Civil and Environmental Engineering
School Profile 2016

No 1 in Australia
The School is not just a witness or a provider to industry, it is a force that helps shape the industry. We are constantly reviewing our courses and building our research teams with this expansive focus.

Head of School, Professor Stephen Foster

The UNSW School of Civil & Environmental Engineering is ranked Number One in Australia and No 16 in the world (QS World University Rankings 2016).

From our foundation in 1949, the School has pursued excellence and innovation in education and research. Our academic staff are recognised world leaders in their fields of expertise, while our alumni are to be found as innovators and decision makers in industry, government and the community.

SCHOOL STATISTICS 2016

<table>
<thead>
<tr>
<th>Category</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>Undergraduates</td>
<td>2052</td>
</tr>
<tr>
<td>BE Graduates (2015)</td>
<td>304</td>
</tr>
<tr>
<td>Postgraduate Research Students</td>
<td>229</td>
</tr>
<tr>
<td>Postgraduate Coursework Students</td>
<td>660</td>
</tr>
<tr>
<td>Doctoral Graduates (2015)</td>
<td>29</td>
</tr>
<tr>
<td>Academic Staff</td>
<td>46</td>
</tr>
<tr>
<td>Professional &amp; Technical Staff (School)</td>
<td>27</td>
</tr>
<tr>
<td>Research Centre Research Staff</td>
<td>75</td>
</tr>
<tr>
<td>Research Publications Refereed (2015)</td>
<td>446</td>
</tr>
<tr>
<td>Generated Teaching and Research Income (2015)</td>
<td>$58.2M</td>
</tr>
<tr>
<td>Total Research Funding (incl. ARC $4.9M)</td>
<td>$12.44M</td>
</tr>
<tr>
<td>Total Funding (2015)</td>
<td>$70.64M</td>
</tr>
</tbody>
</table>
The School has been a leading provider of engineering education for over sixty five years. We actively promote a culture of teaching excellence.

Seven of our current teaching staff have won UNSW Vice-Chancellor’s Awards for Teaching Excellence.

Our School Teaching Initiative and Teaching Equipment Grant Schemes provide our innovative academics with resources that enhance their teaching and the student experience.

UNDERGRADUATE PROGRAMS
The School offers five undergraduate degree programs (all four years) and several dual awards.

Guaranteed Entry ATAR in 2016 was 91.

- BE in Civil Engineering Honours
- BE in Environmental Engineering Honours
- BE in Civil Engineering with Architecture Honours
- BE in Surveying Honours
- BE in Geospatial Engineering Honours

Our dual award degree programs range from five to six and a half years’ full time study.

- BE (Hons)/ BA
- BE (Hons) / BCom
- BE (Hons)/ LLB
- BE (Hons)/ BSc
- BE (Hons) Civil / BEngSc Environmental
- BE (Hons) Environmental / BEngSc Civil
- BE (Hons) Civil / BEngSc Mining
- BE (Hons)/ BSurv
- BMus / BE (Hons)
- BAdvSci (Hons)/ BE (Hons)
- BSc (AdvMath)(Hons) / BE (Hons)

POSTGRADUATE COURSEWORK
The School continues to provide industry professionals with essential specialist knowledge, backed by cutting edge research, to improve their performance and advance their careers. Our Master of Engineering Science (MEngSc) educates students to the top level required nationally in ten specialisations:

- Civil Engineering
- Environmental Engineering
- Geospatial Engineering
- Geotechnical Engineering and Engineering Geology
- Project Management
- Structural Engineering
- Sustainable Systems
- Transport Engineering
- Water, Wastewater and Waste Engineering
- Water Resources (includes coastal engineering courses)

Master of Engineering — 2 years: for students who wish to obtain an accredited engineering degree

- Civil Engineering
- Environmental Engineering
The School is at the forefront of innovative, original and applied research across the breadth of civil, environmental and geospatial engineering. With a 5 out of 5 research ranking, we have won 140 highly competitive Australian Research Council grants totalling $42M in order to pursue our investigations into issues of national and global importance.

