Engineering & Construction Careers
A guide to careers in Engineering & Construction

CIVIL ENGINEERING
- Learn to develop infrastructure such as bridges, buildings, airports, roads, railways and water systems
- Become equipped to work creatively and sustainably in the design, construction and maintenance of critical infrastructure
- Learn in industry-standard specialist facilities and use high-tech testing and computer-modelling equipment

CONSTRUCTION MANAGEMENT
- Focus on developing low-rise and high-rise residential and light commercial buildings
- Graduate with a degree professionally endorsed by the Australian Institute of Building Surveyors
- Learn through practical experience gained from real-world projects

MECHANICAL ENGINEERING
- Learn the latest industry developments in mechanical system design, manufacturing technologies and sustainable energy
- Build and design solutions that use mechanised power, machinery and tools
- Access industry-standard facilities, including the Sustainable Energy Systems and Industry 4.0 Robotics and Machine Vision Lab

ELECTRICAL ENGINEERING
- Focus on design, development and optimisation of electrical and electronic devices, equipment, technology and systems
- Learn about electrical generation systems, including renewable energy sources and electric and autonomous vehicles
- Prepare for Industry 4.0 using cutting-edge software platforms and collaborative digital environments

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- Learn through practical experience gained from real-world projects

Principal Civil Engineer
Greenhill Engineers
Cindy Oliver

“Once you’re working, everything makes sense as you can apply your skills to real situations. You can go anywhere with civil engineering because it’s such a broad area of practice - it’s really unlimited.”

Cadet Contract Administrator
FDC Construction and Fitout
Fred Simbor

“I have always admired buildings and how they can be the identity of a town, city or country.
I enjoyed the flexibility of studying at UniSA - you’re able to study at home or on campus.”

Senior Maritime Consultant
Bastion Defence Consulting
Bradley Toole

“My UniSA degree has been essential to get me to where I am today.
The hands-on approach and skills-based learning was particularly beneficial when applied to real world engineering issues.”

Technical Lead
Telstra
Michelle Howie

“UniSA’s engineering programs have a reputation as being more balanced, with appropriate emphasis on developing real-world skills.
UniSA taught me attributes that are ultimately what an employer seeks - not just technical knowledge.”

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WHERE CAN MY DEGREE TAKE ME?

BACHELOR OF ENGINEERING (HONOURS) (CIVIL)

CHOOSE FROM MAJORS INCLUDING:
> Business innovation
> Construction management
> Structural engineering
> Surveying

CAREER OPPORTUNITIES:
> Civil engineer
> Geotechnical engineer
> Water resources engineer
> Environmental engineer
> Engineer consultant
> Project engineer
> Transport engineer
> Structural engineer
> Project coordinator

YOU COULD:
> Fast track your studies and complete an engineering master degree in one extra year or pair your degree with a business degree gaining two qualifications in one extra year

BACHELOR OF CONSTRUCTION MANAGEMENT (HONOURS)

CHOOSE FROM SPECIALISATIONS INCLUDING:
> Quantity surveying
> Building surveying
> Construction management

CAREER OPPORTUNITIES:
> Construction manager
> Capital works manager
> Operations manager
> Quantity surveyor
> Building surveyor
> Project manager
> Site supervisor
> Estimator
> Construction planner

YOU COULD:
> Study this degree 100% online with UniSA Online

BACHELOR OF ENGINEERING (HONOURS) (MECHANICAL)

CHOOSE FROM MAJORS INCLUDING:
> Energy systems
> Engineering management
> Mechanical design

CAREER OPPORTUNITIES:
> Mechanical engineer
> Industrial engineer
> Mechanical design engineer
> Maintenance engineer
> Hydraulics engineer
> Energy system engineer
> Product development manager
> Entrepreneur
> Project coordinator

YOU COULD:
> Pair your engineering degree with a business degree to gain two qualifications in just one extra year

BACHELOR OF ENGINEERING (HONOURS) (ELECTRICAL AND ELECTRONIC)

CHOOSE FROM MAJORS INCLUDING:
> Computer engineering
> Power engineering
> Telecommunications

CAREER OPPORTUNITIES:
> Electrical engineer
> Electrical design engineer
> Electronics engineer
> Power systems engineer
> Renewable energy engineer
> Control systems engineer
> Telecommunications engineer
> Commissioning engineer
> Electrical project manager

YOU COULD:
> Pair your engineering degree with a business degree to gain two qualifications in just one extra year

Information correct at April 2020

Find out more: unisa.edu.au/engineering

Science, technology, engineering and mathematics (STEM) knowledge is associated with 75% of the fastest growing occupations, innovations and wage premiums.

Employment in the construction industry is predicted to grow by 10%, reflecting solid infrastructure investment.

By 2049-50, it is expected that approximately 51% of Australia’s electricity generation will be from renewable sources.