

SOUTH DAKOTA

**M**

SCHOOL OF MINES  
& TECHNOLOGY

**Viewbook**

2011-12

**EDUCATING  
AND PREPARING  
LEADERS  
IN ENGINEERING  
AND SCIENCE**



# Majors

## B.S.

- Chemical Engineering
- Chemistry
- Civil Engineering
- Computer Engineering
- Computer Science
- Electrical Engineering
- Environmental Engineering
- Geological Engineering
- Geology
- Industrial Engineering and Engineering Management
- Interdisciplinary Sciences
  - Atmospheric Sciences
  - Pre-Professional Health Sciences
  - Science, Technology, and Society
- Mathematics (Applied and Computational)
- Mechanical Engineering
- Metallurgical Engineering
- Mining Engineering
- Physics

## M.S.

- Atmospheric Sciences
- Biomedical Engineering
- Chemical Engineering
- Civil Engineering
- Construction Management
- Electrical Engineering
- Engineering Management
- Geology and Geological Engineering
- Materials Engineering and Science
- Mechanical Engineering
- Paleontology
- Physics
- Robotics and Intelligent Autonomous Systems

## Ph.D.

- Atmospheric and Environmental Sciences
- Biomedical Engineering
- Chemical and Biological Engineering
- Geology and Geological Engineering
- Materials Engineering and Science
- Mechanical Engineering
- Nanoscience and Nanoengineering

**\$56,751: AVERAGE STARTING SALARY**

**97% AVERAGE PLACEMENT RATE STUDENTS WHO DO CO-OPS OR INTERNSHIPS: 75%**

**\$35,000,000 IN RESEARCH FUNDING**

OPPORTUNITY TO PARTICIPATE IN UNDERGRADUATE RESEARCH:

**UNLIMITED**

DISTANCE TO LABORATORY: 45 MILES **NUMBER OF 13 RESEARCH CENTERS:**

**# OF TEAMS IN AWARD WINNING CAMP 12**

**TOTAL RESIDENT STUDENT COST: \$16,480**

**TOTAL INCLUDES TUITION/FEES, ROOM/BOARD, BOOKS/SUPPLIES, AND TABLET PC**

**NON-RESIDENT STUDENT COST: \$18,190**

**ONE OF AMERICA'S**

**100 BEST COLLEGE BUYS**

SOUTH DAKOTA

**FOR 14 YEARS**

**M >>>>**

**SCHOOL OF MINES & TECHNOLOGY**

# Quick Facts

**Location:** Rapid City, South Dakota  
(at the foot of the beautiful Black Hills)

**Rapid City population:** 67,000

#1 Town for Sportsmen according to  
*Outdoor Life Magazine*

Year-Round Recreation

Average January Temperature of 22° F

Average July Temperature of 72° F

**Days of Sun:** 111 (More than Honolulu or Miami)

**Enrollment:** 2,354 Students

**President:** Robert A. Wharton, Ph.D.

**Bachelor of Science Degrees:**

10 Engineering

6 Science

**Athletics:**

Accepted into NCAA Division II candidacy

**Mascot:** Grubby A. Miner

**Placement:** 97% overall

**Average Starting Graduates Salary:** \$56,751



# Getting From Here to There

The Rapid City Regional Airport serves as a vital transportation hub for the region, with direct flights to Chicago, Dallas/Ft. Worth, Denver, Las Vegas, Minneapolis/St. Paul, Phoenix/Mesa and Salt Lake City.



## Planning Your Visit

Rapid City and the Black Hills region offers visitors a virtually endless variety of adventures, attractions and activities. When planning your visit to the South Dakota School of Mines and Technology, consider rounding out your experience by taking some extra time to explore the abundant beauty, fine dining and historical attractions that make the Black Hills a unique destination.

## Helpful Links

[www.rapidcitychamber.com](http://www.rapidcitychamber.com)  
[www.travelsd.com](http://www.travelsd.com)  
[www.blackhillsbadlands.com](http://www.blackhillsbadlands.com)  
[www.blackhillstouristinfo.com](http://www.blackhillstouristinfo.com)



Schedule a personalized campus visit and see how the South Dakota School of Mines and Technology can help you invent tomorrow!

Available five days a week

Starting at 9:30 a.m. and 1:30 p.m.

Meet with an admissions counselor

Tour campus with a student ambassador

Visit with faculty

Meet with a coach or co-curricular advisor

Sit in on a class

Attend an athletic event

## Go To Mines Open House

October 29, 2011  
April 28, 2012  
July 28, 2012

Register online at  
[www.GoToMines.com/visit](http://www.GoToMines.com/visit)

# Leadership and Professional Development



## Internship and Co-op Experience

75% of last year's School of Mines graduates had relevant work experience through summer internships, co-ops, or other jobs, which increased their marketability to employers. Salaries for Co-op and internships averaged \$16.69 per hour.



