Do you enjoy maths, science and systems engineering subjects at school? Have you considered pursuing a career in these areas? Maths, science and engineering shape our day to day lives. For example:

- **Who produces your breakfast?** Farmers, food scientists and technologists, nutritionists
- **Who takes you to school?** Design & development engineers, petrochemical engineers, automotive engineers, automotive electricians, environmental scientists, mechanics, materials scientists
- **Who built your school?** Architects, surveyors, structural engineers, electricians, plumbers, carpenters
- **Who assists your learning?** Teachers, journalists, film producers, software designers, publishers, writers
- **Who helps you exercise?** Exercise scientists, physiotherapists, sports psychologists
- **Who keeps you healthy?** Doctors, nurses, pharmacists, biomedical scientists
- **Who contributes to your spare time?** Computer game developers, music technologists, product designers, sound and lighting technicians.

**Exploring maths, science and engineering degrees**

**MATHEMATICS:** If you are a logical and analytical person who enjoys solving problems with numbers, you may like to explore a career in mathematics, statistics and actuarial studies.

Employment for actuaries, mathematicians and statisticians to 2017 is expected to grow very and rose very strongly over the past five years.

**SCIENCE:** There are several broad disciplines in science. The following are examples-

- **Physical science** is for people who like to ask questions about why things are the way they are in the world around us. School subjects include Chemistry and Physics.
- **Computer science** is for people who like to understand how computers work and to learn how develop new programs and systems.
- **Life sciences** is for people who like to ask questions and think about living things and covers areas such as medicine, biology and ecology.
- **Astrophysics** is for people who are fascinated with the universe, stars and space exploration.
- **Earth science** is for people who are interested in soil, rocks, weather and the natural environment.

Thousands of new jobs for science professionals will be created over the next 5 years. Demand for health science graduates in areas such as audiology and dietetics, natural and physical scientists, and life scientists will be high. For more information about science careers, browse the following links-

ENGINEERING: If you are practical, like to know how things work and enjoy analyzing and solving problems, you should explore careers in Engineering.

You can blend engineering with an area you are passionate about. Types of engineering include (and are not limited to):

- Civil
- Chemical
- Mechanical
- Electrical
- Systems
- Biomedical
- Environmental
- Marine
- Metallurgical
- Structural
- Coastal
- Mechanical
- Robotics
- Computer
- Mechatronic
- Aeronautical
- Automotive
- Mining
- Sound
- Electronics

Thousands of new engineering jobs will be created over the next 5 years, many of these in management, chemical, materials, and telecommunications, which will all be in demand.

Check out the following sites:

- www.engineersaustralia.org.au/

OTHER - SURVEYING

Have you considered surveying? If you enjoy subjects like math, science, and IT, enjoy being outdoors, would like to travel nationally and globally and earn good money, this is a great career to explore. Surveyors are needed to assist with:

- Building roads and cities
- Defining property
- Finding and mining mineral resources
- Measuring changes in the earth
- Understanding waterways
- Finding ancient ruins and
- Developing Google Earth etc.

If you would like to find out what surveyors do, where you can study surveying, to watch videos and read career profiles, and learn about doing work experience go to www.alifewithoutlimits.com.au

Skills shortage area: oral health - Are you interested in health and science? Have you thought about dentistry but concerned you won't receive the required ATAR? You may be interested in exploring the following occupations:

- **Dental Nurse/Assistant**: assists dental team, supports patient, sterilisation of equipment, prepares dental materials, maintains client records etc.
- **Dental Hygienist**: educates patients about prevention of disease, treats oral diseases, and provides dental treatments
- **Dental Therapist**: examines and treats diseases of the teeth in children and adolescents under the supervision of dentists
- **Dental Technician**: designs and constructs dentures, crowns, impression trays, oral splints etc.

For information on these career areas, go to the Australian Dental Association - http://www.ada.org.au/

Commerce versus economics: Which would you be more suited to? The Australian School of Business, UNSW, has developed a video to help you decide. They have also developed a video focused on careers in economics. To download both, go to

- http://www.youtube.com/watch?v=ihTLKhTAQi4
- http://www.youtube.com/watch?v=rqWXw-4kn8k

Learn about societies and student clubs at the University of Melbourne: There are 147 clubs and societies students can join at the University. These include religious, cultural, sports, recreation, languages etc. To find out about the clubs, watch the video at this link-

- http://www.youtube.com/watch?v=38PaZezUVgKU &feature=youtube
Are you the first in your family to go to university? Whilst you can receive lots of support from your school and past students you may know, it can be difficult for families to understand university jargon, the processes involved to apply for courses, what university will be like, and how to pick the best course for you. Deakin University has created a website just for students who will be first in their immediate family to attend university: [http://deakin-first-in-family.tumblr.com/](http://deakin-first-in-family.tumblr.com/)

**Exciting news about commerce at Deakin:** The Bachelor of Commerce is now internationally recognised and EPAS accredited by the European Foundation for Management Development’s Programme. It is the only commerce degree in Australia with EPAS accreditation. For more information, go to [http://www.deakin.edu.au/buslaw/](http://www.deakin.edu.au/buslaw/)

