The Manufacturing Career Cluster incorporates six pathways: production; manufacturing production process development; maintenance, installation & repair; quality assurance; logistics & inventory control, and health, safety & environmental assurance. Students prepare for careers that require planning, managing and performing the processing of materials into intermediate or final products and related professional and technical support activities.

5,088 enrollments in High School programs + 1,174 enrollments in Middle School programs = 6,262

Top High School Programs

- Industry Biotechnology (1,392)
- Welding Technology Fundamentals (1,359)
- Automation and Production Technology (1,274)
- Applied Welding Technologies (404)
- Engineering Assisting (157)

Top Certifications Earned by K-12 Students

- Biotechnician Assistant
- Certified Welder
- MSSC Certified Production Technician (CPT)
- Solidworks Associate
- MSSC Biotechnician Assistant Certified
- Certified Welder
- NCCER Certified Welding I
- Certified Solidworks Associate

Articulation Pathway to College

- MSSC Certified Production Technician (CPT) (MSSCN001)
- Articulates 9 credits
- Manufacturing Technology A.S. Degree
- $961.56 in State College Tuition Savings
District Postsecondary Enrollments

- 3,179
  - 81% Certificate
  - 19% Apprenticeship

Top Programs

1. Sheet Metal Fabrication Technology Apprenticeship
   - 1,794
2. Machining Apprentice-ship
   - 142
3. Electronic Technology Apprentice-ship
   - 215
4. Millwright Apprentice-ship
   - 233

Top Certifications Earned by District Postsecondary Students

1. Certified Welder
2. MSSC Certified Production Technician (CPT)
3. Mastercam Associate Certification - Mill Design and Toolpaths
4. Associate Certified Electronics Technician
5. NCCER Welding Level 3 - Post-secondary
6. NIMS Machining Level II - Grinding Skills II

Employment Outlook

- High Growth: 2.6% Growth Rate
  - Industrial Machinery Mechanics
- High Wage: $18.84 per hour Mean Wage
  - Machinists
- Annual Openings: 528 Annual Openings
  - Welders, Cutters, Solderers, and Brazers

Notes: Based on 2016-17 data. Postsecondary enrollment is limited to district programs and includes dual enrollment students. Enrollment outlook is based on the 2017-18 Statewide Demand Occupations List.