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IAESS

15TH INDIGENOUS AUSTRALIAN ENGINEERING SUMMER SCHOOL (IAESS)

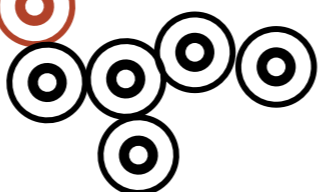
15-21 JANUARY 2012

FACULTY OF
ENGINEERING
& INFORMATION
TECHNOLOGIES

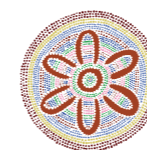


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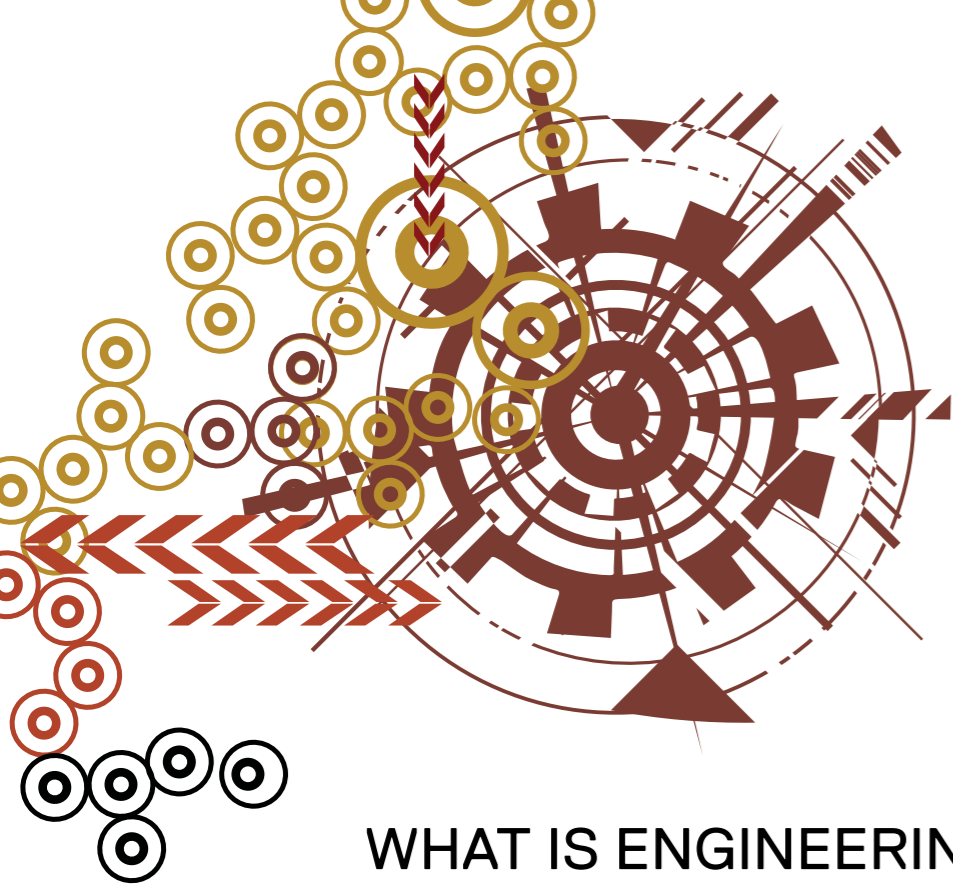


An initiative of Engineering Aid Australia



EngineeringAid Australia
Building futures





WHAT IS ENGINEERING?

Engineers play a vital role in the way we live. As an engineer your career opportunities are endless as they play a very important part in just about everything around us from robots and machines to bridges and roads. Engineers are crucial to improving our world by coming up with the next century of solutions.

As an engineer you could be inventing the tools for the next amazing scientific discovery, space transportation, making solar power economical; securing cyberspace; enhancing our living environments; providing access to clean water or restoring and improving urban infrastructure. Engineers are very creative and rely on their understanding of mathematics and science as well as their knowledge of business and legal processes to meet these expectations. As an engineering student you will develop excellent problem solving skills, design and research skills that will allow you to drive and lead innovation that will help shape our future.

INDIGENOUS REPRESENTATION IN AUSTRALIA

Indigenous students are under-represented in the engineering profession. We need more engineers, particularly in remote communities and outback Australia which are areas most in need of infrastructure development, a process that can only be undertaken with the contribution of engineering professionals, educated in our universities. Engineers are so important for the growth and sustainability of our society as they design and advise on water, mining, agriculture, power, roads, hospitals, schools, radio, television, communication networks, in fact, all facets of our society. Engineers may be the most valuable resource communities can have.



