

API Power Engineering Camp

If you are curious about climate change, sources of energy, renewable energy and ensuring growing populations get access to the power and facilities they need, then join us for **2011 API Power Engineering Camp** – four days of fun, hands-on activities, site visits, stimulating presentations and discussions. Come and immerse yourself in the world of power engineering, meet young engineers and like-minded peers, learn about existing and emerging challenges in power and energy and get some real answers.

This Camp can be a memorable and potentially a life changing experience for you. As commented by one of the participants: ***“I am now considering a career in Engineering - it is because of the people in Engineering that explained how they enjoy it”.***



Photo 1: API Camp presentation by graduate power engineer

The Camp gives you an opportunity to immerse yourself in the world of power engineering from the very first day through:

People

- Young power engineers share with you their real life industry experiences and talk to you about career opportunities in the power and energy sector;
- You will learn from leading university academic staff about technological advances and cutting edge research in energy and related fields;
- You get to network with current engineering students and API bursary holders;
- You have a chance to form new friendships with like-minded high schoolers from other local schools.



Photo 2: Solar Powered Water pump activity at API the Camp

Site Visits

- Through a number of site visits you get to experience and learn about many and varied aspects of the power industry – modern power stations and intelligent substations, advanced manufacturing plants, transmission and distribution of electricity, electricity markets.
- You will learn about existing and emerging challenges in power and energy sector.
- You will experience university laboratories and learning spaces and find out what the life is like on the university campus.

Activities

Under the guidance of engineering students you get opportunities to learn and challenge yourself in some of the following areas:

- build a working small scale replica of power distribution network;
- gain hands on experience with generation of electricity from wind, photo-voltaic and fuel cells;
- build a small computer to control an application involving LEDs (light-emitting diodes) and electronic components;
- build a digital multimeter and learn about components, basis electronics and soldering;
- get a taste of programming by building the game of 'Pong';
- experience what a consulting power engineer needs to do to deliver energy solutions for society by providing expert advice.

If you want to be challenged and inspired, join us at 2011 Power Engineering Camp

The Power Engineering Camp has been successfully run in Western Australia by Curtin University of Technology and in Queensland by The University of Queensland. Due to continued interest, the plans are to expand it to New South Wales in 2011.

Who can attend:

- Year 10 and 11 students in WA, QLD and NSW (metropolitan and regional areas).
- Teacher or parent to accompany students from participating school.

Registration:

- Free of charge, with travel and accommodation allowances available to students from regional WA, QLD and NSW.

Contacts:

- **Curtin Power Engineering Camp** – more information and Application Forms are available through high schools and also online at: <http://engineering.curtin.edu.au/outreach> or contact the WA Program Manager, Larissa Andrews on 08 9266 7884.
- **Queensland Power Engineering Camp** – for more information contact the QLD Program Manager, Adriana Bodnarova on 07 3138 5170 or by email a.bodnarova@qut.edu.au.