“There is nothing I believe in more strongly than getting young people interested in science & engineering, for a better tomorrow, for all humankind.”

Bill Nye, Science Educator & Mechanical Engineer

Monday 13 July – Friday 17 July 2020

Online: Register for details

Engineering Your Future is an online program to support high school students to learn more about opportunities in engineering.

Held during the July school and University holidays, attendees will have access to a range of information sessions across engineering disciplines, including live Q&A with Engineers working from multiple sites on various projects.

From Civil and Structural to Nuclear: learn about amazing projects and “a day in the life” of these Engineers, with everything you could want to read, watch and download about Engineering all in one place.

Hear from students and academics to learn more about accredited Engineering Universities and their courses, find out about alternative pathways, and start making connections with Engineering students and Engineers – find your tribe!

Interested in Smart Cities? Join the hands-on workshop Wednesday, 1.30–3pm where you’ll use an IoT based data platform for connecting and improving entire urban ecosystems.

We welcome first and second year university students, parents, teachers and career advisors to learn more about the opportunities represented by Engineering.

engineersaustralia.org.au

TICKETS
No charge!

CONTACT
stemnsw@engineersaustralia.org.au

NSW GOVERNMENT

Supported by NSW Office of Chief Scientist & Engineer

REGISTER NOW
## Your program for the week

### Monday 13 July

<table>
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<th>Time</th>
<th>Event</th>
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| 10.00–10.20am | Welcome to Engineering your Future!  
Dr Bronwyn Evans, CEO Engineers Australia  
Why Engineering? The Future of Engineering |
| 10.45–11.45am | Dolby Australia  
Visit Opal Lab – a fully integrated home/office (incl Dolby surround sound!)  
Areas of engineering: Electrical; Sound; Software; Data Signal Processing |
| 2.00–4.00pm   | Engineering Expo  
See below |

### Tuesday 14 July

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| 10.00–11.00am | A Tunnel Project  
Areas of engineering: Specialist Civil, Structural, Geomechanical, Geotechnical Engineers, plus Design; Materials; Project & Risk Engineers and more! |
| 12.00–1.00pm | Australian Centre for Field Robotics  
Research, development & application of autonomous & intelligent robots & systems  
Areas of engineering: Mechanical; Mechatronics; Electrical; Electronics; Design; Software |
| 2.00–4.00pm   | Engineering Expo  
See below |

### Wednesday 15 July

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<th>Time</th>
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| 10.00–11.00am | UGL  
Areas of engineering: Electrical; Mechanical; Systems; Project Management |
| 12.00–1.00pm | Sydney Metro West  
Areas of engineering: Civil; Structural; Electrical; Mechanical; Systems; Project Management |
| 1.30–3.00pm   | Smart Cities Workshop  
See below |

### Thursday 16 July

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<th>Time</th>
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| 10.00–11.00am | SMEC – Snowy Hydro 2.0  
Areas of engineering: Electrical, BIM, Construction; Civil; Tunnels; Structural; Risk & Project Controls; Design; Geomechanical; Geotechnical |
| 12.00–1.00pm | ANSTO  
Learn about the OPAL multi-purpose reactor, the Synchrotron, the Centre for Accelerator Science, and the Centre for Neutron Scattering |
| 2.00–4.00pm   | Engineering Expo  
See below |

### Friday 17 July

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| 10.30am–12.00pm | Cochlear  
The Cochlear story, how hearing works, product portfolio, engineering and working at Cochlear.  
Areas of engineering: Electrical; Mechanical; Systems; Mechatronics; Process; Software & more |
| 12.15–1.30pm | Engineering at Uni  
Live Q&A session with University Students studying various Engineering degrees |
| 1.30pm      | Close                                                                      |

Visit the Engineering Expo Stands (manned 2–4pm Monday–Thursday) to gather all the information you need in one place and chat about Engineering courses!

Leave your questions at any time and they will be answered by text, or make an appointment.