"In year 10, I received an application for IAESS. I thought I had nothing to lose, so I put in my application and was selected. By the end of the IAESS, I had decided engineering was the career for me as it opens so many doors and offers a long fulfilling career. It motivated me to study hard for my higher school certificate. Now I am one year away from graduating as a fully qualified electrical engineer at Sydney University and the Koori Centre has provided me with all the support I needed along this journey."

TODD ROWLING
CADET ELECTRICAL ENGINEER
WITH AUSGRID

IS ENGINEERING FOR ME?

If you ...

- are good at maths and science,
- but also like to be hands on with machinery or practical tools,
- like to tackle a challenging problem,

then engineering may just be what you're looking for!

WHAT IS IAESS?

The Indigenous Australian Engineering Summer School is an annual event, established 14 years ago by Engineering Aid Australia (a non-profit organisation). It will be held again in January 2012 for 20 Aboriginal and Torres Strait Islander students, male and female, entering Years 11 and 12 in 2012. It is a five-day live-in Summer School, featuring a combination of activities that will give you a taste of engineering as a university course and career.

WHAT WILL IAESS BE LIKE?

The objective of IAESS is to provide a challenging and exciting week of fun and activities so you can discover how amazing engineering really is. IAESS will also provide a forum for you to meet engineers and see just how important engineering is to your community.

You will participate in design work and other hands-on activities that will test your newly acquired engineering skills, visit engineering projects and gain an understanding of the wide range of career opportunities that are available.

COST?

IAESS is fully sponsored by sponsors and donors including engineering companies, government departments and private donors. All your travel costs to and from Sydney, as well as accommodation and IAESS fees are provided free of charge. The only money you may require is pocket money when travelling and during your stay in Sydney.

WHAT WILL I DO AT IAESS?

IAESS involves hands-on and challenging activities with the Faculty of Engineering & IT at Sydney. You will spend each morning doing different types of engineering activities and then in the afternoon you will go on site visits to engineering companies

You will stay in campus accommodation within the University of Sydney grounds and get to experience university life. You'll also have a better understanding of engineering as a university course and career.

APPLICATIONS

You will be selected for IAESS on the basis of your interest in engineering related subjects (such as mathematics and science, personal initiative and outlook), as expressed in the application form, and supported by those who know you.

If you wish to apply for IAESS in 2012 you will need to complete the application form provided and submit all the supporting documents as indicated on the application form, otherwise we may not be able to assess your application fairly.

All participants in IAESS will be covered by insurance during the program and their stay.

ENGINEERING AID AUSTRALIA

Engineering Aid Australia is a philanthropic organisation that provides scholarships to help students to stay on at school and go on to study engineering and related courses at university, learning skills to assist disadvantaged communities in Australia. IAESS is EAA's principal program on behalf of Indigenous young Australians.

KOORI CENTRE

The Koori Centre at the University of Sydney provides programs, services and facilities to encourage and support the involvement of Indigenous Australians in all aspects of tertiary education.

The Centre provides tutorial assistance, access to computers, an Indigenous Research Library, study space, an orientation program at the beginning of the year and assistance in study and learning skills.

The promotion of understanding and respect for Indigenous Australian people, their knowledge and cultures, is provided by the Centre by offering academically challenging and professional relevant units in Indigenous Australian Studies.

ABOUT US

For some of you coming to the Faculty of Engineering & IT may be the first step towards the career you've always wanted. For others, you might choose to study in an area that really fires your mind.

Whatever your motivation – and whatever degree you choose – we believe your time at the Faculty of Engineering & IT at Sydney will put you in a great position.

During your degree, we want to help you build on your aspirations and inspire you to develop creative new ways of thinking: as a global citizen with a lifelong passion for learning.

To do this, we will stretch you in your formal studies and encourage you to take part in the rich intellectual and social life we offer outside the classroom.

Employers want well-rounded individuals who embrace all the opportunities and challenges that come their way. You will have excellent employment prospects as well as work-ready qualifications that are recognised worldwide. Our degrees are accredited by Engineers Australia (engineering degrees) and the Australian Computer Society (IT degrees). Your degree will offer you versatility and diversity – one day you could be crunching data gathered from robot trials, or testing chemical sprays in a lab, and the next day putting your insights into practice in a paddock in rural NSW.

