, make a connection with the hiring manager.

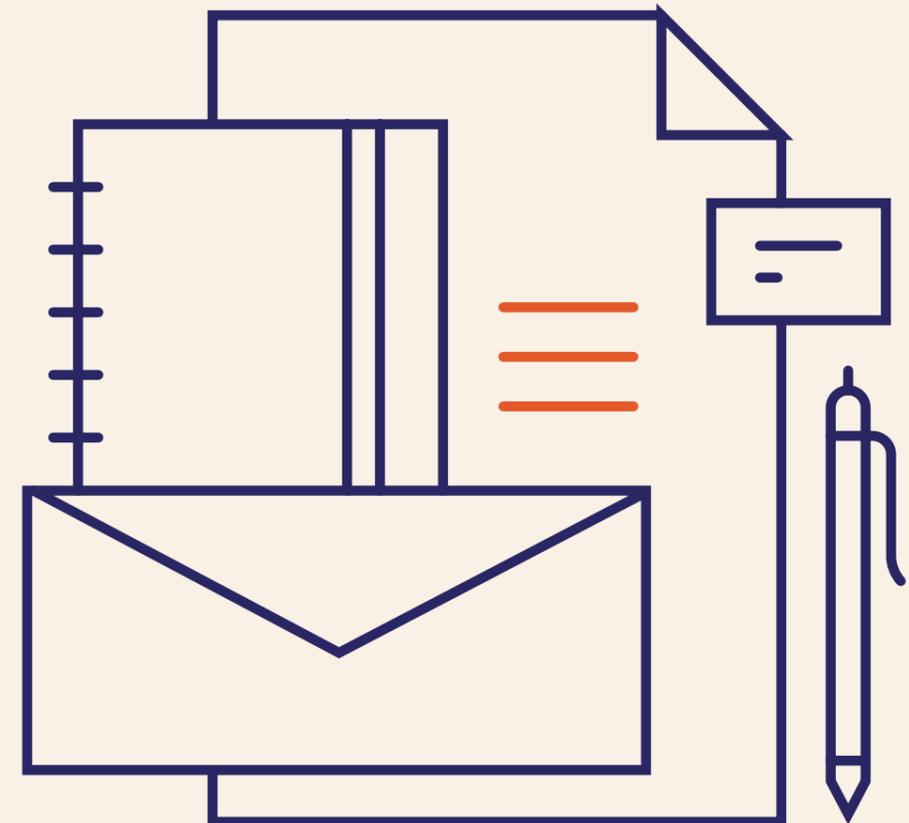
You should always re-write your cover letter for every job application. This is because each needs to be strategically targeted at the position and the organisation you're applying to. The structure and content of your letter must deliver key information to the employer in an efficient and effective way

### Canvassing a Cover Letters

When you are writing a cold calling or canvassing letter, seeking employment where no advertisement is available, it is even more important to seek out information about the company. A good way to do this is to look at the **ABOUT US** and **CAREERS** section of a company website. Below is an example of the real ABOUT US and CAREERS section for telecommunications provider, **Vodafone**.

**The following page** contains a sample canvassing cover letter written by 'Ethan Engineer' applying for a job at **Vodafone**.

Browsing the vacancies in the Careers section also revealed multiple job vacancies for **Junior Design Engineers Electrical/Electronic** as the result of the company expanding its network operations. This knowledge allowed Ethan Engineer to further target his cold calling approach for work experience.



# VODAFONE JOB EXAMPLE

## ABOUT US

About Vodafone: Vodafone Group Plc. is the world's leading mobile telecommunications company, with a significant presence in Europe, the Middle East, Africa, Asia Pacific and the United States through the Company's subsidiary undertakings, joint ventures, associated undertakings and investments.

**Senior Executive:** Iñaki Berroeta, Chief Executive Officer, Vodafone Hutchison Australia  
Customer Base: There are 5.3 million Vodafone customers in Australia as of June 2014.

**Employees:** Approximately 3500 employees  
Vodafone Wholesale: Focused on partnering with our Mobile Virtual network Operators to tailor wholesale solutions for each relationship whilst building long-term partnerships to bring flexibility and global leverage.

**Vodafone Hutchison Australia (VHA):** Vodafone Hutchison Australia (VHA) was formed in June 2009 following a merger between Vodafone Australia and Hutchison. VHA provides mobile services to 4.9 million customers in Australia. Vodafone Hutchison Australia is a 50:50 joint venture between Vodafone Group Plc and Hutchison Telecommunications (Australia) Limited.

