FACT SHEET

What is engineering?

Engineering is the branch of science and technology concerned with the design, building, and use of engines, machines, and structures. Engineers find practical solutions to address community and environmental needs and issues. They are involved in the research, design, production, operation, support and maintenance of many things we use daily.

There are many disciplines in engineering as outlined below.

Engineering occupations

Engineering roles encompass all aspects of the built environment and sustainment of the natural environment, requiring a broad range of technical, business, management and leadership skills. Engineers can be involved from the initial project conception, through planning, design and implementation. The following lists represents a broad range of engineering occupations. Each link below includes an occupational profile on the Career Centre website and occupational profile video (where available).

<table>
<thead>
<tr>
<th>Aerospace engineering</th>
<th>Petroleum and petrochemical engineering</th>
</tr>
</thead>
<tbody>
<tr>
<td>Agricultural engineering</td>
<td>Structural engineering</td>
</tr>
<tr>
<td>Biomedical engineering – watch the video</td>
<td>Transport engineering</td>
</tr>
<tr>
<td>Chemical engineering – watch the video</td>
<td>Coastal and ocean engineering</td>
</tr>
<tr>
<td>Industrial engineering</td>
<td>Electrical engineering</td>
</tr>
<tr>
<td>Civil engineering</td>
<td>Environmental engineering</td>
</tr>
<tr>
<td>Geotechnical engineering</td>
<td>Marine engineering or ships engineer</td>
</tr>
<tr>
<td>Software engineering</td>
<td>Mechanical engineering</td>
</tr>
<tr>
<td>Industrial engineering</td>
<td>Mining engineering</td>
</tr>
<tr>
<td>Materials engineering – watch the video</td>
<td>Telecommunications engineering – watch the video</td>
</tr>
<tr>
<td>Minerals and metallurgical engineering</td>
<td>Structural engineering</td>
</tr>
<tr>
<td>Electronics engineering</td>
<td></td>
</tr>
</tbody>
</table>

For information on engineering training providers and universities across Australia, visit the [Good Universities Guide](#).

How do I become an engineering associate?

You will need an accredited Advanced Diploma in Engineering from a TAFE college or other registered training organisation. In Western Australia it is possible to obtain an advanced diploma in some fields of engineering.

How do I become an engineering technologist?

You will need to undertake a three year accredited engineering related degree. For further information contact the universities directly as the entrance requirements and programs may vary.

How do I become a professional engineer?

To become a professional engineer you need to graduate with a Bachelor of Engineering degree. However, it is
possible for you to develop a pathway from TAFE to university.

Contact the TAFE colleges and universities listed below to find out about the options.

- North Metropolitan TAFE University Pathways – central.wa.edu.au/unipathways
- South Metropolitan TAFE University Pathways – southmetrotafe.wa.edu.au/futurestudents/unipathways

There are five degree level engineering schools in Western Australia:

- The Faculty of Science and Engineering at Curtin University – engineering.curtin.edu.au
- The School of Engineering at Edith Cowan University – se.ecu.edu.au
- The School of Engineering and Information Technology at Murdoch University – murdoch.edu.au/School-of-Engineering-and-Information-Technology
- The Faculty of Engineering, Computing and Mathematics at the University of Western Australia – ecm.uwa.edu.au
- The Western Australian School of Mines at Curtin University – wasm.curtin.edu.au

Engineers Australia

Engineers Australia is the national forum for the advancement of engineering and the professional development of its members. Engineers Australia’s nine colleges provide continuing professional development for members through regular conferences, publications and visiting speakers. For more information about these colleges visit engineersaustralia.org.au/colleges.

Find out more:
T: 13 64 64
T: (08) 9225 7831 (hearing impaired only)
W: careercentre.dtwd.wa.gov.au
E: career.centre@dtwd.wa.gov.au
Web Chat: Chat Online

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