

# THE FUTURE OF ADVANCED MANUFACTURING

## CLARK COLLEGE'S ADVANCED MANUFACTURING CENTER

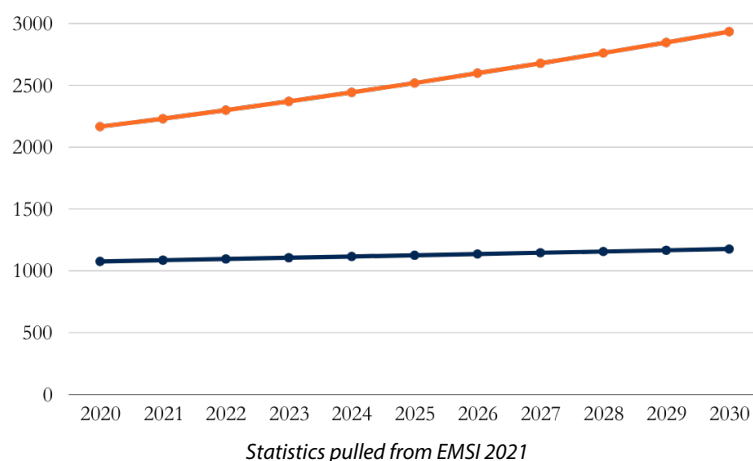
Clark College is constructing an Advanced Manufacturing Center (AMC) at our newest campus in Ridgefield to meet area manufacturing partners' current and future workforce needs. The AMC will house the new Advanced Manufacturing Technician program, which integrates welding, mechatronics, robotics, automation, and machining. Stackable credentials will meet current and emerging industry needs for high-quality advanced manufacturing technicians at all stages of the career pathway. Also, incorporating automated technology, Clark's Program is designed to produce highly efficient products, reduce lead times, and use reduced raw materials.

## INCREASED INDUSTRY DEMAND

The Portland/Vancouver Metro area faces a significant shortage of entry-level and skilled advanced manufacturing workers. Each year, the number of new advanced manufacturing jobs created is more than double that of students graduating with relevant degrees (see chart).

Higher than-average growth is projected in advanced manufacturing companies in the United States. In 2020, the Portland Metro area had 3,499 manufacturing establishments in the region with over 120,000 jobs, 23% higher than the national average for the region's size. In 2022 manufacturing payroll passed \$1 billion in Clark County, according to data from the Washington Employment Security Department.

**Advanced Manufacturing Technician Job Openings vs  
Students Graduating with Workforce Ready Skills**



## WORKFORCE READY SKILLS

- Semiconductor manufacturing
- Electronics manufacturing
- Medical device manufacturing
- Clean energy and renewable energy
- Robotics and Artificial Intelligence
- Supply exchange management

## STRONG PARTNERSHIPS, STRONGER WORKFORCE

### *How you can help!*

- Serve on the advisory committee that provides input on required knowledge, skills, and abilities.
- Encourage employees in need of training or upskilling to enroll in appropriate program.
- Hire Clark College graduates as interns or permanent employees.
- Establish or contribute to a scholarship for Advanced Manufacturing students.
- Invest in the AMC through a donation of cash, expertise, or equipment.

**General Education Courses** Spring 2025

**Advanced Manufacturing Courses** Fall 2025



# CLARK COLLEGE

## ADVANCED MANUFACTURING PROGRAM

*Details provided on this flyer are subject to change. Updated 12/05/24*

### PLANNED CURRICULUM

- Programming and Problem Solving
- Material Science
- Career Exploration
- Robotics I, II, & III
- Metrology
- Systems Integration
- CAD/CAM
- Higher Level Mathematics
- Manual Manufacturing I & II
- Technical Writing
- Additive & Subtractive Manufacturing I & II
- Welding, Cutting, and Fabrication
- Blueprints and Schematics
- Capstone

### CERTIFICATIONS AND DEGREES

*Students can earn stackable credentials that also count towards an associates degree!*

#### Certificate of Achievement **31 Credits**

Intro to Manufacturing

#### Certificate of Proficiency **47 Credits**

Manufacturing Operator

#### Associate in Applied Technology **101 Credits**

Integrated Technical Degree

### About Clark College Foundation

Clark College Foundation (CCF) is an independent, self-funded and self-governed nonprofit that partners with Clark College through philanthropy and asset investment. The foundation was established on July 25, 1973 as a 501(c)(3) organization. Each year, we award \$1.3 million in scholarships, special awards and financial support to hundreds of students. In all, the foundation contributes an average of \$3.5 million annually to the college for scholarship, program and capital support.

Clark College Foundation  
inspires the joy of philanthropy  
in support of student success  
and program excellence at  
Clark College.



**\$89M**

Provided to Clark College since  
the Foundation's inception

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