



Flinders
UNIVERSITY

Tonsley campus

THE CENTRE OF **ENGINEERING** **EXCELLENCE**

FOR MORE INFORMATION
FLINDERS.EDU.AU/ENGINEERING-EXCELLENCE

FLINDERS ENGINEERING

CONNECT WITH INDUSTRY

Longest industry placement in Australia

Undergraduates are offered 20-week industry placement in their third year.

Postgraduates have opportunity to undertake 12-week industry placement.

We have developed close relationships with more than 200 local, national and international organisations including:

- SAGE Automation
- KPMG
- BAE Systems

Professional accreditation

All core UG and PG programs accredited by Engineers Australia at level of professional engineer.

Recognised internationally by Washington Accord.

Industry-led curriculum

Strong connections with industry informing course content, research areas and industry placements.

Interact with industry

Opportunity to collaborate with industry during degree, including:

- Cisco Network Academy
- Flinders Medical Device Research Institute
- Centre for Nanoscale Science and Technology
- New Venture Institute
- Flinders Autonomous Shuttle Trial

POWERED BY CREATIVITY

Orby

In a world-first study led by Flinders' lecturer, David Hobbs, Orby is an award-winning accessible gaming system and controller for people with hand impairments, including children with cerebral palsy and stroke patients.

Baxter

Baxter is one of our demonstration and training robots designed by Rethink Robotics, a world leading technology company founded by Flinders graduate Professor Rodney Brooks.

Driverless vehicles

The Flinders Autonomous Shuttle Trial is a collaboration between project partners Flinders University and RAA, together with eight industry partners.

Hexapod robot

This award-winning robot, led by Flinders' Dr John Costi, was developed to enhance understanding of 3D performance of normal and diseased joints and their artificial replacements by simulating complex joint motion.

Serval mesh

The Flinders-led project team has developed a secure and inexpensive post-disaster deployment for remote locations.

Autonomous underwater vehicles

Associate Professor Karl Sammut's team are developing a system to launch and recover unmanned rescue vessels in open seas around the world.

CULTURE OF COLLABORATION

Innovation district

Flinders is the first university to establish a campus at Tonsley, Australia's first innovation district.

Industries located at Tonsley include:

- **Tesla Service Hub:** local technicians will monitor and service the world's largest lithium ion battery, along with the superchargers installed across SA
- **Siemens Service Centre:** Ranked 63 on Fortune Global 500, this facility maintains turbomachinery equipment across Australasia
- **Aurrigo Driverless Technology:** a division of RDM Group, Aurrigo design, manufacture and deploy autonomous vehicles globally

Flinders at Tonsley

World-class \$120 million teaching and research facility.

Home to over 150 staff and 2,000 students across engineering, computer science, and mathematics programs.

Specialised labs

Tonsley has 28 specialist laboratories including:

- Biomechanics and Implants Lab
- AI and Robotics Research Lab
- Advanced Control Systems Lab
- Large Scale Materials Testing Lab
- Serious Gaming and Haptics Lab

