



2020-21

COLORADO SCHOOL OF MINES

Mines has the **highest admissions standards of any public university in Colorado** and among the highest of any public university in the nation.

Students and faculty are **advancing the frontiers of knowledge** in areas such as mineral exploration and subsurface characterization; renewable energy sources and technology; advanced water treatment; robotics and high-performance computing. The Mines curriculum is broad and rigorous, with an emphasis on hands-on experiences and interdisciplinary collaboration.

Mines students graduate with a strong sense of **integrity and resilience** and have **confidence** to tackle new problems. Mines graduates succeed in **collaborative environments** and have an enhanced sense of responsibility to **promote positive change** in the world while taking pride in their Mines degree.

Home of the Mines campus since 1874, the picturesque city of Golden offers access to **Colorado's famous outdoor adventures**, as well as to the many attractions of nearby Denver.







UNDERGRADUATE PROGRAMS

Applied Mathematics and Statistics Biochemistry Chemical Engineering Chemistry **Civil Engineering Computer Science** Economics **Electrical Engineering** Engineering **Engineering Physics** Environmental Engineering Geology and Geological Engineering Geophysical Engineering Mechanical Engineering Metallurgical and Materials Engineering Mining Engineering Petroleum Engineering

GRADUATE PROGRAMS

Advanced Energy Systems

Advanced Manufacturing

Applied Mathematics and Statistics

Chemical and Biological Engineering

Chemistry

Civil and Environmental Engineering

Computer Science

Data Science

Earth Resources Development Engineering

Electrical Engineering

Engineering and Technology Management

Environmental Engineering Science

Environmental Geochemistry

Environmental Modeling

FEA Professional

Geochemistry

Geology and Geological Engineering

Geophysics and Geophysical Engineering

GIS and Geoinformatics

Humanitarian Engineering and Science

Hydrologic Science and Engineering

Materials Science

Mechanical Engineering

Metallurgical and Materials Engineering

Mineral and Energy Economics

Mining Engineering

Natural Resources and Energy Policy

Nuclear Science and Engineering

Operations Research with Engineering

Petroleum Engineering

Petroleum Geophysics

Petroleum Reservoir Systems

Physics and Applied Physics

Quantitative Biosciences and Engineering

Quantum Engineering

Resource Commodity Analytics

Robotics

Space Resources

Underground Construction and Tunnel Engineering



MINES ADMISSIONS

More than 11,000 students apply each year for one of the approximately 1,200 firstyear seats and 200 transfer seats. Mines' entering class score averages include:

- 3.75-4.0 middle 50% unweighted GPA
- 1330-1470 middle 50% SAT composite
- 29-33 middle 50% ACT composite

For more information, call **303-384-2027**, visit **mines.edu/undergraduate-admissions** or email **admissions@mines.edu**.

Mines welcomes graduates from four-year baccalaureate programs at recognized colleges and universities worldwide. Admission to graduate school is competitive and is based on an evaluation of academic performance, test scores, references and/or professional experience.

For more information, call **303-273-3247**, visit **mines.edu/graduate-admissions** or email **grad-admissions@mines.edu**.



TRADITIONS

M Climb Each fall, incoming firstyear students carry a 10-pound rock from campus to the M on Mt. Zion in Golden and coat the symbol with fresh whitewash. When students get ready to graduate, they are invited to retrieve their rock as a keepsake from their time at Mines.

E-Days For three days each spring, students put their studies aside and celebrate Engineering Days. Highlights include the traditional (and legendary) fireworks show, live entertainment, engineering-themed games and a cardboard boat race down Clear Creek.









BY THE NUMBERS

#1 Mines has the largest collegiate section of the Society of Women Engineers in the U.S.

6 Rocky Mountain Athletic Conference All-Sports Competition Cup championships

18 intercollegiate athletics teams at Mines

95%, 96%, 99% of 2019-2020 bachelor's, master's and PhD graduates had positive outcomes within six months of graduation

200+ student organizations on campus

6,522 degree-seeking undergraduate and graduate students

\$70.4 million was raised by Mines in fiscal year 2020

\$78 million in total research awards in fiscal year 2020

\$285 million was invested in the Mines endowment as of June 2020

MINES IS RANKED

#1 mineral and mining engineering college by QS World University Rankings

#2 public college with the highest return on investment by *Money Magazine*

#4 best engineering college in the United States by *Money Magazine*

#4 among America's brainiest colleges by *Lumosity*

#8 among best value colleges in America (#1 in Colorado) by *SmartAsset*

#12 on the list of top 25 universities, as evaluated by alumni, by *Forbes*. Mines sits at five spots above Stanford University.

