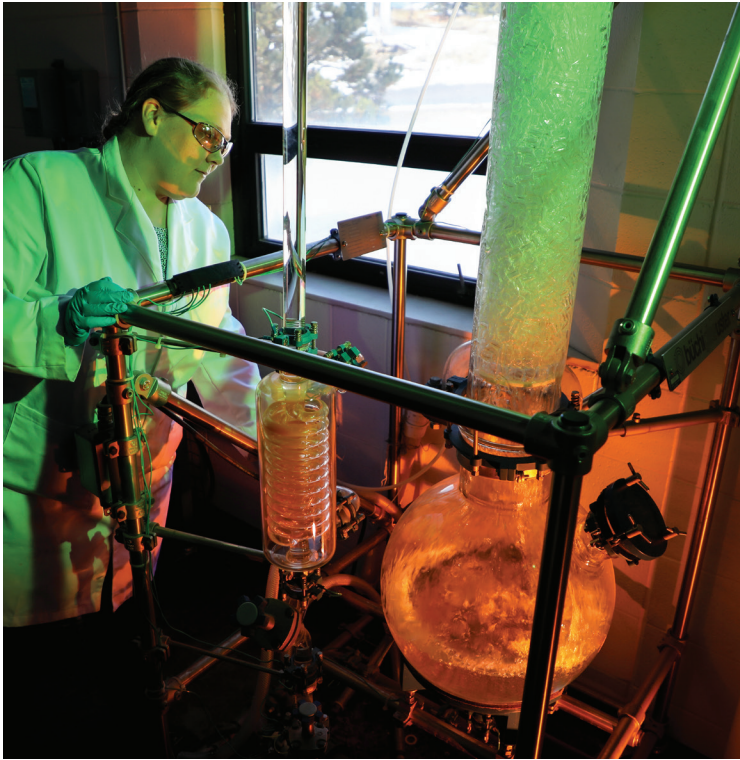


METALLURGICAL AND MATERIALS ENGINEERING, B.S.

A Comprehensive Hybrid Program



Montana Tech's ABET-accredited Metallurgical and Materials Engineering program integrates the full spectrum of mineral processing, extractive metallurgy, and materials engineering into a single unique and cohesive degree program. This powerful melded program prepares graduates to bridge the worlds of natural resource sustainability, manufacturing, and materials innovation. Our graduates are in high demand because they understand every link in the materials value chain and are able to translate that knowledge into practical solutions for industry and society.

APPLYING IS EASY AND FREE.

Montana residents can apply for free at applymontana.mus.edu.

Nonresidents can apply for free at mtech.edu/applynow.



APPLY HERE!

PLAN YOUR NEXT ADVENTURE.

We offer personalized campus visits most weekdays, including a meeting with a faculty member. We're confident you'll love visiting our campus, which overlooks historic Uptown Butte. To prove it, we're offering a complimentary one-night hotel stay to all visitors traveling 100 miles or more! Learn more about availability and schedule your visit at mtech.edu/visit.



LEARN MORE



MONTANA
TECHNOLOGICAL UNIVERSITY



Engineering
Accreditation
Commission

www.mtech.edu/metallurgical-materials-engineering

Contact: Dr. Jerry Downey | 406.496.4753 | jdowney@mtech.edu



A huge advantage of being here is that Montana Tech's programs are so hands-on. Something that is important to me is gaining hands-on experience with lots of this equipment.

- Xavier Voorhies B.S. Metallurgical and Materials Engineering, '20, M.S. Materials Science and Engineering, '22, Current Materials Science Ph.D. candidate

CAREER PATHS

Materials Engineering is a rapidly growing field, and our graduates rank among the most highly compensated engineers in the U.S. Career options include manufacturing, mining, renewable energy, aerospace, and electronics, among many other sectors. Graduates of the Metallurgical and Materials Engineering program consistently achieve a high placement rate and earn highly competitive starting salaries.



\$108,310
median annual salary
(BLS, 2024)

MONTANA
TECHNOLOGICAL UNIVERSITY
METALLURGICAL AND MATERIALS ENGINEERING

WHERE DO OUR GRADUATES GO?



**Montana
Resources**

RECSILICON

NUCOR®



**FREEPORT McMoRAN
COPPER & GOLD**



WHY STUDY METALLURGICAL AND MATERIALS ENGINEERING AT MONTANA TECH?

- Coursework on how to process ores; separate minerals; and produce, purify, and manufacture metal products
- Access to state-of-the-art research facilities that emphasize practical, industry-based exercises
- Opportunities to participate in sponsored research involving critical and strategic materials (REEs, tungsten, cobalt, germanium, and more)
- Projects that emphasize alloy design, failure analysis, and additive manufacturing
- Support for internships, independent student research, and professional networking
- One-on-one faculty mentorship and small-class engagement that link theory with practical application
- Preparation for in-demand and high-paying careers in sustainable development and utilization of natural resources, national defense, and the development of advanced materials



HANDS-ON LEARNING

Students learn and network through organizations such as the Society for the Advancement of Material and Process Engineering (SAMPE), Club Met, and the Blacksmithing Club. The Center for Advanced Materials Processing is housed on campus and provides extensive facilities for mechanical testing, thermal analysis, metallography, forensic analysis, and mineral processing.

The program culminates in a two-semester, three-credit Senior Design Capstone, which is a powerful integrative experience that reflects professional engineering practice. Students draw upon knowledge gained through their coursework and internships to develop solutions to real world, industry-sponsored challenges that bridge process engineering and materials design.