MINING-RELATED DEGREES

With 41 mining-related degrees, you can find your path to limitless opportunities in this industry!

College of Agriculture, Life & Environmental Sciences	Software Engineering Systems Engineering	Communication Environmental Studies
Biosystems Analytics and Technology Environmental and Water Resource Economics Environmental Science Natural Resources	College of Humanities	Geography Law Public Management and Policy
	Interdisciplinary Studies	
	College of Information Science	Sociology
College of Engineering	Information Science	Eller College of Management
Biosystems Engineering	College of Science	Accounting Business Administration Business Economics Business Management Economics Management Information Systems Mel & Enid Zuckerman College of Public Healt!
Chemical Engineering 2nd Engineering Computer Science and Engineering Bectrical and Computer Engineering Engineering Management Environmental Engineering ndustrial Engineering	Applied Physics Biology Chemistry Computer Science Geoscience Hydrology and Atmospheric Sciences Physics	
Materials Science and Engineering Mechanical Engineering Mining Engineering	College of Social and Behavioral Sciences American Indian Studies Anthropology	Public Health

MINING.ARIZONA.EDU





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Make a

MAJOR

with a Minor in Sustainable

Mineral Resources

\$2000 Scholarships
Fulfills Gen Ed Requirements

Paid Internships
Choose Your Track & Classes

ЛРАСТ

the UNIVERSITY OF ARIZONA School of Mining & Mineral Resources



e, High-Paying Jobs





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THE UNIVERSITY OF ARIZONA School of Mining & Mineral Resources

MINING

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Mining Engineer

"I design solutions that safely and efficiently extract valuable minerals from the Earth."



EDUCATIONAL REQUIREMENTS

Bachelor's of Science in Mining Engineering (MNE)

Advanced degrees: M.S. in Mining Engineering, Geological Engineering, or related fields such as Environmental Engineering, Hydrology, or Geotechnical Engineering

JOB TITLES

- Mining Engineer
- Geological Engineer
- Mine Safety Engineer
- Mineral Processing Engineer
- Rock Mechanics Engineer

AVERAGE STARTING SALARY





Metallurgist

"I transform raw materials into valuable resources by refining and extracting metals and minerals."



U of A Students looking to work in mineral processing typically get a degree in mining engineering within the mineral processing track.

EDUCATIONAL REQUIREMENTS

Bachelor's of Science in Mining Engineering (MNE)

Bachelor's of Science in Chemical Engineering (CHEE)

Advanced degrees: M.S. in Mineral Processing, Extractive Metallurgy, or related fields such as Chemical Engineering or Materials Science

JOB TITLES

- Mineral Process Engineer
- Metallurgical Engineer
- Process Engineer
- Extractive Metallurgist
- Plant Operator

AVERAGE STARTING SALARY





Exploration Geologist

"I uncover Earth's history and help find the resources that power the future."



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A Students looking to work in exploration geology typically gets a Bachelor's degree in Geosciences with an emphasis in Geology followed by an advanced degree with a focus on Economic Geology.

EDUCATIONAL REQUIREMENTS

Bachelor's of Science in Geosciences with a geology emphasis (GEOS)

Advanced degrees: Professional Science Master's in Economic Geology, M.S. or Ph.D. in Geosciences, Geological Engineering, or related fields like Hydrology, Environmental Geology, or Geophysics

JOB TITLES

- Geologist
- Hydrogeologist
- Environmental Geologist
- Exploration Geologist
- Geophysicist

AVERAGE STARTING SALARY \$60,000 - \$85,000



Environmental Specialist

"I protect ecosystems by ensuring that resource extraction is done sustainably and responsibly."



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EDUCATIONAL REQUIREMENTS

Bachelor's of Science in Environmental Science (ENVS)

Advanced degrees: M.S. in Environmental Science, Environmental Engineering, or related fields such as Ecology, Hydrology, or Environmental Policy

JOB TITLES

Environmental Scientist

- Environmental Engineer
- Sustainability Specialist
- Conservation Scientist
- Environmental Consultant

AVERAGE STARTING SALARY \$55,000 - \$75,000



Students looking to do environmental work in mining typically get a Bachelor's of Science in Environmental Science and participate in research with the Center for Environmentally Sustainable Mining.

Hydrologist

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"I manage and protect water resources, ensuring clean and sustainable water for all."