#19 overall return on investment among 4,500 two- and four-year public and private institutions 30 and 40 years out by *Georgetown University Center on Education and the Workforce*







RESEARCH

Mines faculty and students (both graduate and undergraduate) explore new frontiers in a diverse research portfolio. Topics include conventional and unconventional oil and gas research, groundwater contaminants, human-device interactions, algal biofuels, underground construction and computational modeling, to name a few.

In the fiscal year 2020, research awards totaled \$78 million.

For more information, visit **research.mines.edu**.



UNDERGRADUATE EXPENSES

Resident

Non-resident

Tuition Fees \$16,650 \$2,450 \$37,350 \$2,450

*Above figures represent a full year's tuition and fees

FINANCIAL AID

Typically, more than 82 percent of the student body receives some form of financial aid. Mines' financial assistance program awards more than \$60 million per year, including:

- \$41.4 million in federal, state and institutional grants and scholarships
- \$2 million in work-study funds
- \$13 million utilized in student loans
- \$3.6 million in outside loans

Graduate students are encouraged to apply for financial support through their academic departments. Awards consist of teaching and research assistantships. Additional financial aid and student loans are available through the Financial Aid Office.

For more information, visit: **finaid.mines.edu** or call **303-273-3301**.









MINES CAREER CENTER

With world-class teaching staff, stateof-the-art facilities and strong industry partnerships, Mines provides the ideal environment for training exceptional graduates in the STEM fields. The Mines Career Center provides support by creating opportunities for students and recruiters to connect—through career fairs, workshops, information sessions and on-campus interviews.

2,600 total interviews conducted by 175 companies

800 organizations posted 4,582 jobs in DiggerNet

123 employer information sessions

Average starting salaries:

\$73,322 Bachelor's

\$85,542 Master's

\$92,328 PhD

For more information, visit: careers.mines.edu or call **303-273-3233.**



MINES MUSEUM OF EARTH SCIENCE

Founded in 1874, the Mines Museum of Earth Science is a popular attraction for those interested in Earth science.

The museum features two floors of minerals, fossils, gemstones, meteorites and historic mining artifacts. Serving as the state repository of Colorado's mining heritage, the museum encourages scientific curiosity through education and outreach while inspiring appreciation of the Earth and responsibility for its natural resources.



The main floor features an extensive collection of Colorado minerals, as well as rotating exhibits. The lower level features exhibits on fossils, gemstones, meteorites, fluorescent minerals and underground mining illumination. Be sure to check out the two Goodwill moon rocks, collected during the Apollo 17 and Apollo 15 missions!

For more information, visit **mines.edu/museum**, email **geomuseum@mines.edu** or call **303-273-3815**.

THE MINES FOUNDATION

The Mines Foundation advances the university's mission by raising and managing funds and by fostering engagement with Mines alumni and friends. The Alumni Office offers lifelong opportunities for alumni to show their Oredigger pride by staying active with the university and connecting with each other, wherever they live.

In 2024, Mines will celebrate its 150th anniversary. The Campaign for MINES@150 provides opportunities to invest in producing distinctive and highly valued graduates who are needed to solve society's greatest challenges for the next 150 years.

The Foundation is a tax-exempt organization that supports fundraising on a large and small scale, from estate gifts to the university's crowdfunding platform and #idigmines Giving Day, Mines' annual day of giving every February. The Foundation advances the university by receiving and stewarding these vital donations and helping alumni and friends make tax-favored gifts of any size.

A voluntary Board of Governors oversees the Foundation and the management of the university's almost \$300 million endowment.

For more information, visit **weare.mines.edu** or call **303-273-3275**.





















EXTENDED AND CONTINUING EDUCATION

Through Continuing and Professional Education Services (CPES), Mines provides opportunities for professionals to augment and update their knowledge and technical skills in the areas of earth, energy and the environment.

Courses deliver specialized instruction and are offered by individuals or select groups of highly trained professionals. CPES is a leading provider of science, technology, engineering and mathematics education for Colorado teachers, as well as specialized camps for students in kindergarten through 12th grade.

For more information, visit csmspace.com, call 303-384-2690 or email learn@mines.edu.





FEBRUARY #idigmines Giving Day Spring Career Day

> APRIL E-Days

MAY Spring Commencement

AUGUST Fall Kickoff M Climb Celebration of Mines

> SEPTEMBER Fall Career Day

OCTOBER Homecoming Family Weekend

DECEMBER Midyear Commencement

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Caller .

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