EXPECTEDS OF Incoming STUDENTS

Applicants must meet the minimum SD Mines graduate education requirements. In addition, they will be evaluated against the following criteria:

- A baccalaureate degree in mechanical engineering or a closely-related field;
- An undergraduate grade point average of 3.0 or greater;
- Scores on the GRE;
- And, for those applicants whose native language is not English, their TOEFL score.

GRADUATION REQUIREMENTS

Students entering the program must submit a program of study and choose a major professor by mid-term of the second semester. Students pursuing the research-focused thesis option will also be required to form a graduate committee to guide and evaluate their research.

Graduation with an ME M.S. requires 30 credit hours beyond the B.S. degree. For more information, visit sdsmt.edu/GraduateEducation.

ABOUT RAPID CITY

South Dakota’s second-largest city (pop. over 70,000) offers a quality of life you will love, with restaurants, entertainment outlets and shopping in Historic Downtown. Just 20 minutes from Mount Rushmore and the Black Hills, Rapid City is a perfect location for students interested in enjoying the outdoors.

ABOUT THE BLACK HILLS

The name “Black Hills” is a translation of the Lakota Pahá Sápa or “hills that are black.” One of the most historic and beautiful places in the country, the million-plus acre Black Hills National Forest and surrounding area feature Mount Rushmore, Crazy Horse Memorial, caves, canyons, wildlife, and other natural attractions. You can enjoy snowboarding, hiking, rock climbing, kayaking, mountain biking, fishing and more.

CONTACT

605.394.2401
Mechanical.Engineering@sdsmt.edu

APPLICATIONS

graded.sdsmt.edu

GRADUATE RESEARCH ASSISTANTSHIPS

Funding opportunities, in the form of both teaching and research assistantships, are available for exceptional students.
The faculty members in the Department of Mechanical Engineering at SD Mines are dedicated to providing the highest quality academic guidance. Below are current ME faculty members associated with the M.S. program:

Dr. Pierre Larochelle
experimental/theoretical robotics
Department Head

Dr. Duane Abata
thermosciences, energy storage, combustion

Dr. Jason Ash
experimental solid mechanics

Dr. Nickolaus Bruno
mechanics/thermodynamics of shape memory alloys

Dr. Cassandra Birrenkott
solid mechanics of polymers

Dr. Prasoon Diwakar
plasma physics and aerosol measurements

Dr. Hadi Fekrmandi
mechatronics and robotics

Dr. Aaron Lalley
advanced manufacturing and VMC machining

Dr. Micah Lande
design education, design thinking, engineering education

Dr. Bamdad Lessani
computational fluid dynamics and turbulence modeling

Dr. Peter McKeon
structural health monitoring

Dr. Karim Muci
experimental/numerical solid mechanics

Dr. Albert Romkes
numerical solid mechanics and finite element methods

Dr. Khosro Shahbazi
computational fluid dynamics and compressible/two-phase flows

Dr. Andrea Surovek
solid/structural mechanics and biomimicry

Dr. Albert Rederth
magnetic quantum physics

Why choose the Department of Mechanical Engineering’s M.S. program at SD Mines?

I chose to pursue my master’s degree after working in industry for 4 years. SD Mines provided a great undergraduate experience where I gained a deep understanding of many of the fundamentals. I chose to continue my education at the same institution with the expectation that the master’s program would offer a deeper dive.

Matthew Bunge, ME M.S. student

Continuing my education at SD Mines was an easy choice for me. Through the accelerated master’s program, I was able to take 12 credits of graduate-level work as a senior; this is an excellent program as it allows for undergraduates to get a feel for upper-level classes and develop a feel for what is involved in obtaining a master’s degree while simultaneously earning credit for both the B.S. and M.S. degrees. Because of this opportunity, I have significant flexibility with my class, research, and workloads as I transition into the M.S. program full-time.

Daniel Box, ME M.S. student

What career paths have opened up for you due to your MS studies?

Completing the master’s degree will open more technically advanced positions within my company. It leads to an instant promotion and will help guide my career down the path that I find most interesting.

Matthew Bunge, ME M.S. student