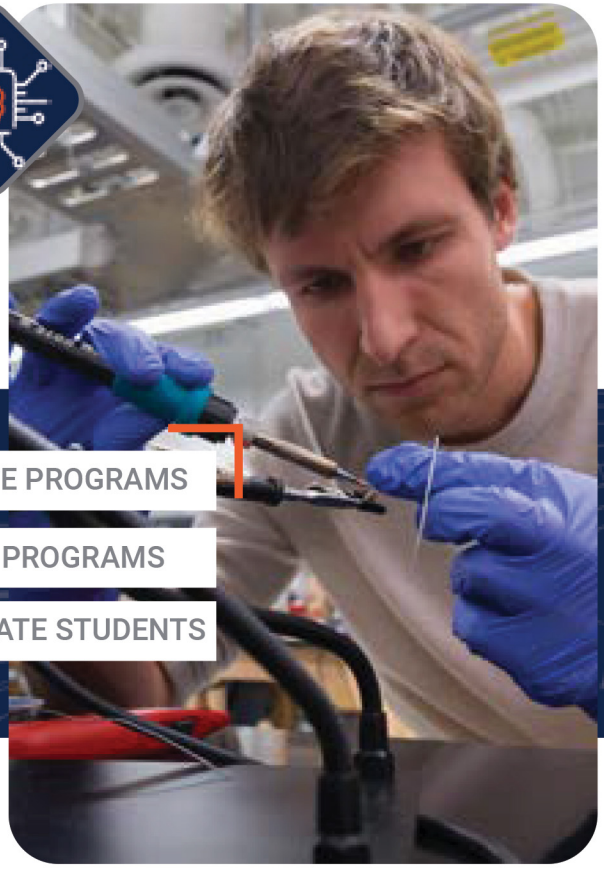
ADMISSIONS

TUITION AND FUNDING

ACADEMIC PROGRAMS

GRADUATE PROGRAMS

PhD | MS - Thesis | MS Non - Thesis | Certificate



55+ GRADUATE PROGRAMS

20+ ONLINE PROGRAMS

~1,800 GRADUATE STUDENTS

COLORADO SCHOOL OF MINES

Colorado's Premier Engineering and Applied Science University

303-273-3247 | 800-446-9488 | grad-admissions@mines.edu

gradprograms.mines.edu

ACADEMIC PROGRAMS

Online Campus

Doctor of Philosophy (PhD)

- Advanced Energy Systems
- Applied Chemistry
- Applied Mathematics and Statistics
- Chemical Engineering
- Civil & Environmental Engineering
- Computer Science
- Earth Resources Science and Engineering
- Electrical Engineering
- Environmental Engineering Science
- Geochemistry
- Geological Engineering
- Geology
- Geophysical Engineering
- Geophysics
- Hydrologic Science and Engineering
- Materials Science
- Mechanical Engineering
- Metallurgical and Materials Engineering
- Mineral and Energy Economics
- Mining Engineering
- Nuclear Science and Engineering
- Operations Research with Engineering
- Petroleum Engineering
- Physics
- Quantitative Biosciences and Engineering
- Robotics
- Space Resources
- Underground Construction and Tunneling Eng.

Master of Science (MS - Thesis)

- Applied Mathematics and Statistics
- Applied Physics
- Chemical Engineering
- Chemistry
- Civil Engineering
- Computer Science
- Earth Resources Science and Engineering
- Electrical Engineering
- Engineering and Technology Management
- Environmental Engineering and Science
- Geochemistry
- Geological Engineering
- Geology
- Geophysical Engineering
- Geophysics
- Humanitarian Engineering and Science
- Hydrologic Science and Engineering
- Materials Science
- Mechanical Engineering
- Metallurgical and Materials Engineering
- Mineral and Energy Economics
- Mining Engineering
- Nuclear Science and Engineering
- Petroleum Engineering
- Quantitative Biosciences and Engineering
- Quantum Engineering
- Robotics
- Underground Construction and Tunneling Eng.

