INDIGENOUS AUSTRALIAN ENGINEERING SUMMER SCHOOL
JANUARY 9 - 15, 2011
engineering.curtin.edu.au
What is engineering?

Engineers have contributed to some of the greatest technological achievements of the 20th century including electrification, automobiles, health technologies, space craft and high performance materials. Engineering is the application of maths and science to design, create, improve and maintain things such as buildings, computers, cars, roads and aeroplanes. Engineering shapes and changes the world we live in and without it, there would be no improvements to our lifestyles. Engineers solve problems and improve the way things work. They have management, lateral thinking and communication skills. Graduates are in high demand and are often employed on starting salaries higher than the national average.

Indigenous representation in engineering?

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 infrastructure development, a process that can only be undertaken ultimately with the contribution of engineering professionals, educated in our universities. Engineers design and advise on drinking water, roads, hospitals, schools, radio, television, communication networks and all the fabric of modern society. Wealth creation through irrigation schemes, electricity generation, mining and agriculture will be undertaken in country areas, preferably with the guidance and participation of those living there. Engineers may be the most valuable resource such communities can have.

What is the IAESS?

Following the success of the inaugural Curtin Indigenous Australian Engineering Summer School (IAESS) in 2010, Curtin University will host its second IAESS in January 2011. This is a fantastic opportunity for Indigenous students currently in years 10 and 11 who have demonstrated the interest and academic potential to pursue a career in engineering. With the support and recommendation of their teachers, chosen students will be fully financially supported to participate in the IAESS in Perth. They will participate in classes, labs and field trips to give them a hands-on experience of engineering. As well as this, they will have the chance to form a social network to encourage each other, and others, to follow a career in engineering.

Interested?

If any of the above qualities sound like you, apply to the Curtin Indigenous Australian Engineering Summer School (IAESS) and discover the benefits of the engineering profession. It is open to students entering years 11 and 12 in 2011 and will be held at Curtin University’s Bentley campus, Western Australia.

What will it be like?

The objective of IAESS is to provide a challenging environment for Indigenous students to discover the benefits of the engineering profession, to provide a forum for students to meet engineering role models and to gain insights into the excitement and opportunities engineering can provide to our communities. During IAESS you will meet engineers, 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 job opportunities that are available within the profession.

Cost?

There is no fee for participating in the 2011 IAESS. Travel to and from Perth, as well as meals and accommodation for the duration of the program, are provided without charge to all participants. Your only financial need will be a bit of spending money while travelling, and during your stay in Perth.
‘I’d like to invite you to attend the Summer School. Past students have told me how it was a life changing experience for them. It will show you the exciting and varied career opportunities that are available to young men and women in the engineering profession. Engineering has an exciting future as Australia increasingly develops and applies its technological skills to improving the quality of life for all its people. You will learn about the various fields of engineering, visit engineering projects and meet with indigenous role models and young people presently studying engineering. I’m sure you will enjoy the experience and return home with a new and expanded vision of your future.’

THE HON BOB HAWKE AC, PATRON

WHAT WILL PARTICIPANTS DO?

The summer school normally involves hands on and challenging group work with one of Curtin’s engineering schools each morning, with afternoons spent on site visits to engineering companies and major projects, or interactive information sessions with industry partners of the summer school. The summer school promotes teamwork and communication skills, with several competitions to motivate and inspire both individual and group involvement. At the graduation dinner, you will have the opportunity to mix with numerous engineers and university staff. You will stay in campus accommodation within Curtin’s grounds for the duration of the program and get a taste of university life and a better understanding of engineering as a university course and career. All participants in the IAESS will be covered by insurance during the summer school. Curtin has public liability cover and a risk management office specialising in all insurance matters.

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 of Technology in Western Australia in 1983. CAS promotes the participation of Aboriginal and Torres Strait Islander people in tertiary studies, and aims to create new ways of learning and working that are culturally appropriate, for the benefit all people. Courses run through CAS focus on the skills and abilities needed when working within both the Indigenous and non-Indigenous community.

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. The CAS is instrumental in ensuring that all students at Curtin have an understanding of indigenous culture and is working with the University to implement indigenous content into all courses offered at Curtin.

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.

APPLICATIONS

Applicants will be selected for the IAESS on the basis of their interest in engineering related subjects (such as mathematics and science) and personal initiative and outlook, as expressed in the attached application form, and supported by those who know them. If you wish to apply for the Indigenous Australian Engineering Summer School please complete the application form and submit documents as indicated on the application form. Applications close on Monday 8th November, 2010.
The 2010 IAESS was an unforgettable experience for me. It opened up a lot of new doors and pathways that will help me with my future careers. It gave me a true perspective on engineering both the office and practical work involved. Out of the IAESS I met new people that will become a big help with my future career. So yes! I recommend this Summer School for whoever is interested in the engineering side of life.

Torey Rickerby, 2010 IAESS Participant, Derby

In January 2010 I was lucky enough to be a mentor at the Curtin Indigenous Australian Engineering Summer School. The IAESS program provides indigenous high school students an insight into the different disciplines within Engineering. Through practical involvement the students experience a piece of university life while having fun at the same time. As a past Curtin Mechanical Engineering graduate I am looking forward to being involved in Curtin’s second IAESS program especially relaying the many opportunities engineering has to offer.

Michael Hutton Beng (Mechanical), HisMelt

One of the greatest pleasures I have had in public life has been in meeting the students attending The Indigenous Australian Engineering Summer School annually. Without exception they have been young men and women of intelligence, capacity and determination and I always felt certain that the wisdom and leadership skills they gained from attending such a practical and well designed program of engineering activities would stand them in good stead.

I therefore ask that Indigenous communities across the country support the Summer School by nominating deserving candidates, and I strongly encourage the business, industry and university sectors to contribute generously in providing the essential financial, accommodation and mentoring support.

I look forward to seeing the Summer School go from strength to strength as it surely deserves to do.

Major General Michael Jeffery, AC, AO(MIL), CVO, MC (RETD) Vice Patron

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For further information:

For more information about IAESS and the application process please contact:

IAESS Program Manager
Faculty of Science and Engineering
Tel: 08 9266 7884
Email: iaess@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

Curtinovation

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For more information about IAESS and the application process please contact:

IAESS Program Manager
Faculty of Science and Engineering
Tel: 08 9266 7884
Email: iaess@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