## CAREERS

**Bringing People Together:** In Australia, Vodafone is operated by Vodafone Hutchison Australia (VHA), a 50:50 joint venture between Vodafone Group Plc and Hutchison 3G Australia, providing integrated communications services for millions of people every day. In the exciting and rapidly evolving sphere of communications, no other telecommunications company in the world brings more people together than Vodafone.

**Vodafone Foundation Australia:** The Vodafone Foundation Australia provides Vodafone employees with exciting and unique opportunities to make a difference in their community and be proud of the company they work for.  
Our employees can **volunteer for their favourite charity** through their annual Passion Day (volunteer day) and are supported in their individual fundraising efforts through our Matched Giving program.

**Sustainability at Vodafone:** We're making our packaging better for the environment and managing our carbon emissions. We're giving parents helpful tools and tips to support their children being online and using mobiles safely.  
We're committed to building our network in an open and transparent way in our communities, and making sure our products and services are easy for everyone to understand and use.

**Values:** We are proud of what Vodafone people represent and the unique culture we have created through living our values. Do our values resonate with yours?

- WE BEFORE ME - Collaboration, humility, generosity
- MAKE IT COUNT - Accountability, results focus, excellence
- WITH SOUL - Empathy, passion, integrity

**Leadership:** We believe leadership drives culture drives performance. Our standards set the expectations for our leadership team. We focus on the customer experience, we are available for and serve our teams, we live our values, we have remarkable conversations, we make conscious commitments and we recognise and appreciate people.

# EXAMPLE COVER LETTER

17 September 2020  
Mr Griff Innisfail  
HR Coordinator Vodafone  
griff.inn@voda.com

Ethan Engineer  
0444 871 541  
e.engineer@student.monash.edu

Dear Mr Innisfail,

As a third year student at Monash University enrolled in a double degree of Bachelor of Engineering (Honours) and Bachelor of Commerce, I am seeking work experience in electrical engineering for the summer vacation 2018/19. My first preference is for a placement at Vodafone and stems from my interest in working for the world's leading mobile telecommunications company. I am enthusiastic about working in an organisation where the customers' experience is of highest importance and ingenuity and hard work are rewarded.

My majors are in Electrical Engineering, Computer Systems and Management. My result average to date is at a high distinction level and I will graduate with Honours. My third year research project involved scoping possible solutions to resolve barriers to the expansion of network portable access to rural and remote areas. The project findings were sent to Telstra Corporate Strategy Committee and contributed to the program, which provides remote computer access. I read on your website that Vodafone are expanding their network team and I believe my engineering experience equips me well to contribute to that team.

My skills are also a good match for the needs of Vodafone clients. My excellent communication skills are demonstrated by my exceptional academic results for written assignments and oral presentations. In addition, my three years' work experience at Coles Online as a Junior Programmer enhanced my software development skills. As a supervisor of a Coles Online team I also developed my teamwork and leadership skills.

Vodafone's strong commitment to corporate responsibility, demonstrated by the work of the Vodafone Foundation, provides another incentive to work for the company. Community service is high on my agenda and is demonstrated through my voluntary position on the committee of a local youth group where I am responsible for organising fundraising events; each year our fund raising profits have increased by 20%-25%. During the 2017 summer break I volunteered on an Engineers without Borders project in Far North Queensland where I participated in the electrical engineering and design of an amenities block for a remote community. This experience developed my intercultural skills, independence, teamwork and resilience.

My resume is attached to provide you with an overview of my experience and training. I will contact you next week to further discuss how I can contribute to the Vodafone business. Alternatively, you can contact me at your convenience on 0444 871 541.

Yours sincerely,  
Ethan Engineer

# COVER LETTER LAYOUT

## Format

One typed A4 page, using a simple 10 to 12 point font (e.g. Times new roman, Arial)

Plenty of white space using standard margins and space between paragraphs

## Paragraph 1 (Introduction)

What is the purpose of your letter and why do you want to work for this organisation?

When responding to a job advertisement, include your qualifications, the position title and any reference number. Include your current career circumstances and, as concisely as possible, any specialised Engineering interests or abilities you may have. You should have an explanation as to why you are writing to them e.g. to apply for the job! Ensure also to include a reference to where the job was advertised.

