



Engineering at Deakin

Masterclass | Women in Engineering: In demand and underrepresented

Facilitator: Associate Professor Siva Krishnan

Our vision

Our vision is to transform our future through educating well-rounded graduates who are industry-ready, and have a positive impact on society through applied and fundamental Engineering work and research.



School of Engineering mission



Teaching

To provide high-quality online and located integrated learning underpinned by (a) industry-engaged and authentic Work-Integrated-Learning, (b) contemporary pedagogy including Project Oriented Design Based Learning, and (c) advanced and innovative engineering that incorporates cutting-edge technologies.



Research

To nurture a culture of research excellence through developing and retaining talent and supporting career growth, fostering positive relationship with our partners internally and externally, and nurturing our Higher Degree by Research students.



Community Engagement

To positively impact the communities we serve locally, nationally and internationally through educating industry-ready graduates and undertaking applied and fundamental research in areas aligning Deakin University's strategic plan and Australia's National Science and Research Priorities.

Engineering Advisory Board



- We have highly-engaged advisory board.
- Aside from an advisory capacity, EAB members are actively engaged in supporting the School of Engineering in a number of ways e.g., Industry Workshop on upskilling.
- Outside of the advisory boards we have a wide range of industry partners and partnerships in the sector.

Engineering Advisory Board (EAB)

Tony Arnel (EAB Chair) – Industry Professor Built Environment Deakin University, Past- Global Director of Sustainability at Norman Disney and Young.
Jamie Baensch (Deputy EAB Chair) – General Manager, Air Radiators
Georgia Gruszewski – Student representative
Helen Vaughn - Deputy Secretary, Water and Catchments Group, Department of Environment, Land, Water and Planning
Richard Taube - Australia Manager University Programs, Ford Motor Company
Paul Northey – Chief Regional Roads Officer, Regional Roads Victoria, Victorian Department of Transport
Ana Erceg - Deakin Engineering Graduate Representative; Manager, Future Network Programs, AusNet Services
Sarah Cirillo – Senior Systems Engineer, Inovor Technologies
Nino Ficca – Non-Executive Director and Energy Industry Advisor, Former Managing Director AusNet, Deakin Council Member
Jason Allen - Managing Director, Iscar Australia
Karen Miller – Head of Project Delivery, Construction, Contracts and Operations, City of Port Phillip
Shaun Cumming – General Manager Infrastructure, Technology and Transformation Group, Barwon Water
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Mark Brennan – Chief Engineer, Thales Australia
Marina Milic – Wood Technologist, AKD Softwoods

Demand for Engineers

- A recent report from the Australian Council of Engineering Deans (ACED) puts an estimate of 100,000 engineers required by 2030 to deliver on government initiatives in energy, transport and built infrastructure, advanced manufacturing, minerals, defence, etc. (See document on background/rationale).
- The required number (100,000) is ~50% greater than estimated rate of production of engineers in the present higher education environment.
- Expansion at Burwood:
 - A vibrant Engineering undergraduate cohort at the Deakin Burwood campus;
 - A modern Engineering hub (facilities, staff and pedagogy) placing Deakin at the forefront of Engineering education in Melbourne.



The current individual four-year UG courses in Civil, Electrical and Electronics, Environmental, Mechanical and Mechatronics Engineering have been consolidated to a single course **Bachelor of Engineering (Honours) with Majors in all five engineering fields** for 2024.

All five majors will be offered at Waurm Ponds and Online from 2024. Only three of the majors to be offered at Burwood in 2024, and then in 2025 the other two majors.

A phased in approach will see the first year of the courses/majors offered in the first year, the second in the following year etc.

2024 Bachelor of Engineering (Honours) Environmental major

2024 Bachelor of Engineering (Honours) Mechatronics major

2024 Bachelor of Engineering (Honours) Mechanical major

2025 Bachelor of Engineering (Honours) Electrical and Electronics major

2025 Bachelor of Engineering (Honours) Civil major



The School of Engineering also offers a five-year **Bachelor of Engineering (Industry) (Honours) with majors in all five engineering fields.**

All five majors will be offered at Waurin Ponds and Online from 2024. Only three of the majors to be offered at Burwood in 2024, and then in 2025 the other two majors.

A phased in approach will see the first year of the courses/majors offered in the first year, the second in the following year etc.

