

Applied Computer Technology

www.rit.edu/ICS

www.rit.edu/ntid/coops/jobs

Program Overview for Employers

The **Applied Computer Technology (ACT)** program for deaf and hard-of-hearing students at Rochester Institute of Technology (RIT) prepares students for careers in the area of information technology.

Graduates are well qualified and prepared for jobs as computer technicians, computer support specialists, network technicians and network security specialists.

Degrees Awarded

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

Potential Job Candidates

Approximately 100 students currently are enrolled in this program.

Cooperative Education (Co-op) Component Required

Students get valuable workplace experience by completing one required 10-week co-op block.

Equipment and Facilities

ACT students study in six different computer labs:

- **Two Hardware Labs**
Students use both PCs and Macs. Computer components and diagnostic software are used for hands-on work as they develop skills in upgrading, repairing, troubleshooting and maintaining computers and computer peripherals.
- **Two Networking Labs**
Students learn to network and secure various platforms of client and server computer systems along with applying hardware/software diagnostic and security tools to develop hands-on networking skills.
- **Multimedia Lab**
In this lab, students receive instruction in a variety of different technologies, including Windows and Unix-based operating systems, Web development, introductory programming and data base applications. Students learn in a hands-on, highly interactive lab environment.

- **Self-Instruction Lab**

Students use this open lab to complete assignments independently and to access e-mail and browse the Web.

Student Skills and Capabilities – Preparation for a Career

Students acquire a strong foundation in computer hardware and operating systems, computer networking and security, and computer applications such as MS Office, database and Web development software and Windows and Unix-based operating systems. All students must take core courses in PC hardware and operating systems, networking and network security and basic Web development, as well as courses in introductory programming and database technology, regardless of the concentration they choose. In the second year of the program, students choose a concentration in one of the following areas:

- **Computer Technical Support**
This concentration requires students to take advanced courses in helpdesk support, digital technology integration and computer and data security as well as network administration. The concentration prepares students to work in a business environment repairing, upgrading and interfacing PCs and Macs as well as working with peripherals and networks. Students can study for and attain A+ certification.
- **Networking and Cyber Security**
This concentration requires students to take in-depth networking security, network administration and server administration courses focusing on setting up and securing corporate networks. Students can study for and attain A+, Net+ and Security+ certifications.

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Students also choose several electives from within Information and Computing Studies or other majors at RIT/NTID, including, but not limited to, programming languages, advanced Web development and certification studies.

Selected Software and Hardware Used to Develop Technical Skills

<i>Software</i>	<i>Operating System Software</i>	<i>Hardware</i>
C#	Linux, Unix	Cisco routers and switches
Data Recovery	MAC (current and past versions)	Macs
MS Office	Windows (current and past versions)	PCs

Selected Technical Courses Leading to an Associate Degree

Client-Server Networks	Intro to Database Applications	Network Defense Technologies
Computer & Data Security	Intro to PC Hardware	Networking Essentials
Digital Systems Integration	Intro to Programming	Non-Windows Operating Systems
Fund. of Systems Administration	Intro to Web Development	Server Management & Security
Help Desk Support	LAN/WAN Design	Windows Operating System

The following employers throughout the country have hired Applied Computer Technology students and graduates:

Adobe	Ohio Health Corporation	University of Massachusetts- Amherst
American School for the Deaf	Rhode Island School for the Deaf	U.S. Department of Homeland Security
Chicago Fire Soccer Club	Rochester School for the Deaf	ZVRS
Federal Emergency Management Agency	Social Security Administration	
Mediacom Communications Corporation	Sorenson Communications	

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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/.**