



Manufacturing

Maryland's manufacturing sector is a powerful engine of innovation, combining historic industry leaders with cutting-edge technology firms across aerospace, defense, biomanufacturing, and advanced manufacturing. The state is home to major aerospace and defense manufacturers, including Northrop Grumman and Lockheed Martin. Maryland is also at the forefront of biomanufacturing driving advancements in medical diagnostics with companies like AstraZeneca and BD Life Sciences. The state's advanced manufacturing ecosystem is strengthened by firms like Stanley Black & Decker in precision manufacturing, Volvo Group building engines and W.L. Gore & Associates, known for its high-performance materials and medical innovations. Maryland's central East Coast location, coupled with its world-class research institutions, deep-water port, two Class I railroads, five major interstate highways, and access to four international airports, ensures seamless connectivity for manufacturers. With nearly 5,500 manufacturing businesses generating \$28.2 billion in gross state product annually, Maryland remains a leader in high-tech and next-generation manufacturing.

Major Manufacturing Employers in Maryland

Employer	Employment	Product / Service
Northrop Grumman Mission Systems	12,900	HQ / Electronic surveillance products
Lockheed Martin Corp.	5,050	HQ / Systems engineering software
AstraZeneca	4,200	BioTech Manufacturing
McCormick & Company	2,650	HQ / Food flavorings
Under Armour	2,450	HQ / Athletic apparel distribution
W. L. Gore & Associates	2,400	GORE-TEX® medical products / R&D
BD Life Sciences - Diagnostic Systems	1,900	Microbiology, medical and diagnostic equipment
Volvo Group	1,600	Diesel engines, transmissions
Perdue Farms	1,600	HQ / Poultry processing
Stanley Black & Decker Global Tools & Storage Headquarters	1,725	HQ / Distribution logistics services

Note: Numbers are rounded.

Source: Maryland Department of Commerce

Selected Rankings

- The Port of Baltimore is one of the leading ports in the U.S. for automobiles and roll on/roll off (Ro/Ro) cargoes, offering specialized Ro/Ro services.
- Maryland ranks fifth for gross-value-added (GVA) per worker to the economy in the manufacturing industry.
- According to *U.S. News & World Report's* Best Colleges survey, the University of Maryland College Park ranks 16th in the nation in undergraduate supply chain management/logistics.

Industry Snapshot – Manufacturing in Maryland

- Employment (2023) – 113,930 jobs
 - Leading subsectors:
 - Computer and electronic product manufacturing – 22,877 jobs
 - Food manufacturing – 18,095 jobs
 - Chemical manufacturing – 14,608 jobs
 - Fabricated metal product manufacturing – 7,905 jobs
- Business establishments (2023) – 5,498
- Total wages (2023) – \$11.1 billion

- Average salary (2023) – \$96,997
- Gross state product (2023) – \$28.2 billion
- Federal procurement (FY2023) – \$4.3 billion
- Manufacturing exports (2023) – \$13.5 billion

Sources: Maryland Department of Labor; U.S. Bureau of Economic Analysis; U.S. Census Bureau; Office of the United States Trade Representative, USASpending.gov

Employment by Occupation

Maryland Employment – May 2023

Selected Occupations	Employment	Location Quotient*	
		Index	Rank
Computer Numerically Controlled Tool Operators	2,160	0.65	26
Electrical, Electronic, and Electromechanical Assemblers, Except Coil Winders, Tapers, and Finishers	1,200	0.26	42
First-Line Supervisors of Production and Operating Workers	6,150	0.52	39
Food Batchmakers	1,390	0.46	38
Helpers–Production Workers	1,440	0.45	37
Inspectors, Testers, Sorters, Samplers, and Weighers	4,390	0.43	40
Laborers and Freight, Stock, and Material Movers, Hand	44,640	0.84	21
Machinists	1,570	0.31	42
Packaging and Filling Machine Operators and Tenders	1,840	0.28	41
Paper Goods Machine Setters, Operators, and Tenders	520	0.31	38
Printing Press Operators	1,430	0.54	38
Production Workers, All Other	4,160	0.97	21
Welders, Cutters, Solderers, and Brazers	2,910	0.39	44

* Location Quotient indicates concentration of the occupation in Maryland, with national average equal to 1.0. Rank indicates Maryland's rank among the 50 states.

