



ENGINEERS
AUSTRALIA



CELEBRATING
OUR CENTENARY

Inspiring Engineering Futures

Current Activities & Dates for 2019
Planning Purposes

Engineering is the practical application of Science, Mathematics & Technology for the benefit of the community. Engineers use maths & science to solve world problems – it is the clever ways that engineers use their knowledge that makes them unique.

– UNSW Engineering.



Current Activities & Dates for 2019:

CASE2019 – Autumn school of engineering



Partnered with Cochlear

Monday 15 – Thursday 18 April 2019 [Registration Open >](#)

4 Day Engineering School for Year 11 & Year 12 Students

Cochlear Autumn School of Engineering is a 4 day program for 100x Year 11 & Year 12 school students studying Maths, Science, and Engineering Studies

Enjoy immersive workshops at University of Sydney, University of NSW, UTS, and Macquarie; and see behind the scenes at RAAF Richmond, ANSTO, and Cochlear. Meet current engineering students who act as Team Leaders during the course.

Includes: Careers Evening with Young Engineers & Graduates

Non Residential Program – departing each morning from UTS campus, Central Station area.

Girls Talk evenings



May 2019 - 5.30pm – 7.30pm

Come to our 'Girls Talk' evening in Newcastle where you'll hear from female engineers from various specialty areas including some you might never have even heard of! They'll share information on projects they've worked on, give a snapshot of what their day to day engineering life entails, tell you where their career has taken them and what inspired them to choose engineering as a profession.

This presentation is just for the girls—open to female students from years 7-12 who are interested in a career in engineering, maths or science or just want to hear what engineering is about. Bring along your parents or your Maths & Science teachers. You'll have the chance to talk to representatives from the University of Newcastle and the Hunter Institute of TAFE about course information and the best subjects to select.

Contact our Newcastle office via email jdennis@engineersaustralia.org.au

Engineering Studies – Teacher Program



4.00pm – 6.00pm Thursdays

Over the past few years Engineers Australia has worked with Engineering Studies teachers in the Newcastle area to develop an understanding of the needs of these teachers in the effective delivery of the Engineering Studies curriculum.

Sessions and Webinars cover the eight modules within the NSW curriculum and are held in week 3 and week 7 of each term. The course is accredited by NESAs and details can be found at:

engineersaustralia.org.au/For-Students-And-Educators/NESA

Contact our Newcastle office via email jdennis@engineersaustralia.org.au



Discover Engineering Days

11 March, 8 May, 12 June , 20 June, 25 June & 11 August



One Day Workshop For Years 8, 9 & 10

Discover Engineering Days is a program that is run four times a year by Engineers Australia Sydney. A host school is selected and surrounding schools are then invited to participate in a day of presentations and hands on activities. The host school is in a different geographical location each time to allow the program to spread throughout Sydney Metropolitan Area. We cap this event at 150 students, Years 8–10.

Key Learnings:

- Why be an Engineer?
- What do Engineers do?
- Examples of Engineering Projects
- How do you become an Engineer?

Venues: (dates TBC)

- Chatswood High School – 11 March 2019 [Registration Open >](#)
- ANSTO – Wednesday 8 May 2019 Registration Open
- Charles Sturt University, Bathurst – 12 June 2019
- Riverina: Wagga Careers Fair – 20 June 2019
- Parramatta Area – venue to be confirmed – 25 June 2019
- University of Wollongong Open Day – 11 August 2019 tbc

EXPERIENCE IT! 2019

Friday 5 July 2019* at Macquarie University

Friday 27 September 2019 at University of Wollongong



For girls who love to solve problems, are creative, and want to make a difference in the world!

8 universities collaborating with 8 engineering businesses in delivering group activities. Led by Engineers Australia's NSW Women in Engineering Society, Experience It! aims to inspire girls to know that they can achieve many, and great things.

