Program Overview for Employers

The Automation Technologies-Robotics program for deaf and hard-of-hearing students at Rochester Institute of Technology (RIT) prepares students for careers in the applied robotics and automated assembly industries. Graduates of this program are highly trained and adept at building, maintaining and integrating robots into industrial automation systems that are used in the automotive, medical, consumer goods, packaging and electronics industries. They are well qualified and prepared for jobs such as automation technicians, process control specialists, quality control and industrial machine repair and maintenance technicians and control specialists.

Degrees Awarded

- Associate in Applied Science (AAS)
- Associate in Occupational Studies (AOS)

Cooperative Education (Co-op) Component Required

Students are required to complete one 10-week co-op block.

Equipment and Facilities

Students acquire their automation technology foundation in laboratories that provide hands-on skill development using state-of-the-art industrial equipment.

- **Robotics Lab**: Students learn to use custom pneumatic/hydraulic trainers, electro-mechanical devices, industrial robots and controllers, integrated automated systems, material handling conveyors, programmable logic controllers and safety equipment.

- **Self-Instruction/Computer Lab**: Students perform computer simulations and complete assignments independently using specialized software as well as Microsoft Word, Microsoft Excel, e-mail and the World Wide Web.

Student Skills and Capabilities – Preparation for a Career

After successful completion of program requirements, students have skills for working with a wide array of automated equipment and can work as technicians who install, troubleshoot, repair, upgrade and maintain automated systems and their components. Students train in a cross-disciplinary environment that includes the electrical/electronic, mechanical and computer technologies highly valued in industry today.

Selected Software and Hardware Used to Develop Technical Skills

- Adept Robots
- Assembly Automation Cells
- HMI (Human Machine Interface)
- PLC machine controllers
- RSLinx
- RSLogix500
- Visual Basic
- Windows, XP
- Word, Excel, PowerPoint

(continued)
Automation Technologies-Robotics

Selected Technical Courses Leading to an Associate Degree

Applied Robotics
Automated Systems I, II
Automated Systems Troubleshooting I, II
Electromechanical Devices
Electronics
Industrial Electronics
Mechanical Devices and Systems
Pneumatics and Hydraulics
Programmable Logic Controllers
Programming Concepts

The following employers or industries throughout the country have worked with Automation Technologies-Robotics students and graduates:

**Employers**
Advanced Micro Devices, Inc.
Electrolytic Technologies Corporation
Genesis Systems Group
G.W. Lisk
Honeywell
IBM
Intel
Kinder-Morgan
Kraft
Motoman
University of Alabama, Huntsville
Xerox

**Industries**
Aerospace
Automotive
Electronics
Manufacturing
Mechanical
Medical devices/Biotechnology
Packaging
Pharmaceuticals
Semiconductor

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RIT/NTID co-op students, graduates and alumni provide employers with highly trained, highly motivated employees with excellent skills. We appreciate your interest in our co-op students and graduates and will work with you through the recruiting process to help you hire the right employee. For your convenience, access further information and services on our website at www.rit.edu/ntid/coops/jobs/.