



Manufacturing Pathways

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Career Path – Industrial & Engineering Technology – Building & Fixing


The field of Industrial & Engineering Technology is a way to speed up production, using simpler techniques and more efficient manufacturing processes. This field craves creative and technically proficient individuals who can help a company achieve efficient and profitable productivity.

Career Cluster 13 – Manufacturing

Planning, managing, and performing the processing of materials into intermediate or final products. Are you interested in how products and machines come together? Related professionals and technical support activities help with production planning and control maintenance. Manufacturing and processing engineering work together with things we consume every day like cars, computers and food.

 **Associate's Degree or Technical Certificate**

 **Bachelor's Degree**

 **Master's, PhD or Professional Degree**

High School Diploma needed

Career Pathway – Maintenance, Installation and Repair

Locksmiths and Safe Repairers

 **Maintenance and Repairs Workers**

 **Millwrights**

 **Telecommunications Equipment Installers and Repairers**

Career Pathway – Manufacturing Production

 **Electrical and Electronic Engineering Technicians**

 **Industrial Engineers**

 **Industrial Production Managers**

Industrial Truck and Tractor Operators



Career Pathway – Production

Aircraft Structure, Surfaces, Rigging, and Systems Assemblers



Boilermakers



Computer Numerically Controlled Machine Tool Programmers



Computer-Controlled Machine Tool Programmers

Dental Laboratory Technician

Electromechanical Equipment Assemblers

Extruding and Drawing Machine Setters, Operators, and Tenders



Machinists

Molding, Coremaking, and Casting Machine Setters, Operators, and Tenders



Welders, Cutters, Solderers, and Brazers

Career Pathway – Quality Assurance

Inspectors, Testers, Sorters, Samplers, and Weighers

Production, Planning, and Expediting Clerks

Career Pathway – Logistics and Inventory Control



Installation, Maintenance, and Repair Workers

Logistics Coordinator

Logistics Supervisor

Shipping and Receiving Operator

Career Pathway – Health, Safety and Environmental Assurance



Environmental Scientist/Engineer



****Hazardous Materials Removal Workers****



Occupational Health and Safety Specialist

Related Majors:

Bioinformatics

Construction Engineering

Forest Engineering

Industrial Engineering

Nanotechnology

Operations Management

Here is what [Bellevue College](#) Offers:

Bellevue College offers an associate degree for students pursuing [Mechanical Engineering](#). Students can explore the [Engineering Transfer](#) to search for types of courses or reach out to faculty and resources.

Bellevue College Offers:

- [Art 108](#) – Introduction to Hand and Power Tools (5CR)
- [Art 112](#) – Three Dimensional Design (5CR)
- [Drama 210](#) – Scene Technology (5CR)
- [Marketing 203](#) – Manufacturing and Distribution (5CR)
- [MBS 350](#) – Bioinformatics (5CR)

Here are 5 jobs perfect for a Manufacturing graduate:

1) Fabricator

To ensure the best possible product, a fabricator uses the most innovative manufacturing technology methods. Reading blueprints and plans to make the parts that comprise products is part of ensuring quality control through testing the performance and safety of all parts of a product.

2) Machinist

Machinists use manual operations, in addition to CAD (computer-aided design) and CAM (computer-aided manufacturing) programs to create metal tools and parts that are used to manufacture products. Used in forging and product stamping, Die makers create the tools that shape and manipulate metal.

3) Field Service Engineer

For the more social, technology-inclined students, a field service engineer could be perfect for you. Traveling to a different job site to perform installation, maintenance, and testing on electrical systems is all part of this career field. You will also interact with clients more because the field service engineer serves as the face of his or her company.

¹ ManufacturingstemJobs.com



4) Senior Plant Process Engineer




This position is the leader of the pack in the plant processes which requires finely tuned project-management skills. You would be handling important processes like product quality, monitoring manufacturing costs and examining employee efficiency. Promoting safety first is essential with in your working environment for your colleagues, which helps promote quality output.

5) Materials Engineer

As a materials engineer, you will determine the modules that yield the highest product performance. This role requires you to choose materials through considering quality-control guidelines. The expectations are established from your company and the consumers who demand the finished product.

Best Manufacturing Colleges in Washington:

- 1) [Bates Technical College](#) – Bates Technical College offers 12 manufacturing degree programs.
- 2) [Renton Technical College](#) – Renton Technical College offers 7 manufacturing degree programs.
- 3) [Bellingham Technical College](#) – Bellingham Technical College offers 5 manufacturing degree programs.

Filter:	Degree Levels	Program Length	Control Type		
School Logo	School Name	Average tuition	Student Teacher Ratio	Enrolled Students	
	Bates Technical College Tacoma, WA	\$ \$ \$ \$ \$	27 : 1	3,272	
	Renton Technical College Renton, WA	\$ \$ \$ \$ \$	31 : 1	3,961	
	Bellingham Technical College Bellingham, WA	\$ \$ \$ \$ \$	29 : 1	2,403	

² [Universities.com](https://www.universities.com)



³Other Schools in the area:

King – Snohomish Area

[Everett Community College](#)

- Advanced Manufacturing Technology (Certificate)
- Manufacturing Operations Management (Certificate)
- Manufacturing Pre-Employment (Certificate)

[Green River College](#)

- Aerospace & Advanced Manufacturing: Precision Machining 1 and 2 (Certificate)
- Machining & Manufacturing Technology (Associate Degree)

[Shoreline Community College](#)

- Basic Manufacturing (Certificate)
- Manufacturing/Machinist Technology (Associate Degree)

[South Seattle College](#)

- Basic Manufacturing (Certificate)
- Intro to Manufacturing (Certificate)
- Manufacturing/Machinist Technology (Certificate)

South Side Area

[Clover Park Technical College](#)

- Fundamental Skills for Manufacturing (Certificate)
- Manufacturing Technologies: Machinist Apprentice (Certificate)
- Manufacturing Technologies (Associate Degree)

[Spokane Community College](#)

- Applied Manufacturing Preparation (Certificate)
- Industrial and Manufacturing Technology (Certificate)

East Side Area

[Big Bend Community College](#)

- Commercial Driver's License (Certificate)

³ Washington Career Bridge



- Manufacturing Clerk (Logistics Tech) – (Certificate)
- Welding, Structural Welding, or Production Welding (Associate Degree)

[Walla Walla Community College](#)

- Advances Truck Driver Training (Certificate)
- Truck Driving Training (Certificate)
- Welding Technology (Associate Degree)

