

# Civil Engineering

Civil engineers create the public and private works structures of our world, including freeways, high-rise buildings, bridges, dams, roads, airports and water-treatment plants. They plan, design and supervise the construction of these facilities. Civil engineers will also design the world of tomorrow that could include habitats on other planets, plants that generate power from new sources and infrastructure for new modes of transportation.

## Civil Engineering Studies

At NMSU, civil engineering students can specialize in environmental, general civil, geotechnical, structural and water resources engineering. They will follow a course of study that encompasses engineering principals and analysis, mathematics and physical and social sciences. Coursework includes engineering physics, mechanics, hydraulic engineering, chemistry and environmental engineering, in addition to electives for the various civil engineering options. Because of extensive hands-on experiences in internships, co-ops and senior capstone design projects, civil engineering graduates are well prepared to be licensed, practicing professional engineers.

## Research Highlight

Some NMSU civil engineering students spend their summer inspecting more than 7,700 miles of roads in southern New Mexico for the New Mexico Department of Transportation. The results of their inspections are used to determine if maintenance or repairs are needed.

## DID YOU KNOW?

The civil engineering Bridge Inspection Program has re-searched techniques to solve technological problems with bridge systems for more than 35 years.