Master of Science (MS Non - Thesis)

- Applied Mathematics and Statistics
- Additive Manufacturing
- Advanced Energy Systems
- Applied Physics
- Carbon Capture Utilization and Storage
- Chemical Engineering
- Chemistry
- Civil Engineering
- Computer Science
- Data Science
- Earth Resources Science and Engineering
- Electrical Engineering
- Engineering and Technology Management
- Environment, Resources and Energy Policy
- Environmental Engineering and Science
- GIS and GeoInformatics
- Geophysical Engineering
- Geophysics
- Humanitarian Engineering and Science
- Hydrologic Science and Engineering
- Materials Science
- Mechanical Engineering
- Mineral and Energy Economics
- Mining Engineering
- Operations Research with Engineering
- Quantitative Biosciences and Engineering
- Quantum Engineering
- Robotics
- Space Resources
- STEM Teaching
- Underground Construction and Tunneling Eng.

Professional Master's (PM)

- Analytical Geochemistry
- Computer Science
- Electrical Engineering
- Environmental Geochemistry
- Mineral Exploration
- Mining Industry Management

Master of Engineering (M.Eng.)

- Geological Engineering
- Metallurgical and Materials Engineering
- Nuclear Science and Engineering
- Petroleum Engineering

Certificate (GradCert)

- Additive Manufacturing
- Analytical Geochemistry
- Business Analytics
- Carbon Capture, Utilization and Storage
- Chemical Eng. Processes in Energy Transitions
- Cybersecurity
- Data Science
- Earth Resources
- Economic Geology
- Environment, Resources and Energy Policy
- Exploration Methods
- Finite Element Analysis (FEA) Professional
- GIS and GeoInformatics
- Humanitarian Engineering and Science
- Information and Systems Science
- Microwave Engineering
- Optics for Engineering
- Power and Energy Systems
- Product Management
- Quantum Engineering
- Resource Commodity Analytics
- Robotics
- Space Resources
- Tailings Engineering
- Underground Construction and Tunneling Eng.

EXPLORE PROGRAMS

gradprograms.mines.edu/programs

ADMISSIONS

YOU ARE READY

NEXT STEPS

PICK YOUR PROGRAM
Decide which doctoral, master's, or certificate program is for you.

DETERMINE DEADLINE
Application deadlines can vary by program and term. Make sure to have all your materials submitted by the deadline in order for your file to be reviewed.

CREATE AN ADMISSIONS APPLICATION ACCOUNT
Your Admissions Application Account is where you will access the Mines application, submit your materials and view your admission decision. Get started at **mines.edu/applygrad**.

APPLY TO MINES
Log in to your Admissions Application Account and apply using the Mines Graduate Student Application and pay the **$75 application fee**. (Application fee is $95 for international students)

SUBMIT YOUR MATERIALS
Check your program to find out what materials are required to complete your application. This may include items such as official transcripts, letters of recommendation and GRE scores.

STOP! FILE REVIEW
Your file will not be reviewed until your application **AND** all required materials are received. Check your Admissions Application Account to make sure you do not have any missing items.

CHECK YOUR EMAIL
Stay engaged and up-to-date. We'll notify you of important information, missing materials and your admissions decision via email.

SUBMIT YOUR ENROLLMENT DECISION FORM
After you receive your admissions decision, you'll need to submit your Enrollment Decision Form in order to hold your spot in your graduate program.

APPLY ONLINE, ANY TIME **mines.edu/applygrad**

ENGINEER YOUR FUTURE

Colorado School of Mines offers graduate programs designed to help you reach your goals. For 150+ years, Mines has prepared leaders to solve industry challenges and benefit society through impactful education and research. Learn from world-class faculty, collaborate with industry partners, conduct research that addresses real-world challenges and build a robust network of peers, alumni and industry leaders.

At Mines, you won't just prepare for your future. You'll engineer it.

#1 MINERAL AND MINING UNIVERSITY
QS World University Rankings, 2026

#3 PUBLIC INSTITUTION IN THE U.S. FOR 40-YEAR ROI
Georgetown, 2025

#1 NATIONAL UNIVERSITY IN COLORADO
U.S. News & World Report, 2026

REGISTER FOR CLASSES

Work with your program contact to register for classes.

ORIENTATION

This session will cover all things Mines to set you up for success before classes begin.

FUNDING

Check your student bill.

You may also need to check financial aid, loans and scholarships.

If you are awarded a funding opportunity, make sure to complete any additional steps.

DON'T FORGET

Send official transcripts from every institution you have attended.

Check your program's prerequisite requirements.

International students may need to submit additional materials.

SUPPORT FROM DAY ONE

The Mines Graduate Program Specialist team is here to assist you from start to finish.

gradprograms.mines.edu/contact

GET CONNECTED

So we can stay in touch and keep you up to date.



CARLOS A. CISNEROS JR.