ACCARNSI
Australian Climate Change Adaptation Research Network for Settlements & Infrastructure
Our Vision: To facilitate the coordination of the Australian research community in the field of Climate Change Adaptation for Settlement and Infrastructure – supporting multi-disciplinary research, building research capacity, and promoting open exchange of information and resources.

CIES
Centre for Infrastructure Engineering & Safety
As an internationally recognised centre, focused on high-level research in structural engineering, geotechnical engineering, engineering materials and computational mechanics, CIES provides outcomes that improve the design, construction and maintenance of economic, effective, safe and sustainable civil engineering infrastructure.

CIRI
Construction Innovation and Research Initiative
Construction is the world’s largest industry and its efficiency and sustainability is of obvious importance. We undertake basic and applied research in two broad areas - the design and management of large scale field processes and improved technology for construction activities.

CWI
Connected Waters Initiative
An integrated understanding of groundwater is essential for the future of the Australian environment, our urban and rural communities, and for agricultural and mining activity. The Connected Waters Initiative Research Centre aims to help fill critical gaps in our knowledge through research, teaching and public education.

rCITI
Research Centre for Integrated Transport Innovation
Our aim is to be a world leading organisation in integrated interdisciplinary transport research and development. Our five core research pillars are Planning, ITS Communications, Infrastructure, Energy/Fuel and Computational Sustainability.

SAGE
Surveying and Geospatial Engineering Research
The Surveying and Geospatial Engineering (SAGE) Research group conducts world class research in the subdisciplines of geodesy, photogrammetry, positioning measurement and remote sensing. The group includes one of the world’s top satellite and wireless positioning research groups, and one of Australia’s premier Earth observation research teams.

SEI
Sustainable Engineering Research Initiative
The aim of the Sustainable Engineering Research Initiative is to explore, research, define, assess and resolve issues of sustainability in engineering problems, in particular the implications and implementation of sustainability concepts and practices for all areas of civil infrastructure.

WRC
Water Research Centre
Australia’s water management needs innovative and integrated solutions in terms of environmental, energy and social considerations. WRC conducts pure and applied research in surface and groundwater hydrology, public health and water treatment, and civil and environmental hydraulics. We also undertake commercial activity in collaboration with industry.

For more information see https://www.engineering.unsw.edu.au/civil-engineering/research/unsw-research-centres-and-research-hubs
The School has strong active links with industry and is very committed to continuing and developing these ties. Each year our research centres work with over 100 industry and government organisations on specific industry related projects. The importance we place on the movement of our research to practice cannot be overstated. It is fundamental to who we are, and what the School is about.

Our Industry Advisory Committee (IAC) represents a broad cross section of relevant industry sectors at a senior and influential level, while our Industry Partners Program is another way in which relationships between industry and our students are maintained and nurtured.

With over ten thousand alumni, our graduates are to be found serving and succeeding everywhere in industry, government and the wider community. We connect with them through newsletters and the occasional email, and support alumni reunions. If you'd like to keep in touch please register at http://www.engineering.unsw.edu.au/civil-engineering/alumni-registration
SEVEN THINGS YOU SHOULD KNOW ABOUT
UNSW CIVIL AND ENVIRONMENTAL ENGINEERING

1. Ranked No 1 – in Australia and in the world’s top twenty (QS World University Rankings 2016)

2. Experienced – 65 years of innovative and in-depth teaching – a Foundation School of UNSW

3. Expansive – the largest School of our kind in Australasia, with two thousand undergraduates enrolled in 16 different degree programs


5. Investigative – Eight research hubs working across the full range of civil, environmental and geospatial engineering.

6. Connected – each year we work with over 100 organisations on specific industry related projects.

7. Influential – consistently one of the highest contributors to Engineers Australia’s Top 100 Engineers lists.