



Mechatronics

Mechatronic engineers design and maintain machinery with electronic and computer control systems, such as aircraft, robots, motor vehicles, cameras, power generators and mining and chemical plant machinery. Workplaces range from laboratories and processing plants to engineering design offices.

Mechatronic engineers may perform the following tasks:

- Design, develop, maintain and manage high-technology engineering systems for the automation of industrial tasks;
- Apply mechatronic or automated solutions to the transfer of material, components or finished goods;
- Apply advanced electronic control systems, which are usually computer-driven;
- Design and assist in the manufacture of consumer products, such as cameras and video recorders;
- Apply electronic and mechanical processes and computers to tasks where the use of human labour may be dangerous (e.g. underwater exploration, mining or forestry);
- Carry out studies into the feasibility, cost implications and performance benefits of new mechatronic equipment.

Personal Requirements:

- Enjoy technical and engineering activities;
- Good communication skills;
- Able to work as part of a team;
- Able to think creatively and problem solve;
- Interested in mechanical equipment, such as robotic and production equipment, physics and mathematics.

Source: Job Guide 2011