IAESS 2014

Do you want to make a difference to our world?

Do you enjoy challenging problems?

Do you like maths and science?

Do you enjoy working as part of a team?

INDIGENOUS AUSTRALIAN ENGINEERING SUMMER SCHOOL

12-18 JANUARY 2014 IN PERTH

engineering.curtin.edu.au
Let's not beat around the bush here - this is a very important brochure to read if you are:

A) a young, Indigenous Australian interested in engineering.

B) a young, Indigenous Australian interested in science and maths but don't know much about engineering.

C) a friend or family member of A or B.

A career in engineering may be just what you're looking for!

Engineers are creative and rely on their understanding of mathematics and science as well as their knowledge of business and legal processes to meet many of society's challenges. 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.

The world faces lots of problems.

Big and small problems, technical, natural, social and financial problems.

Engineers are problem-solvers. Pretty much if you can think of a problem, an engineer will be trying to solve it.

Example...

Person A - “I need to travel to Mars.”

Engineer - “I’ll create a rocket for you.”

Person B - “I lost my arm in an accident.”

Engineer - “I’ll design a prosthetic arm for you.”

Person C - “My car produces too much pollution.”

Engineer - “I’ll build an electric car for you.”

Person D - “I can’t seem to travel back in time.”

Engineer - “Ok, look… I’m working on that…”

What's engineering - is - not?

People often have the wrong idea about engineers, or they have no idea about engineers. Engineers are not chained to their desks. Engineers do not punch numbers into calculators all day long. Engineers do not drive trains. But they do design the trains. They do create the bridges that the trains use to cross rivers. They do dig the tunnels that the trains use to pass through mountains. They do find, extract and process valuable resources like gold, uranium and zeolite. They do provide solutions after natural disasters like earthquakes and Tsunamis. They do search for information from galaxies far, far away (maybe we will talk to aliens someday).

IAESS is:

- a week long - Sunday to Saturday
- live-in - accommodation provided, travel to from Perth paid for
- catered - all meals, drinks and snacks included
- supervised - Indigenous university students as house parents
- industry supported - site visits and industry representatives
- academically supported - exciting and educational activities everyday
- free - you could bring some spending money if you really wanted, but even that isn't necessary.

Students arrive at Curtin on Sunday, have an amazing week, and leave the next Saturday with a diverse group of new friends, and a new outlook on their future.

Family and Friends

Indigenous Australians are underrepresented in the engineering profession. This is unfortunate, because engineering is the only original wealth creating profession. Remote communities and outback Australia are areas most in need of sources of water, roads, hospitals, schools, electricity and communication networks. This infrastructure can only be undertaken with the contribution of engineering professionals, educated in our universities.

Wealth creation through irrigation schemes, electricity generation, mining and agriculture will be undertaken in regional areas, preferably with the guidance and participation of those living there. Engineers may be the most valuable resource such communities can have.

The objective of IAESS is to provide a challenging environment for Indigenous students to discover the benefits of the engineering profession. It is a once in a lifetime opportunity to find out about engineering in an inspiring, informative, safe and fun environment.

It really is a life-changing experience.
HOW DO I APPLY?
You must be:
• of Aboriginal or Torres Strait Island heritage
• eligible to study year 10, 11 or 12 in 2014 (you are in year 9, 10 or 11 in 2013)

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

If you wish to apply for IAESS in 2014 you will need to complete the application form provided and submit all the supporting documents as indicated on the application form, so we can assess your application fairly. Numbers are strictly limited.

THE HOSTS
The Faculty of Science and Engineering at Curtin
Curtin’s Faculty of Science and Engineering has an international reputation for the quality of its graduates and research achievements. It is at the forefront of technological and scientific innovation that encompasses the areas of Engineering, Science, Computing, Mathematics, Agriculture, Environmental Sciences, Mining and Resources.

The Centre for Aboriginal Studies at Curtin
The Centre for Aboriginal Studies (CAS) is an Aboriginal managed academic school established at Curtin University in Western Australia in 1983. CAS promotes the participation of Aboriginal and Torres Strait Islander people in tertiary study, and aims to create new ways of learning and working that are culturally appropriate, for the benefit of all people. The Centre is committed to increasing the participation of Aboriginal and Islander students in higher education. CAS supports over 450 Aboriginal and Islander students who are enrolled in various courses at Curtin, the highest number of Indigenous students of any university in Australia.

Engineering Aid Australia
Engineering Aid Australia is a philanthropic organisation that provides engineers and related services to assist disadvantaged communities both in Australia and overseas. The Indigenous Australian Engineering Summer School is their principal program on behalf of Indigenous Young Australians.

For more information about IAESS and the application process please contact:
IAESS Program Manager
Faculty of Science and Engineering
Tel: 08 9266 7884
Email: t.keely@curtin.edu.au
Visit: engineering.curtin.edu.au/outreach

Engineering Aid Australia
Visit: www.engineeringaid.org

Centre for Aboriginal Studies
Tel: 08 9266 7091
Email: cas.enquiries@curtin.edu.au
Visit: karda.curtin.edu.au

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For further information:
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