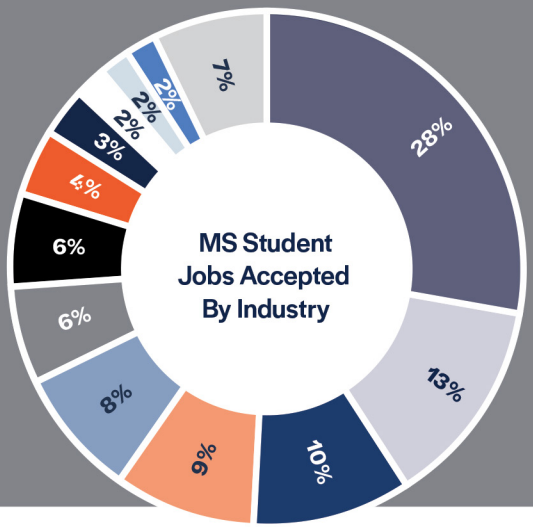
MS Civil Engineering
MS Engineering and Technology Management

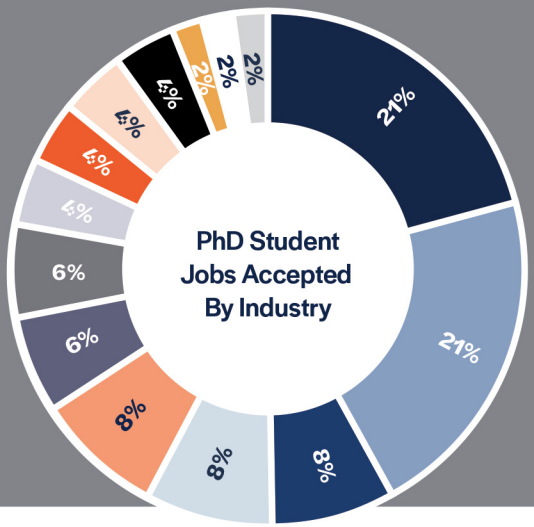
"I felt prepared, not just because of the technical education, but because my communication and organizational skills grew so much during my time here.

Carlos earned a master's in Civil Engineering and is now completing a second master's in Engineering and Technology Management. While working full-time as a design engineer, he's building on his technical expertise with leadership and business skills that are preparing him for the next step in his career.

TUITION AND FUNDING

IT'S WORTH IT TO INVEST IN YOU





- Aerospace | Defense | Aviation
- Civil | Construction Engineering
- Education | Instruction | Administration
- Electronics | Electrical Components
- Energy | Oil & Gas
- Engineering & Advisory Services
- Environmental Resources | Water
- Government | Public Sector
- Healthcare | Medical Equipment
- High Tech | Information Technology
- Manufacturing | Machinery | Equipment
- Metals
- Mining
- Utilities | Power
- Other

RESEARCH
A GLOBAL LEADER

300+
active research faculty

$136M
in total research awards
FY 2025

R1
research status
top 5% of U.S. colleges and universities for research

Mines faculty and students conduct research in renewable energy, oil and gas, groundwater, quantum engineering, underground construction, computational modeling and more. Partnerships with national laboratories, industry and government agencies create opportunities to address complex, real-world challenges.



research.mines.edu

RESOURCES AND SUPPORT

No matter what the format of your program is, you will join a community of support with access to resources for success.

- Graduate mentoring
- Tutoring center
- Student health services
- Professional development conferences
- Career Center
- Graduate Student Government
- DiggerNet job portal access

2026 - 2027

COST OF ATTENDANCE

BASED ON ANNUAL FULL TIME ENROLLMENT

	COLORADO RESIDENT	OUT-OF-STATE	MINES ONLINE
TUITION	$19,980	$43,488	$21,564
FEES	$3,206	$3,206	$204
HOUSING/MEAL ALLOWANCE	$19,926	$19,926	$19,926
BOOKS AND SUPPLIES	$1,500	$1,500	$1,500
PERSONAL EXPENSES	$1,728	$1,728	$1,728
TRANSPORTATION ALLOWANCE	$1,512	$1,512	$1,512
LOAN FEES	$181	$181	$181
TOTAL	**$48,033**	**$71,541**	**$46,615**

$100K
average starting salary for PhD students

~$95K
average starting salary for MS students

88%
positive outcomes for MS and PhD graduates

Explore tuition, fees and costs.

finaid.mines.edu

NINE CREDIT HOUR FLATLINE

For students looking to save even more, **tuition and fees stay flat from nine to 15 credit hours for on-campus courses.** That means you'll pay the same tuition and fees whether you take nine, 10, 12 or even 15 credit hours, saving you both time and money by taking a higher semester course load.

