

Machine Tool Technology

(Manufacturing & Design)

OFFERS: In Demand Professional Skill Development

Project Base Learning

High Demand High Wage Career Path

Leadership Presence in Manufacturing



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Industry &
Trades

Top Code: 09 Engineering & Industrial Technology

Industry Sectors: Advance Manufacturing

Courses: Manual Mill and Lathes, CNC Centers, Fanuc Robotics, Programming, Blue Prints and Schematics, Precision Measurement, and Manufacturing & Design Concepts, Quality Control (Metrology)

Employer Advisory: Prema Precision, Flory Industries, Ball Corporation, Fastenal, Lawrence Livermore Laboratories, Haeger Inc., CNC Solutions, Feral Productions, Mid Valley Prototfab, Inc., Accu-Swiss, Lock-N-Stick, Gallo Glass, Newman Flange & Fitting Co.

Industry Partnerships:

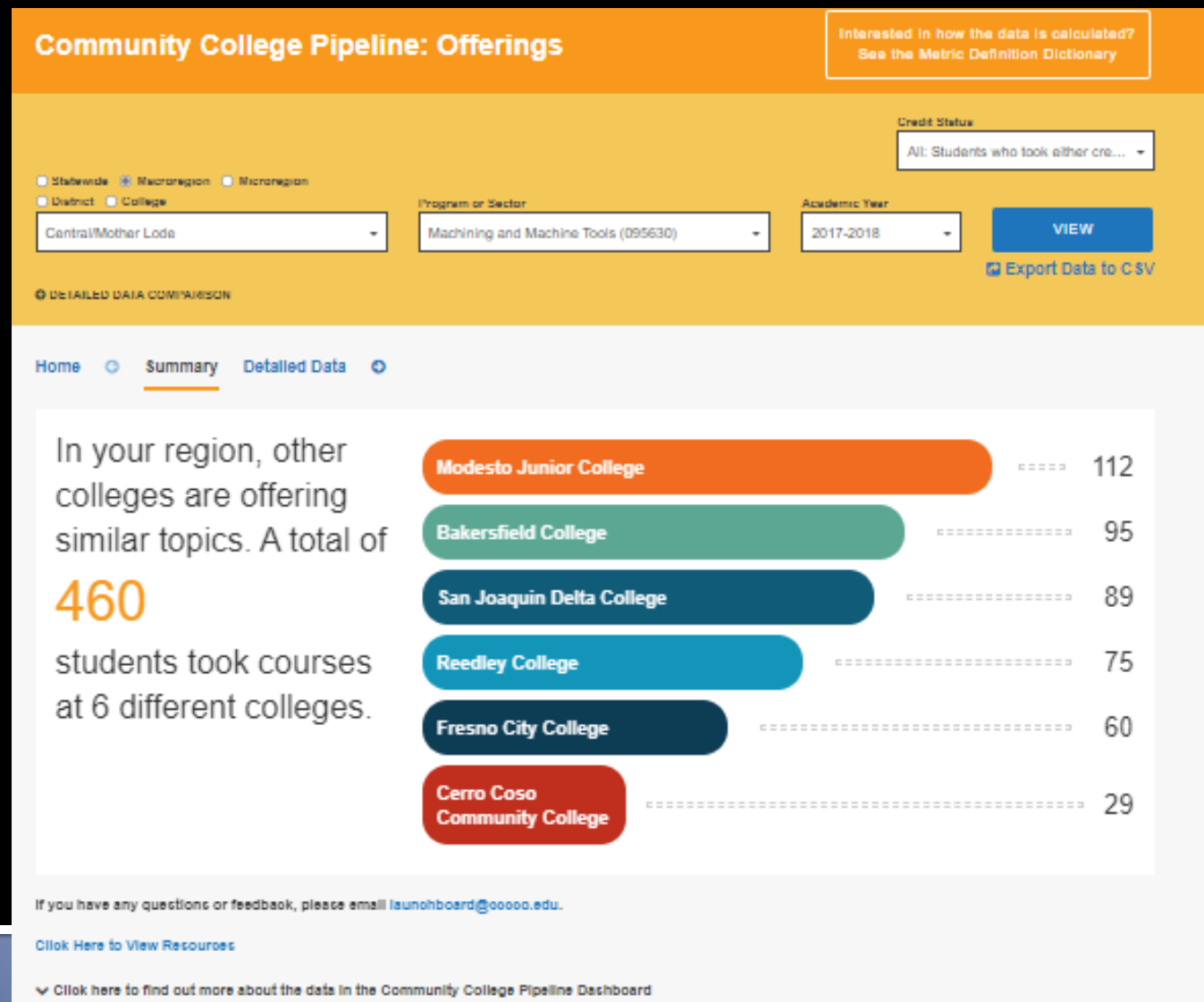
- Stanislaus Manufacturing & Maintenance Apprenticeship
- E & J Gallo Winery Maintenance Apprenticeship
- Gallo Glass Apprenticeship
- Frito Lay Electro Mechanic Training
- Blue Diamond – Machine Shop Training
- Turlock Irrigation Maintenance Training
- EDA Manufacturing Grant – Fanuc Robotics
- Economic Distress Grant – Manufacturing