Source: U.S. Bureau of Labor Statistics, Occupational Employment Statistics.

Assets & Resources

- National Institute of Standards and Technology – Supports U.S. innovation through research, measurements, standards, business services, and other programs.
- University of Maryland College Park (UMCP) Composites Research Laboratory – Research and development activity in composite materials and structures.
- UMCP Center for Nano Manufacturing and Metrology – Advancing the science and technology of manufacturing and realization of products based on unique properties achieved at the nanoscale.
- Regional Manufacturing Institute (RMI) – Represents the interests of manufacturers in Maryland, providing programs, services, and advocacy.
- Maryland Manufacturing Extension Partnership – Focused on providing high quality solutions and programs to improve manufacturers' operations, spark innovation, and increase growth.
- Maryland World Class Consortia – Helps organizations use world class techniques, such as lean and six sigma, to build competitive capacity.
- Maryland Manufacturers Organization – Grass roots organization of the state's manufacturers.
- Regional Additive Manufacturing Partnership of Maryland – Consortium of businesses, educational institutions, government agencies and representatives of the U.S. Army working together to expand the state's capabilities in additive manufacturing.
- World Trade Center Institute – One of over 300 members of the World Trade Center Association, uniting businesses and government agencies in international trade.

- Maryland Technology Enterprise Institute (Mtech) – Educates the next generation of tech entrepreneurs, creates successful ventures, and connects companies with university resources.
- Open Works – New creative center for makers in Baltimore located in a 34,000-square-foot facility offering workshops, classes, and studio space for small-scale manufacturing.

New & Expanding Businesses

- Volvo Powertrain (Washington County) – Company is investing \$43 million and adding 85 new jobs in its Hagerstown powertrain production plant, where it develops and produces heavy-duty diesel engines, transmissions, and axles for Volvo Group brands.
- Domino Sugar Corp (Baltimore City) – Operating since 1922, Baltimore Domino refinery announced a major expansion late 2020. Domino has invested \$21 million to construct four new silos.
- Crystal Steel Fabricators, Inc. (Caroline County) – Maryland’s first offshore wind steel fabrication center with 50 new jobs.
- Sagamore Spirit (Baltimore City) – Whiskey distiller based in Baltimore City expanded its presence with a 28,000 square foot aging barn.
- Barker Steel Mid Atlantic (Baltimore County) – Steel manufacturer in Halethorpe announced expansion into a 133,520 square foot manufacturing facility in 2020.
- Greenland Technologies (Baltimore County) – A developer and a manufacturer of drivetrain systems for material handling machineries and electric vehicles, as well as electric industrial vehicles. In 2022, Greenland Technologies announced a 50,000 square foot manufacturing facility in White Marsh.
- Hitachi Rail (Washington County) – A global provider of rail solutions, is establishing its new railcar manufacturing operations in Washington County as part of a major U.S. expansion. Hitachi Rail is planning to build a \$70 million, 307,000 square-foot facility on Greencastle Pike in Hagerstown. Originally announced in 2022, this project will create up to 460 new full-time jobs and help sustain 1,300 jobs in the region.
- Schroeder Industries (Allegany County) – Hydraulic filter manufacturer completed a 13,500 square foot addition to its Cumberland facility.
- 310 Tempering (Carroll County) – 310 Tempering, a Kentucky-based glass manufacturing company, is opening a new production and manufacturing facility in Carroll County. The company, which is headquartered in Louisville, is opening an 85,000 square-foot facility at 1234 Tech Court in Westminster. The custom glass works company plans to hire 80 new full-time and permanent employees by 2025.
- Niagara Bottling, LLC (Baltimore County) – One of the nation’s leading beverage manufacturers, opened a new manufacturing facility at Tradepoint Atlantic in Baltimore County. Originally scheduled to open in Spring 2023, the 600,000 square-foot was projected to add 90 new jobs.
- Rocket Labs (Baltimore County) – Space satellite manufacturer operating out of 113,000 SF former Lockheed Martin facility and supporting 65 new jobs.
- Hahn's of Westminster (Carroll County) – Hahn’s has expanded its headquarters and manufacturing operations with a new 54,000 SF facility and doubling its workforce.
- AstraZeneca (Montgomery County) – AstraZeneca, a global biopharmaceutical company is investing \$300 million in a state-of-the-art manufacturing facility and plans to expand its workforce of 4,500 employees by 150 new positions.
- Kite Pharma (Frederick County) – Kite Pharma has expanded its global cell therapy supply chain operations. The company has constructed a 70,000 SF raw materials warehouse and added 100 new jobs.