The Engineering Expo will include: University of Sydney; University of NSW; University of Technology Sydney; Macquarie University; Western Sydney University; University of Wollongong; University of Newcastle; Charles Sturt University; Australian National University; TAFENSW; Transport for NSW; University Admissions Centre; Defence Force Recruiting
### University Courses

#### Australian National University
- Bachelor of Engineering: Honours + Research & Development
  - Electronic & Communication Systems; Mechanical & Material Systems; Mechatronic Systems; Photonic Systems; Renewable Energy Systems; Biomedical Systems.
  - Software (Honours only)

#### Charles Sturt University
- Bachelor of Technology/Master of Engineering (Civil Systems)
  - Geotechnical; Structural; Water

#### Macquarie University
- Bachelor of Engineering (Honours) with a major in:
  - Civil; Electrical; Electronics; Mechanical; Mechatronic; Software; Telecommunications

#### TAFE NSW
- Certificates, Diplomas and Advanced Diplomas of Engineering are available on various TAFE campuses:
  - Electrotechnology; Mechanical; Maritime Operations & Marine; Manufacturing; Mechatronic; Fabrication & Welding; Hydraulics & Pneumatics; Polymer Technology; Machining
  - See Opportunities

#### University of NSW (Sydney)
- Bachelor of Engineering (Honours):
  - Aerospace; Bioinformatics; Materials Science & Ceramic; Chemical; Civil; Civil with Architecture; Computer; Electrical; Environmental; Geospatial; Industrial Chemistry; Mechanical & Manufacturing; Mechanical; Mechatronic; Mining; Petroleum; Photovoltaics & Solar Energy; Materials Science & Process Metallurgy; Renewable Energy; Software; Surveying; Telecommunications

#### ADFA/DFR
- Bachelor of Engineering (Honours) + Chief of Defence Pathway (CDF):
  - Aeronautical; Civil; Electrical; Mechanical

#### University of Newcastle
- Bachelor of Engineering (Honours):
  - Chemical; Civil; Computer Systems; Electrical & Electronic; Environmental; Mechanical; Mechatronics; Renewable Energy; Software
- Combined: Civil/Environmental; Electrical & Electronic/Computer Systems; Mechanical/Mechatronics

#### University of Sydney
- Bachelor of Engineering + Bachelor of Engineering (Honours):
  - Aeronautical; Biomedical; Chemical & Biomedical; Civil; Electrical; Mechanical; Mechatronics; Software
  - Combined: Aeronautical/Space; Civil/Construction Mgmt; Civil/Environmental; Civil/Geotechnical; Civil/Structures; Electrical/Computer; Electrical/Power Engineering; Electrical/Telecommunications; Mechanical/Space; Mechatronic/Space

#### University of Technology Sydney
- Bachelor of Engineering (Honours) + Diploma of Professional Engineering Practice:
  - Biomedical; Civil; Civil & Environmental; Data; Electrical; Electronic; Mechanical; Mechanical & Mechatronic; Mechatronic; Software. Flexible Major allows the opportunity to design an interdisciplinary Engineering degree.

#### Western Sydney University
- Bachelor of Engineering (Honours) and Bachelor of Engineering (Honours/Scholar):
  - Architectural; Biomedical; Civil; Computer; Electrical; Environmental; Materials; Mechanical; Mechatronic; Mining; Telecommunications

- Bachelor of Engineering Honours Double Majors:
  - Civil & Environmental; Civil & Mining; Mechanical & Materials; Mining & Environmental; Mining & Materials; Computer & Telecommunications; Electrical & Computer; Electrical & Telecommunications

- Bachelor of Engineering Advanced (Honours) + Bachelor of Engineering (Honours):
  - Civil; Construction; Electrical; Mechanical; Robotics & Mechatronics

- Alternative Pathways:
  - Bachelor of Engineering Science (Engineering Technologist) – offered at Penrith & Parramatta Campuses:
    - Civil; Construction; Electrical; Mechanical; Robotics & Mechatronics
  - Bachelor of Engineering Science (Engineering Technologist) – offered at Sydney City Campus:
    - Civil; Electrical; Mechanical

- Associate Degree of Engineering – The College Campus:
  - Civil; Electrical; Mechanical; Robotics & Mechatronics

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**Who has which course?**

Most universities offer Dual Degrees with various faculties including Arts, Law, Medical Science, Science, etc. Some also offer Flexible First Year, so be sure to ask!