



Mechanical Engineer

Mechanical engineers design, build, and test mechanical devices, including robots. They generally work in an office environment with occasional forays into the manufacturing area or equipment worksite to troubleshoot equipment. A mechanical engineer will usually have at least a bachelor's degree and will usually have a graduate degree, which requires another two years.

Mechanical Engineering Technician

Mechanical engineering technicians assist in the development, manufacturing, and testing of mechanical devices, including robots. They generally work in a lab environment, coordinating with the engineer and the manufacturing facility. They test devices and record data to be analyzed by the engineer. Engineering technicians might suggest changes to improve the functionality or ease manufacturing processes. A mechanical engineering technician will have completed training at a vocational school or have an associate's degree from a college.

Electrical and Electronic Engineer

Electrical and electronic engineers design, build, evaluate, and improve electrical and electronic systems and control devices to control electrical power. In the robotics field, these engineers develop the sensors and control systems used with the robot. Electrical and electronics engineers will need a bachelor's degree and will usually have a graduate degree.

Electrical and Electronics Engineering Technician

With training from a vocational school or an associate's degree, electrical and electronics engineering technicians make parts and assemble prototype electrical control systems, calibrate instruments and sensors, observe any conditions that might affect control designs, and test control systems.

Industrial Engineer

Industrial engineers strive to make work more efficient by developing methods and processes to reduce waste. Industrial engineers are involved in using robotic equipment to improve production and service processes.

Robotics Engineer

A robotics engineer designs robotic systems for use in manufacturing plants or other purposes. While robots have been primarily used in manufacturing plants, their uses are beginning to spread to other fields. Robotics engineers will lead this transformation while also making their use in manufacturing more varied. One of the fastest-growing fields in robotics engineering is movable rescue and disarmament robots.

For additional information, check out the video located at this link:

<https://www.youtube.com/watch?v=umNfDhi0kB0>

Mechatronics Engineer

A mechatronics engineer combines mechanical engineering, electronics engineering, control systems, and computers to develop robotic equipment. Combining all of these technical fields into one allows for quicker, more integrated robotic systems. For more information, explore these links:

<http://www.engr.ncsu.edu/mechatronics/what-mech.php>

<http://www.spsu.edu/mechatronics/>

<https://www.youtube.com/watch?v=jQb9-xEDWK4>