

College of Engineering

MINING ENGINEERING

Unearthing Global Sustainability

Advanced technology and green energy depend on new supplies of metals and minerals: copper, lithium and cobalt, to name just a few of the materials mining engineers produce from the Earth's natural mineral deposits. As products such as electric vehicles, solar panels and semiconductors – and processes like 3D printing – raise demand for these metals by an expected 1,000% in the next 30 years, mining engineers will help produce them safely and sustainably for the next generation.

FACILITIES & ACADEMICS WITH DEPTH

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

DESTINATION OF CHOICE

Generous private scholarships of about \$8,000 per 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

»» mining.arizona.edu



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

- Maximum metal, minimum impact: energy and water conservation
- Novel sensor technology, automation and remote control for safer and more efficient mines
- New methods for efficient, sustainable metal extraction from ore minerals
- Critical metals for the world's green energy future
- Prediction of rockfalls, landslides and other rock hazards
- Asteroid and moon mining



“ I really want to be involved in an industry where even a little advancement could have a big impact on the world in general.”

Student Greatness H. Ojum, founder and president of UA Women in Mining chapter

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
- National competitions, student clubs and chapters of professional organizations

A PLACE FOR EVERYONE

Community-building and networking opportunities abound with the Society for Mining, Metallurgy, & Exploration and Women in Mining. Additional engineering clubs – American Indian Science & Engineering Society; National Society of Black Engineers; Out in Science, Technology, Math and Engineering; Society of Hispanic Professional Engineers, and Society of Women Engineers – help ensure all students feel welcome and connected.

“ The opportunities for our graduates are incredible. They're choosing from multiple offers, working around the world, and emerging as leaders in environmentally responsible technology.”

Department Head Kray Luxbacher, Gregory H. and Lisa S. Boyce Leadership Chair in Mining and Geological Engineering



Recruiting and Admissions

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Advising

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