

# Advanced Manufacturing

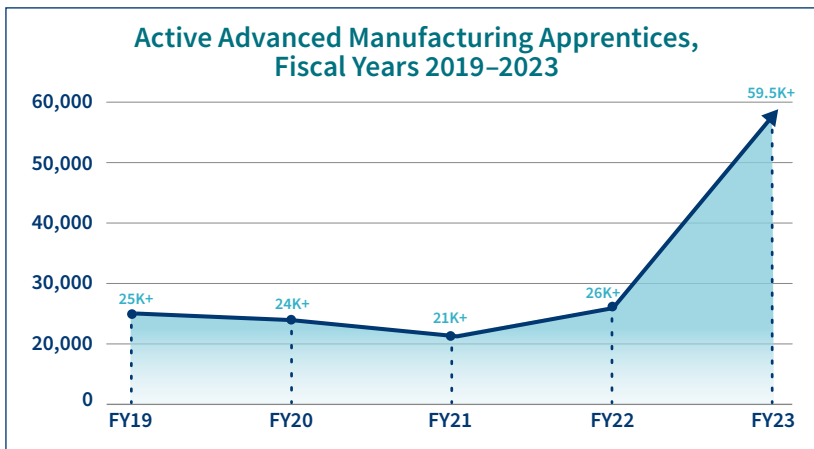
Advanced manufacturing companies face complex workforce challenges in the world marketplace. Registered Apprenticeship is a proven solution for employers to recruit, train, and retain great manufacturing talent in good, quality jobs. Since the start of the Biden Administration, over 59,500 apprentices have participated in 2,900 Advanced Manufacturing Registered Apprenticeship programs. This represents an increase of 10%.<sup>1</sup>

## THE NEED FOR REGISTERED APPRENTICESHIP IN ADVANCED MANUFACTURING

The advanced manufacturing industry is important to our country's economic growth. The challenge? Not having enough staff is slowing companies' efforts to expand, innovate, and excel. Companies must—

- ▶ Replace an aging workforce of highly skilled and experienced workers
- ▶ Attract talent to new jobs
- ▶ Invest in talent that can keep up with the latest technology
- ▶ Implement training models that develop talent

These workforce issues threaten companies' capacity and earnings. The good news? There is a proven solution to meet employers' talent issues: **Registered Apprenticeship**. It is a training model driven by the industry. It can also provide an important source of talent for manufacturers.



As of FY 2023, there were over

**59,500**  
Apprentices

in advanced manufacturing occupations

## SNAPSHOT: EXAMPLES OF ADVANCED MANUFACTURING-RELATED APPRENTICEABLE OCCUPATIONS

- ▶ Aerospace Engineer
- ▶ CNC Machine Operator
- ▶ Mechanical Engineering Technician
- ▶ Mechatronics Technician
- ▶ Precision Machinist
- ▶ Tool and Die Maker
- ▶ Industrial Manufacturing Technician
- ▶ Maintenance Mechanic
- ▶ Robotics Technician
- ▶ Quality Technician



## REGISTERED APPRENTICESHIP: THE TOP TALENT DEVELOPMENT SOLUTION FOR EMPLOYERS

Thousands of companies across the U.S. and the world use the Registered Apprenticeship training model. With it, they recruit, train, and retain workers with the right skills. Registered Apprenticeship has been the most useful training model for improving companies' performance and competitiveness.

### WHAT IS REGISTERED APPRENTICESHIP?

Registered Apprenticeship is a high-quality career pathway. It has been proven by the industry. With it, employers can develop and prepare their future workforce. Apprentices can get paid work experience and wage increases. They also get classroom instruction and a credential that has national recognition and can be used across jobs. Registered Apprenticeships are vetted and approved by the industry. They are also validated by the U.S. Department of Labor or a State Apprenticeship Agency.

*“Through customized training, our apprentices build their skill sets working directly with our equipment, enabling them to become very efficient in supporting the Mack Trucks’ manufacturing facility as they progress through and complete the program.”—Thomas Gombos, Maintenance Manager, Mack Trucks, Lehigh Valley Operations*



### HOW CAN REGISTERED APPRENTICESHIP HELP COMPANIES?

Advanced manufacturing employers gain several benefits from conducting Registered Apprenticeship programs. Through Registered Apprenticeship, employers will:

- ▶ Customize training to meet the company's needs
- ▶ Recruit and develop a diverse and highly skilled workforce
- ▶ Improve capacity and earnings
- ▶ Reduce turnover, improve loyalty, and retain top talent
- ▶ Invest in the community
- ▶ Create effective and efficient training practices
- ▶ Improve the company's current workforce skills
- ▶ Provide pathways for career advancement

Partner with the Office of Apprenticeship, a [U.S. Department of Labor Industry Intermediary](#), or State Apprenticeship Agency. By partnering, companies can access a nationwide network of expertise, customer service, and support. Our apprenticeship team creates business solutions and helps businesses get workforce results quickly.

<sup>1</sup> The numbers represent apprentices in occupations associated with O\*NET Online's published Manufacturing category and further vetted by the Office of Apprenticeship and advanced manufacturing industry intermediaries.

## Explore Registered Apprenticeship Today!

Want to learn more? Visit the U.S. Department of Labor's one-stop source for all things apprenticeship: [www.apprenticeship.gov](http://www.apprenticeship.gov) or email us at [apprenticeship@dol.gov](mailto:apprenticeship@dol.gov).

**APPRENTICESHIPUSA™**  
★★★