Your opening paragraph is also your opportunity to demonstrate your interest in the employer, and to highlight what it is that makes you a good fit for their position.

Show your knowledge about the employer (e.g. their culture and values), and demonstrate a link between your career interests and aspirations and what they have on offer as an employer. Including this information will also mean you are demonstrating that you have done your research, which helps demonstrate your enthusiasm for the position.

## Paragraph 2 & 3

Why would an employer select you to be the interviewed ahead of other applicants?

This paragraph should include a summary of your skills and experiences, so that you can demonstrate how you meet the key selection criteria and how your technical and employability skills directly relate to both the current and future needs of the employer. Give detailed evidence to support your claims: your skills and how you have applied them, your achievements, academic extra-curricular experiences – don't just list them!

Any employment or volunteering experience is a valuable inclusion. While you may not believe your part time role at Coles is relevant, there are many relevant skills involved in carrying out this role - communication, time management, problem solving, etc. It is how you describe this role that makes it relevant to the employer's needs.

Remember there is no need to mention skills they haven't asked for in the selection criteria unless you have a specific reason.

## Paragraph 4 (Conclusion)

What do you want to happen next?

Confirm your interest in the role and finish on a positive note by thanking the employer for their time. Close by expressing your interest in attending an interview, and any connections to the organisation you may have.

## Sign Off

Sign off your letter with an appropriate salutation. Use:

“Yours sincerely,” if your letter is addressed with the name of the recipient – such as Dear Mr ... or Dear Ms

OR

“Yours faithfully,” if your letter is addressed without name such as - Dear Sir / Madam  
Then, include your name on the line below.

# LINKED IN PROFILE EXAMPLE

**Miranda R.** · 2nd  
Undergraduate Civil Engineer at Arup | Professional Programs Officer at AIYA  
Greater Melbourne Area · 381 connections · [Contact info](#)

**About**  
I am a driven Civil Engineering and Arts student at Monash University, passionate about sustainable infrastructure and development, as well as climate resilience.  
Specialising in Indonesian Studies and International Relations, I aspire to deliver innovative engineering solutions with a nuanced, global perspective.

**Activity**  
381 followers  
Amazing work Blake! Best of luck next week  
Congrats Jesse, well deserved!

**Experience**  
**Undergraduate Civil Engineer**  
Arup · Internship  
Nov 2020 – Present · 4 mos  
Canberra, Australian Capital Territory, Australia  
Supported and mentored by a brilliant team, I have been working on city-shaping infrastructure projects, improving my technical expertise on software like AutoCAD, as well as developing my commercial awareness. Arup has provided me with a much deeper understanding of the importance of sustainable & inclusive design, and I look forward to applying these learnings throughout my career.

**Sidekicker**  
2 yrs 6 mos  
**Coordinator**  
Aug 2019 – Present · 1 yr 7 mos  
As a member of the Community Operations team at this innovative tech start-up, I manage client relationships via email and over the phone, whilst working with targets and service level agreements (SLAs). I am constantly problem-solving and interpreting data across multiple systems, both autonomously and as part of a larger team.

**Associate**  
Sep 2018 – Present · 2 yrs 6 mos  
Melbourne, Australia

**Volunteer experience**  
**Half-Marathon Fundraising Runner**  
Asylum Seeker Resource Centre  
Jul 2018 · 1 mo  
**Professional Programs Officer (Victorian Chapter)**  
Australia-Indonesia Youth Association  
Jan 2021 – Present · 2 mos

**Interests**  
180 Degrees Consulting Alumni - Mel...  
EY  
Jacobs  
United Nations

Your “About” section is equivalent to your introductory paragraph in a resume. Your employers should be able to see your qualifications and career interests in a few sentences.

Staying active on linked in helps to create a personal image and shows commitment to your career goals.

