

MATERIALS SCIENCE ENGINEERING SUMMER CAMP



Scan for details!

Submit an application for a chance to experience the ASM Exploring Materials in Your World summer camp, courtesy of our industry partners' donations. ASM International is the world's largest association of materials-centric engineers and scientists.



UNDERGRADUATE DEGREES

B.S. IN CERAMIC ENGINEERING

Study how to design inorganic, nonmetallic materials and everything involved with this process. Gain hands-on experience in Missouri S&T's research laboratories.

B.S. IN METALLURGICAL ENGINEERING

Study fundamental concepts related to metallurgy, while focusing on a wide range of potential specializations, including chemical, extractive, manufacturing, physical and mechanical processes.

MINOR IN BIOMEDICAL ENGINEERING

Interested in health care? Include biomedical engineering as an additional focus area. Complete at least 15 hours of approved courses related to this field, including CER ENG 3110: Introduction to Biomedical Engineering.

GRADUATE DEGREES

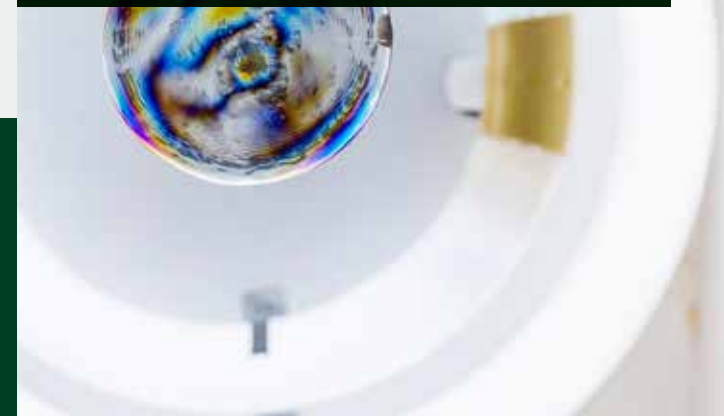
- M.S. and Ph.D. in Ceramic Engineering
- M.S. and Ph.D. in Metallurgical Engineering
- M.S. and Ph.D. in Materials Science and Engineering



Where art and science intersect

MISSOURI
S&T™

Materials Science
and Engineering
Department



Scan for details!

Schedule your visit to S&T!

Seeing our campus in person is one of the best ways to learn whether S&T is a good fit for you.

MISSOURI
S&T

MATERIALS SCIENCE
AND ENGINEERING
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Materials science engineers create new materials and make existing materials even better.

Our students can express their creativity while still applying scientific principles in our state-of-the-art classrooms and laboratories. We offer small class sizes and opportunities for students at all levels to be part of research projects that have worldwide implications. Materials science engineers develop materials that can benefit all engineering disciplines.



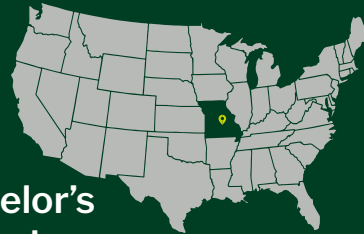
Several scholarships are available for our students!

BACHELOR OF SCIENCE

Ceramic Engineering

This program focuses on inorganic, nonmetallic materials. Our students truly make a material impact.

S&T is one of three universities in the nation to offer a bachelor's degree in ceramic engineering.



Career opportunities include jobs in the following engineering fields:

AEROSPACE — composite jet engine parts and leading edges for hypersonic flight

ENVIRONMENTAL — solar energy and fuel cells

ELECTRONICS — microprocessors, 5G transmitters and smartphone ceramic screens

BIOMEDICAL — prosthetics, joint replacements and bioactive glasses



S&T is one of only seven universities in the nation to offer a bachelor's degree in metallurgical engineering.



BACHELOR OF SCIENCE

Metallurgical Engineering

Metallurgical engineers help make products stronger, more durable, lighter weight and more energy efficient, especially when utilizing recycled materials.

Career opportunities include jobs in the following engineering fields:

AEROSPACE — stronger and lighter aerospace alloys

AUTOMOTIVE — safer and more efficient cars and trucks

ELECTRONICS — higher speed wireless communication

ENVIRONMENTAL — recycling of metals and reducing impact of metallic waste

HEAT TREATMENT — optimization of alloy properties to prevent overheating in turbine blades and spacecraft

MATERIALS RESEARCH AND DEVELOPMENT — national laboratories and research centers

METALS CASTING — heavy equipment and metals production

MINING — extraction and processing of metal ores

STEELMAKING — optimization of steelmaking process and development of new steel alloys