

Overall Recommendations

- Two new pathways in the Manufacturing, Engineering and Technology pathway should be deployed: Electrical and Electronics Engineer Technician and Civil Engineering Technician
- Two additional classes should be offered in the advanced manufacturing pathway: Metalworking 1, and BluePrint Reading and Industrial Safety.

Fast Facts about Manufacturing in Baltimore County, MD

- 15,418 manufacturing workers
- 500+ manufacturing employers
- generate 1.1B+ in worker income
- Home to 36% of Baltimore Region's Top 25 manufacturers
- 14% of Maryland's manufacturing jobs



Production



Production Process Development & Quality Assurance

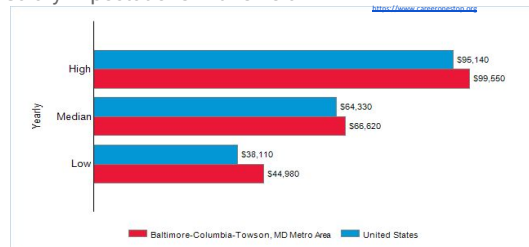


Maintenance, Installation & Repair



Electrical/Electronics Engineer Technician

Salary Expectations in this field



Sample curricula proposed:

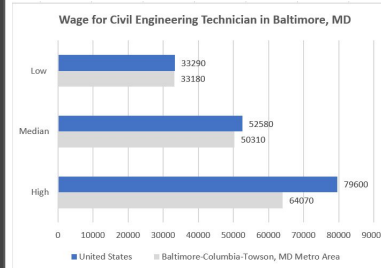
Grade 9	Grade 10	Grade 11	Grade 12
Conceptual Physics & Mathematics of Electricity (optional)	Principles of Electronics/ Electricity	Electrical/Electronic Drawing Electrical Safety & Troubleshooting	Capstone Design Project

Manufacturing in the USA: Current Employment Statistics (Bureau of Labor Statistics)

Thousands of Jobs			Change over time (%)	
2008	2018	2028	2008 - 2018	2018 - 2028
13,405.5	12,688.7	12,048.0	-0.5	-0.5

Civil Engineering Technician

Salary Expectations and sample curricula:



End-of-program certification options:

Pathway	Certification
Electrical/ Electronics Engineer Technician	Student Electronics Technician
Civil Engineering Technician	Civil Engineering Technology
Advanced Manufacturing: Metal Working	Fundamentals of Metal Fabrication
Advanced Manufacturing: Industry Machinery Mechanics	Industry Maintenance Mechanic

Grade 10
Introduction to Civil Engineering
Grade 11
Introduction to Engineering Design and drafting
Grade 12
Advanced Design and 3-D Modeling

