



Engineering – what's that? Ask UTS Engineering!

UTS: ENGINEERING

Australia's leader in practice-based education

engineering *Links* FOR SCHOOLS - 2008

Our Engineering Links Program links engineering and education, bringing science, technology and design to life.

This leaflet provides details of all the activities, events and resources organised by UTS:Engineering.

Please use our program for your own teaching needs and pass this leaflet on to other interested staff members, particularly teachers in Maths, Science, Geography, Engineering Studies, Technology (Mandatory and electives), Computer Subjects, and Careers Advice.

Our staff and students can support your teaching in a variety of ways. As a result of our 12-month engineering internship program, our students have an insight into engineering as a career option that is not obtained from straight academic programs. They can give your students an excellent picture of the engineering profession.

The Engineering events, activities and resources listed here have been organised to support the needs of you and your students. Other needs can be met by discussing them with our Engineering Outreach Co-ordinator.

CONTACT DETAILS

Betty Jacobs
Engineering Outreach Co-ordinator
Faculty of Engineering,
University of Technology Sydney
PO Box 123, Broadway, NSW 2007
Phone - (02) 9514 2450
Fax - (02) 9514 7803
Email - Betty.Jacobs@uts.edu.au
Website - <http://www.eng.uts.edu.au/links>

PLEASE CIRCULATE TO TEACHERS OF:

Maths
Science
Geography
Engineering Studies
Design and Technology
Technology Mandatory
Technology Electives
Computer Subjects
Careers Advice



**UTS ENGINEERING
SCHOLARSHIPS
ROUND 1 APPLICATIONS
CLOSE 30 MAY 2008**

**NEW IN
2008**

ENGINEERING EVENTS and ACTIVITIES at UTS

NAME	DESCRIPTION	DATE	WHO CAN ATTEND	CONTACT	BOOKING REQUIRED	CLOSING DATE FOR BOOKINGS
ENGINEERING LAB TOURS & ACTIVITIES	The Expo provides an opportunity for you and your students to: * experience hands-on engineering * explore engineering career-paths * find out about university life * talk to an engineer * visit selected engineering labs to see a variety of demonstrations	To suit your program	Year 7-12 classes or Science Clubs, Gifted and Talented Groups, Youth Groups	Betty Jacobs 9514 2450 or englinks@uts.edu.au	Yes – by phone	One month prior to date of event
WORK EDUCATION PROGRAM	An opportunity for students to spend a week in an engineering environment completing a workplace research project	23-27 June 2008 and 24-28 Nov 2008	Year 10 students interested in the engineering workplace.	Betty Jacobs 9514 2450 or englinks@uts.edu.au	Yes – Booking form available from www.eng.uts.edu.au/links .	Places and dates are limited so book early. Limit of one student per school each week.
WOMEN IN ENGINEERING HANDS-ON DAY	A one day event for Year 10-12 girls to meet young engineers and undergraduates and explore possibilities for engineering careers with other school students.	Wed 14 May 2008	Girls from Year 10, 11, 12	Women in Engineering Unit 9514 2602 9514 2601.	Yes - Booking form available on request.	Apr 2008. Places are limited so book early.
UTS INFORMATION DAY	An open day for all UTS courses. Information booths, lectures and activities.	30 Aug 2008	Year 10, 11 12 students	Engineering Info Line 9514 2666 or engineering@uts.edu.au	No	
ENGINEERING SCHOLARSHIP INFORMATION EVENING	An information evening for those interested in applying for the engineering co-operative scholarship program.	Early April.	Year 11 & 12 students, Careers Advisers, Parents	Engineering Info Line 9514 2666 or engineering@uts.edu.au	Yes – by phone or email	Watch the web for more information and updates www.eng.uts.edu.au
ENGINEERING INFORMATION EVENING	An information evening for those interested in applying for the engineering course at UTS. Why is UTS different?	Early June	Year 11 & 12 students, Careers Advisers, Parents	Engineering Info Line 9514 2666 or engineering@uts.edu.au	Yes – by phone or email	Watch the web for more information and updates www.eng.uts.edu.au
UTS ADVISORY DAY	An open day with information for all UTS courses. Focussing on students making their final UAC choices.	Early Jan 2009	Year 12 students finalising UAC applications	Engineering Info Line 9514 2666 or engineering@uts.edu.au	No	Watch the web for more information and updates www.eng.uts.edu.au

