

Mining Engineering, B.S.

John and Willie Leone Family Department of Energy and Mineral Engineering



Mining today means computer design and automation, surveying and monitoring with drones, developing and refining our resources for critical metals and fuels, improving health and safety, and promoting sustainability principles. The supply chain for transportation, manufacturing, agriculture, healthcare, energy, and defense relies on mining. Mining engineers touch all aspects of resource recovery from mine planning through production through refining to final reclamation of mined lands. They are found in mines, processing plants, engineering consulting companies, and corporate board rooms. Their job may see them in the field one day and engrossed in plans and designs in an office the next. They put all their engineering skills to use.



PennState
College of Earth
and Mineral Sciences

Visit: www.ems.psu.edu/academics/find-program-study/mining-engineering-bs



The Mining Engineering program provides an amazing opportunity to receive an advanced education with the ability to network with top companies, obtain outside experience through internships, and be involved in professional organizations.

~ Dan Buonanno

- ◆ International Society of Explosives Engineers
- ◆ Mine Rescue Team

Advancing your education

- ◆ Suggested minors include Geosciences and Energy, Business, and Finance to round out your academic career. Some students obtain a 5-year M.S. degree through our integrated undergraduate/graduate program (IUG).

Why choose Penn State?

Our accredited curriculum includes field trips to industrial sites and hands-on laboratory experiences. Participation in our professional society student chapters includes travel to conferences and access to high-impact speakers from across the mining industry. Undergraduate research opportunities abound at this Research 1 University.

Overview

Penn State’s Mining Engineering program was established in 1890. The ABET-accredited program offers courses in traditional mining and mineral processing disciplines with new courses in automation and sustainability. Graduates will be prepared to work domestically or internationally to develop or operate mines or to work in supporting activities like engineering consulting, equipment development and supply, banking, regulatory enforcement, or research.

You might be a good fit if ...

- ◆ You want to join a high-tech industry that provides metals, fuels and

materials for every industry.

- ◆ You want to face new opportunities and challenges every day.
- ◆ You want to be a problem solver.

Internships and scholarships

The College of Earth and Mineral Sciences awards more than \$2.5 million in scholarships annually, including almost \$100,000 in the Mining Engineering program alone. All students have opportunities for internships following their first year of study.

Clubs and activities

- ◆ Society for Mining, Metallurgy and Exploration

\$75K Starting salary for graduates

100% Job placement

2nd In U.S. according to QS world ranking