

NEED MORE INFORMATION?

If you are interested in the Mining & Minerals Engineering Undergraduate Program at Virginia Tech and would like further information on application materials and requirements, consult the following resources available online:

Virginia Tech Undergraduate Admissions
www.admiss.vt.edu

Mining & Minerals Engineering Undergraduate Program
www.mining.vt.edu/academics/undergraduate.html

Questions regarding the program not addressed by the above resources should be directed to the Mining & Minerals Engineering Department at

mineinfo@vt.edu



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Blacksburg, VA 24061
Phone: (540) 231-6671
Fax: (540) 231-4070



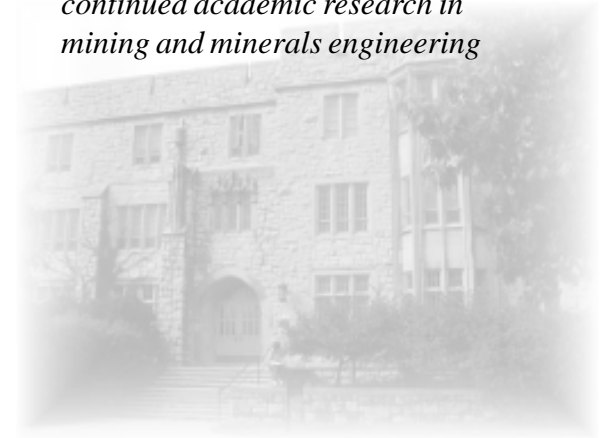
Email: mineinfo@vt.edu
www.mining.vt.edu

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Mining & Minerals Engineering Undergraduate Program

Producing high quality, rigorously trained mining and minerals engineers who are prepared to meet the challenges of a professional career or continued academic research in mining and minerals engineering



"With relatively small classes, our professors are able and always willing to answer questions and advise regarding academic, financial, and career oriented issues. Their open-door policy is supportive and welcoming. Amongst my peers, I have met some of my best friends and future coworkers."

—Emily Sarver, Class 2004

WHY MINING & MINERALS ENGINEERING?

Mining is one of the oldest industries in the history of human civilization, and, with each American requiring over 48,000 pounds of new minerals a year, it remains one of the most critical. Mining and minerals engineering is a challenging, progressive field that emphasizes state-of-the-art technology and sound environmental practices. It is also one of the most hands-on, outdoors-oriented fields among the engineering disciplines. Mining engineers work around the world in a variety of specialties such as environmental development, mineral economics, metallurgy, geological exploration, and facility engineering and design.



MINING & MINERALS ENGINEERING AT VIRGINIA TECH

The Mining & Minerals Engineering department at Virginia Tech was established in 1872, producing the first graduate from the College of Engineering. Since then, it has developed into the largest mining and minerals engineering program in the nation and graduates approximately 35 highly qualified engineers a year.

Our program features state-of-the-art equipment and a widely recognized faculty whose research accomplishments include pioneering work in 3-D and Real Time technologies, computer applications, rock mechanics, mine environment engineering, clean coal technology and mineral processing. The department is also home to two internationally recognized research centers, the only such centers in the country.

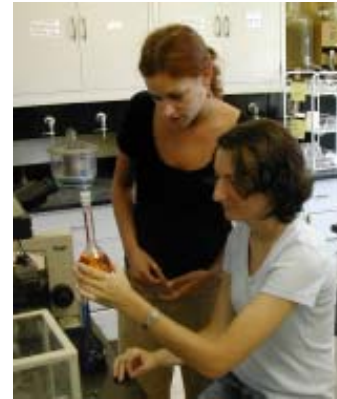
"One of the most appealing things about this line of work to me is that I won't be stuck behind a computer day in and day out. The day-to-day tasks vary widely and are much more hands on, yet still challenging."

—Eric Gavin, Class 2001

ACADEMIC PROGRAM

With a student-faculty ratio of 12 to 1, our students receive excellent counseling and individual mentorship. Students get to know the instructors, but more importantly, our instructors get to know the students.

The Mining & Minerals Engineering undergraduate curriculum exposes students to an extensive range of studies surrounding mining engineering, including exploration, evaluation, development, extraction, processing, and conservation. The program of study emphasizes progressive technical development while providing a sound basis in laboratory operations and procedures. In addition, students develop professional skills ranging from written and oral communication to principles of leadership and professional ethics. As a result, our students become experts in both traditional and innovative technologies. While many graduates pursue a career, the department equally prepares its students for challenging efforts in research, graduate and post-graduate work.



CAREER OPPORTUNITIES

At 100%, the Mining & Minerals Engineering program has the highest job placement rate at the university. In the last 10 years all of our graduating seniors have been offered



positions in top mining and mineral corporations where, as a rule, starting salaries are some of the highest among the engineering professions. In addition to these excellent post-graduation career opportunities, our students benefit from one of the strongest and most extensive summer job, co-op and internship programs in the field.

"I've loved to collect rocks since I was little, but I never thought I would end up with a career in them. I suppose it shouldn't be that surprising, but no one at home believes it. My mom still laughs and asks me if I'm sure I don't want to switch back to electrical or computer engineering. Not only have I found a major that I love, but I also joined the Cave Club and have generally become obsessed with any and all rocks."

—Kara Smith, Class 2006

STUDENT SUPPORT

Our department receives generous financial support from both alumni and industry. As a result, our students are afforded excellent financial support in the form of scholarships. On average, over sixty percent of our students qualify to receive funding or scholarships of up to \$3000 per year.

COMMUNITY

Our students are involved in high-profile community and industry-related activities. The Burkhart Mining Society, our student organization, has been recognized as one of the most active small organizations on campus. Mining students participate each year in the Intercollegiate Mining Competition—a challenging sporting event for mining engineers. Our newly formed Women In Mining chapter offers students a forum for social activities and community involvement. Furthermore, the department enjoys close relationships with numerous professional organizations and participates each year in conferences such as the Society for Mining, Metallurgy, and Exploration (SME) and the International Society of Explosives Engineers (ISEE).

"I have had the pleasure of working very closely with the mining engineering department at Virginia Tech. They are turning out a great product. This product comes through a tremendous effort on the part of the faculty and the mining industry. The school's commitment is giving these students the knowledge base they need to carry them forward. The commitment from industry comes through scholarships, apprenticeship programs, and job offers. Virginia Tech has had 100% placement of their students for many years. This speaks volumes about the quality of the students as well as industry's commitment. I know Virginia Tech first hand, as I am involved with their chapter. It is truly a pleasure to work with these students. They are courteous, interested, and committed to gaining everything the school has to offer."

—Tom Watts, President
International Society of Explosives Engineers (ISEE)