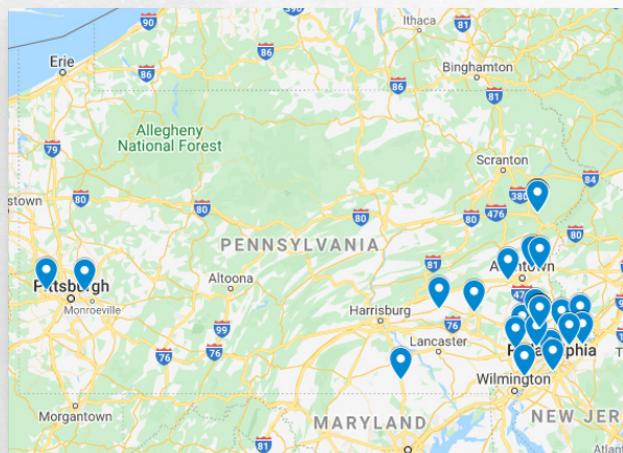


CONSTRUCTION PROJECTS PENNSYLVANIA

Major Projects (5M+) 2015-20



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

Number of Major Projects
(\$5+ million)

48

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

**\$3
billion**

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

**\$3.59
billion**

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

Project Owner	City	State	Years	Project Value
Center for Breakthrough Medicines King of Prussia Brownfield Multi-Phase Plasmid Dna/Viral Vector/Cell Bank CDMO	King of Prussia	PA	2020-22	\$1,100 million
Merck and Company Incorporated West Point Vaccine Capital Upgrade, Expansion and Addition Program	West Point	PA	2013-16	\$300 million
GlaxoSmithKline Incorporated Upper Providence Biopharma R&D Campus Smart Labs Addition/Renovation	Collegeville	PA	2015-18	\$250 million
Sanofi Pasteur Incorporated Swiftwater Influenza Vaccines Production Capacity Expansion	Swiftwater	PA	2020-22	\$186 million
Iovance Biotherapeutics Incorporated Philadelphia Grassroot Autologous Lymphocyte (TIL) Cell Therapy Facility	Philadelphia	PA	2019-21	\$125 million
Sanofi Pasteur Incorporated Swiftwater Flu Vaccines Flu Bldg (#79) & Central Utilities Plant (#80) Additions	Swiftwater	PA	2016-19	\$110 million
Merck and Company Incorporated West Point Sterile Injectable/Oral Solution Vaccine Plant Polysaccharide Bldg 63	West Point	PA	2019-21	\$90 million
Krystal Biotech Incorporated Findlay Township Grassroot Astra Rare Disease Topical Gel Gene Therapy Plant	Findlay	PA	2020-21	\$80 million
Merck and Company Incorporated West Point Sterile Injectables & Oral Solutions Vaccines Bldg 45A Renovation	West Point	PA	2020-22	\$60 million
WuXi AppTec Incorporated Philadelphia Biopharmaceutical Cell Therapy CMO Plant Expansion	Philadelphia	PA	2015-16	\$50 million
KVK Tech Incorporated Newtown Powders, Tablets & Capsules CMO Plant Addition	Newtown	PA	2017-21	\$50 million

CONSTRUCTION EMPLOYMENT PENNSYLVANIA

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

7,266,056

Total Labor Hours

(14 trades; installation and maintenance)

2,749,716

Union Labor Hours (est.)

(State union % in non-residential = 37.8%)

\$85,488,658

Union Earnings (est.)

Industry Analysis: Pennsylvania

Pharmaceutical Manufacturing (2019) (NAICS = 325400)

Firms:
143

Employees:
18,897

Annual Wages:
\$2.66 billion

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.

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

	Installation	Maintenance	Total
Boilermaker	58,532	30,660	89,192
Carpenter	249,172	249,732	498,904
Electrician	1,459,771	838,209	2,297,980
HVAC Installers	142,015	14,043	156,058
Instrumentation Tech	881,740	304,252	1,185,992
Insulator	129,993	73,560	203,552
Ironworker	126,937	241,078	368,014
Laborer	276,933	93,835	370,768
Millwright	202,158	276,930	479,089
Operator	318,987	70,592	389,580
Painting	46,073	69,603	115,677
Pipefitter	608,826	89,013	697,839
Scaffolding	105,545	48,463	154,008
Welder	90,031	169,373	259,404
Total	4,696,713	2,569,343	7,266,056