**Marcus Oldham College** offer courses in Horse Business Management, Agribusiness and Farm Business Management. It is located at Geelong, Victoria and is a private college. They have just released the list of scholarships available for the 2015 intake. For a list of the scholarships, closing dates and interview times, please go to [www.marcusoldham.vic.edu.au](http://www.marcusoldham.vic.edu.au)

**Work Experience of a Lifetime program:** Victoria University is offering 10 lucky Year 10 and 11 Victorian students the opportunity to undertake work experience with one of Australia’s top companies including Nova, Honda, Mushroom Group, and global advertising agency Leo Burnett. Applications are now open! For more information and to apply, go to [http://www.vuworkexperience.com.au/index.html](http://www.vuworkexperience.com.au/index.html)

**The Heywire competition** is open to people aged 16 – 22, to submit a story about life in regional Australia. Your story can be created in any form of media: text, video, photography, or audio. If you are selected as one of the winners, your story will be featured on ABC Local Radio, ABC Radio National, ABC TV and abc.net, [www.abc.net.au/heywire](http://www.abc.net.au/heywire)

**International study tours through Deakin:** Did you know you can undertake short term study tours as part of your degree at Deakin University? Study tours are a great way to experience a bit of the world while earning credit towards your degree. This year, Deakin’s Faculty of Health will be running tours to:

- The United States of America for food and nutrition students;
- Cambodia for health students (including those studying public health and health promotion, health sciences, social work and occupational therapy); and
- The Philippines, Bhutan, China and Thailand for nursing and midwifery students

For more information, go to [https://study-abroad.deakin.edu.au/](https://study-abroad.deakin.edu.au/)

**Accounting scholarship at UTS:** If you are considering applying for the Bachelor of Accounting at University of Technology Sydney, you have until 6 June to apply for the scholarship program which is worth over $46 500. For information on how to apply, go to [http://www.uts.edu.au/future-students/business/business-study-areas/accounting/bachelor-accounting](http://www.uts.edu.au/future-students/business/business-study-areas/accounting/bachelor-accounting)

**Amazing new university resource!** Four NSW based universities have created a new website to assist students and their families to learn about the university system, how to afford to study at university, what life as a student is like compared to school, and how to choose a course that will suit you. The website link is [http://www.makeyourmark.edu.au/](http://www.makeyourmark.edu.au/)

**UNSW Co-op Scholarships:** The UNSW Co-op Program offers industry linked scholarships to high achieving students in the fields of Business (Commerce), Science, Engineering and the Built Environment. Scholarships are worth $16,750 per year tax free and there are many other benefits such as leadership programs, industry work experience and academic mentoring. To find out more, go to [http://www.coop.unsw.edu.au/](http://www.coop.unsw.edu.au/)
**UPCOMING EVENTS**

**MYDAY Education & Teaching:** Charles Sturt University is hosting a career day focusing on their Early Childhood & Primary and K-12 (Middle Years) programs at the Albury Wodonga Campus. The event will be held Friday 13 June. To register, go to [http://www.csu.edu.au/go/myday](http://www.csu.edu.au/go/myday)

**Trinity College Young Leaders School:** Trinity College at the University of Melbourne is running an intensive residential program for talented students. You can choose a one or two week academic stream. Students will have the opportunity to undertake academic programs from one or two of the following streams:

- Arts/ Humanities
- Biomedicine
- Commerce
- New York Jazz Symposium
- Fine Arts
- Leadership for Social Justice
- Commerce

The program will run between 29 June – 6 July and 6 - 13 July. Scholarships are available. Applications close 30 May. For more information and to apply, go to [www.trinity.unimelb.edu.au/young_leaders](http://www.trinity.unimelb.edu.au/young_leaders)

**Medicine and Optometry Evening:** Deakin University invites you to attend an information evening to learn more about the School of Medicine. They will discuss the degrees offered in the School including Bachelor of Medicine/ Bachelor of Surgery, Bachelor of Vision Science / Master of Optometry and research opportunities. The event will be held between 6 – 7.30pm at the Geelong Waurn Ponds Campus on 20 May, [http://www.deakin.edu.au/health/medicine/](http://www.deakin.edu.au/health/medicine/)

**Go Girls Go for IT!** This is a free IT career showcase run by the Victorian ICT for Women network for all Secondary School girls to experience the incredible range of vocational avenues that are available in IT. It is being held at Deakin University, Burwood Campus on the 12th August 2014 - See more at: [http://gogirl.org.au/](http://gogirl.org.au/)

**UPCOMING EVENTS - MAY**

- 20: Medicine & Optometry Information Session at Deakin, [www.deakin.edu.au](http://www.deakin.edu.au)
- 21, 28: Deakin Parent and Student Tertiary Information Evenings, Melbourne (21) and Geelong (28), [www.deakin.edu.au](http://www.deakin.edu.au)

**UPCOMING EVENTS - JUNE**

- 2: Aviation Careers Expo, Swinburne University, Hawthorn Campus, register by 30 May, [www.swinburne.edu.au](http://www.swinburne.edu.au)