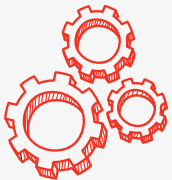
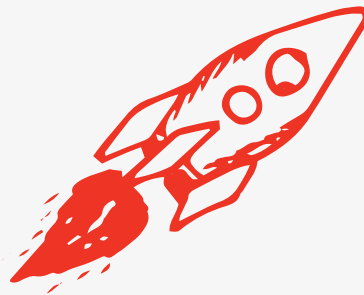
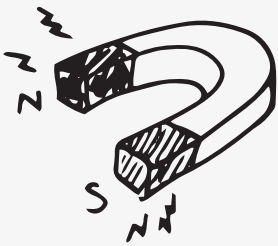




ENGINEERS  
AUSTRALIA

# ENGINEERING A GREAT CAREER!



**CHRISTINE CHEN**  
*Delivery Manager  
at Thinxtra*

"I work in IoT (Internet of Things), where we are aiming to bring billions of things to life by connecting them to the internet so they can talk to each other, and work together..."

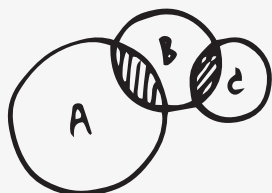
**IoT is currently being used to track endangered rhinos in Africa, helping conservationists protect rhinos."**



**LIAM DINGEMANSE**  
*General Manager and Senior  
Engineer, CBM Sustainable  
Design Pty Ltd*

"My current role is managing an architectural and engineering consultancy firm that has a heavy focus on sustainability..."

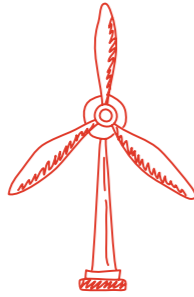
**I think we all have a responsibility to give our children the best possible future, and engineering ingenuity can play a huge role in this."**



# 12 REASONS YOU SHOULD CONSIDER ENGINEERING

## 1. Create and improve

Engineers turn ideas into reality. They improve on what's gone before, and solve the problems facing people and the planet.



## 2. Make a difference!

Almost every aspect of modern life is underpinned by engineering! You can shape the future and make a difference.



## 3. Respect

Engineers are among Australia's five most respected professions, rated higher by the public for ethics and honesty than 25 other professions including police, judges and ministers of religion.



## 4. Earn a good income

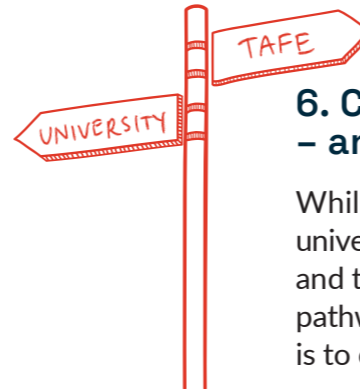
Engineering is one of Australia's best-paid professions after medicine and law. Average starting salaries for engineering graduates were \$65,000 a year in 2018.

Refer to chart below.



## 5. Be in demand

Engineering university graduates are more likely to get a full-time job on graduation than those from other courses – 83% vs 73%. Three years after graduation, the figure for engineers rises to 95%.



## 6. Choose your route – and your subjects

While professional engineers have university degrees, engineering associates and technologists can qualify via other pathways. The important thing for teens is to choose science and maths at school.



## 7. Work in almost any field, any setting

Engineers are involved in almost every industry. Whatever you're passionate about, engineering can take you there.



## 8. Work inside or outside – or a mixture of both

Work in a variety of indoor and outdoor settings, including offices, hospitals, mines, factories, processing plants, building sites, defence sites, theme parks...



## 10. Defy the stereotypes

Contrary to some stereotypes, engineering involves teamwork, innovation, creativity and business acumen – not just maths. The proportion of female engineers is growing, and currently stands at 14% in the profession overall and 16% graduating from universities.

## 11. Earn while you travel the world

Australian engineering qualifications are internationally recognised and engineering is an increasingly global profession, giving you the option of working and living overseas.