COURSE AND ENTRY REQUIREMENTS

| | 2018 FEE (AUD) | COURSE DURATION | INTAKE - SEMESTER | ENGLISH REQUIREMENTS | | | ACADEMIC REQUIREMENTS | | | | CRICOS | |
|--|----------------|-----------------|-------------------|----------------------|----------|---------|--------------------------|------|-------------|-------|---------|--|
| | | | | IELTS (ACADEMIC) | | | A LEVELS | ATAR | IB (BEST 6) | HKDSE | | |
| | | | | OVERALL | SPEAKING | WRITING | | | | | | |
| BACHELOR DEGREES | | | | | | | | | | | | |
| Bachelor of Engineering (Biomedical) (Honours) | 32,200 | 4 | S1/S2 | 6 | 6 | 6 | 8 | 75 | 26 | 18 | 083439D | |
| Bachelor of Engineering (Civil) (Honours) | 32,200 | 4 | S1/S2 | 6 | 6 | 6 | 8 | 75 | 26 | 18 | 083441K | |
| Bachelor of Engineering (Computer and Network Systems) (Honours) | 32,200 | 4 | S1/S2 | 6 | 6 | 6 | 8 | 75 | 26 | 18 | 058294B | |
| Bachelor of Engineering (Electrical) (Honours) | 32,200 | 4 | S1/S2 | 6 | 6 | 6 | 8 | 75 | 26 | 18 | 083443G | |
| Bachelor of Engineering (Electronics) (Honours) | 32,200 | 4 | S1/S2 | 6 | 6 | 6 | 8 | 75 | 26 | 18 | 083444G | |
| Bachelor of Engineering (Mechanical) (Honours) | 32,200 | 4 | S1/S2 | 6 | 6 | 6 | 8 | 75 | 26 | 18 | 083446E | |
| Bachelor of Engineering (Maritime) (Honours) | 32,200 | 4 | S1/S2 | 6 | 6 | 6 | 8 | 75 | 26 | 18 | 093433B | |
| Bachelor of Engineering (Robotics) (Honours) | 32,200 | 4 | S1/S2 | 6 | 6 | 6 | 8 | 75 | 26 | 18 | 083449B | |
| Bachelor of Engineering (Software) (Honours) | 32,200 | 4 | S1/S2 | 6 | 6 | 6 | 8 | 75 | 26 | 18 | 083450J | |
| Bachelor of Engineering Science | 32,200 | 3 | S1/S2 | 6 | 6 | 6 | 6 | 75 | 26 | 18 | 063694B | |
| MASTERS DEGREES | | | | | | | | | | | | |
| Master of Engineering (Biomedical) | 33,600 | 2 | S1/S2 | 6 | 6 | 6 | Approved bachelor degree | | | | 055942K | |
| Master of Engineering (Civil) | 33,600 | 2 | S1/S2 | 6 | 6 | 6 | | | | | 091861A | |
| Master of Engineering (Electronics) | 33,600 | 2 | S1/S2 | 6 | 6 | 6 | | | | | 061252G | |
| Master of Engineering (Materials) | 33,600 | 2 | S1/S2 | 6 | 6 | 6 | | | | | 088514B | |
| Master of Engineering Science (Biomedical) | 33,600 | 2 | S1/S2 | 6 | 6 | 6 | | | | | 094010J | |
| Master of Engineering Science (Civil) | 33,600 | 2 | S1/S2 | 6 | 6 | 6 | | | | | 094010J | |
| Master of Engineering Science (Electrical and Electronic) | 33,600 | 2 | S1/S2 | 6 | 6 | 6 | | | | | 094010J | |
| Master of Engineering Science (Materials) | 33,600 | 2 | S1/S2 | 6 | 6 | 6 | | | | | 094010J | |
| Master of Engineering Science (Software) | 33,600 | 2 | S1/S2 | 6 | 6 | 6 | | | | | 094010J | |

SPECIALISATIONS

Bachelor of Engineering - flexible entry allows students to start their engineering degree but defer making decision about a specialist area until the end of their first year.

We also offer a Bachelor of Engineering Science as a pathway to full, accredited engineering degrees.

Biomedical

Flinders was the first university in Australia to offer this accredited degree.

Civil

Research strengths include future traffic systems and construction design.

Computer and Network Systems

Blend of electronics, computer networks and computer science to design and analyze hardware systems and algorithms.

Electrical

Niche areas include renewable technologies and electrical drive systems.

Electronics

Strengths include embedded systems and instrumentation.

Maritime

Specialise in naval architecture, ocean engineering, marine and offshore systems.

Materials

Materials connects to number of research areas including nanotechnology, chemical sciences, and civil engineering.

Mechanical

Niche areas include fluid dynamics and maritime applications.

Robotics

Only SA robotics course based on electronics and autonomous intelligent systems.

Software

Students can focus on either electronics or computer science.

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