- 1 FT Faculty
- 1 PT Faculty
- Manufacturing Process Lab

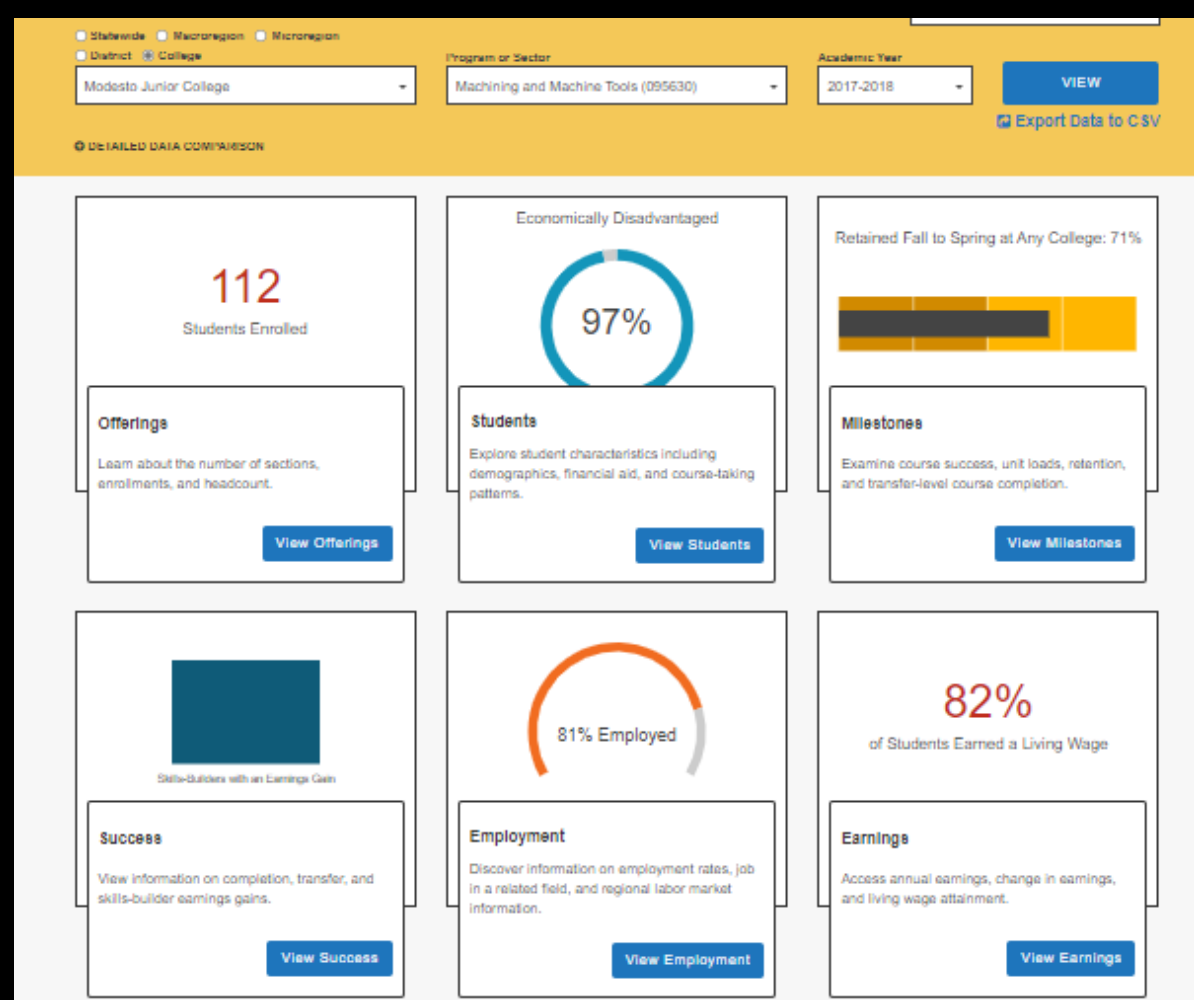


- Supports Engineering and Electronics curriculum
- Supports part replacement for departments on campus: Agriculture, Science, Facilities

MJC Machine Tool Technology



MJC Machine Tool Technology



Many different types of students are taking classes in this program area. It may be helpful to tailor your programs based on the type of student.

87% were part time

15% were skills-builders

Labor Market Information (COE)

2018-2028 Occupational Projections						
SOC Code	Occupational Title	Entry Level Education	2018 Jobs	2018-2028 Total Job Openings	Annual Job Openings	Average Annual Earnings
49-9041	Industrial Machinery Mechanics	High school diploma or equivalent	2,300	2,220	222	\$60,738
49-9043	Maintenance Workers, Machinery	High school diploma or equivalent	430	490	49	\$50,342
49-9071	Maintenance and Repair Workers, General	High school diploma or equivalent	4,540	5,190	519	\$44,502
51-4011	Computer-Controlled Machine Tool Operators, Metal and Plastic	High school diploma or equivalent	160	160	16	\$44,853
51-4033	Grinding, Lapping, Polishing, and Buffing Machine Tool Setters, Operators, and Tenders	High school diploma or equivalent	140	130	13	\$40,872
51-4041	Machinists	High school diploma or equivalent	700	790	79	\$48,842
