WHAT IS MINING ENGINEERING?

Mining engineers are concerned with developing and implementing safe and economic resource development plans. Minerals are the basic inputs for the production of building materials, pharmaceuticals, and electronic devices. They are also a source of fuel for the manufacturing and utility industries. Mining is essential to our daily lives. It can’t be grown; it has to be mined.

Mining is at the cross roads. It is no longer acceptable to simply “dig up and export minerals” without concern for the environment and the surrounding communities. These changes in the industry require a new type of mining engineer.

The Monash University Mining Engineering program incorporates environment and community, health and safety, project management and teamwork skills, financial and people management and leadership skills to produce engineers with a focus on developing efficient projects with minimal environmental footprint. This requires the use of mathematics, physical sciences and geoscience, computer applications, economics and environmental management to be able to manage resource development operations from exploration to the final processing stage. Developing mining companies’ social license to operate in communities is seen as an integral part of this degree.

Mining Engineering is a specialisation within the Bachelor of Engineering (Honours) degree. After completing the Common First Year, students go on to specialise and graduate with a Bachelor of Mining Engineering (Honours).

FURTHER INFORMATION
Faculty of Engineering
11 Alliance Lane
Monash University
Clayton VIC 3168
AUSTRALIA
T 1800 MONASH
E future@monash.edu
facebook.com/monashengineering
twitter.com/monashengineers

MINING ENGINEERING
The Mining Engineering degree has been established in response to a call from industry to increase Australia’s capacity to create much needed mining professionals and specialists. The Monash University Bachelor of Mining Engineering is the only Bachelor of Mining Engineering in Victoria and Tasmania.

Currently only about half of the mining engineers positions in Australian mining companies are being filled by Australian mining graduates each year. If you like the idea of working with people in a challenging environment, in teams or with the community, this course could be the one for you.

We believe that mining engineers need to work with the community, social license to operate, and minimal environmental footprint. This is the ideal time to enter the mining industry. As a mining engineer, you will have access to high salary and career advancement pathways and a vast array of local and international opportunities.

WHERE DO MINING ENGINEERS WORK?

• Planning and Design: Preparing short- and long-term production plans, designing the safest and most efficient mining and processing systems and ensuring ecological and social sustainability
• Operations: Managing operations of a mining site, including staffing and equipment needs
• Safety: Coordinating safety, efficiency and environmental management
• Finance: Review key performance indicators associated with capital, operating costs and productivity and profitability. Considerations of capital expenditure and costs and productivity and profitability. Considerations of capital expenditure and costs
• People Management: Communication and community relations. Training key elements of the mining profession to ensure mining companies continue their significant role in the economy and safety
• Automation: Innovative technology will be a major factor in how the future will be increasingly supported by efficiency and accuracy for safety

The course is a combination of theory and practice to prepare you for the mining engineering profession. We have significant support from industry and mining graduates each year. If you like the idea of working in a challenging environment, in teams or with the community, this course could be the one for you.

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CURRICULUM

The first year of the programme consists of two core units in mathematics and computing, and three core design and skills units where you will have the opportunity to do your own engineering problem. Mining engineers work in all aspects of exploring, planning, extracting and processing minerals. Mining engineers work in all aspects of exploring, planning, extracting and processing minerals.

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To apply, you must apply through the Victorian Tertiary Admission Centre (VTAC), the Commonwealth Essays and Scholarship Office (CESA) or directly to Monash University. Visit www.monash.edu for more information.

If you are an Australian or New Zealand citizen or a permanent Australian resident, or you are an international student who has completed their high school in Australia, you must apply through the Victorian Tertiary Admission Centre (VTAC) via the Commonwealth Essays and Scholarship Office (CESA) or by direct application to Monash University. Visit www.monash.edu for more information.

If you are an international student who has studied an overseas qualification, please apply through Monash International Recruitment Services.

www.study.monash/how-to-apply

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The ATAR score for this program is subject to demand however we expect the score to be around 90+. The ATAR score for this program is subject to demand however we expect the score to be around 90+.

TO APPLY

MINING SCHOLARSHIPS

Monash Engineering offers its eight mining engineering degrees next year, providing competitive financial assistance and study support for those interested in mining as a career. These scholarships are available to all students, including international students, to support their studies and the opportunity for vacation employment.

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