



# POWER ENGINEERING CAMP 2011

Sponsored by Queensland University of Technology  
and The University of Queensland

Engineers are innovative problem solvers who are leaders in the design and production of almost every modern consumer and industrial product we take for granted today - just flick a light switch, turn on the tap, answer a phone, open packaged foodstuffs or drive a car. These are all the results of engineering ingenuity, design and project management. Our energy systems rely on highly skilled power engineers for their reliability, environmental protection and cost effectiveness.

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, the Power Engineering Camp will give you an opportunity to explore these topics as well as create your own solutions and get some answers.

## CAREER OPPORTUNITIES

If you want excellent career prospects, a qualification that enables you to work around the world and to apply your skills to challenging local and global energy problems, a career in power engineering could be right for you.

Australian energy industry investments are worth more than \$120 billion and engineers of all disciplines are integral to continue building and operating Australia's infrastructure. A career in engineering is a good investment in your future.

If you are interested in learning more about careers in power engineering, visit [www.api.edu.au](http://www.api.edu.au) and [www.powerengineering.org.au](http://www.powerengineering.org.au)

## CAMP DETAILS

**Dates:** Tuesday 5 – Friday 8 July 2011

**Times:** From 9:00am until 3:00pm - every day except for Friday's BBQ concluding at 5pm

**Venue:** Faculty of Built Environment & Engineering, Queensland University of Technology – Gardens Point Campus, Brisbane

## PROGRAM

This four-day camp will enable students to immerse themselves in the world of power engineering from the very first day. In addition to meeting young engineers from industry and learning about existing and emerging challenges in power and energy, students will make site visits to get to experience and learn about varied aspects of the power industry - modern power stations and intelligent substations, advanced manufacturing plants, transmission and distribution of electricity, electricity markets. Students will also experience real university laboratories and learning spaces, get to talk to current engineering students and find out what the life is like on the university campus.

### Power engineering projects

Students will also work on projects in the following areas:

- The town of Wattsville needs a power transmission system. Your job as part of the engineering team is to deliver a working small scale replica of Wattsville's power distribution network. You are required to build the network to prove your design is superior to your competitor's network. You will have a limited amount of time and funding to deliver a model acceptable to the residents of Wattsville.
- As a consulting power engineer, you will need to help deliver energy solutions for society by providing expert advice to important decision makers and stakeholders such as government, industry, policy makers, community groups and consumers. You will need to explore various issues and make recommendations.



## REGISTRATION

**Who can attend:** the Power Engineering Camp is open to Year 10 and 11 high school students.

**To Register:** fill out the 'Registration Form' supplied or contact Adriana Bodnarova on 07 3138 5170 or by email on [a.bodnarova@qut.edu.au](mailto:a.bodnarova@qut.edu.au)

**Cost:** FREE for participating students and teachers. The camp is being sponsored by the Australian Power Institute – [www.api.edu.au](http://www.api.edu.au).

*Note: The camp is limited to 30 students, so make sure you register soon. A teacher from each participating school is also invited to attend.*