ENGINEERING ACTIVITIES at YOUR SCHOOL

NAME	DESCRIPTION	DATE	WHO CAN ATTEND	CONTACT	BOOKING REQUIRED	CLOSING DATE FOR BOOKINGS
CAREER TALKS	<p>We can arrange a visit by staff and/or students from UTS to talk to your students about Engineering options at UTS.</p> <p>As part of their training in communication, engineering students at UTS are required to give an oral presentation to an appropriate audience. Some students like to go to their old school to talk about their engineering experiences and the special features of the course at UTS.</p>	To suit your program	Year 10, 11, 12 classes	Betty Jacobs 9514 2450 or enlinks@uts.edu.au	Yes – by phone	One month prior to date of event
CLASSROOM WORK UNITS	<p>Engineering students at UTS can work with teachers to:</p> <ul style="list-style-type: none"> * organise an engineering event or challenge * develop a unit of work * talk to your class on an engineering topic * find information and resources * design resources for your teaching program * engage your students in hands-on engineering experiences * develop web-based resources to support your teaching program 	To suit your program	Year 5 – 10 classes	Betty Jacobs 9514 2450 or enlinks@uts.edu.au	Yes – by phone	One month prior to date of event
TRAVELLING ENGINEERING ACTIVITIES & EXPO	<p>The Expo can travel to country schools (or Sydney-based classes can participate at UTS in our Engineering Education Centre). The Expo provides an opportunity for your students to:</p> <ul style="list-style-type: none"> * experience hands-on engineering * explore engineering career-paths * find out about university life * talk to an engineer 	To suit your program	Year 7-10 classes or Science Clubs, Gifted and Talented Groups, Youth Groups	Betty Jacobs 9514 2450 or enlinks@uts.edu.au	Yes – by phone	One month prior to date of event
SYDNEY WOMEN IN ENGINEERING & IT SPEAKERS' PROGRAM (SWIEIT)	<p>Visits to schools by a female UTS undergraduate student and representatives from engineering companies. Speakers talk about</p> <ul style="list-style-type: none"> * the influences they have had through their lives that led to an engineering or IT career choice * what it was like when they faced subject and career choices in high school * obstacles they have had to overcome * highlights they have enjoyed. 	To suit your program	Girls from Year 10, 11 12.	Women in Engineering Unit on 9514 2602 or 9514 2601.	Yes - Booking form available on request.	Places are limited so book early.

RESOURCES FOR SALE

ORDERING RESOURCES - To find out more, order resources or book an activity, use the contact details on the front of this program. On receipt of a school order the goods will be sent and the school invoiced.

Cheques must be made payable to the *University of Technology Sydney (ABN 77 257 686 961)*, and sent to the address provided on the invoice.

TITLE	AUTHORS	COST	DESCRIPTION
THE AERONAUTICAL INDUSTRY	Linton Foat and Betty Jacobs	\$20	A teacher resource package for Engineering Studies teachers. This resource describes the Aeronautical Engineering section of the NSW syllabus and provides a wide range of activities and web references for students and teachers.
BIOMEDICAL ENGINEERING	Steven Wyatt and Betty Jacobs	\$20	A teacher resource package for Engineering Studies teachers. This resource describes the Biomedical Engineering section of the NSW syllabus and provides a wide range of activities and web references for students and teachers.
TELECOMMUNICATIONS	Edward Chan and Betty Jacobs	\$20	A teacher resource package for Engineering Studies teachers. This resource describes the Telecommunications Engineering section of the NSW syllabus and provides a wide range of activities and web references for students and teachers.
ENGINEERING REPORTS	Betty Jacobs	\$20	A teacher resource package for Engineering Studies teachers. This resource describes the importance of engineering reports, how to read them and how to write them. It contains sample engineering reports, activities that relate to the NSW syllabus and provides references for students and teachers.
CIVIL ENGINEERING	Anne Gardner & Betty Jacobs	\$20	A self-guided tour of the historical and modern civil structures of Australian Technology Park. Includes worksheets and answers. Suitable for Engineering Studies teachers and students.
TAKING ON TECHNOLOGY	E.Taylor & S.G.Huckstep	Free with other orders, \$20 as a single order	A kit for High School teachers with easy to use science and technology related activities. This resource: <ul style="list-style-type: none"> • presents a model of learning that includes the learning styles of girls as well as boys. • provides examples and strategies for putting this model into practice in science and technology classrooms. • provides a comprehensive range of activities and projects that encourage interaction, critical thinking and team work in science and technology areas.

OTHER RECOMMENDED RESOURCES

More resources are listed on our website at www.eng.uts.edu.au/links

PROFESSIONAL DEVELOPMENT FOR TEACHERS

If you are looking for professional development opportunities you can enrol in introductory engineering subjects to update your understanding in a variety of engineering fields. Introductory subjects are offered in Civil, Electrical, Mechanical & Mechatronics, Design Fundamentals, Manufacturing, Telecommunications, Object Oriented Programming, Object Oriented Design and more.

More info about subjects can be found at www.eng.uts.edu.au/links.

Contact the Engineering Outreach Co-ordinator above for more details or to arrange a professional development course on a topic to meet your needs. Special Professional Development sessions can be developed for a minimum number of 10 teachers.