

Ohio: State outperforms even Massachusetts and California in core biopharmaceutical growth rate

Since 2007, Ohio has outperformed even the leading biopharmaceutical hubs nationally in core biopharmaceutical employment growth* rate. As the tables to the right display, Ohio grew 1,066 jobs in biotechnology research and pharmaceutical manufacturing. While this growth trailed California, Massachusetts, and North Carolina in actual numeric growth, Ohio outperformed all states in *percentage growth* over the same period. When compared to neighboring states such as Pennsylvania and Indiana (below), Ohio's performance is striking.

Biopharmaceutical Core Industry Employment

	2007	2013	=/-#	+/- %
California	63,105	69,337	6,232	9.9%
Massachusetts	33,795	37,364	3,569	10.6%
New Jersey	50,823	36,082	-14,741	-29.0%
Pennsylvania	39,009	28,780	-10,229	-26.2%
North Carolina	26,266	28,709	2,443	9.3%
New York	24,420	24,037	-383	-1.6%
Illinois	21,057	20,894	-163	-0.8%
Indiana	20,802	19,477	-1,325	-6.4%
Texas	14,133	15,006	873	6.2%
Maryland	16,374	14,915	-1,459	-8.9%
Puerto Rico	24,580	14,004	-10,576	-43.0%
Michigan	12,925	10,859	-2,066	-16.0%
Missouri	9,466	8,911	-555	-5.9%
Ohio	7,770	8,836	1,066	13.7%
Connecticut	11,277	7,941	-3,336	-29.6%

Core Growth Rate

OH	13.7%
MA	10.6%
CA	9.9%
NC	9.3%
TX	6.2%

Core Employment Growth

CA	6,232
MA	3,569
NC	2,443
OH	1,066
TX	873



*In determining employment attributable to the drug development, or biopharmaceutica industry, two NAICS classifications, Pharmaceutical Manufacturing (NAICS 3254) and Research and Development in Biotechnology (NAICS 541711) , are considered fully part of the biopharma industry (as opposed to other industry classifications that can only be partially considered part of the industry). These are **core segments** of the industry. These two industries, therefore, are particularly appropriate for “apples to apples” comparisons to determine industry performance among the biopharma states.