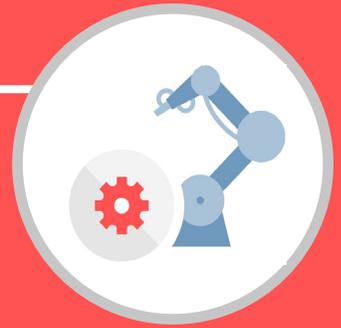
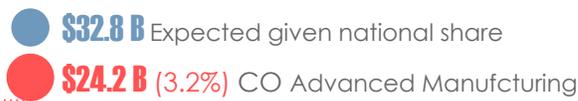


ADVANCED MANUFACTURING IN COLORADO

Colorado's geographic location and extensive infrastructure ensures a strong global supply chain. With the state's access to highly skilled workers and research institutions, Colorado is well positioned to further grow its advanced manufacturing industry, attract high-paying jobs and strengthen its competitive edge in the global economy.



Advanced Manufacturing in Colorado generated **\$24B** in output, 6.2% of the state GDP of \$390 B in 2019. Given this industry's share of national employment, this sized GDP should result in **\$32.8 B** in Advanced Manufacturing.



0.7
TIMES DENSER THAN USA

SUB-SECTOR DENSITY

Location Quotient (LQ): share of employment in Colorado vs share in US, 2019
(>1 means denser than US | =1 means equal density | <1 means less dense)

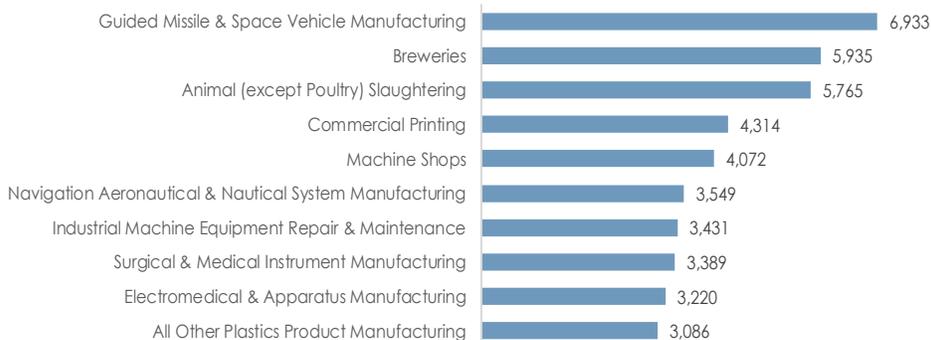


5,600
COMPANIES

143,000
EMPLOYEES

SUB-SECTOR EMPLOYMENT

Count of workers employed in Colorado, 2019



21%
JOB GROWTH 2010-2019

\$55.6 B
ANNUAL SALES

The charts above show the top 10 sub-sectors* (by industry density and total employment) of the 297 used to define Advanced Manufacturing. 59 of the sub-sectors that make up this industry in our state are more concentrated than the nation, and 37 employ more than 1,000 workers.

DATA SOURCES (FRONT & BACK): EMSI, BEA, CENSUS, BLS, WISERTRADE, FDI MARKETS, OEDIT CALCULATIONS
*SUB-SECTORS ALIGN WITH 6-DIGIT NORTH AMERICAN INDUSTRIAL CLASSIFICATION SYSTEM (NAICS) CODES

MAJOR ADVANCED MANUFACTURING COMPANIES

THE VALUE OF PERFORMANCE
NORTHROP GRUMMAN

Raytheon

TERUMOBCT
Unlocking the Potential of Blood

Cargill™

MillerCoors™

SEAGATE

LOCKHEED MARTIN

ULA
United Launch Alliance

ADVANCED MANUFACTURING TRADE 2019



TOP EXPORT PARTNERS

1. CANADA (18%)
2. MEXICO (13%)
3. SOUTH KOREA (7%)
4. CHINA (7%)
5. MALAYSIA (6%)

TOP IMPORT PARTNERS

1. CHINA (17%)
2. MEXICO (14%)
3. CANADA (12%)
4. SWITZERLAND (9%)
5. GERMANY (5%)

ADVANCED MANUFACTURING FOREIGN DIRECT INVESTMENT

TOP COUNTRIES STARTING OPERATIONS IN
COLORADO ADVANCED MANUFACTURING
2010-2019

1. GERMANY (BECKHOFF LIMTRONIK)
2. JAPAN (PANASONIC, MURATA)
3. AUSTRIA (INDIRECT AM)
4. CANADA (CREATION TECH)
5. INDIA (VIKRAM)

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COLORADO

Office of Economic Development
& International Trade

COLORADO COMPANY PROFILES

Nearly 6,000 manufacturers across a variety of business sectors such as electronics, energy, aerospace, biomedical, and food and beverage are disrupting their industries with advancements in manufacturing technologies.



GATED CORPORATION

With its global headquarters in Denver, CO, Gates Corporation employs more than 14,000 people worldwide. Founded in 1911, Gates manufactures power transmission belts and fluid power solutions for a variety of markets ranging from agriculture, construction, and energy.



VARTEGA

Vartega is focused on making carbon fiber more affordable and more accessible. Through its patented recycling process of carbon fibers, the company has decreased the amount of pre-impregnated scrap material going to landfills, and in turn developed a low-cost grade of carbon fiber.



TITAN ROBOTICS

Titan Robotics is a production additive manufacturing solutions company that also manufactures 3D printers, purpose-built machines, and custom parts. In April 2020, they began using their 3D printing to make personal protective equipment for the coronavirus pandemic.



FORGE NANO

A Colorado-startup, Forge Nano, is the global leader in precision nano-coating technology for the manufacturing of lithium-ion battery components. Forge Nano originated out of the University of Colorado Boulder and after winning \$20 M in series A funding in 2016 they moved to Louisville, CO.



SUMMIT MATERIALS, INC.

Summit Materials is a leading vertically integrated materials-based company that supplies and aggregates cement, ready-mix concrete and asphalt to the US and Canada. Since 2009, the Denver, CO-based company has completed over 70 acquisitions and an annual revenue of \$2.2 B in 2019.



WOODWARD INC.

Headquartered in Fort Collins, CO, Woodward Inc. is the world's oldest and largest independent designer, manufacturer, and service provider of control systems and components for aerospace, aircraft engines, industrial engines and turbines, power generation and mobile industrial equipment