“

**DON'T LET  
ANYONE ROB  
YOU OF YOUR  
IMAGINATION,  
YOUR CREATIVITY  
OR YOUR  
CURIOSITY**

**- MAE JEMISON**

“

**STRIVE NOT TO  
BE A SUCCESS,  
BUT RATHER TO  
BE OF VALUE**

**- ALBERT EINSTEIN**

## Company Listings FAQ

Name	About	Disciplines Hired									
		AERO	CHEM	CIV	ESCE	ENV	MAT	MCHN	MCHT	RES	SOFT
<b>AECOM</b>	We are a team of over 56,000 specialists working across 7 continents to deliver some of the world's most influential and transformational infrastructure projects. Together, across our regional communities and thriving metropolitan centres, we deliver a better world. Whether we're delivering city-shaping infrastructure or enabling clean and stable water supply to far-flung places many of us may never visit, our work makes a difference. On every project and for every client, our talented teams pride themselves on big ideas, positive change, and on leaving lasting legacies that build communities. We pride ourselves on our commitment to client service and excellence in project delivery. Graduates - with their fresh thinking and passion for reimagining what's possible - are critical to our success.	●	●	●	●	●	●	●	●	●	●
<b>Air Liquide</b>	A world leader in gases, technologies and services for Industry and Health, Air Liquide is present in 78 countries with approximately 64,500 employees and serves more than 3.8+ million customers and patients. Oxygen, nitrogen and hydrogen are essential small molecules for life, matter and energy. They embody Air Liquide's scientific territory and have been at the core of the company's activities since its creation in 1902.		●		●			●			
<b>AMOG</b>	AMOG is an engineering solutions provider to the offshore energy, onshore energy, mining, Defence, transport, and maritime sectors. Our team thrives on the use of advanced analysis techniques and design practices, applying our skills in the areas of: floating production systems (moorings, risers, turrets and platforms), aged fixed production platforms, subsea architecture (pipelines and submarine cables), defence assets, renewable energy, safety/risk/human factors engineering, mining bulk material handling equipment, and major hazard facilities.	●	●	●	●			●	●	●	
<b>Dalton Consulting Engineers</b>	Dalton Consulting Engineers (DCE) is privately owned and passionately managed Civil Engineering Consultancy. Specialising in three core areas of expertise: Urban Development, Urban Infrastructure and Sport. DCE has become one of the most recognisable firms in the provision of innovative civil engineering design and project management. With a commitment to world's best practice, DCE is an industry leader in technological innovation and currently works with some of Australia's largest property developers, water authorities and sporting associations.			●							
<b>Defence Force Recruiting</b>	Comprising of the Navy, Army and Air Force, the Australian Defence Force is a modern, people focused organisation; and one of Australia's major employers. The Australian Defence Force is one of the world's leading military organisations. We fulfil key defensive roles as well as providing a range of peacetime services.	●	●	●	●	●	●	●	●	●	
<b>Engineers Australia</b>	Engineers Australia is the trusted voice of the profession. We are the global home for engineering professionals renowned as leaders in shaping a sustainable world. With around 100,000 individual members, Engineers Australia is the profession's peak body. We are the voice of the profession, and exist to advance the science and practice of engineering for the benefit of the community.	●	●	●	●	●	●	●	●	●	
<b>Gamcorp</b>	Gamcorp is a structural engineering consultancy that was established in 1975 providing consultation, advisory, and third-party compliance certification for manufacturers and installers of support structures. We specialise in supporting the Commercial Solar Power industry, specifically with solar PV roof structure assessments and are very well known amongst the solar community certifying over 400MW worth of solar PV. Gamcorp delivers the confidence required for installers and building owners that the roof structure is not only suitable to the proposed PV installation but optimised for the best return on investment. Gamcorp's engineering team take the time to fully understand the requirements of each installation. They have the expertise, experience and systems to ensure a timely and cost effective solution.			●				●	●	●	
<b>Honeywell</b>	THE FUTURE IS WHAT WE MAKE IT. We are a Fortune 100 company that invents and manufactures technologies to address tough challenges linked to global megatrends such as safety, security, and energy. With approximately 100,000 employees worldwide, including more than 19,000 engineers and scientists, we have an unrelenting focus on quality, delivery, value, and technology in everything we make and do. We have been innovating for more than 100 years - and now we're creating what's next.		●		●			●	●	●	
