

College of Engineering

MINING ENGINEERING

Unearthing Global Sustainability

Mining is crucial as the world moves toward sustainable technologies ranging from solar panels to electric vehicles. As the demand for minerals grows by an expected 1,000% in the next 30 years, mining engineers will fill gaps for green technology and construction, high-performance computing systems, improved urban infrastructure, smart manufacturing and space exploration.



FACILITIES & ACADEMICS WITH DEPTH

The University of Arizona has one of the highest-ranked mining programs in the world. The San Xavier mine is the only student-run, multilevel mine with a working shaft in the United States. Curriculum integrates the overlapping disciplines of geomechanics, sustainable resource development and mineral processing. Students gain the skills to work in mine design, construction, production and operations, as well as land restoration, mineral exploration, extraction and processing.

DESTINATION OF CHOICE

Generous private scholarships of about \$8,000 a year per student, tremendous out-of-state tuition savings through the Western Undergraduate Exchange, and 100% job placement make UA mining engineering the discovery of a lifetime. Graduates field job offers from near and far and work at places like Caterpillar, Freeport-McMoRan, Geovic Mining Corp., Barrick, Arizona Mining Inc. and Newmont. Starting salaries have been among the highest of UA alumni.



THE UNIVERSITY
OF ARIZONA

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COLLEGE OF ENGINEERING

Mining & Geological Engineering

DOWN-TO-EARTH RESEARCH

This tight-knit, diverse, entrepreneurial community is dedicated to positive global change. UA mining engineering students and faculty are developing technology for:

- Water and energy conservation
- Sensing and mine automation
- Mineral extraction and refinement
- Upcycled and recycled products



“ Many students graduate from college with no real mining experience and do not have the credibility to manage mine operations, but UA graduates are already ahead of the curve. ”

Alum Rita Riggs, *Conservation Foundation Tanzania*

LEARNING FROM EXPERIENCE

In addition to running a working mine, most students do multiple internships and real-life design projects to build leadership skills and prepare for the workforce.

- Paid internships with longtime industry partners
- Formal networking opportunities with faculty, alumni and industry
- Senior design projects with experienced industry mentors
- Research opportunities and field experience
- Student chapters of professional organizations
- Student clubs and national competitions, including the International Society of Explosives Engineers and the Society for Mining, Metallurgy & Exploration

A PLACE FOR EVERYONE

Various engineering clubs – American Indian Science & Engineering Society; National Society of Black Engineers; Out in Science, Technology, Engineering, and Mathematics; Society of Hispanic Professional Engineers, and Society of Women Engineers, for example – help ensure all students feel welcome and connected.

“ Mining is an area in which the creative problem-solving abilities and technical expertise of engineers is becoming increasingly important. ”

David W. Hahn, *Craig M. Berge Dean*



Recruiting and Admissions

520.621.6032 – enr-admissions@arizona.edu

Advising

520.621.6063 – micahparrish@arizona.edu