

Mechanical Engineering

If it's a machine, a mechanical engineer designed it. This includes machines as simple as a bicycle or as complex as the latest military jet. Mechanical engineers often design things that aren't machines. Their work involves the design, manufacture and operation of a wide range of devices, components and systems – from the ordinary, such as packaging for products, to the amazing, such as artificial organs.

Mechanical Engineering Studies

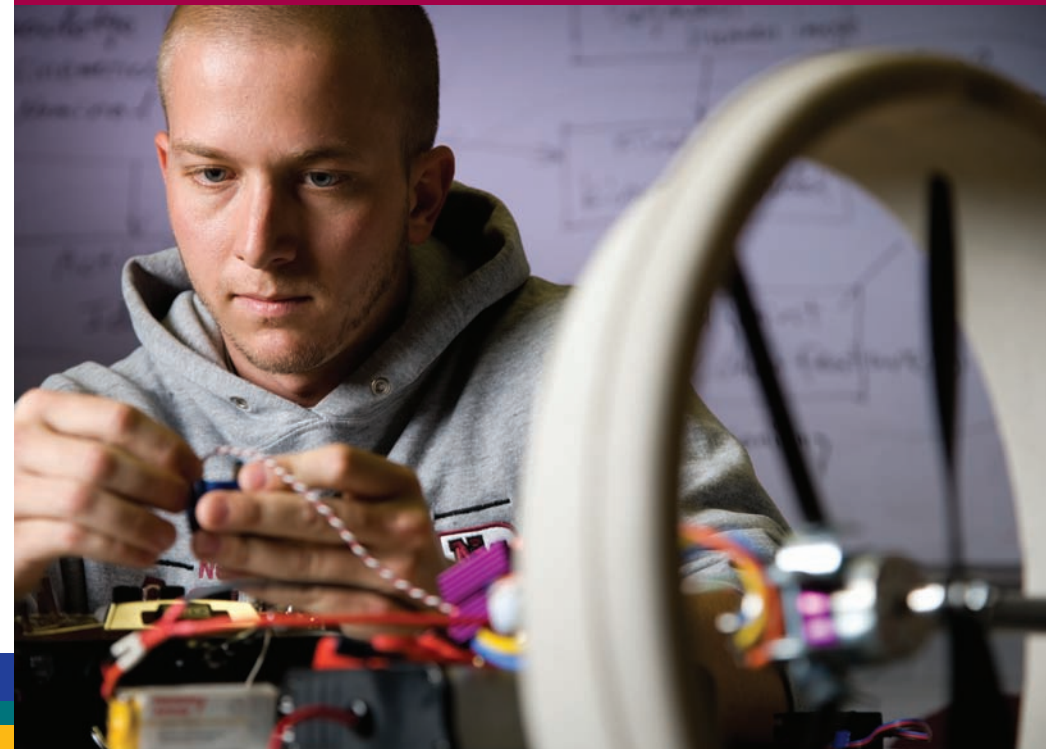
At NMSU, mechanical engineering students receive a thorough foundation in solid mechanics, thermal sciences, fluid mechanics, materials science, engineering analysis, engineering design, and the mathematical and computational methods engineers use to solve problems. Mechanical engineering students learn to use modern experimental and data analysis techniques. They develop skills pertinent to the design process, including the ability to formulate problems, think creatively, communicate effectively, synthesize information and work collaboratively. Through laboratory work, they gain experience in using state-of-the-art computational tools.

Research Highlight

Mechanical engineering research at NMSU includes projects in wildfire simulation, behavior of composite foam and other materials, robotics, biomechanics, fluid drag and vortex dynamics, structural vibrations and health monitoring, design optimization and validation of complex simulation models. These and other projects provide students the opportunity to work on cutting-edge technology.

DID YOU KNOW?

The mechanical engineering department at NMSU has been offering degrees for more than 100 years and awarded the first-ever engineering degree in the state of New Mexico.



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