



Computer Integrated Machining & Manufacturing

Consortium industry partners have identified the skills needed for entry level machinists at their companies. The combination of hands-on learning, quality instruction, and practical experience prepare students for area in-demand careers.

Courses required:

CIMM 100	Introduction to Machining & Manufacturing	3 credits
CIMM 105	Introduction to Blueprint Reading	1 credit
CIMM 110/115	Manual Lathe OR Manual Mill	3 credits
CIMM 120	CNC Programming Fundamentals	3 credits
CIMM 121/122	CNC Mill Operation Fundamentals	3 credits
CIMM 150/151	Mill OR Lathe Co-op/Internship	3 credits
COLL 100	First Year Seminar	1 credit
CSOF 100	Introduction to Personal Computing	1 credit
INTE 124	Employment Strategies for Technical Careers	2 credits
Total credits		20 credits

This 16-week program **REQUIRES** attendance Monday thru Friday from 8:00 a.m. till 4:00 p.m. Students spend the first ten weeks in the lab and classroom mastering basic machining skills. During the last six weeks of the program, students work four days a week as a paid intern and spend one day of the week in the classroom and lab.

Internship wages are determined by your program grades and attendance, and range from \$12.50 to \$13.50/hour.

CIMM classes are held at the MCC-Business & Technology campus, 1775 Universal Avenue, Kansas City, MO 64120.

This 16-week, Monday-Friday program includes a paid internship as an entry-level mill machinist or lathe machinist at one of our Consortium partners, including:

ATK/Lake City Army Ammunition Plant
Baader-Johnson
Best Tool & Manufacturing
Brunson Instrument
Clay & Bailey
Computech
Continental Tool and Manufacturing
Creative Blow Mold Tooling
Dollins Tool
Fike Corporation
Gray Manufacturing
Great Western Manufacturing
Huhtamaki
Kocher-Beck
Machine Laboratory
May Technology & Mfg.
Meadwestvaco-Calmar
Microtool
MidAmerica Fittings
Pride Manufacturing
Pro-Con
R & D/Leverage
SOR
Triumph Structures
UltraSource
Van Am Tool and Engineering
Vector Tool & Engineering
Vista Manufacturing

This program is funded by the MoManufacturingWINS program administered by the Missouri Community College Association, with support from Metropolitan Community College and various community partners.

**Contact Eric Thompson for more information
at 816.604.5216 or eric.thompson@mccckc.edu**

**Blue River
Business & Technology
Longview
Maple Woods
Perm Valley**



Computer Integrated Machining & Manufacturing (CIMM)

In one 16-week semester, you will:

- Master the basics of manual mill or lathe machining through ten weeks of classroom and lab activities
 - Gain an orientation to Computer Numerical Control (CNC) programming and operation
 - Complete a paid internship as an entry-level machinist with a consortium manufacturing company during the last six weeks of the semester
 - Take a strong first step in a rewarding, in-demand career field
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This program prepares you for a job as an entry-level: **manual lathe or manual mill machinist**

Average nationwide yearly salary range: **\$24K to \$48k***

Percent of job growth between 2010 and 2020: **9%***

Industry certifications you will earn in this program: **National Career Readiness Certificate Plus (NCRC-_P)**

Industry certifications you will be prepared to earn: **NIMS Level 1 in Manual Mill/Lathe**

Who: This program is open to anyone wanting to start a career in manufacturing. Your academic and mechanical skills will be assessed as part of the enrollment process.

Where: Metropolitan Community College-Business & Technology campus, 1775 Universal Ave., KCMO 64120

When: Classes begin several times a year. Contact Eric Thompson for a list of start dates.

How long: This full-time, daytime program can be completed in a single 16-week semester.

Cost: Approximately \$1,844 for tuition, fees, and books.** This program is underwritten in part by U.S. Department of Labor MoWINS grant funds. Your financial aid eligibility will determine if you qualify for Pell or other grant funding.

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*U.S. Department of Labor - www.onetonline.org

**Cost based on in-district tuition rate

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**Metropolitan
Community College**



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CSOP 100	Introduction to Personal Computing	1 credit
INTE 104	Employment Strategies for Technical Careers	2 credits
Total credits		19 credits

- ATX/Lake City Army Ammunition Plant
- Baader-Johnson
- Best Tool & Manufacturing
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- Clay & Bailey
- Computech
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- Kocher+Beck
- Machine Laboratory
- Meadwestvaco-Calmar
- Microtool
- MidAmerica Fittings
- Pride Manufacturing
- Probatis Manufacturing Technologies
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- Vector Tool & Engineering
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