



THE UNIVERSITY
of ADELAIDE

150 YEARS

Energy, mining and resources

These critical sectors underpin all areas of society—from powering our cities and vehicles, to the smartphones in our pockets.



GROUP
OF EIGHT
AUSTRALIA

make
history.



Ranked #15
globally
for Mineral
and Mining
Engineering*



Ranked #7
globally for
Petroleum
Engineering^

100

Ranked top 100
globally for Energy
Science and
Engineering*



Steady employment
predicted
(5.9% by 2026)†



Australia's only university teaching mine automation

Through our Institute for Sustainability, Energy and Resources, the University of Adelaide has led Australia in the development of fully integrated, AI-driven resource value chains. We're helping many energy, mining and resources companies incorporate or enhance self-learning extraction-and-processing control systems to extract greater value from increasingly complex resources - faster, safer and at lower cost. And we can pass that knowledge on to you.

Our recent industry experience includes collaborating with:

- BHP, OZ Minerals and others on mining and processing control platforms
- Boart Longyear, a global drilling giant, to allow generation of geological information in close to real time, directly at the drill site
- Orica, an Australia-based multinational commercial explosives and blasting systems specialist, to apply digitally integrated AI to their blast mode.

Full-spectrum energy expertise

We also have significant, proven expertise in all areas of the energy sector, with experience advising on—and leading—projects relating to:

- optimal power system and resources planning, modelling and operation
- renewable energy generation and hybrid systems
- energy storage, including advanced batteries and underground hydrogen
- critical minerals, advanced energy materials and catalysts
- microgrids and electric vehicles infrastructure.

We're highly capable in the areas of environmental sustainability and social licence. And again, we can pass on all this knowledge to you.

Career prospects

Employment growth for the majority of energy, mining and resources roles range broadly from moderate to very strong, with the industry projected to grow by up to 5.9% by 2026†.

^ *QS World University Rankings by Subject, 2023.*

* *Academic Ranking of World Universities by Subject, 2023.*

† *Australian Government, Labour Market Insights, 2023.*

Degrees

Undergraduate

- Bachelor of Engineering (Honours)(Civil)
- Bachelor of Engineering (Honours) (Electrical and Electronic)
- Bachelor of Engineering (Honours) (Environmental and Climate Solutions)
- Bachelor of Engineering (Honours)(Mining)
- Bachelor of Engineering (Honours)(Petroleum)
- Bachelor of Engineering (Honours)(Petroleum) with major
- Bachelor of Science
- Bachelor of Science (Honours)
- Bachelor of Science (Advanced)
- Bachelor of Science (Advanced)(Honours)
- Bachelor of Science (Mineral Geoscience)

Postgraduate coursework

- Master of Engineering (Aerospace)
- Master of Engineering (Chemical)
- Master of Engineering (Civil and Environmental)
- Master of Engineering (Civil and Structural)
- Master of Engineering (Electrical)
- Master of Engineering (Electronic)
- Master of Engineering (Mechanical)
- Master of Engineering (Mechatronic)
- Master of Engineering (Mining)
- Master of Materials Engineering
- Master of Petroleum Engineering

Further enquiries

The University of Adelaide SA 5005 Australia

enquiries future.ask.adelaide.edu.au

phone +61 8 8313 7335

web adelaide.edu.au

facebook facebook.com/uniofadelaide

snapchat snapchat.com/add/uniofadelaide

instagram instagram.com/uniofadelaide

wechat UniversityOfAdelaide

weibo weibo.com/uniadelaide

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