EDUCATIONAL REQUIREMENTS

Bachelor's in Hydrology and Atmospheric Science with an emphasis in hydrology and water resources (HWRS)

Advanced degrees: M.S. or Ph.D. in Hydrology, Water Resources Management, or related fields such as Environmental Engineering or Geosciences

JOB TITLES

- Hydrologist
- Hydrogeologist
- Water Resources Engineer
- Environmental Hydrologist
- Water Quality Specialist

AVERAGE STARTING SALARY \$60,000 - \$80,000



Chemical Engineer

"I develop sustainable solutions to address environmental challenges and enhance resource efficiency."



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EDUCATIONAL REQUIREMENTS

Bachelor's in Chemical Engineering (CHEE)

Advanced degrees: M.S. or Ph.D. in Chemical Engineering, Environmental Engineering, or related fields like Environmental Science or Materials Science

JOB TITLES

- Environmental Engineer
- Process Engineer
- Chemical Engineer
- Sustainability Engineer
- Pollution Control Engineer

AVERAGE STARTING SALARY \$65,000 - \$85,000



Industrial Hygienist

"I ensure safe and healthy work environments by preventing exposure to harmful conditions."



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EDUCATIONAL REQUIREMENTS

Bachelor's in Public Health with a focus on Environmental and Occupational Health (PHP)

Advanced degrees: M.S. in Industrial Hygiene, Occupational Safety, or Public Health

JOB TITLES

- Industrial Hygienist
- Occupational Health Specialist
- Health and Safety Specialist
- Environmental Health Specialist
- Risk Management Consultant -

AVERAGE STARTING SALARY \$65,000 - \$85,000

Students interested in becoming an industrial hygienist would first get a B.S. in Public Health following the Environmental and Occupational Health track. Students would then get a Master's in Public Health, or MPH, following the Industrial Hygiene track.





MNE422 • ENGR422 GEN ED: Building Connections/Writing

Perspective of Sustainability: **Supplying Mineral Resources** for Society



Enroll now for Fall 2025

Mondays & Wednesdays 2:30 - 3:45 pm Mines & Metallurgy, Room 225

Examine modern sustainable development issues in supplying mineral resources for today's society.

Students will analyze sustainable development issues in mineral supply from environmental, societal, and economic perspectives, considering global impacts and personal influences. This exploration includes lectures, role-playing, discussions, and research on sustainability topics.



THE UNIVERSITY OF ARIZONA School of Mining & Mineral Resources

Questions? Contact Gail Heath at gailheath@arizona.edu.

More Info »



MNE201 • ANTH201 GEN ED: Building Connections; Diversity Emphasis/Tier 2 Natural Sciences

Nonrenewable Resources & World Civilizations



Learn how nonrenewable resources have shaped the development of societies throughout time.

The use of nonrenewable resources like metals, petroleum, and coal have influenced historical societies and will impact future human development. This course explores how civilizations have formed, extracted, & utilized resources, shaping historical events.



THE UNIVERSITY OF ARIZONA School of Mining & Mineral Resources

Questions? Contact Isabel Barton at <u>fay1@arizona.edu</u>.

More Info »





THE UNIVERSITY OF ARIZONA School of Mining & Mineral Resources

HOW TO ENGAGE WITH MINING'S FUTURE WORKFORCE

Tap into the interdisciplinary talent of University of Arizona's current and future graduates.



SOME OF THE WAYS WE CAN COLLABORATE:

1. SHARE JOB & INTERNSHIP POSTINGS

Send us your job postings and we'll share with students via Handshake, the #1-way students find jobs. Please include an overview with the position description, flyer, link to posting, and specific degrees you are seeking.

Email us at mining@arizona.edu

Handshake

3. REGISTER FOR A JOB FAIR

Book a booth at our annual mining career fair, Mines for Limitless Minds. Other University of Arizona career fairs can be attended by contacting the Career Services Department.

Email us at nordell@arizona.edu

2. ON-CAMPUS INFO SESSIONS

We will happily host your company for a student info session at the Dept of Mining & Geological Engineering. Reach mining undergrads and students in our Sustainable Mineral Resources minor program. Host an info session (Day 1) & interviews (Day 2). Scan the QR code to learn more.

4. ATTEND iEXPO

Reach engineers of all backgrounds. Every spring, the Engineering Student Council hosts the Engineering iEXPO, an engineering-specific career fair. You can find more info here:

www.escuofa.com/iexpo

ENGINEERING AND STUDENT COUNCIL UNIVERSITY OF ARIZONA



VOLUNTEER FOR CAREER OUTREACH EVENTS

For more information on any of the opportunities listed above or to volunteer for a career outreach event, email Mario or scan the QR code to contact us. <u>mariomunoz@arizona.edu</u>



SCAN TO

LEARN MORE

MIN226 • MNE226 • GEOS226 • ENVS226 Gen Ed: Building Connections & Quantitative Reasoning

A Balanced Future: Sustainability & Minerals



Tuesdays & Thursdays 9:30 - 10:45 am Chemistry, Room 138

Explore the **environmental**, **social**, **technical**, and **economic challenges** of sustainably supplying mineral resources.

