



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 <u>frederick.edu/logistics</u> to learn more about current course offerings or to register.

Short-Term Workforce Programs



LOGISTICS

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



BIOTECH SYSTEMS & MAINTENANCE

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





Coming Soon

MANUFACTURING TECHNOLOGY 1

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





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

3 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 <u>frederick.edu/logistics</u> 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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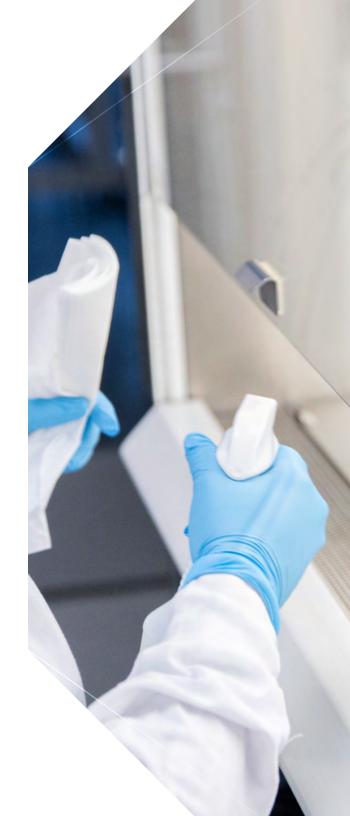


Biotech Systems & Maintenance

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 employees needing accommodations, including interpreting, please email humanresources/federick.edu. For students and others with accommodation needs or questions, please email business and stream of the size of the si