## NASA Internship

"I like to work on things, whether it is motorcycles, pickups, cars, farm equipment, etc. Now that I am studying to be a mechanical engineer, I am able to take my understanding of mechanics and extend it even further. I am now learning to understand the materials analysis, the 3-D modeling, the heat and fluid flows, as well as the in-depth technical basis and design that makes up these mechanisms. The problem solving that I get to do as a Mechanical Engineer is what I think is the most fun.

— Travis Davis

Mechanical Engineering  
Camp Crook, South Dakota

## CAMP (Center for Advanced Manufacturing and Production)

<http://camp.sdsmt.edu>



CAMP offers students a unique opportunity to participate in a student-centered, hands-on, engineering program. A key part of this experience involves designing, building, testing, and competing in a variety of engineering challenges.

### Teams

- Aero Design
- Alternative Fuel Vehicle
- ChemE Car
- Concrete Canoe
- Gaming Development Team
- Ham Club
- Human Powered Vehicle
- Robotics
- Steel Bridge
- Supermileage SAE
- Unmanned Aerial Vehicle



## STEPS (Students Emerging as Professionals)

<http://steps.sdsmt.edu>



- Employers have identified specific characteristics they seek in graduates they hire.
- STEPS is designed to utilize new and current programs that enhance professional characteristics.
- STEPS offers opportunities both inside and outside of the classroom to develop these characteristics more fully.
- STEPS develops professional characteristics for students.

South Dakota School of Mines and Technology



# Fitting In

## Make Yourself at Home

<http://reslife.sdsmt.edu>

On-campus living at the South Dakota School of Mines and Technology puts you at the center of the collegiate experience. ResLife is dedicated to providing responsible community living, learning, and leading. We offer safe and modern living environments for on-campus students; promote academic success; and share the responsibility with residents for developing trusting communities. Most of all, we put you FIRST as residents and students.



## Get Involved

<http://studentlife.sdsmt.edu/activities>

You can get involved in a variety of student-run clubs and organizations as your time and interests allow.



- Academic Organizations
- Athletic Organizations
- CAMP (Center for Advanced Manufacturing and Production)
- Community Service Organizations
- Greek Organizations
- Honor Societies
- Intramural Sports
- Military Science
- Multicultural Organizations
- Religious Organizations
- Special Interest Organizations
- Student Government Organizations
- Student Media



“The South Dakota School of Mines and Technology is a hotspot for students seeking to be the leaders in the future of engineering and science. The opportunities the university offers for academic, leadership, and personal development allow our students to become well-rounded professionals with a reputation for excellence. I enjoy every second of my time at Mines, and hope that together we will make our mark in society.”

— Carlos Beatty Jr., Student Association President 2011-12  
Industrial Engineering and Engineering Management  
Box Elder, South Dakota



# Home of the HARDROCKERS

<http://athletics.sdsmt.edu>



## Hardrocker Quick Facts

- Hardrocker athletics is in its Year II candidacy of a three-year process to become a member of NCAA Div. II.
- 21 Hardrocker athletes were named to their respective All-Conference teams during the 2010-11 school year.
- During the 2010-11 academic year:
  - 21 Hardrocker athletes were named to their respective all-conference teams
  - Two student-athletes earned athletic All-American honors
  - 20 junior and senior student athletes earned All American Scholar Athlete honors by maintaining a 3.0 GPA --- the women's basketball, golf, cross country, indoor track, outdoor track and volleyball squads all met the qualifications.



## Men Hardrockers

Basketball  
Cross Country  
Football  
Golf  
Track

## Lady Hardrockers

Basketball  
Cross Country  
Golf  
Track  
Volleyball

## Facilities

The King Center houses Goodell Gymnasium (seats 2,300) where the Hardrockers basketball and volleyball teams compete while Dunham Field at O'Harra Stadium (seats 6,000) is one of the nicest and most unique stadiums in the nation (drive-in parking) where football and track and field compete.





“Basketball has given me an opportunity to stay competitive and compete on a national level, but the competitive side of basketball has carried over into my studies and has allowed me to prepare for medical school. My coaches, instructors, professors, the Hardrock Club, and administration have provided me with the support and confidence to successfully go after my athletic and career goals.”

— Nate Jacobson  
Interdisciplinary Sciences (Pre-professional Health Sciences)  
Rapid City, South Dakota



“As a member of the women’s basketball team, I recognize the importance of being involved in extracurricular activities in order to be a well-rounded student. At Mines, not only are you offered a top education, there are so many other opportunities you can take advantage of as well.”

