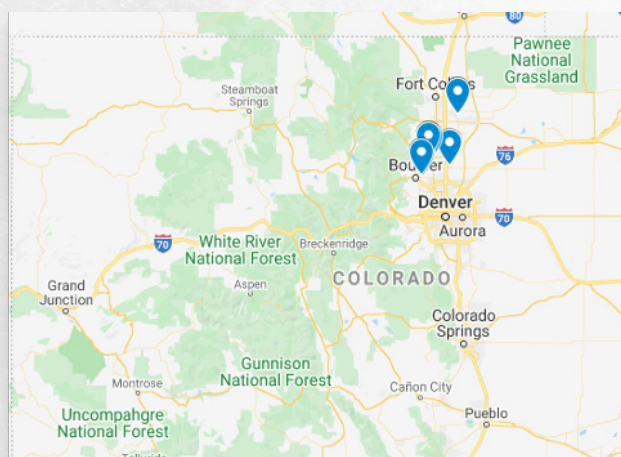


CONSTRUCTION PROJECTS COLORADO

Major Projects (5M+) 2015-20



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

Number of Major Projects
(\$5+ million)

9

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

**\$360
million**

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

**\$528
million**

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

Project Owner	City	State	Years	Project Value
Agilent Technologies Incorporated Frederick Grassroot "Project Apothecary" Nucleic Acid APIs Manufacturing Plant	Frederick	CO	2016-19	\$135 million
AGC Biologics Incorporated Boulder Bulk Bio/Purification/Fill Finish CDMO Plant Covid Project Blizzard Upg	Boulder	CO	2020-22	\$100 million
Novartis Gene Therapies Longmont Clinical-Stage/Commercial Gene Therapy Plant Renovation and Expansion	Longmont	CO	2019-20	\$55 million
MedImmune LLC Boulder Lakecentre Clinical-Scale/Bulk Biologics Plant Upfit & Recommissioning	Boulder	CO	2016-18	\$25 million
KBI Biopharma Incorporated Boulder Microbial Biologics-CMO and CRO Plant Cell Therapy Production Train Add	Boulder	CO	2017-18	\$15 million
TOLMAR Incorporated Windsor Topical Dermatologics CMO Commercial-Scale Plant Addition/Upfit Phase II	Windsor	CO	2014-16	\$12 million
TOLMAR Incorporated Windsor Semisolids, Liquids, Injectables CMO Pilot Plant Addition Phase I	Windsor	CO	2012-16	\$8 million
Amgen Incorporated Longmont Aranesp Injectables Plant Closure, Dismantlement & Sale	Longmont	CO	2015	\$5 million
Cambrex Corporation Longmont Clinical Novel Drug Manufacture & Development CDMO Plant Reno/Fit-Up	Longmont	CO	2017	\$5 million

CONSTRUCTION EMPLOYMENT COLORADO

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

1,067,607

Total Labor Hours

(14 trades; installation and maintenance)

199,655

Union Labor Hours (est.)

(State union % in non-residential = 18.7%)

\$5,434,598

Union Earnings (est.)

Industry Analysis: Colorado

Pharmaceutical Manufacturing (2019) (NAICS = 325400)

Firms:
196

Employees:
4,888

Annual Wages:
\$416 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.

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

	Installation	Maintenance	Total
Boilermaker	9,449	3,675	13,125
Carpenter	40,225	29,937	70,162
Electrician	235,659	100,480	336,139
HVAC Installers	24,322	1,679	26,000
Instrumentation Tech	142,344	36,472	178,816
Insulator	20,985	8,818	29,803
Ironworker	20,492	28,899	49,391
Laborer	44,707	11,248	55,955
Millwright	32,636	33,197	65,833
Operator	51,496	8,462	59,958
Painting	7,438	8,344	15,782
Pipefitter	98,286	10,670	108,957
Scaffolding	17,039	5,809	22,848
Welder	14,534	20,303	34,838
Total	759,612	307,995	1,067,607