IAESS 2015
AT CURTIN UNIVERSITY

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

11-17 JANUARY 2015 IN PERTH

engineering.curtin.edu.au/outreach

an initiative of
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…”

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. Engineers do create the bridges that the trains use to cross rivers.

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 2015 (you are in year 9, 10 or 11 in 2014)

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 2015 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.

2015 IAESS AT CURTIN UNIVERSITY
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