Architectural and Civil Drafting Technology

Associate in Applied Science Degree
rit.edu/ntid/study/architectural-and-civil-drafting-technology-aas
Associate in Occupational Studies Degree
rit.edu/study/architectural-and-civil-drafting-technology-aos

Program Overview for Employers

The Architectural and Civil Drafting Technology program at Rochester Institute of Technology prepares graduates to be well qualified for careers in the architectural, civil engineering and construction industries. **Graduates of this program are highly trained technicians who perform detailed technical work in support of architects and engineers. Builders and their associated contractors, facility managers, material suppliers and fabricators hire technicians from this program as well.**

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 experience.

Equipment and Facilities

Students learn in laboratories equipped with industry standard hardware and software linked to a large campus network. These laboratories are among the best-equipped technical college laboratories in the country, providing students with state-of-the-art learning experiences. High-tech, heavy-duty hardware includes i7-4790 @ 3.6GHz CPUs with 16 Gb RAM. Images are sent to Canon laser plotters, HP inkjet plotters and HP color laser printers. 3-D models are also created using an Epilog Laser Engraver and a Dimension 3-D Printer.

Student Skills and Capabilities – Preparation for a Career

Students acquire a background in Building Information Modeling (BIM); two-dimensional drafting; construction materials and methods; structural systems; mechanical, electrical and plumbing systems; sustainability; and the use of the Internet for communication of engineering documentation.

Selected Software Used to Develop Technical Skills

The program uses the current versions of career-specific software:

- Autodesk Revit
- Autodesk AutoCAD
- Adobe InDesign
- Adobe Photoshop
- Google SketchUp
- Microsoft Office

Architectural and Civil Drafting Technology (ACDT)

Selected Technical Courses Leading to an Associate Degree

- Advanced Construction CAD
- Civil Technology Graphics
- Computing Tools in Engineering Technology
- Construction CAD I, II, III
- Construction Materials and Methods I, II

- Data Collection and Analysis
- Engineering Graphics in AEC
- Energy Modeling for Sustainable Construction
- MEP Systems
- Presentation Graphics
- Principles of Structural Systems

The following employers throughout the country have hired Architectural and Civil Drafting Technology students and graduates:

- City of Rochester
- Cromwell Architects Engineers
- Gallaudet University
- Ingalls Shipbuilding
- Northeast Collaborative Architects

- NYS Department of Transportation
- Stellar Design Build
- Trieste Construction Corporation
- U.S. Bureau of Reclamation
- Will Architects

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. **Access further information and services on our website at rit.edu/ntid/nccc.**

If this is your organization's first time hiring a deaf or hard-of-hearing employee, please take the opportunity to consult with the NTID Co-op and Career Center for strategies on communicating with and fostering integration of a deaf or hard-of-hearing employee in your workplace:

Miranda Harms
Senior Employment Advisor
NTID Co-op and Career Center
52 Lomb Memorial Drive
Rochester, NY 14623-5604
585-475-6483 (voice)
mlhnce@rit.edu (email)

The National Technical Institute for the Deaf is the first and largest technological college in the world for deaf and hard-of-hearing students. RIT is internationally recognized for academic leadership in computing, engineering, imaging technology, sustainability, and fine and applied arts. RIT offers more than 200 career- oriented and professional programs, and its cooperative education program is one of the oldest and largest in the nation. Deaf and hard-of-hearing students come from all over the United States and around the world to take advantage of the opportunities available to them at RIT/NTID.

5/1/2023