<b>IMC Trading</b>	IMC is a trading firm with technology at its heart. Since 1989, we've embraced the power of technology to rapidly advance our trading models. As pioneers in the industry, technology is now the lifeblood of how we operate. Whether it's the markets, data, software or hardware, we're constantly pushing ourselves and our technology further. We're always challenging, adapting and redesigning to create world-class solutions that can outsmart the best Traders and Engineers in the world. By employing the best talent and providing an environment in which knowledge and skills can thrive, we bring value to the market.				●			●	●	●	
<b>JVAT</b>	JVAT is an innovative risk and assurance consultancy firm that provides advice, services and products across the Defence & National Security, Government & Public Sector, Rail & Infrastructure, and Energy & Resources markets. Our team consists of professional management consultants, engineers and assurance subject matter experts. We specialise in Risk & Assurance, including: <ul style="list-style-type: none"> <li>• Systems, Software &amp; Safety Engineering</li> <li>• Systems, Software &amp; Safety Assurance</li> <li>• Human Factors Engineering</li> <li>• Security &amp; Cybersecurity</li> <li>• Management Consulting</li> <li>• Enterprise Risk Management</li> <li>• Governance, Change Management &amp; Culture</li> <li>• User Experience (UX) Design</li> <li>• Resilience &amp; Wellbeing</li> </ul> It's our company culture that really sets us apart from our competitors. We firmly believe in fostering a positive and open culture between our team and clients using a collaborative working relationship to maximise efficiency and productivity.			●				●	●	●	
<b>Kearney</b>	Kearney is a leading global management consulting firm with more than 3,600 people working in more than 40 countries. We work with more than three-quarters of the Fortune Global 500, as well as with the most influential governmental and non-profit organizations. Kearney is a partner-owned firm with a distinctive, collegial culture that transcends organizational and geographic boundaries—and it shows. Regardless of location or rank, our consultants are down to earth, approachable, and have a shared passion for doing innovative client work that provides clear benefits to the organizations we work with in both the short and long term.	●	●	●	●	●	●	●	●	●	
<b>NDY</b>	Established in 1959, Norman Disney & Young (NDY), A Tetra Tech Company is a global firm of consulting engineers. With over 600 staff in offices throughout Asia, Australia, Canada, New Zealand and United Kingdom, NDY is able to deliver innovative, sustainable and tailored solutions for a diverse group of clients.				●	●			●	●	
<b>Optiver</b>	Optiver is a proprietary trading firm with nine locations across Europe, Asia-Pacific and North America. Powered by technological might and guided by intellectual rigor, we trade our own money, at our own risk, for our own reward. But not solely for our own benefit. By offering competitive, two-sided prices to buyers and sellers, we provide liquidity and inject stability into the world's financial markets. That's good for all market participants, from financial pros to the pensioner next door.				●			●		●	
<b>Traffic Group Pty Ltd</b>	Transport Planning & Traffic Engineering Consultancy Firm			●							
<b>Rockwell Automation</b>	Our mission is to improve the quality of life by making the world more productive and sustainable. We are committed to enabling the next generation of smart manufacturing. With the right strategy, talented people, and our substantial financial strength, we are dedicated to deliver value to our customers. We integrate control and information across the enterprise to help industrial companies and their people be more productive. It is the way that we bring The Connected Enterprise® to life.		●		●			●	●	●	
<b>Wood</b>	Wood is a global leader in engineering and consultancy across energy and the built environment, helping to unlock solutions to some of the world's most critical challenges. We provide consulting, projects and operations solutions in more than 60 countries, employing around 45,000 people. At Wood, we don't just look for GPA/WAM scores. We believe enthusiasm, personality, commitment and creative thinking are just as important.		●	●	●		●	●	●	●	
<b>Telstra</b>	"Our 14-month Graduate Program will launch your career, and together we'll imagine what's possible in the future. Whether you apply for a technical or corporate graduate role, you'll support the cutting edge work we're doing in areas such as Internet of Things (IoT), Software Defined Networks, 5G, cyber security, drone technology, Artificial Intelligence (AI), and other emerging technologies. You'll work in an environment that's embracing ways of working like Agile, DevOps, Human Centred Design and Lean. You'll also be able to collaborate with the best people in their field and have the knowledge that your ideas will always be welcome. Through our specifically designed Accelerator Programs, you'll be provided with the learning, experiences, coaching, and mentoring you need for your career today and in the future. Join the Telstra Graduate Program and together, we'll reimagine the future.				●			●		●	

