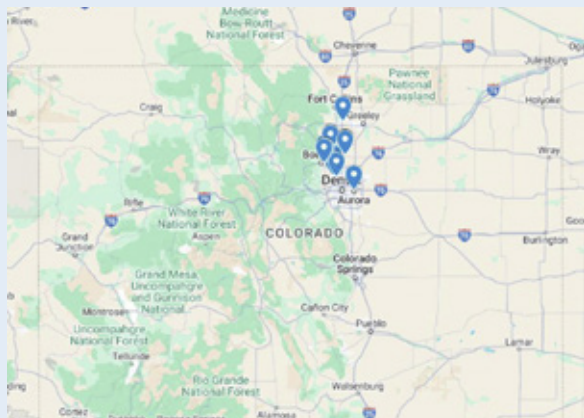


COLORADO CONSTRUCTION PROJECTS

Major Projects (\$5M+) 2019-2024



Colorado Fact Sheet, 2019-2024

Pharmaceutical & Biotech Mfg and R&D

Number of Major Projects
(\$5+ million)

29

Major Project Valuation
(Any major project active between 2019 and 2024)

\$2.14 billion

Total Construction Spending
(Capital and maintenance expenditure, 2019-2024)

\$1.75 billion

Largest Construction Projects, Pharmaceutical and Biotech Manufacturing and R&D, 2019-2024

Project Owner	City	State	Years	Project Value
Agilent Technologies Incorporated Frederick Nucleic Acid Oligonucleotide APIS "Project Olive" CdmO Plant Addition	Frederick	CO	2023-25	\$784 million
Agilent Technologies Incorporated Frederick Nucleic Acid Apis Plant Production Trains "C" & "E" Addition	Frederick	CO	2023-26	\$180 million
Agilent Technologies Incorporated Frederick Nucleic Acid APIS Manufacturing Plant Production Train "B" Addition	Frederick	CO	2021-22	\$150 million
PMB LLC Superior Grassroot Life Sciences Coal Creek Innovation Park Building 3	Superior	CO	2024-25	\$150 million
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	2020-23	\$100 million
Breakthrough Properties Boulder Brownfield Life Science Boulder 38 Campus	Boulder	CO	2023-25	\$90 million
CordenPharma Colorado Incorporated Boulder Synthetic Large-Scale Peptides, Lipids, + Injectables Plant Capacity Exp	Boulder	CO	2023-26	\$66 million
Umoja Biopharma Incorporated Louisville Brownfield Car-T Cell Immunotherapies and Fill & Finish	Louisville	CO	2021-23	\$60 million
Novartis Gene Therapies Longmont Clinical-Stage/Commercial Gene Therapy Plant Renovation and Expansion	Longmont	CO	2019-20	\$55 million

COLORADO CONSTRUCTION EMPLOYMENT

Industry Analysis: COLORADO

**Pharmaceutical
Manufacturing (2023)**
(NAICS = 325400)

Firms:
234

Employees:
5,323

Annual Wages:
\$474 million

Wages per Employee:
\$88,962

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 blue-collar QCEW employment in nonresidential construction firms in 2019 (assumes union density equals zero in residential construction; blue-collar percentage from NAICS=23 using the BLS Occupational Employment Statistics series). 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").

Construction Labor Overview, 2019-2024 Pharmaceutical & Biotech Mfg and R&D

Total Labor Hours
(14 trades; installation and maintenance) **3,503,764**

Union Labor Hours (est.)
(Estimated state union% in non-residential blue-collar construction trades = 50.7%) **439,813**

Union Earnings (est.) **\$13,447,802**

Colorado Construction Labor Hours by Trade, Pharmaceutical & Biotech Mfg and R&D, 2019-2024

	Installation	Maintenance	Total
Boilermaker	42,065	1,541	43,605
Carpenter	179,071	12,548	191,619
Electrician	1,049,086	42,116	1,091,202
HVAC Installers	101,315	757	102,072
Instrumentation Tech	633,675	15,287	648,962
Insulator	93,421	3,696	97,117
Ironworker	91,225	12,113	103,338
Laborer	199,022	4,715	203,737
Millwright	145,284	13,914	159,198
Operator	229,245	3,547	232,792
Painting	33,111	3,497	36,608
Plumber + Pipefitter	437,542	4,472	442,014
Scaffolding	75,852	2,435	78,287
Welder	64,702	8,510	73,212
Total	3,374,616	129,148	3,503,764