

MCHEMRY COUNTY COLLEGE

ADVANCED MANUFACTURING

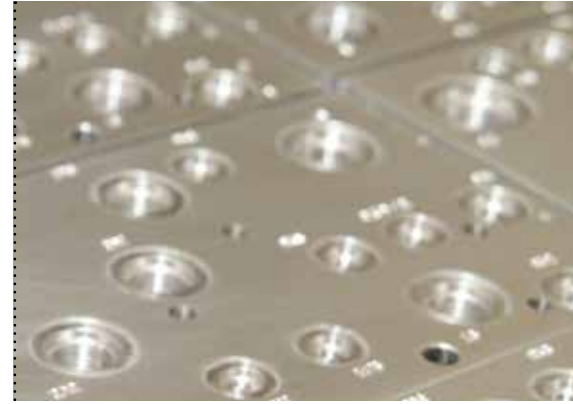
A PROGRAM IN CONJUNCTION WITH THE MCC FAST TRACK

The Fast Track at McHenry County College is a cohort-based program that helps give students the advantage they need when competing for jobs in today's workforce. Through the Fast Track, students can earn a certificate in two years or less and an associate's degree in three years, depending on the program.

McHenry County is one of the fastest-growing manufacturing sectors in the region, accounting for more than 25 percent of the county's earnings. Currently there is high demand for skilled manufacturing technicians both within McHenry County and across the country. Products manufactured here include medical/healthcare parts and equipment, cast iron products, industrial heaters, and heavy equipment parts. Many manufacturers use heavy-duty metal fabrication and forging. Manufacturing design and engineering technicians are an integral part of the product design process and development, and as companies increase their demand for more versatile workers, career opportunities will continue to grow in all areas of manufacturing technology.

CATEGORIES FOR THIS CAREER FIELD INCLUDE:

- **Computer Numerically Controlled (CNC) Machine Tool Programmers, Metal and Plastic** develop programs to control machining or processing of metal or plastic parts by automatic machine tools, equipment, or systems. Job titles include CNC programmer, process engineer, programmer, project engineer, software engineer, welding engineer, CAD/CAM programmer.
- **Computer-Controlled Machine Tool Operators, Metal and Plastic** operate computer-controlled machines or robots to perform one or more machine functions on metal or plastic work pieces. Job titles include CNC operator, machinist, lathe operator, mill operator and machine operator, CNC machinist, CNC set up technician, production worker, brake press operator, CNC set-up operator.



SALARY RANGE

\$30,000-\$55,300

JOB OUTLOOK*

Projected growth is 10–19%.
Projected job openings range by field. Top industry is manufacturing.

EMPLOYERS

Private firms, government, manufacturing, scientific and technical services companies.

**From the Bureau of Labor Statistics*

www.mchenry.edu/advancedmanufacturing

For more information, contact Bob Mihelich, AIA, NCARB
Chair of Applied Technology at (815) 455-8719
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To register, contact Lori Smyth, Fast Track Coordinator
at (815) 479-7831 or lsmyth@mchenry.edu


McHenry
County College

MCHENRY COUNTY COLLEGE

ADVANCED MANUFACTURING

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Advanced Manufacturing Certificate (33 total credit hours)

Course	Name	Credit Hours
<i>Program Core (33 credit hours)</i>		
AET 151	Computer Aided Design Graphics I	3
AET 152	Computer Aided Design Graphics II (Recom'd AET Elective)	3
AET 171	Parametric Modeling SolidWorks I	3
AET 299	MasterCAM I (Recom'd AET Elective)	3
IMT 100	Introduction to Manufacturing	3
IMT 102	Manufacturing Processes	3
IMT 103	Materials of Industry	3
IMT 104	Blueprint Reading for Manufacturing	3
IMT 105	Introduction to Machining and CNC	3
IMT 155	Advanced CNC	3
MAT 106	Technical Mathematics II	3

Note: Certificate and degree requirements per 2015–2016 MCC Catalog.