



PRECISION MACHINING & AUTOMATION TECHNOLOGY

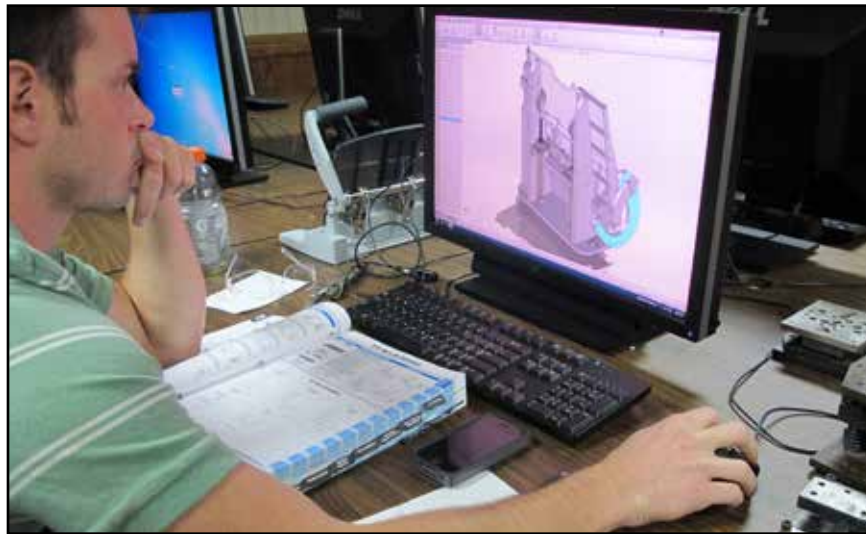
Associate of Applied Science Degree
Diploma

MILFORD CAMPUS

www.southeast.edu/PrecisionMachining



SCC's program will prepare students for an exciting, fast-paced career in manufacturing. Students can specialize in Tool Making, Mold Making, CNC Machining, and Manufacturing Automation. The Eicher Technical Center in Milford has one of the largest precision training facilities in the country.



Types of jobs available:

- Tool Maker
- Die Maker
- Mold Maker
- Precision Machinist
- Machine Builder
- CNC Programmer
- CNC Operator

Graduate Earnings

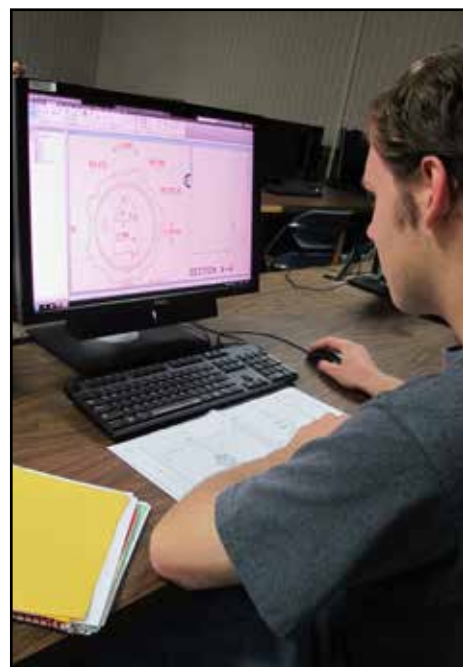
Recent graduates report an average starting wage of \$18.75 per hour.

For more information contact:

Scott Kahler, Program Chair
402-761-8354, 800-933-7223 ext. 8354
skahler@southeast.edu

or the College Admissions Office
Milford 402-761-8243, 800-933-7223 ext. 8243

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"I chose the Precision Machining and Automation Technology program because the job opportunities once I graduate will be amazing. I have had a job lined up since my third quarter of school.

The company I have worked for while I'm still in school heard that I was going to SCC for precision machining. It knew that SCC was a really great school and that I could improve my workplace's machine shop. The new program area at SCC is really nice. The new machines give students more opportunities to learn the CNCs and get more hands-on time with them."

- Eric Adams, Lincoln, Neb.