*Mines Online does not qualify for the flatline.

FUNDING OPPORTUNITIES

To help support your graduate education, Mines has numerous funding opportunities including **fellowships, traineeships, scholarships or teaching and research assistantships.** As part of your admissions application, you'll have the opportunity to indicate your interest in these funding options. You can also contact your academic program to learn more about funding opportunities available.

WHAT'S ONE CREDIT COST?

Tuition / Fees

COLORADO RESIDENT
$1,110 / $424

OUT-OF-STATE
$2,416 / $424

MINES ONLINE
$1,198 / $102

ON CAMPUS OR ONLINE
FORMATS THAT FIT

MINES ONLINE

online.mines.edu

Choose the learning environment that's right for you. Whether you study on campus or online, **you'll earn the same respected Mines degree** taught by **the same expert faculty.** Every program is designed to deliver the rigorous, industry-focused education that prepares graduates to solve real-world challenges.

- Join a global community of Mines graduate students.
- Optional accelerated terms, online courses are also offered in two consecutive eight-week sessions.



VISIT CAMPUS

tour.mines.edu

On campus, virtually or in your area – we want you to get to know Mines.

INDUSTRY AND ALUMNI NETWORK



Join a community of **40,000+ alumni**, research collaborators, faculty, staff, industry and government partners who share your drive to lead, innovate and make an impact.

Mines does not discriminate on the basis of age, sex, gender (including gender identity and gender expression), pregnancy, sexual orientation, marital status, race, ethnicity, color, religion, creed, national origin or ancestry, disability, genetic information, veteran status or current military service. Mines' commitment to nondiscrimination, equal opportunity and equal access is reflected in the administration of its policies, procedures, programs and activities and in its efforts to achieve a talented student body and workforce.

WHICH PROGRAM IS RIGHT FOR ME?

PhD | MS - Thesis | MS Non - Thesis | Certificate

View **programs**

PhD

Doctor of Philosophy

A PhD program is often the result of lifelong learning and the pursuit of the pinnacle of the academic experience. The PhD or 'Doctor of Philosophy' is the highest level of academic qualification one can achieve. Through multi-semester data and research, students will publish a final thesis of their work and findings. Mines is the only institution in the world that offers doctoral programs in all five of the major earth science disciplines.

MS - Thesis

Master of Science (MS-T)

Thesis programs will involve multiple semesters of focus on data collection and a strong dedication to research. Upon completion, most students will submit a final paper with all findings to be published. This is typically the route that students will take when they are preparing for a PhD program.

MS Non - Thesis

Master of Science (MS-NT)

Non-thesis programs generally require a submission of a final project or capstone. Even though research will not be the primary focus of a non-thesis program, it is important to note almost all MS programs will have a research component but will rarely have an expectation of papers being published. This is a common degree program for working professionals who may not have the capacity to dedicate time to multi-semester research.

Certificate

GradCert

A graduate-level certificate will utilize advanced, high-level courses without awarding a full degree. Often, certificates are a shorter time commitment with less cost. Earning this credential allows students to acquire specialized knowledge to help advance career goals, prepare for a graduate degree, meet licensing requirements and more. Certificates can be achieved along the way of pursuing a higher degree or independently on their own.

FORMATS THAT FIT. Mines offers programs **on campus and online,** engineered with life beyond the classroom in mind.

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COLORADO SCHOOL OF MINES
Graduate Admissions

COMBINED PROGRAMS

MULTIPLE DEGREES, ONE PLAN, LESS TIME.



Combined Programs allow students to complete a bachelor's degree at Mines and combine it with a master's degree program to complete both in as little as 5 years.

Or, take a look how you can combine and finish your PhD, too.

WHY COMBINE?

1. No application fee.
2. No required GRE scores.
3. No required letters of recommendation.
4. Seamlessly continue on to grad school.
5. No obligation to continue if your plans change.

HERE'S HOW

1. Be a current Mines student.
2. Complete **at least 75 credits** towards your bachelor's degree.
3. Apply **before** your last semester.
4. You'll incorporate six graduate-level credits into your schedule that will count towards both degrees during your last semester.

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Colorado's Premier Engineering and Applied Science University

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