

# Is Manufacturing the Right Choice?

## Quick Facts



**10.94%**<sup>4</sup>

Total U.S. Economic Output



**\$1.17 Trillion**<sup>4</sup>

U.S. Manufacturing Exports in 2020



**\$62,360**<sup>1</sup>

Average Annual Income CNC Programmer



**6th**<sup>3</sup>

Largest Employer in the U.S.



**\$46,240**<sup>2</sup>

Average Annual Income CNC Machine Operator



**Associate Degree or Certificate**

Suggested Education\*

\*Manufacturing jobs are available for all education levels. Education requirements vary based on employer preference and onsite training availability.

Sources:

1. "Occupational Employment and Wages, May 2021 51-9162 Computer Numerically Controlled Tool Programmers", U.S. Bureau of Labor Statistics, May 2021, <https://www.bls.gov/oes/current/oes519162.htm>.  
2. "Occupational Employment and Wages, May 2021 51-9161 Computer Numerically Controlled Tool Operators", U.S. Bureau of Labor Statistics, May 2021, <https://www.bls.gov/oes/current/oes519161.htm>.

3. "Employment Projections", U.S. Bureau of Labor Statistics, September 8, 2021, <https://www.bls.gov/emp/tables/employment-by-major-industry-sector.htm>.  
4. "2021 United States Manufacturing Facts", National Manufacturing Institute, 2021, <https://www.nam.org/state-manufacturing-data/2021-united-states-manufacturing-facts/>.

## The Manufacturing Skills Gap

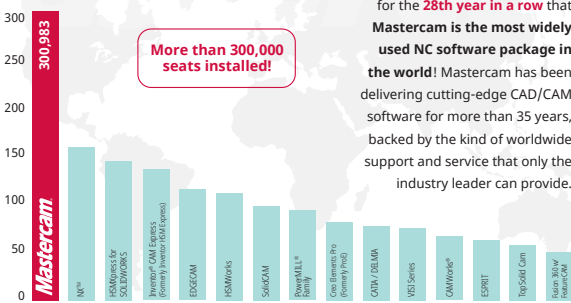
A study by Deloitte and the Manufacturing Institute predicts there may be as many as 2.1 million manufacturing jobs unfilled by 2030.<sup>5</sup> There are a few reasons for this prediction. Baby Boomer generation manufacturing workers are beginning to retire and finding enough new workers with similar skill sets to replace them is becoming increasingly difficult. Also, there are widespread misconceptions about manufacturing work being repetitive and unrewarding, even though this is far from reality. Manufacturing is a constantly evolving industry that involves specialized skills in, not only machine operation, but Computer Numerical Control (CNC) programming, automation, artificial intelligence, collaborative robotics, Internet of Things and more technologies.

Source: 5. Paul Wellener, et al. "Creating Pathways for Tomorrow's Workforce Today", Deloitte and the Manufacturing Institute, May 4, 2021, <https://www2.deloitte.com/us/en/insights/industry/manufacturing/manufacturing-industry-diversity.html>.

## Start Your CNC Programming Career Now by Learning The Most Used CAM Software in the World

### #1 WORLDWIDE in NC Programming

Installed Seats (in thousands)



CIMdata, Inc. has reported for the **28th year in a row** that Mastercam is the most widely used NC software package in the world! Mastercam has been delivering cutting-edge CAD/CAM software for more than 35 years, backed by the kind of worldwide support and service that only the industry leader can provide.

More than 300,000 seats installed!

When deciding to become a CNC programmer, it is important to learn the Computer-Aided Manufacturing (CAM) software most employers use worldwide. CIMData has ranked Mastercam CAD/CAM software the most widely used NC software package in the world for 28 years in a row! There are many community colleges in the Pacific Northwest that teach machining and CNC programming courses with Mastercam, including the online Mastercam training site [Streamingteacher.com](https://streamingteacher.com).

Visit [www.mcamnw.com/mastercam/mastercam-for-educators/](http://www.mcamnw.com/mastercam/mastercam-for-educators/) for a full list of local institutions where you can learn Mastercam.



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