



Specialise in Tunnelling and Underground Engineering

Australia's rapid expansion and surge in infrastructure development has created a demand for experts in tunnelling and underground engineering.

Designed in conjunction with industry who have expertise in tunnelling and underground engineering, UTS's School of Civil and Environmental Engineering has created a new postgraduate course and the first of its kind in Australia: Major in Tunnelling and Underground Engineering.

Intake

Commencing in **February 2024**, the Major in Tunnelling and Underground Engineering integrates industry knowledge through real- world and in-field practice as a part of the learning experience.

What you'll learn

The Major in Tunnelling and Underground Engineering is designed to provide students with professional knowledge and skills to shape and lead the future of tunnelling and underground engineering.

- Students will develop comprehensive disciplinary understanding and practical skills in modern site investigations, planning, design, construction, management, tunnel boring machine, trenchless technologies, safety and sustainability aspects of tunnelling and underground engineering projects.
- Students will undertake projects to develop knowledge and skills to comprehend new technologies and enhance the design, operation, and optimisation of Tunnelling and Underground Engineering.
- Students will gain additional skills and experience required to be job ready by completing elective subjects including Project Management, Judgement and Decision Making, Risk Management and Systems Engineering for Managers. Towards the end of the program, students may choose to specialise further on topics such as Problematic Soils and Ground Improvement Techniques and Advanced Soil Mechanics and Foundation Design.

Choose how you study

The Major in Tunnelling and Underground Engineering features a range of educational pathways to accommodate diverse educational backgrounds and career aspirations.

The following ways to study are available:

- **Graduate Certificate in Engineering**
Tunnelling and Underground Engineering Stream
- **Graduate Diploma in Engineering**
Tunnelling and Underground Engineering Stream
- **Master of Engineering**
Major in Tunnelling and Underground Engineering
- **Master of Engineering Extension**
Major in Tunnelling and Underground Engineering
- **Master of Engineering Advanced**
Major in Tunnelling and Underground Engineering

Click on each major's name to find more information on our website.



Who is this course designed for?

- Civil engineers and industry practitioners wanting to expand their knowledge in tunnelling and underground engineering.
- Engineers interested in changing career pathways to tunnelling and underground engineering.
- Engineering graduates wishing to pursue a career in tunnelling and underground engineering.

Possible career outcomes

Graduates can pursue a variety of career opportunities within the civil engineering and construction industry. These include:

- **Tunnel Engineer:** Working on the design, construction, and maintenance of tunnels for transportation, utilities, mining, or infrastructure projects.
- **Construction Manager:** Overseeing the execution of tunnelling and underground projects, ensuring they are completed on time, within budget, and meeting safety regulations.
- **Project Manager:** Leading tunnelling and underground engineering projects from inception to completion, coordinating various aspects such as planning, design, procurement, and construction.
- **Consultant or Specialist:** Providing expertise to engineering firms, government agencies, or private companies on tunnelling and underground engineering projects.

The exact career path will depend on the individual's interests, skills, and the specific focus of their Master's program.

Contact us:

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For online enquires, please visit the [Future Student postgraduate page](#).

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