There’s a future in manufacturing. Make it yours.

Advanced manufacturing is where the jobs are in the Upstate, with well-established companies expanding and new companies coming to the upstate area, making CNC programming and machining skills very valuable. There is an immediate need for these skilled employees in entry-level and more advanced positions in areas including CAD/CAM programming, CNC setup of machines and machine operators.

According to the Upstate SC Alliance, (upstatescalliance.com), almost 130,000 manufacturing jobs and nearly 2,000 manufacturing companies are found in the 10-county Upstate region of South Carolina. Established companies continue to expand, and new companies are coming to the region.

Greenville Technical College’s CNC (Computer Numerical Control) and Machine Tool Technology programs are helping to prepare a highly-skilled workforce to meet current and future needs of Upstate manufacturers. The college has made a significant investment in the advanced training required for many of these job opportunities with the opening of the newest GTC campus, the Center for Manufacturing Innovation (CMI). The CMI campus has CNC equipment of all types with multi-axis milling up to 5 axis, and mill turn lathes with C and Y axis and CNC Wire EDM and 3D printing and advanced metrology equipment.

Program Options

- Machine Tool Technology Associate Degree
- Computer Numerical Control (CNC) Program and Operations Associate Degree
- Basic Machine Operations Certificate
- CNC Machine Operator Certificate
What you will learn in CNC Programming and Operations

- Machine tool math, print reading, theory
- Manual CNC programming and operations theory
- CNC hands-on operations of manual and CNC equipment
- CAD/CAM programming using high end software
- Advanced programming and hands-on operations of 5 axis CNC mills, 4 axis CNC mills, mill/turn CNC lathes and 4 axis wire EDM

What you will learn in Machine Tool Technology

- Shaping metals with milling machines, engine lathes, surface grinders and drill presses
- Design and construct of precision tools
- Programming and basic operation of CNC machines using CAD/CAM software
- Hands-on operation on real projects

Program

Greenville Technical College is recognized by Upstate companies as the training source for skilled metalworking professionals. The college’s Machine Tool Technology program meets the academic and skill requirements of Upstate manufacturers such as Drive Automotive, Bosch Rexroth, GE and the National Tooling Association. The Machine Tool Technology associate degree program meets the academic requirements of the South Carolina Chapter of the National Tooling and Machining Association Apprentice Program.

Experiential Learning

GTC CNC/MTT students benefit from real-world experience through GTC’s Experiential Learning program. These co-ops, apprenticeships and Tech Scholar opportunities provide supervised on-the-job training, putting classroom skills to the test. Our business and industry partners benefit from a pipeline of skilled employees.

Advanced courses in Computer Numerical Control are taught at Greenville Technical College’s Center for Manufacturing Innovation, located on the Millennium Campus, adjacent to CU-ICAR at I-85 and Laurens Road. General education courses may be available at different GTC campus locations. Introductory Machine Tool and CNC courses are taught at the Barton Campus. For more information, go to CMIgreenville.com. Check for upcoming tours!