## Company Listings FAQ

Internship Programs			Graduate Programs			Specific Employment Requirements	Opportunities for students/graduates	Opportunities for International Students
Offered?	No. of Positions	Application Period	Offered?	No. of Positions	Application Period			
Yes	80	July/August 2021	Yes	180	1st March - 26th March 2021	Must be in final year or less than 2 years experience	-	Yes
Yes	-	Anytime through 2021	Yes	-	Anytime through 2021	-	Air Liquide offers a number of postgraduate opportunities	Virtual Summer School 2021
Yes	4	Applications open in March and close in April (for mid-year positions) and in September (for summer vacation positions)	Yes	4	March - June 2021	We look for individuals with: outstanding academic credentials, strong communication skills, and a desire to think laterally to engineer solutions for our clients.	AMOG is also interested in applications from Masters and PhD students. AMOG sometimes has additional opportunities for students in a particular field or with specific skills, to help us deliver different projects	Students are required to have the right to work in Australia upon completion of their degree.
Yes	-	TBC in early 2021.	Yes	-	TBC in early 2021.	Australian Resident or Permanent Resident	We are recruiting a number of permanent full-time positions across our three office locations: Melbourne, Geelong and Brisbane. If you are a Project Manager, Design Engineer, Construction Engineer, or Draftsperson who is driven and looking for career progression, we want to hear from you!	-
No	-	-	Yes	-	The process typically takes between several months and a year.	Must be a minimum 17 years of age at time of entry, pass a basic fitness test, medical and physiological exam and also have no circumstances preventing them from attaining a security clearance.	All Postgraduate students are entitled to the same opportunities of Graduate students. The Defence Force also offers an exciting undergraduate sponsorship where students receive a full salary and covered HECS Debt whilst being guaranteed for employment in their chosen role at the completion of studies	To enlist in the Australian Defence Force, it is a requirement to be an Australian Citizen.
Yes	-	-	Yes	-	-	-	-	-
Yes	2	Through the year for 3 month internships	Yes	2	Through the year for 3 month internships	An understanding of load bearing structures	Our internship program is available to postgrad students	Our internship program is available to International students
Yes	-	-	Yes	-	Australia: 1 March - 8 April 2021 New Zealand: 26 April - 20 May 2021	Australian or New Zealand citizen or hold Permanent Residency in Australia or New Zealand	-	-
Yes	30	Applications close on 29th April	Yes	30	Applications close on 1st April	Student must have a distinction average or above	Yes	Yes
No	-	-	Yes	3	November - December	Curious and creative problem solvers who are seeking a challenging and rewarding career People who reflect JVAT values of: dedication to success, innovation that matters, trust, responsibility and transparency Bachelor's degree in any Engineering or IT related field Ability to analyse and solve problems, provide valuable insight and offer innovative solutions sourcing and assessing relevant information Proficient technology skills (Microsoft Suite)	Graduate Positions	Applicants must be a Permanent Resident. This is a requirement based on the clients we work with
Yes	10	1-2 months	Yes	5	1-2 months	-	Yes	No
Yes	2	September - October 2021	Yes	5	February - March 2021	Australian Resident or Permanent Resident	-	-
Yes	-	8th February - 17th May 2021	Yes	-	8th February - 17th May	-	Yes	Yes
No	-	-	Yes	-	May - July	Desire for a career in Traffic & Transport Engineering	-	-
Yes	5	2-6 months	Yes	3	2 - 6 months	-	Yes	Yes
Yes	-	26th July - 22nd August 2021	Yes	37	22nd February - 28th March 2021	Australian Resident or Permanent Resident	No	No
Yes	200	13 months	Yes	100	16th March - 6th April	-	Yes	Yes

### Other comments/notes

<b>Dalton Consulting Engineers</b>	DCE is on an exciting growth path and recruiting and developing talented individuals to deliver what we're passionate about - innovative design and civil engineering solutions. We pride ourselves on state of the art technology, the diversity and talent of our team and strong client relationships. Our great office locations and new office fitouts in Queensland and Victoria will provide you with the perfect environment to thrive as part of Team DCE.
<b>AMOG</b>	AMOG's 2-year Graduate program incorporates: - Rotation through all 3 areas of our business: Safety and Risk, Structural, and Marine Engineering   Secondment to one of our regional offices   Possibility of local, interstate and international short-term roles   Exposure to R&D projects   Weekly 'lunch 'n' learn' sessions   Structured approach to development of professional engineering skills including: mentoring by senior staff and progression towards CPEng status   Active social committee and regular social events   Real opportunities to work on actual projects
<b>NDY</b>	Number of positions listed are for Melbourne office, additional positions are available in other offices. Check <a href="https://ndy.com/careers/graduates">https://ndy.com/careers/graduates</a> for exact application closing date.



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