

# MINING ENGINEERING, MINOR

---

Requirements for a minor may be completed at any campus location offering the specified courses for the minor. Students may not change from a campus that offers their major to a campus that does not offer their major for the purpose of completing a minor.

## Program Description

The minor in Mining Engineering offers a specialized program for students in many other broad-based, technical majors, such as those in engineering or science. The demand for professionals with the training and skills for a career in the minerals- and energy-recovery profession far exceeds the supply. Mineral exploration and evaluation, mine development, marketing, health and safety, environmental protection, and mine management are all areas of industry employment. It is recommended that students wishing to pursue this minor come from an engineering or science major. As a result, the selection of this minor can provide additional career options for students in a wide range of offerings at Penn State.

## What is Mining 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.

## You Might Like This Program 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.