51-4072	Molding, Coremaking, and Casting Machine Setters, Operators, and Tenders	High school diploma or equivalent	270	250	25	\$41,559
51-9022	Grinding and Polishing Workers, Hand	No formal educational credential	160	170	17	\$29,963
51-9023	Mixing and Blending Machine Setters, Operators, and Tenders	High school diploma or equivalent	620	740	74	\$39,134
51-9111	Packaging and Filling Machine Operators and Tenders	High school diploma or equivalent	3,510	4,340	434	\$35,314
51-9195	Molders, Shapers, and Casters, Except Metal and Plastic	High school diploma or equivalent	180	250	25	\$40,125
51-9196	Paper Goods Machine Setters, Operators, and Tenders	High school diploma or equivalent	300	430	43	\$35,822
53-7011	Conveyor Operators and Tenders	No formal educational credential	50	60	6	\$40,326
Grand Total			13,360	15,220	1,522	\$44,423

Machining to Manufacturing Design

- Identified as #1 Need by Division
- Single Faculty Program
 - Stewardship
 - Curriculum
 - Lab Maintenance
 - Leadership in Community
- Value to our Students and Community
 - Apprenticeship Path
 - Project Based Learning
 - An immediate path to a Career
 - Working Adult Program
- Student Funding Formula
 - Part Time Student (87%)
 - 9 units of CTE
 - CTE Certificate
 - CTE Associates Degree
 - Employment Wages (82%)

