

## Community College Machining Programs in North Carolina's Eastern Region

Home to several robust and adaptive computer integrated machining programs, the Eastern Region and the NC Community Colleges are well positioned to meet any advanced machining need. Each college maintains its own diverse range of equipment and all 5 colleges offer an AAS Degree and a diploma in Computer Integrated Machining.

|                                     | Craven CC | Lenoir CC | Nash CC | Pitt CC | Wayne CC |
|-------------------------------------|-----------|-----------|---------|---------|----------|
| <b>Class Size</b>                   | 10        | INA       | INA     | 20      | 20       |
| <b>Enrollment</b>                   | 48        | 85        | INA     | 56      | 40       |
| <b>Capacity</b>                     | 60        | 75        | INA     | 40      | 60       |
| <b>AAS Degree</b>                   | •         | •         | •       | •       | •        |
| <b>Diploma</b>                      | •         | •         | •       | •       | •        |
| Certificates Offered                |           |           |         |         |          |
|                                     | Craven CC | Lenoir CC | Nash CC | Pitt CC | Wayne CC |
| <b>Basic Machining</b>              | •         | •         | •       | •       | •        |
| <b>Intermediate Machining</b>       | •         | •         | •       |         | •        |
| <b>CNC Operator</b>                 | •         |           | •       | •       | •        |
| <b>CNC Programmer</b>               | •         |           |         |         | •        |
| <b>CNC Multi-Axis</b>               | •         | •         |         |         |          |
| <b>Die Making</b>                   | •         |           |         |         |          |
| <b>Mold Making</b>                  | •         |           |         |         |          |
| <b>Metrology</b>                    | •         |           |         |         |          |
| <b>Machining Workforce Skills</b>   |           | •         |         |         |          |
| <b>Robotics Machining</b>           |           |           | •       |         |          |
| <b>Computer Aided Manufacturing</b> |           |           |         |         | •        |
| <b>Coordinate Measuring Machine</b> |           |           |         |         | •        |

INA – Information Not Available

## Community College Computer Aided Manufacturing Equipment

### Craven Community College

5 axis CNC Router, CMM, 5 Axis High Speed Machining Center 4 Computer numerical control mills (3 Axis), 4 Computer numerical control Lathes (3 -2axis, 1 – 4 axis), 2 injection Molding Machines, 1 Computer numerical EM Wire, 1 Computer numerical EDM Sinker, CNC Water Jet, CNC Punch Press, CNC Brake

### Nash Community College

2 Axis CNC, 4 Axis Fadal Machining Center, 5 Axis Haas UM3 Machining Center, Haas ST20, a Flexible Automated Haas Machining Center and Turning Center, and a CNC Plasma Table.

### Wayne Community College

General machines (manual lathes, mill, surface grinders, saws, etc.), 3 Vertical Machining Centers with 4 axis programming, 3 Turning Centers (one of which has live-tooling and sub-spindle), programmable CMM and rapid prototype 3D printer, 5-axis machining center and a water-jet

### Edgecombe Community College

5 axis Haas CNC mill, 2 axis Haas CNC lathe and 5 additional lathes

### Pitt Community College

5 axis CNC machining center, CNC turning machine, CNC milling machine, CNC brake, and several general machines, CNC Router, Phased Array Ultrasonic and Sheerwave Ultrasonic test equipment

### Lenoir Community College

4 Computer Numerical Control mills (4 Axis), 3 CNC Lathes (2 -2axis, 1 – 3 axis), 1 CNC Router, CNC Water Jet, CNC Punch Press, CNC Brake, general machines (manual lathes, mill, surface grinders, saws, etc.), 1-5 Axis Head Machine one of two in the state of North Carolina, reverse engineering camera, 3D Printer, and a mobile lab with two additional CNC machines for onsite training.

## Representative Companies

- AAR Corporation
- AP Exhaust
- ASMO
- Attends
- Cummins
- DSM
- Jack A Farrior Steel Works
- Kaba Ilco
- NACCO
- NC Manufacturing
- The Roberts Company
- Uchiyama America
- USN FRC East

The companies listed above, plus numerous machining facilities across the region, have benefited greatly from the world class programs provided by the eleven NC Community Colleges located in the region. The colleges offer, associate degrees, certificates and customized training programs to new and expanding companies.

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## NCER Machining Occupations