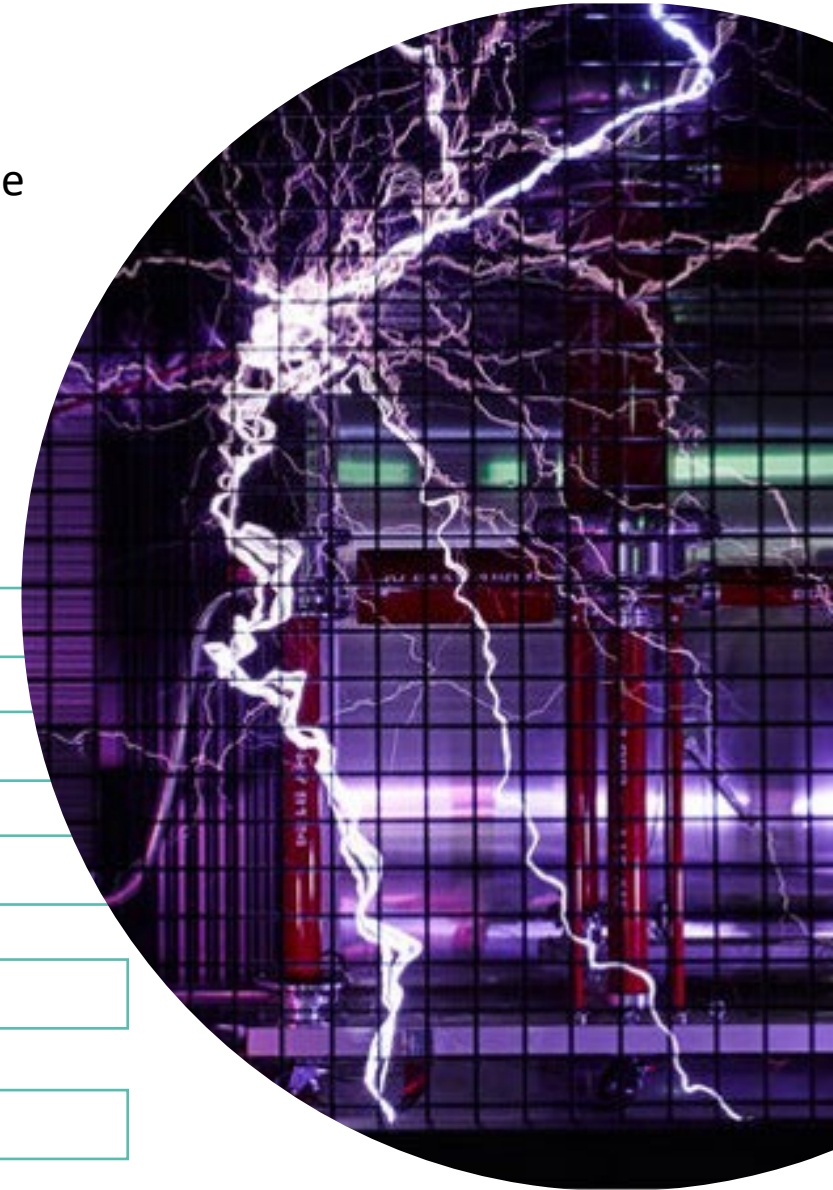
2024 Bachelor of Engineering (Industry) (Honours) Environmental major

2024 Bachelor of Engineering (Industry) (Honours) Mechatronics major

2024 Bachelor of Engineering (Industry) (Honours) Mechanical major

2025 Bachelor of Engineering (Industry) (Honours) Electrical and Electronics major

2025 Bachelor of Engineering (Industry) (Honours) Civil major



Changes to admission requirements



School leavers –

Units 3 and 4: a study score of at least 25 in English EAL (English as an additional language) or at least 20 in English other than EAL;

Units 3 and 4: a study score of at least 20 in one of Maths: Further Mathematics; Maths: Mathematical Methods or Maths: Specialist Mathematics.

Entry Criteria

Teaching staff

School of Engineering Planning
Day 2023



- 54 continuing academic staff (10F and 44M), 4 fixed-term academic staff and 16 fixed-term research staff (4F and 12M).
- Good balance across levels; Level B (18%), Level C (44%), Level D (20%), and Level E (18%)