- Blink Charging (Prince George's County) – Blink Charging, an electric vehicle charging equipment manufacturer, has established a global headquarters in Bowie, Maryland as well as expanding its manufacturing capacity with a new LEED Gold certified production facility.
- EVAPCO, Inc (Carroll County) – EVAPCO, a manufacturer of cooling and industrial refrigeration products has expanded its operations in Taneytown for the second time in a decade, adding 45,000 SF of office space with plans to create 275 new local jobs.
- Hellenic Cables (Baltimore City) – Hellenic Cables plans to invest \$300 million to build a new cable manufacturing plant in Baltimore to support offshore wind developers in the region.

Programs & Incentives

- Maryland Manufacturing 4.0 Grant Program - This program provides grants to small and mid-sized Maryland manufacturers to invest in Industry 4.0-related technologies, machinery and robotics, and digital business practices in order to remain competitive and drive growth. 20% of the funds will be reserved for small manufacturers with 3-50 employees. The FY 2025 Program saw an increase in funding for a total of \$5,000,000.
- Maryland MADE Grant Program – The Maryland MADE grant program provides grants to small Maryland manufacturers to invest in the adoption and deployment of smart manufacturing and high-performance manufacturing technologies that will increase energy efficiency, reduce carbon emissions, and enable lasting improvements. This includes FREE assessments and technology assistance to manufacturers.
- Build Our Future Grant Program – This program and fund is a financing resource operated by the Maryland Department of Commerce to provide grants for innovation infrastructure projects intended to support innovation in an eligible technology sector. Advanced manufacturing is an eligible technology sector for funding.
- The Equitech Growth Fund – The Equitech Growth Fund, managed by TEDCO, provides grants for infrastructure and workforce development initiatives that support Maryland's economic competitiveness and inclusive growth of emerging and advanced industries in the State. Advanced manufacturing is an eligible technology sector for funding.
- Maryland Small Business Development Financing Authority – Assists small businesses that are unable to qualify for business financing through normal financing channels, including businesses owned by economically and socially disadvantaged entrepreneurs.
- Maryland Industrial Partnerships – Accelerates commercialization of technology by jointly funding collaborative R&D projects between companies and University System of Maryland faculty.
- Maryland Venture Fund – State-funded seed and early-stage equity fund.
- Maryland Technology Development Corporation (TEDCO) – Facilitates technology transfer from academic and federal labs into the private sector with seed and gap funding, technical assistance, and entrepreneurial support programs.
- Enterprise Zone Tax Credit – Real property and state income tax credits for businesses locating in zones making capital investments and creating new jobs.
- Research & Development Tax Credit – Credit for R&D expenses for certified businesses.

Contact for assistance:

Benjamin McGlaughlin, Program Manager, Manufacturing
Strategic Industries & Entrepreneurship
benjamin.mcgloughlin@maryland.gov