Types of Engineers
Engineers Work in Every Aspect of Our Daily Lives

Aerospace Engineer: Designs and develops manned and unmanned aircraft, from passenger jets to spaceships. Also makes objects more aerodynamic, like race cars and even golf balls.


Civil Engineer: Studies, designs and evaluates large structures such as bridges, dams, roads, skyscrapers, and flood control systems. Plans, designs, and supervises major construction projects such as airports, water-treatment plants, and other public works projects.

Chemical Engineer: Works with raw materials and processes to produce valuable products, from lipstick to “green” fuels, from laundry detergent to medicines. Creates materials and designs complex chemical systems.

Computer Engineer: Works with all aspects of computing systems, from operating systems, networks, software, and hardware. Microchips are embedded into products ranging from toasters to telephones. Designs, develops and operates computers to solve scientific and engineering problems.

Electrical Engineer: Takes energy from turbines, fuel cells, hydroelectric plants or solar panels and efficiently channels it to homes, factories, and businesses. Or, they design components that move digital information from place to place for computers, cell phones, satellites, and television.

Industrial Engineer: Creates and runs systems essential to society, from manufacturing to services such as healthcare, finance, and retailing. Makes recommendations to improve efficiency in manufacturing processes.


Mechanical Engineer: Designs, builds, and maintains machines of all types and sizes, such as jumbo jets, automobiles, robotics, factory assembly lines, heating and cooling systems, medical devices, and more.

Nuclear Engineer: Designs plant equipment for the control and use of nuclear energy for electric power generation. Plans and supervises the development, installation and operation. Other nuclear applications are nuclear medicine, radiation therapy, and diagnostic imaging like x-ray and MRI.

Petroleum Engineer: Designs the equipment and methods of extracting petroleum and natural gas from deserts, oceans, and mountains. Works to ensure drilling is safe, economical, and environmentally friendly.

Everywhere you look, you will see examples of engineers having a positive effect on everyday life.