Students will investigate the sustainable production and use of mineral resources, tracing their lifecycle from rock to recycling. They will assess mining's impacts and balance community, industry, and government perspectives.



THE UNIVERSITY OF ARIZONA School of Mining & Mineral Resources

Questions? Contact David Hogan at <u>davidehogan@arizona.edu</u>.

More Info »



Secure, High-Paying Jobs

Career Advancement Opportunities

Travel & Exploration

Geosciences

"I uncover Earth's history and help find the resources that power the future."

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AVERAGE STARTING SALARY \$60,000 - \$85,000

JOB TITLES

- Geologist
- Hydrogeologist
- Environmental Geologist
- Exploration Geologist

evaluate mineral potential.

Geophysicist

WHAT DOES AN EXPLORATION GEOLOGIST DO?

Exploration geologists are vital in responsibly developing natural resources that are essential for modern life, while balancing environmental and economic considerations.

In this role, you'll use geological knowledge and advanced technology to locate and assess valuable minerals and metals, helping to

PREPARING FOR AN EXPLORATION GEOLOGIST CAREER

Embark on an exciting journey through the dynamic field of Geoscience at the University of Arizona. Our undergraduate program offers a comprehensive education that combines cutting-edge research, hands-on fieldwork, and expert faculty guidance. Whether you're passionate about exploring nature, understanding resource management, or delving into Earth's history, our program equips you with the knowledge and skills to make a significant impact on the world.

determine the economic feasibility of mining

projects. You'll work with engineers, environ-

mental scientists, and economists to integrate

geological findings with other resource development aspects, and spend time in the field

conducting surveys and collecting samples to

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THE UNIVERSITY OF ARIZONA COLLEGE OF SCIENCE Geosciences





Secure, High-Paying Jobs

Wide Variety of Career Opportunities

Significant Scholarships Available

Mining Engineering

"I design solutions that safely and efficiently extract valuable minerals from the Earth."

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AVERAGE STARTING SALARY \$70,000 - \$90,000

JOB TITLES

- Mining Engineer
- Geological Engineer
- Mine Safety Engineer
- Mineral Processing Engineer
- Rock Mechanics Engineer

WHAT DOES A MINING & GEOLOGICAL ENGINEER DO?

Mining and geological engineers focus on designing safe and efficient mines for extracting gems, minerals and metals.

In this role, you'll help plan and execute mining projects and ensure compliance with civic, environmental and safety regulations. You may work to improve mining processes, develop or implement new technologies, and help manage the impact of mining activities. You'll collaborate with geologists and other specialists to evaluate earth materials and ensure successful resource extraction, providing economic growth and ensuring sustainable mineral resources for the world.

PREPARING FOR A MINING & GEOLOGICAL ENGINEER CAREERR

Our dynamic MGE programs at the University of Arizona blend rigorous academic coursework with hands-on experience, preparing you with the knowledge and skills companies are looking for and paving the way for an exciting, limitless career.

Choose from four tracks in high-demand fields: mining, metallurgy, environmental protection, and manufacturing. Explore how our world-class faculty, state-of-the-art facilities, and industry connections can help you carve out a successful and impactful career.

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the university of arizona college of engineering **Mining & Geological Engineering**

LEARN MORE MGE.ARIZONA.EDU



CHOOSE FROM MANY MINING-RELATED DEGREES INCLUDING:

Geosciences

"I explore the depths of the Earth, analyzing rocks and minerals to discover & map hidden treasures."

Secure, High-Paying Jobs

Career Advancement Opportunities

Travel & Exploration

AVERAGE STARTING SALARY \$60,000 - \$85,000

THE UNIVERSITY OF ARIZONA COLLEGE OF SCIENCE

Geosciences

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CHOOSE FROM MANY MINING-RELATED DEGREES INCLUDING:

Mining Market Ma

"I design solutions, using cutting-edge technology, to safely & efficiently extract the raw materials that fuel our world."

Secure, High-Paying Jobs

Wide Variety of Career Opportunities

Significant Scholarships Available

AVERAGE STARTING SALARY \$70,000 - \$90,000

THE UNIVERSITY OF ARIZONA COLLEGE OF ENGINEERING

Mining & Geological Engineering

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