

Engineers are the inventors and problem solvers of the world. More than twenty five major specialties are recognized in the field of engineering.

# How will *you* change the world?

## BIOMEDICAL ENGINEERS

conceive and design equipment, devices, and computer systems used in medical applications.

## MANUFACTURING ENGINEERS

develop, design and monitor equipment, tools, and machinery used in the manufacturing process.

## COMPUTER ENGINEERS

create computer hardware and software found in everything from automobiles, video games, medical equipment, cell phones, satellites, and other devices

## ELECTRICAL ENGINEERS

design electrical, electronic and computer systems for communications, energy, robotics, instrumentation, transportation, healthcare and many other industries.

## CIVIL ENGINEERS

design, build and supervise the construction of buildings, roads, bridges, canals, dams and other large-scale infrastructure projects.

## AEROSPACE ENGINEERS

conceptualize, design, develop and test aircraft, spacecraft and other aerospace systems which are used in aviation defense systems, and space exploration.

## CHEMICAL ENGINEERS

design and develop processes that involve the production of chemicals, fuel, drugs, food, and advanced materials.

## INDUSTRIAL ENGINEERS

optimize processes, systems, or organizations in order to determine the most effective ways to use the basic factors of production — people, machines, materials, information, and energy.

## ENVIRONMENTAL ENGINEERS

innovate solutions to environmental problems — water and air pollution, recycling, waste disposal, and public health issues.

## MECHANICAL ENGINEERS

create and develop mechanical systems that apply principles of force, energy and motion in machines and devices such as vehicles, engines, heaters and air conditioners, robots, recreational equipment and power plants.