

Indigenous Australian Engineering School

12-18 January 2020

An initiative of:
Engineering Aid Australia

Hosted by:
Faculty of Engineering
at the University of Sydney



THE UNIVERSITY OF
SYDNEY



EngineeringAid Australia
Building futures

Why choose engineering?

Engineers play a vital role in the way we live. They provide creative and practical solutions that promote positive change and support communities around the world.

What do engineers do?

As an engineer, you could make the next amazing discovery, be involved in enhancing our living environments, providing access to clean water, solar power, securing cyberspace, restoring and improving urban infrastructure or space transportation.

Engineers are not only creative; they have a strong understanding of mathematics and science as well as the business and legal processes involved in meeting society's challenges. As an engineering student, you will develop excellent problem-solving, design and research skills that will enable you to lead innovation that shapes the future.

Why the profession needs you

Engineers are vital to the growth and sustainability of our communities – they design and advise on water, mining, agriculture, power, roads, hospitals, schools and communication networks.

The engineering profession needs more Aboriginal and Torres Strait Islander people, particularly in remote communities and outback Australia, to lead infrastructure projects. Engineers are among the most valuable resources a community can have.

Is engineering the right choice for you?

- Are you good at mathematics and science?
- Do you like getting hands-on with machinery or practical tools?
- Do you enjoy solving challenges?

If so, engineering may just be what you're looking for.

What is IAES?

The Indigenous Australian Engineering School (IAES) is an annual event, established and funded by Engineering Aid Australia (a non-profit organisation). The IAES is conducted in Sydney by the University of Sydney's Faculty of Engineering on behalf of Engineering Aid Australia.

For the school in January 2020, we are looking for 20 Aboriginal and Torres Strait Islander students, male and female, who will be entering Year 10, 11 or 12 in 2020.

What does the school involve?

The school has a challenging and exciting week of fun activities to help you discover how amazing engineering really is. You will also meet engineers and find out just how important engineering is to the community.

You'll get to take part in design work and other hands-on exercises that will develop your new engineering skills. You will spend each morning trying out different types of engineering activities and in the afternoons go on site visits to engineering companies, where you will find out about the work they do and the diverse careers on offer.

During the school, you will live on campus for six days, get a taste of university life, and gain a better understanding of engineering as a course and career.

Scholarships

If you are selected to attend the school, you will also qualify for an Engineering Aid Australia Continuing School scholarship. This is to help with some of your education expenses in Years 10, 11 and 12.

Later, if you complete Year 12 and get a place at any university in Australia to study Engineering or a related course, you will be eligible for an Engineering Aid Australia Tertiary Education scholarship.



Feedback from IAES participants

“I would recommend doing it because you get to experience things others only dream of and I have made friends and connections for life.”

“IAES has opened my eyes to engineering and how bright of a future I can have now because of the connections I’ve established.”

“Before coming here I didn’t know what engineers do and by experiencing this course I have gained an understanding of what engineering I want to do. I want to become an engineer to have a positive impact on communities.”

What does it cost?

The school is fully funded by Engineering Aid Australia with donations from its sponsors which include engineering companies, government departments and private donors.

All your travel costs to and from Sydney, as well as accommodation and fees, are paid for.

You may want to have some pocket money for travelling and during your stay in Sydney, but this is the only expense you will need to cover.

How do I apply?

To apply for the Indigenous Australian Engineering School in 2020, you will need to complete the application form provided and submit the supporting documents as requested on the form.

Selection is based on your interest in engineering-related subjects such as mathematics and science and your personal initiative and outlook.

About the University

Coming to the University of Sydney may be the first step towards the career you’ve always wanted.

Whatever your motivation – and whatever degree you choose – we believe your time with us will put you in a great position. We want to help you build on your aspirations and inspire you to develop new and creative ways of thinking, and become a global citizen with a lifelong passion for learning.

In the 2019 QS World University Rankings by Subject, the University of Sydney ranked among the top 60 universities in the world for engineering and technology. Our degrees cover many diverse areas, including robotics, steel structures, space, power, chemical, mechanical, electrical and high-performance computing.

An engineering degree offers you versatility and diversity. You could be crunching data gathered from robot trials or testing chemical sprays in a lab one day; the next, putting theory into practice in a paddock in rural NSW.

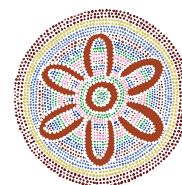
All our students leave with globally recognised qualifications and skills that make them highly sought after by organisations all over the world. Our graduates are passionate about making people’s lives better by solving the greatest challenges facing our communities.

Engineering Aid Australia

Engineering Aid Australia is a philanthropic organisation that funds the Indigenous Australian Engineering Schools and associated scholarships with donations from its sponsors.

The scholarships help students who have attended the Indigenous Australian Engineering School to complete high school and go on to study engineering and related courses at university, learning skills to assist disadvantaged communities in Australia. The schools are Engineering Aid Australia’s main program on behalf of Aboriginal and Torres Strait Islander students.

For more information, visit engineeringaid.org



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