Graduate Studies
Informing safe, sustainable mining

Research Focus Areas
- Geophysical sensing techniques
- Mineral & chemical characterization
- Mineral processing, geometallurgy & extractive metallurgy
- Rock strength, fracturing & excavation
- Sustainability & development
- Technology & automation

One-of-a Kind Resources
- Geotechnical Center of Excellence: multidisciplinary risk mitigation
- Lowell Institute for Mineral Resources: globally sustainable practices
- San Xavier Underground Mining Lab: industry-level training

Degrees
PhD • MS • ME (online option)

Certificates with Online Options
- Mine Production & Information Technology
- Mineral Processing & Extractive Metallurgy
- Mining Occupational Safety & Health
- Rock Mechanics

Arizona
No. 1
U.S. copper production (USGS)

"After a nationwide search for the right program, I chose Mining and Geological Engineering at the UA, and I couldn't be happier. The facilities, resources and staff here at the university gave me the means to tackle my research in ways I never thought possible."

- Blase LaSala, MS student

Funding options throughout degree lifecycle

Application Deadlines
Fall – All Programs
International: April 20
Domestic: July 15

Spring – ME and Certificates Only
International: September 30
Domestic: November 18

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I knew mining was exciting, but I didn’t know it was this exciting. I’m pretty sure this is one of the coolest departments in the country. We get so much experience.

- Gaurav Gupta, MS graduate, systems engineer with Rio Tinto – Kennecott Utah Copper

Faculty Expertise

Isabel Barton – fay1@email.arizona.edu
geometallurgy • materials characterization • economic geology •
geochemistry • extractive metallurgy • mineralogy

John Kemeny – kemeny@email.arizona.edu
geomechanics • fracture mechanics • 3D imaging and numerical modeling

Kwangmin Kim – kimkm@email.arizona.edu
geomechanics • slope stability • blast fragmentation/design •
mineral comminution circuits • mine-to-mill optimization

Jaeheon Lee – jaeheon@email.arizona.edu
hydrometallurgy • bioleaching and biooxidation of sulfide materials

Moe Momayez – moe.momayez@email.arizona.edu
geomechanics • geosensing • big data • health and safety •
ventilation • nondestructive testing • underground mining and construction

Brad Ross – bjr@email.arizona.edu
sustainable development • geotechnics • leadership • mine operations

Ben K. Sternberg – bksslasi@email.arizona.edu
electrical and electromagnetic methods • integration of geological and
geophysical data for mining, petroleum, environmental, water resource
and geotechnical applications • imaging and sensing applications

Victor Tenorio – vtenorio@email.arizona.edu
underground mine design

Jinhong Zhang – jhzhang@email.arizona.edu
mineral processing • froth flotation • surface chemistry • water treatment
• atomic force microscopy