2018 Universities included: USYD, UNSW, UTS, Macq; UoW; WSU; ANU & CSU

2018 Companies included: Sydney Metro; Resmed; Westconnex; Honeywell; Endeavour Energy

*One Day Immersion & Workshops School Girls from Years 7, 8, 9 & 10

Venues:

Wollongong University & Macquarie University

Includes:

Parents & Teachers attending the Burning Questions about Engineering Panel with Industry, Academic and Government representatives; current Engineering Students and members of the EA Sydney Women in Engineering Society.

[2018 Video >](#)



Engineering Futures

Thursday 26 September 2019



Engineering Industry & Academia Expo for Years 6–11

1st staged as part of Engineers Australia's National Conference STEM CELL day - co-hosted with NSW Office of the Chief Scientist & Engineer.

- Inspiring our future engineers! Industry, Academia & Government engaging with primary & secondary school students with age appropriate activities within the Expo.
- Involving key NSW & ACT Universities showcasing their top student led projects and installations from Industry
- A “controlled” open day for around 1000 STEM students from Years 6 – 12
- Teachers & Parents discussions/forums to introduce this creative & exciting industry

Engineering Summer School 2019

Partnered by Honeywell



Sunday 8 – Friday 13 December 2019

Fully Residential School for Students sitting HSC in 2020

Engineering Summer School (HESS) fully residential 5 day program for 100 school students. Students are accommodated in International House at University of Sydney from Sunday 8 through to Friday 13 December.

In 2018 the students enjoyed immersive workshops at University of Sydney, University of NSW, UTS, Macquarie & University of Wollongong; and saw behind the scenes at RAAF Richmond, Bluescope Steel, Cochlear, Thales, and Transport for NSW Training Centre. (the program may vary slightly for 2019)

Includes:

Career Night with Young Engineers & Graduates/ Official Awards Dinner

Please note: *The courses Experience It!, Engineering Summer School and Autumn School of Engineering are recognised by involved universities. Attendance is acknowledged and can contribute to supporting each student's ATAR scores when applying for degree courses.*

Inspiring Engineering Futures – In School

Engineers Australia's support to your school

Please contact **Caryn Morgan** on the details below regarding Engineers Australia's involvement in your Careers Nights or Expos. We are keen to be involved where we can!

Inspiring engineering futures – in the classroom!

It is also possible to source Engineers Australia's members to engage with your students in the classroom!

Engineers Australia Sydney Division has more than 23,000 members – many wishing to be involved in S.T.E.M. activities in schools. They want to support your teachers and inspire your students.

We have regional groups all over NSW who work in Engineering – who would be thrilled to come to talk about their work and work within your area!

Potential for industry assistance with Senior Students' Depth Studies

Career nights & careers fairs

Including Super Science Saturday as part of Science Week.

EA Sydney Division is involved in various school cluster careers nights from Sydney Metropolitan area to as far as Coffs Harbour in the North to Gundagai in the Central West, and Mildura in the South.

Activities: Young Engineers from EA Partner companies; activities by our Discover Engineering Team, talks by EA Sydney President and General Manager

Information from You: If your region has an annual Careers Fair, or your school is part of a group of schools (eg: North Shore 5); or you have plans of your own—let us know the dates and we will endeavour to be there!

Burning questions panels

Available as part of School Careers Fairs & Careers Nights

Targeting Parents and Teachers - they are the gate-keepers and unconsciously can underpin gender bias.

We invite members of Engineers Australia's Young Engineers and Women in Engineering Societies; our University partners; and leaders from industry to answer questions directly from the audience. Our panellists describe their engineering journeys and illustrate the amazing variety available.

Key Questions:

- What is Engineering? How do you become an Engineer?
- What maths should their children be studying? To Year 10, and in Year 11 & 12?
- What are the study options? TAFE v. Degree
- What support is available to students and to parents & teachers?
- What does the future look like? IoT, digital, systems and of course Quantum

Caryn Morgan

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