



THE UNIVERSITY OF ARIZONA

School of Mining & Mineral Resources



"The University of Arizona's combination of faculty expertise, highly regarded programs, motivated students and geographic location mean it is perfectly positioned to educate a workforce for the mining industry of the future."

—ROBERT C. ROBBINS, *University of Arizona president*

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THE UNIVERSITY OF ARIZONA SCHOOL OF MINING AND MINERAL RESOURCES

*Transforming the way students,
professionals and communities work
across disciplines to meet the complex
challenges of sustainable mineral
resource development*

Society relies on mined minerals for everything from fuel, building materials and agriculture to electronics, automobiles and jets. As demand for resources increases, so do the challenges around using and producing minerals responsibly. Solutions require a comprehensive approach across disciplines, sectors and communities. Drawing on University of Arizona strengths, the School of Mining and Mineral Resources is dedicated to educating the next generation of professionals and providing a talent pool to help ensure sustainability of these crucial minerals.

FORWARD-THINKING EDUCATION FOR A FAST-CHANGING WORLD

Bringing mining and mineral resources into multiple areas of study and creating a hub for global experts

The school is connecting global experts across organizations and preparing students in multiple disciplines – science, engineering, public health, social science, law and business – to solve real-world problems around responsible mining and mineral resource stewardship.

The school's Innovation Hub, including industry-sponsored student projects, helps attract, inspire and connect the brightest minds in the field – leaders, professionals and students alike. The school is leveraging the power of a top research university to solve some of the most difficult mining and mineral resource problems. World-renowned faculty and promising students are collaborating in areas such as reclamation, geotechnics, safety, information technology, robotics, water treatment and community engagement.

"The College of Science is working with the school to bring unique academic and career opportunities to our students."

– CARMALA GARZIONE
dean of the *College of Science*





JOB DEVELOPMENT GEARED TO INDUSTRY & SOCIETAL NEEDS

Giving learners at all levels a competitive edge

The school's outreach exposes young people to the diverse, meaningful career opportunities in mining and mineral resources, showing them early on how their personal interests and talents can meet job demand and societal needs.

Students at all levels – including undergraduates, graduate students and working professionals – gain a competitive edge. Through specialized classes, minor degree programs and collaborative projects, they acquire knowledge and skills to contribute significantly to a fast-evolving global field.

Additionally, as a designated Hispanic Serving Institution near Arizona's border with Mexico, the university is well-positioned to serve the talent development needs of the greater region.



CURRICULUM BUILDS ON UNIVERSITY'S STRENGTHS

Overcoming academic silos

The school isn't just focused on educating geoscientists and mining engineers. It is instilling knowledge of the many facets of mining and mineral resource management into the lawyers, entrepreneurs, medical professionals, business executives and social scientists of today and tomorrow. This, coupled with experiential learning driven by industry, sets the school apart as the premier provider of mining and mineral resource talent.

The curriculum taps into existing offerings, such as the Global Mining Law program and Lowell Program in Economic Geology, to create an entirely unique interdisciplinary experience for an equally interdisciplinary body of students.

Students also hone skills such as communication, teamwork, problem-solving and data analysis, while gaining an appreciation for different perspectives and cultures.

Educational Offerings

- General education courses that teach undergraduates across majors about mining and mineral resources
- Minor in Sustainable Mineral Resources
- Certificates in areas ranging from automation to community relations
- Research and teaching assistantships for graduate students
- Professional development courses
- Intensive geological field courses
- On-demand online courses

“The school will further elevate the ability of UArizona – a world leader in engineering, environment, geoscience, and health and safety – to address the increasing need for production of critical minerals and materials.”

– STEVE TRUSSELL, *executive director of the Arizona Rock Products Association and the Arizona Mining Association*

THE ARIZONA ADVANTAGE

Tapping into state support

The state has allocated \$4 million annually for the School of Mining and Mineral Resources. Industry, donors and university leadership support the school, with the deans of engineering and science championing the initiative.

This school – in a state where nearly three-fourths of the nation’s copper is produced and 45,000 jobs are connected to mining – represents the continuation of a rich legacy.

The School of Mines was one of two founding units when the university was established in 1885. Today it has grown into one of the leading mining schools in the world and is home to the San Xavier Underground Mining Laboratory, Lowell Institute for Mineral Resources, modern geotechnical labs, and centers for sustainability and mining safety.

