

For more information about IAESS, please contact:

**Faculty of Engineering
and Information Technologies**
Applicant enquiries
+61 2 8627 5089
iaess@sydney.edu.au
sydney.edu.au/engineering/iaess

Engineering Aid Australia
www.engineeringaid.org

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The University of Sydney

An initiative of
Engineering Aid Australia

Hosted by
**Faculty of Engineering
and Information Technologies**
at the University of Sydney

Indigenous Australian Engineering Summer School

8-14 January 2017

An initiative of



Engineering Aid 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 space transportation, solar power, securing cyberspace, enhancing our living environments, providing access to clean water or restoring and improving urban infrastructure.

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 to be hands on with machinery or practical tools?
- Do you enjoy solving challenges?

Then engineering may just be what you're looking for.

What is the Engineering Summer School?

The Indigenous Australian Engineering Summer School (IAESS) is an annual event, established and funded by Engineering Aid Australia (a non-profit organisation).

For the summer school in January 2017, we are looking for 20 Aboriginal and Torres Strait Islander students, male and female, who will be entering Year 10, 11 or 12 in 2017.

What does the school involve?

The school is a challenging and exciting week of fun activities to help you discover how amazing engineering really is. You will also meet engineers and see just how important engineering is to your 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 doing 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.

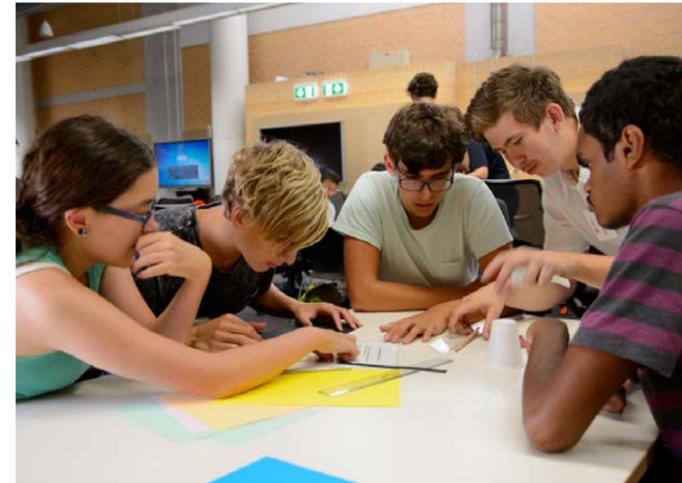
During the summer school, you will live on campus for six days, get a taste of university life, and gain a better understanding of engineering as a course and career.

Scholarships

If you are selected to attend the summer 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, you will be eligible for an Engineering Aid Australia Tertiary Education scholarship.

In 2016, 60 Continuing School scholarships and six Tertiary Education scholarships were awarded.



“An enormous thank you for all that you did before, during and after IAESS 2016. It was an incredibly amazing experience and will stay with me forever.”

“What I liked most about IAESS was learning about the different types of engineering courses and how they fit into everyday life.”

“All the site visits were fantastic and worth doing. Also all the guest speakers were interesting, informative and very helpful.”

IAESS participants

What does it cost?

The summer school is fully funded by Engineering Aid Australia and its sponsors, including 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 Summer School in 2017, 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 to become a global citizen with a lifelong passion for learning.

Ranked among the world's top 30 engineering and information technology faculties in the 2015-2016 QS World University Rankings, our degrees cover many diverse areas including robotics, steel structures, space, power, chemical, mechanical, electrical and high-performance computing.

All our graduates leave with globally recognised qualifications and skills that make them highly sought after by organisations all over the world.

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

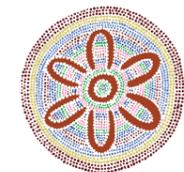
Engineering Aid Australia

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

The scholarships help students who have attended the 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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