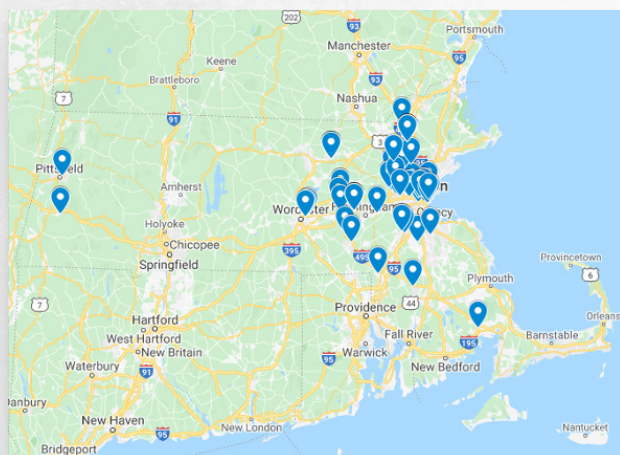


CONSTRUCTION PROJECTS MASSACHUSETTS

Major Projects (5M+) 2015-20



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

Number of Major Projects
(\$5+ million)

95

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

**\$5.88
billion**

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

**\$4.90
billion**

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

Project Owner	City	State	Years	Project Value
Novartis Institutes for Biomedical Research Cambridge Vaccine and Diagnostics R&D Center Expansion	Cambridge	MA	2012-15	\$600 million
Sanofi Genzyme Corporation Cambridge Crossing ("CX") Grassroot Genetic Rare Disease R&D Laboratory Parcel G	Cambridge	MA	2019-21	\$400 million
Bristol-Myers Squibb Company Devens Biologics and Cell Culture Plant Cell Therapy Facility (CTF) Phase 3 Add	Devens	MA	2020-23	\$350 million
Foundation Medicine Incorporated Boston Grassroot Genomic Diagnostic Laboratory	Boston	MA	2020-23	\$300 million
Sanofi Genzyme Corporation Cambridge Genetic Rare Disease Research + Development Building Addition Parcel H	Cambridge	MA	2019-21	\$293 million
Bristol-Myers Squibb Company Devens Biologics Plant Expansion	Devens	MA	2014-16	\$250 million
Sanofi Genzyme Corporation Allston Cell Culture Plant Facilities Equip Upgrade/Renovation ("Project Rena")	Allston	MA	2012-15	\$200 million
Alnylam Pharmaceuticals Incorporated Norton Grassroot RNAI-Based Therapeutics Plant	Norton	MA	2016-19	\$200 million
Pfizer Incorporated Andover Biotherapeutics, Bulk Pharmaceuticals & APIs Plant Addition	Andover	MA	2016-19	\$200 million
Vertex Pharmaceuticals Incorporated Boston Brownfield Innovation Square ISQ Cell and Gene Therapies Plant	Boston	MA	2020-21	\$185 million

CONSTRUCTION EMPLOYMENT MASSACHUSETTS

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

9,872,787

Total Labor Hours

(14 trades; installation and maintenance)

2,803,186

Union Labor Hours (est.)

(State union % in non-residential = 28.4%)

\$102,456,455

Union Earnings (est.)

Industry Analysis: Massachusetts

Pharmaceutical Manufacturing (2019)

(NAICS = 325400)

Firms:
98

Employees:
8,228

Annual Wages:
\$1.16 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.

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

	Installation	Maintenance	Total
Boilermaker	99,084	22,903	121,988
Carpenter	421,804	186,553	608,357
Electrician	2,471,137	626,151	3,097,289
HVAC Installers	242,903	10,740	253,643
Instrumentation Tech	1,492,631	227,280	1,719,911
Insulator	220,055	54,950	275,004
Ironworker	214,881	180,088	394,969
Laborer	468,800	70,096	538,896
Millwright	342,219	206,870	549,089
Operator	539,989	52,733	592,723
Painting	77,994	51,995	129,989
Pipefitter	1,030,635	66,494	1,097,129
Scaffolding	178,670	36,202	214,872
Welder	152,407	126,523	278,930
Total	7,953,209	1,919,578	9,872,787