Required MACH Core Courses:

Course #	Course title	Credit hrs
MACH1121	Manufacturing Processes	3.5
MACH1156	Blueprint Reading & Drawing	3.0
MACH1173	Machine Tool Lab I	3.5
MACH1174	Machine Tool Lab II	3.0
MACH1223	Machine Tool Lab III	3.0
MACH1224	Machine Tool Lab IV	4.0
MACH1225	Materials of Industry	5.0
MACH1241	Machinery's Handbook	5.0
MACH1250	Computer Aided Drafting	3.0
MACH1324	Machine Tool Lab V	7.0
MACH1349	CNC I	5.5
MACH1370	Precision Machining Processes Using Math Concepts	2.5
MACH1428	Machine Tool Lab VI	5.5
MACH1451	CNC II	7.0
MACH1454	CAM	4.0
		64.5 hours

Diploma:

To complete the Diploma, a total of nine (9.0) general education requirements must be fulfilled. This includes one math course plus one other general education course from Oral or Written Communications.

MACH A.A.S. Degree Requirements:

Tool Maker Focus:

Course #	Course title	Credit hrs
MACH2530	Die Design	2.0
MACH2532	Die Making Lab	7.0
MACH2535	Mold Theory	5.0
MACH2537	Injection Mold Design	2.0
MACH2538	Mold Making Lab	7.0
MACH2547	Die Theory	5.0
		28.0 hours

CNC & Automation Focus:

Course #	Course title	Credit hrs
MACH2510	Automation Fundamentals	5.0
MACH2520	Automated Equipment Design	2.0
MACH2536	Automated Equipment Design Lab	7.0
MACH2641	Advanced CNC Fundamentals	5.0
MACH2651	CNC Design and Programming	2.0
MACH2660	Advanced CNC Lab	7.0
		28.0 hours

General Education Requirements:

Contact your program advisor to select general education courses from each category which will meet your program's graduation requirements. See the General Education pages online for a complete list.

(One class from each area below)

Oral Communications	4.5
Written Communications	4.5
Mathematics	4.5

(Plus two classes from the four areas below; no two classes from the same area)

Science, Social Science, Humanities, and/or Computer Technology	9.0
	22.5 hours



Estimated Expenses

To determine overall costs, students should plan a budget that includes room, meals, clothing, laundry, medical care, recreation and entertainment, transportation, insurance, etc.

Nebraska Resident tuition rate is \$65.50 per credit hour. Out-of-state tuition rate is \$79.50 per credit hour.

Student fee is \$2 per credit hour. Graduation fee is \$25.

Housing is available at Beatrice and Milford campuses only. Tuition, books and fees are dependent upon classes taken.

FIRST QUARTER EXPENSES

Tuition And Fees	\$1,519
Books	725
Tools	200
Total	\$2,444

FOURTH QUARTER EXPENSES

Tuition And Fees	\$1,418
Books	300
Total	\$1,718

SECOND QUARTER EXPENSES

Tuition And Fees	\$1,317
Books	175
Tools	2,000
Total	\$3,492

FIFTH QUARTER EXPENSES

Tuition And Fees	\$1,249
Books	225
Total	\$1,474

THIRD QUARTER EXPENSES

Tuition And Fees	\$1,317
Books	145
Total	\$1,462

SIXTH QUARTER EXPENSES

Tuition And Fees	\$945
Books	95
Total	\$1,040
Total Estimate For Program	\$11,630

Basic Tools for Program

Detailed tool list with options and estimated pricing available on request.

Tools Required For First Quarter

- 6" Dial Calipers
- Safety Glasses

Tools Required For Second Quarter

- Machinist Tool Box or 30" Roller Cabinet
- 0 to 1" Micrometer
- 1" to 2" Micrometer
- 1" Travel Dial
- Magnetic Base for Indicator
- Test Indicator
- Combination Square
- Small Hole Gauges
- Telescoping Gauges
- Center Gauge
- 6" Flexible Steel Rule
- Scriber
- Edge Finder
- Adjustable Wrench
- Ball Peen Hammer
- Screwdriver
- Slip Joint Pliers
- File Card
- Tap Wrench
- 10" mill 2nd cut file
- File Handle
- Chip Brush
- Chuck Key
- Standard Hex Key Set
- Metric Hex Key Set
- Center Punch
- Prick Punch
- Pin Punch
- Drill Point Gauge
- Deburring Tool
- India Stone
- Mighty Mag
- 1/2" Tape Measure
- Indical
- Drill Bit Set

