

Industrial Engineering

Industrial engineers stand out among the engineering disciplines in that they deal with the human element. Their job is to figure out how to make production processes happen better, faster and safer. Your favorite DVD was on the store shelf for you to buy because an industrial engineer made sure the necessary materials, personnel and machinery were available to produce and deliver it. They analyze, design, and control production, service, and distribution systems. Drawing upon mathematical, physical and social sciences, they use the principles and methods of engineering analysis and design to specify, predict, and evaluate the end result from industrial systems.

Industrial Engineering Studies

The industrial engineering program prepares students for a wide variety of employment opportunities or for advanced education in fields such as engineering, law, medicine or business. Students in the program have plenty of opportunity for hands-on experience in laboratories and they are encouraged to take part in cooperative education and internships.

In addition to engineering principles and analysis, industrial engineering students study chemistry, industrial engineering, engineering physics, manufacturing processes, engineering operations, quality control, simulation modeling and facilities planning and design. This field of study develops skills not only in engineering, but also in math, science, business and the social sciences.

Research Highlight

NMSU industrial engineers are developing new methods of manufacturing using the latest technologies such as injection molding and 3-D prototyping. They study how people can manufacture parts efficiently and use environmentally safe materials and processes. This research is incorporated into the classroom where students learn by doing.

DID YOU KNOW?

The College of Engineering at New Mexico State University offers the only accredited industrial engineering degree program in New Mexico.

