



Logistics & Production Technology



Frederick County is fast becoming a hub for innovation in production and logistics, and job growth is expected to continue.

The new **Logistics & Production Technology** program at Frederick Community College (FCC) prepares students for a successful career in supply chain, manufacturing, and biotechnology industries. Students develop competency with in-demand equipment and processes, strengthen mathematics and measurement skills, and practice communication and customer relations. This is a noncredit program that provides a foundation for industry jobs or the pursuit of advanced training.

Visit frederick.edu/logistics to learn more about current course offerings or to register.

Short-Term Workforce Programs



LOGISTICS

- Foundations of Logistics & Production
- Applied Logistics
- Supply Chain Automation

3 Industry Credentials



BIOTECH SYSTEMS & MAINTENANCE

- PLC and Delta V Fundamentals
- Sensors
- Mechanical Systems
- Robotics Fundamentals
- Regulation, Documentation, Maintenance, Measurement, Facilities, & Current Good Manufacturing Practices

4 Industry Credentials



Coming Soon

MANUFACTURING TECHNOLOGY 1

- Foundations of Logistics & Production
- Electricity Fundamentals
- Fluid Power Fundamentals
- Mechanical Systems
- PLC Fundamentals
- Robotics Fundamentals

9 Industry Credentials



Coming Soon

MANUFACTURING TECHNOLOGY 2

- Product ID Fundamentals
- Applied Fluid Power
- Applied Mechanical Systems
- Applied PLC
- Applied Robotics
- Applied Industry 4.0

6 Industry Credentials

Foundations of Logistics & Production

This course introduces students to the fields of logistics and production/manufacturing. It provides instruction and application of skills needed for diverse job roles in this field. Subjects include key math skills, communication skills with special focus on customer service and interpersonal communication concepts, professional development skills in gaining and maintaining employment, and exploration of the diverse job roles in logistics and production.

Visit frederick.edu/logistics for current class offerings and to enroll.

Please note: Maryland students residing outside of Frederick County are charged an additional \$5 fee per course. Students residing outside the state of Maryland are charged an additional \$10 per course.



Certified Logistics Technician

Prepare for frontline material handling and supply chain logistics jobs in fulfillment centers, warehouses, distribution centers, and factories. Training focuses on receiving, stocking, shipping, inventory control, materials handling, and dispatch. The course includes assessments for two national industry credentials, MSSC Certified Logistics Associate and Certified Logistics Technician.

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Biotech Systems & Maintenance

This course prepares students to be successful in entry level positions, such as production technician, process technician, process mechanic, maintenance technician, and manufacturing associate, in the maintenance of biotechnology equipment and systems. The coursework combines regulations relevant to the biotechnology and bioprocessing manufacturing industries with hands-on, skills-based mechatronic learning. Students will demonstrate safe operation and maintenance on industrial trainers, troubleshoot common issues, and learn how to perform routine maintenance activities. The importance of calibration, validation and monitoring, good documentation, and standard operating procedures are emphasized. Topics include safety, Good Manufacturing Practices, refrigeration, electricity, sensors, and programmable logic controllers (PLCs). This course may include one or more mandatory field trips and/or guest lectures.

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Logistics Industry



AVERAGE ANNUAL SALARY

\$32,634-\$49,504

in Frederick County, depending on the position



JOBS & EMPLOYMENT OUTLOOK

293

warehousing and storage
jobs in Frederick County

25,402

warehousing and storage
jobs in Maryland

Employment in warehousing and storage jobs in Maryland is projected to double between 2016-2026. Occupations in Frederick County include laborers and freight, stock, and material movers; stockers and order fillers; and first-line supervisors of the above.

Sources: EMSI, economicmodeling.com, MWE, mwejobs.maryland.gov



Manufacturing Industry



AVERAGE ANNUAL SALARY

\$60,000-\$77,000

in Frederick County, depending on the position



JOBS & EMPLOYMENT OUTLOOK

5,567

manufacturing jobs in
Frederick County

112,250

manufacturing jobs
in Maryland

Employment in manufacturing jobs in Frederick County is projected to increase 15.2% between 2016-2026. With 314 positions posted, manufacturing jobs represented the fifth-largest job posting category in Frederick County in December 2020. Occupations in Frederick County include first-line supervisors of production and operating workers; laborers and freight, production, operator, and industrial maintenance technicians; and technicians in mechatronics, automation, robotics, PLC, and electromechanics.

Sources: *EMSI, economicmodeling.com, MWE, mwejobs.maryland.gov*



Biotechnology Industry



AVERAGE ANNUAL SALARY

\$37,000-\$50,000

in Frederick County, depending on the position



JOBS & EMPLOYMENT OUTLOOK

209

biotechnology manufacturing
jobs in Frederick County

2,490

biotechnology manufacturing
jobs in Maryland

Biotechnology manufacturers are expected to continue to be drawn to Frederick County, with the number of jobs expected to more than triple between 2016-2026. There are a wide range of jobs associated with this industry; the FCC Biotech Systems & Maintenance courses prepare students for jobs as biorepository technicians, production technicians, process technicians, process mechanics, maintenance technicians, or manufacturing associates.

Source: EMSI, economicmodeling.com



Contact

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Financial Aid

FCC offers scholarship opportunities and financial assistance to eligible students in many Continuing Education & Workforce Development training programs.

Visit frederick.edu/CEWDScholarships for more information.

Additional Information

[Frederick Community College Logistics & Production Technology](#)

[Frederick County Workforce Services BioHealth](#)

[Frederick County Workforce Services Transportation, Warehousing, & Logistics](#)

[Frederick County Workforce Services Manufacturing](#)

Frederick Community College (FCC) prohibits discrimination against any person on the basis of age, ancestry, citizenship status, color, creed, ethnicity, gender identity and expression, genetic information, marital status, mental or physical disability, national origin, race, religious affiliation, sex, sexual orientation, or veteran status in its activities, admissions, educational programs, and employment. • Under the ADA and Section 504, FCC makes every effort to accommodate individuals with disabilities for College-sponsored events and programs. For FCC employees needing accommodations, including interpreting, please email humanresources@frederick.edu. For students and others with accommodation needs or questions, please call 301.846.2408, or to request sign language interpreter services, please email interpreting@frederick.edu. Sign language interpreters will not be automatically provided for College-sponsored events without a request for services. Requests must be made at least five workdays before a scheduled event to guarantee accommodations. • If your request pertains to accessible transportation for a College-sponsored trip, please submit your request at least 21 calendar days in advance. Requests made less than 21 calendar days in advance may not be able to be guaranteed.

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