

Mechanical Engineering

Bachelor of Science

What is Mechanical Engineering?

Mechanical engineering is the study of objects or systems in motion. If you own any type of machine, odds are a mechanical engineer created it. In fact, nearly every product or service in our modern world has been affected by mechanical engineering, from the sensors in your car to the satellites in the sky.

With a degree in mechanical engineering from South Dakota Mines, you will be trained to determine the forces and environment that a product - and all of its components - will be exposed to. You will learn to design not only for functionality but durability and even appearance. You will be a designer, creator, developer, marketer, and much more.

What does a mechanical engineer do?

With a mechanical engineering degree from South Dakota Mines, you will design, develop, build, and test mechanical systems, ranging from individual components in small devices to large pieces of equipment on machines as large as NASA's next generation Space Launch System (SLS) rocket.

You will use your individual creativity, your training, and your ability to analyze systems to create and maintain the devices and machines found throughout society. As a mechanical engineer, you might:

- Design bionic limbs or prosthetic joints
- Develop high performance composite materials
- Develop custom medical devices
- And much more

Careers

Some careers might include:

- Robotic engineers
- Auto research engineers
- Project manager
- Support for military
- Product engineer
- Medical technology engineer
- Energy conversion, turbines
- Computers and electronics engineer
- Power systems engineer

For more information: <https://www.sdsmt.edu/Academics/Degrees/Mechanical-Engineering/>



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