

Mechatronics Technology



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In the manufacturing environment, downtime costs money. Keeping machinery up and running and anticipating and avoiding problems before they happen are the responsibility of people with skills in electrical systems, fluid power, electronics, computer controls, PLCs, instrumentation, robotics, and information technology. To keep education in line with the need for these critical skills, five Upstate technical and community colleges including GreenvilleTech have collaborated to offer training in the new, interdisciplinary field of mechatronics.

Mechatronics is high-tech problem solving, and it's a career that will take you away from the office and out onto the manufacturing floor, where every day is different. You'll work to see that the manufacturing process avoids expensive downtime. Your job is to detect and diagnose problems and correct them before they become major situations.

A mechatronics education pays off in both respect and salary. Since your skills are critical to the success of any manufacturing company, you can expect a starting salary that should average around \$38,500. As you continue to learn on the job, your value will increase, making this a strong career opportunity. And with the aging of the current workforce, many experienced technicians are retiring, so a new generation of qualified mechatronics professionals is needed to keep industry up and running.



Program Options

- **Mechatronics Technology Associate Degree**
- **Production Technology Associate I Certificate**
- **Production Technology Associate II Certificate**
- **Mechatronics I Certificate**
- **Mechatronics II Certificate**

Career Opportunities

- Job prospects are expected to be favorable for those with skills that cross the disciplines of control systems, electronic systems, computers and mechanical systems.
- Many people in this field are expected to retire in the coming years, and employers have reported difficulty in recruiting young workers with the necessary skills to fill these positions.
- Median hourly wage and salary earnings of industrial machinery mechanics were \$21.84 in May 2010. The middle 50 percent earned between \$17.56 and \$27.12. The lowest 10 percent earned less than \$14.37, and the highest 10 percent earned more than \$32.75.

What you'll learn

- integration of electrical systems, fluid power, electronics, computer controls, PLCs, instrumentation, robotics, and information technology
- placement and installation of new machinery
- how to detect and diagnose electrical, mechanical, and electronic control problems and correct them before they become major situations
- preventive/predictive maintenance, important in extending a machine's life and keeping machines in good working order
- how to inspect, diagnose, repair, service, and install electro-mechanical equipment, automated manufacturing, and packaging machinery
- knowledge and skills which will enhance your ability to perform duties as a technician in industrial and service organizations
- programmable logic controllers
- automated technology
- robotics
- pneumatics and hydraulics