Chemical and biomolecular engineers turn raw materials into useful products for everyday life using chemistry, biology and physics. Such materials include fuels, pharmaceuticals, and processed foods.

**Your studies**

During this degree you will learn to develop creative solutions in the areas of chemical, combustion, environmental, petroleum and water engineering as well as explore how to transform raw materials into useful products using chemistry, biology and physics.

Your studies will include the newer fields of nanotechnology and molecular biology that are revolutionising the energy and storage systems, food production and healthcare industries.

Areas of study include:
- biochemical engineering
- biotechnology engineering
- energy and the environment
- product and process design
- minerals processing
- process systems engineering
- sustainability.

**Your career**

As a chemical or biomolecular engineer, you can choose to work across a range of fields including:
- mining, oil and gas processing
- paper and chemical production
- petroleum and petrochemical production
- plastic and synthetic rubber manufacturing
- metals and ceramics manufacturing
- cement, paints and glass manufacturing
- textile and synthetic fibre manufacturing
- food and beverage production
- cosmetic or pharmaceutical production
- environmental consulting
- process design.

**Majors**

There are over 15 engineering majors to choose from – see over for full list of majors.
Engineering at Sydney

As one of the top 30 engineering and technology universities in the world*, we will provide you with the leadership skills to develop innovative, creative and sustainable solutions that promote positive change.

Clear pathways, widest choice

Our engineering degree options cover aeronautical, mechanical, mechatronic, biomedical, chemical and biomolecular, civil, electrical, and software engineering.

With more than 15 majors, you have the option to personalise your degree:
- Chemical Engineering
- Computer Engineering
- Construction Management
- Electrical Engineering
- Environmental Engineering
- Geotechnical Engineering
- Information Technology (Engineering)
- Materials
- Mechanical Engineering
- Mechatronic Engineering
- Power Engineering
- Space Engineering
- Structures
- Telecommunications Engineering
- Transport Engineering

You can broaden your career options even further by combining your degree with studies in arts, law, architecture, science, commerce, music or medical science. Combined degrees are mostly five years in length and very popular, as they allow you to combine a range of interests.

Flexible First Year Program

If you’re not sure in which area of engineering you’d like to specialise, our Flexible First Year program (UAC code 511756) gives you the time and freedom to discover where your strengths and interests lie before deciding.

Advanced Engineering program

Our Advanced Engineering program is open to students demonstrating outstanding academic ability (indicative ATAR of 97.5 or above). You will take advanced units covering topics such as sustainability and humanitarian issues, business planning and strategy, technology and education. You will also participate in small groups working on problems relevant to the community. You may take any engineering stream within this program. Apply directly through UAC (UAC code 511700).

Assumed knowledge

These HSC subjects are assumed knowledge for our engineering degrees:
- Mathematics Extension 1
- Physics and/or Chemistry (depending on stream)

The whole you, not just your ATAR

If you would like to study engineering subjects at university but are worried about making the ATAR cut-off, don’t worry. Our Flexible Entry scheme considers your ATAR as well as your performance in maths and science subjects, and your leadership capability. Apply at:
- sydney.edu.au/engineering/flexibleentry

Globally recognised qualifications

Our engineering degrees are accredited by Engineers Australia, so you will graduate with a prestigious qualification that is recognised worldwide.

Scholarships

We offer more than 500 University-wide scholarships to undergraduates every year. The Faculty of Engineering and Information Technologies also offers a variety of entry, merit and industry scholarships.

For more information about scholarships visit:
- sydney.edu.au/engineering/scholarships
- sydney.edu.au/scholarships

*QS World University Rankings 2015/16

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