## 12. Enjoy a satisfying career

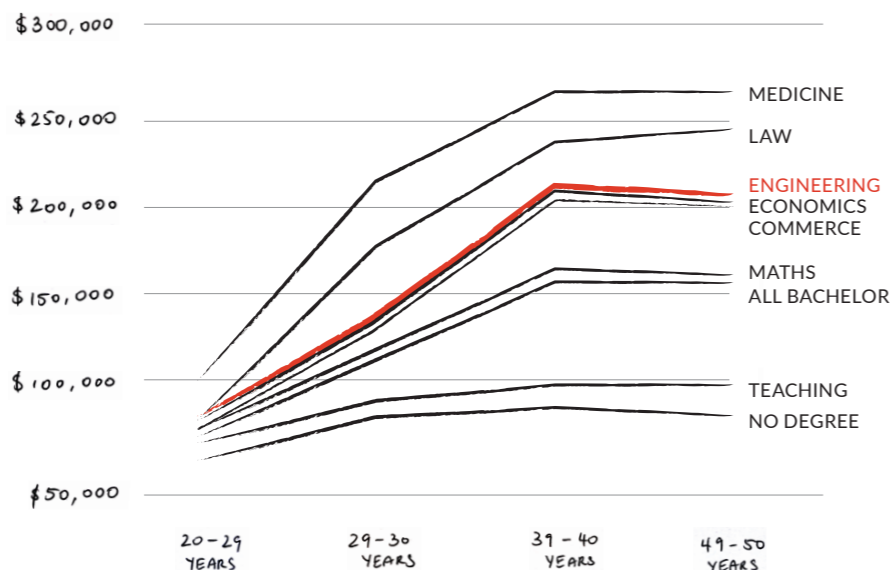
Engineers love that “a-ha” moment when they solve a problem. Over 90% of engineers agree the profession leads the way in innovation, sustainability and shaping the future.



### Earn a good income in engineering

80th percentile total yearly personal income of full-time workers holding a bachelor degree, by field of study, 2016

Source: Australian Bureau of Statistics (2017)





**VARUNI FERNANDO**  
Senior Systems Engineer,  
Resmed

“The devices we develop treat sleep apnea by providing pressurised air to patients to keep their airways open during sleep, allowing for more consolidated sleep. Sleep is fundamental pillar for health...  
**Working in this industry and seeing how much difference our devices make to our patients’ lives is the thing that keeps me enjoying my work every day.”**



**DOMINIC BURNET**  
Engineer, Frazer-Nash  
Consultancy

“My long-term objective is to create and design innovative technologies to advance our society... I have volunteered my time to investigate **how the use of 3D printing can be of benefit to the blind and visually impaired with the use of tactile surfaces for spatial navigation.**”



**KALA SENATHIRAJAH**  
Microplastics Researcher,  
University of Newcastle

“I am currently investigating microplastics in the water supply cycle. The initial findings of my work was used in the Plastic Diet Campaign to raise awareness that globally, on average, we could be ingesting up to 5g/week of microplastics, That is a size of a credit card.

**My future work will hopefully allow us to minimise, reduce, remove and recover microplastics from the water supply cycle.”**



**SIN NYAP TAN**  
Projects Manager,  
Jacobs Dubai

“Most of my projects involve interactions with natural processes in a rather dynamic and environmentally-diverse coastal environment.  
**I am a big believer in working with nature, not against it, to achieve sustainable engineering solutions...** My recent focus has been on port development to facilitate sea freight, which is still the most energy efficient way of transferring cargoes compared to air and land transport.”



**MICHELLE ERWIN**  
Civil Design Engineer,  
GeoLINK

“A lot of my work is designing (property) subdivisions, and **what I love about that is knowing that someday the lines on my screen will be home to hundreds of people.** Kids will learn to ride their bikes on the footpaths, teenagers will learn to drive on the roads, and subdivisions become home towns.”



**JILLIAN KILBY**  
Chief Executive Officer  
and Founder,  
The Infrastructure Collective

“When I was 17, I read the entire University Admission Guide, cover to cover, and I crossed out everything I did not want to do. Only two degrees were left: architecture and engineering. Growing up on a farm, I thought engineering would allow me to one-day return to the country.  
**Little did I know that within a decade I would be living, studying, attending conferences, and working internationally.**”

