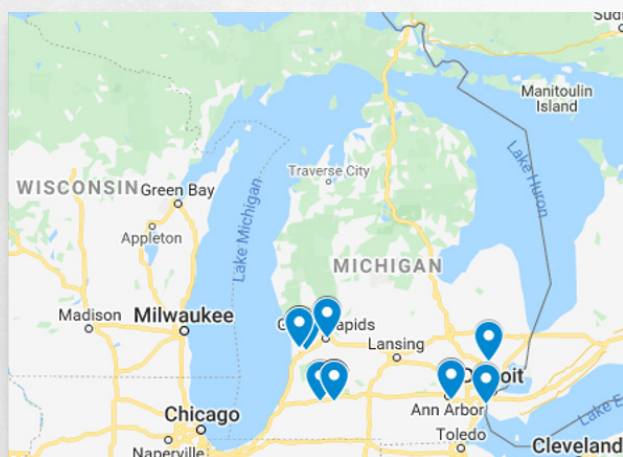


CONSTRUCTION PROJECTS MICHIGAN

Major Projects (5M+) 2015-20



Michigan Fact Sheet, 2015-20 Pharmaceutical & Biotech Mfg and R&D

Number of Major Projects
(\$5+ million)

15

Major Project Valuation
(Any major project active
between 2015 and 2020)

**\$450
million**

Total Construction Spending
(Capital and maintenance
expenditure, 2015-20)

**\$1.12
billion**

Largest Construction Projects, Pharmaceutical and Biotech Manufacturing and R&D, 2015-20

Project Owner	City	State	Years	Project Value
Pfizer Incorporated Kalamazoo Aseptic Vial/Syringe Fill/Finish Act-O-Vialexpansion/Upfit	Kalamazoo	MI	2016-19	\$106 million
Grand River Aseptic Manufacturing Incorporated Grand Rapids Aseptic Fill/Finish CDMO Building Addition	Grand Rapids	MI	2018-20	\$60 million
Par Pharmaceuticals Incorporated Rochester Generic Injectables/Topicals CMO Plant Injectable Prod Suite Addition	Rochester	MI	2017-18	\$55 million
Perrigo Company Holland Over-the-Counter OTC Tablet Plant Expansion Phase II	Holland	MI	2014-15	\$50 million
Pfizer Incorporated Kalamazoo (Portage) APIs, Sterile Injectables, Capsules Plant Warehouse Addition	Kalamazoo	MI	2016-17	\$41 million
Pfizer Incorporated Kalamazoo "Lightspeed" Covid-19 Vaccine Formulation Fill & Finish Prod Add	Kalamazoo	MI	2020	\$25 million
Cayman Chemical Company Ann Arbor APIs, Antibodies and Assay Kits CDMO Building Addition	Ann Arbor	MI	2020-21	\$20 million
Grand River Aseptic Manufacturing Incorporated Grand Rapids Fill/Finish Parenterals CDMO Finishing and Warehouse Center Add	Grand Rapids	MI	2020-21	\$20 million
Perrigo Company Holland Solid Dose CMO Warehouse Addition	Holland	MI	2019-20	\$13.6 million
Mead Johnson Nutrition Zeeland Pediatric Nutritional Products Processing Plant Unit Addition	Zeeland	MI	2015-16	\$13 million
Perrigo Company Holland Solid Dose CMO Warehouse/Distribution Addition	Holland	MI	2020-21	\$13 million

CONSTRUCTION EMPLOYMENT MICHIGAN

Construction Labor Overview, 2015-20 Pharmaceutical & Biotech Mfg and R&D

2,276,288

Total Labor Hours

(14 trades; installation and maintenance)

906,850

Union Labor Hours (est.)

(State union % in non-residential = 39.8%)

\$25,409,944

Union Earnings (est.)

Industry Analysis: Michigan

Pharmaceutical Manufacturing (2019) (NAICS = 325400)

Firms:
124

Employees:
9,367

Annual Wages:
\$806 million

Data Sources

Pharmaceutical and biotech industry data (projects, spending, labor hours demanded) from Industrial Information Resources (IIR). State industry employment data from the Bureau of Labor Statistics (QCEW) using the North American Industry Classification System (NAICS). State union percent in non-residential construction calculated by dividing union members in construction (unionstats.com) by QCEW employment in non-residential construction firms in 2019 (assumes union density equals zero in residential construction). Note: Pharmaceutical manufacturing industry statistics (above) do not represent the entirety of the pharmaceutical and biotech industry featured in this study. Most significantly, in addition to NAICS 325400 ("Pharmaceutical Manufacturing"), other industry jobs comprise a subset of NAICS 541700 ("Scientific R&D Services"). Photo Credit: Google Earth.

Michigan Construction Labor Hours by Trade, Pharmaceutical & Biotech Mfg and R&D, 2015-20

	Installation	Maintenance	Total
Boilermaker	14,550	13,216	27,766
Carpenter	61,941	107,643	169,584
Electrician	362,882	361,297	724,179
HVAC Installers	36,465	6,156	42,621
Instrumentation Tech	219,190	131,143	350,333
Insulator	32,315	31,707	64,021
Ironworker	31,555	103,913	135,468
Laborer	68,842	40,446	109,288
Millwright	50,254	119,366	169,621
Operator	79,296	30,428	109,724
Painting	11,453	30,001	41,455
Pipefitter	151,347	38,368	189,715
Scaffolding	26,237	20,889	47,127
Welder	22,381	73,005	95,386
Total	1,168,710	1,107,578	2,276,288