

# Electrical and Computer Engineering

Electrical engineers make the world come alive. From the batteries that power your iPod® to the power plants that fuel our nation, electrical engineers are responsible for taking energy and making it useful. Their work also enables us to communicate via cell phone, satellite radio and wireless Internet. Computer engineers are involved with the design, construction and operation of all aspects of computer systems. Beyond your laptop or desktop computer, they put the digital touch in everything that makes up today's world, such as cars, cameras, medical equipment, video products – you name it.

## Electrical and Computer Engineering Studies

Electrical and computer engineering students at NMSU gain a breadth of knowledge across a range of topics in a hands-on intensive curriculum. The undergraduate program trains students to apply the fundamentals of mathematics and physics and the core areas of computer engineering, circuits and systems, electromagnetic and electronics to analyze problems and creatively design solutions. Electives are offered to provide an area of specialization, such as control systems, communications, computer architecture, digital design, electromagnetic, electronics, photonics, power, or signal processing. Students are well prepared to begin a career or continue their education in a graduate program.

## DID YOU KNOW?

The College of Engineering at NMSU was selected to be the first Telemetering Center of Excellence in the United States by the International Foundation for Telemetering. The center provides research opportunities in the study of advanced communications systems and technologies.

The Electric Utility Management Program provides an advanced education program for future engineering managers wishing to work in the electric utility industry. More than 230 students have graduated from the program, and seven have become CEOs of major electric utilities.

## Research Highlight

Dr. Jeanine Cook is investigating ways to model and predict the performance of computer chip designs with the goal of making them more productive and efficient. Cook received Presidential honors for research in computer architecture conducted in conjunction with Sandia National Laboratories.



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