— Hillary Hawkins  
Chemical Engineering  
Elizabeth, Colorado



“Being a student-athlete at the South Dakota School of Mines & Technology is a unique experience. Being on a team full of engineers who take the same classes as me gives me extra help outside of the classroom, especially since my teammates are already my closest friends. I transferred from a major state university, and the transfer itself went really smooth. Going to the School of Mines means being a part of a community that is competitive, challenging, and most of all friendly.”

— James Dean  
Civil and Environmental Engineering  
Las Vegas, Nevada

# Get Started

## How to Become a Hardrocker

<http://www.gotomines.com/admissions/apply>

1. Complete your application online
2. Pay the \$20 application fee
3. Submit your official high school transcripts and ACT/SAT scores



## Attendance Costs

### Tuition and Fees\*

Resident	\$8,820
Non-Resident	\$10,530
Minnesota Resident	\$9,790
Books and Supplies**	\$1,960
Room and Board***	\$5,700

### Total cost of Attendance

Resident	\$16,480
Non-Resident	\$18,190
Minnesota Resident	\$17,450

\*Total cost per academic year, 15 credits per semester

\*\*Includes Tablet PC program

\*\*\*Rates based on average room and board costs

## Application Dates and Deadlines

To be considered for scholarships you must be accepted by **February 1** of the year you plan to attend.

You may submit your FAFSA any time after **January 1** prior to fall semester of attendance.

**FAFSA code — 003470**



# Get Ahead



## Career Fairs

151 employers from 27 states participated in our Fall 2010 and Spring 2011 Career Fairs.

## On-Campus Interviews

Employers conducted more than 900 interviews on campus this past year to recruit our students for full-time, internship, and co-op positions.

## Employers that hired our 2009-10 graduates include:

Archer Daniels Midland, Black Hills Nanosystems, Cargill, Caterpillar, Dow Corning, Honda R&D, Kiewit, KL Energy, Northrop Grumman, Nucor Corporation, Rockwell Collins, RPM & Associates, Toshiba, U.S. Army Corps of Engineers, West Plains Engineering and many more.

## Placement

97% of our 2009-10 graduates are working in their career field or pursuing advanced degrees in engineering, science, medicine, law, and other fields. Last year's graduates accepted job offers from more than 100 employers in 28 states — including Fortune 500 companies, regional employers, and government agencies.



## Average Salary Offer

Starting salary offers averaged \$56,751 overall for our 2009-10 graduates. (Bachelor degrees)

**Don't just take our word for it. See for yourself and schedule your campus visit today.**



## **Personalized Campus Visits**

Meet with an admissions counselor, visit with faculty and tour campus with a student ambassador.

## **Go To Mines Open House**

Get inside tips about the application process, explore campus and the residence halls, and learn more about the academic departments and the opportunities available.

See [www.GoToMines.com/visit](http://www.GoToMines.com/visit) for a complete list of campus visit offerings.

(605) 394-2414 or (877) 877-6044  
[admissions@sdsmt.edu](mailto:admissions@sdsmt.edu)



**FOUNDED 1885**

**DAYS OF SUN: 111 (MORE THAN HONOLULU OR MIAMI)**

**STUDENT TO FACULTY RATIO 13:1**



**ACADEMIC CALENDAR: SEMESTER SYSTEM**

**36 DEGREE PROGRAMS**

**FULL-TIME STUDENTS: 77.1%**

**Military Friendly School According to GI Jobs Magazine**

**87% OF STUDENTS ARE UNDERGRADUATES**

**AVERAGE ACT/SAT SCORES: 25.7/1173**

**AVERAGE HIGH SCHOOL GPA: 3.47**

**TOTAL ENROLLMENT: 2,354**

**WOMEN: 29% MEN: 71%**

**THE SCHOOL OF MINES WELCOMES STUDENTS FROM:**

**40 STATES AND 27 COUNTRIES**

ASIAN/PACIFIC: 11%  
AFRICAN AMERICAN: 5%  
HISPANIC/LATINO: 3.6%  
INTERNATIONAL: 6.3%  
EUROPEAN: 18.2% OTHER: 4.1%

**AMERICAN INDIAN: 3.2%**

**RAPID CITY POPULATION: 67,000**

**LOCATED AT THE FOOT OF THE BEAUTIFUL BLACK HILLS**

**#1 TOWN FOR SPORTSMEN ACCORDING TO OUTDOOR LIFE MAGAZINE**

**ACRE BACKYARD LABORATORY**

**YEAR-ROUND RECREATION**

**AVERAGE JANUARY TEMPERATURE OF 22° AVERAGE JULY TEMPERATURE OF 72°**





## More questions?

### Admissions:

(605) 394-2414 or toll free (877) 877-6044  
admissions@sdsmt.edu • <http://www.GoToMines.com>

### Financial Aid:

(605) 394-2274 or toll free (877) 877-6044  
FinancialAid@sdsmt.edu • <http://sdmines.sdsmt.edu/finaid>

