



TEconomy/BIO

The Value of Bioscience Innovation in Growing Jobs and Improving Quality of Life 2016

New Hampshire

New Hampshire’s bioscience industry is growing and by 2014 employed nearly 5,300 across 257 business establishments. The state has a specialization in medical devices and equipment with a location quotient of 1.32, meaning a 32 percent greater concentration of medical device jobs in New Hampshire relative to the national average. The industry has grown by 6.9 percent since 2012 with job gains in three of its five industry subsectors. New Hampshire’s academic bioscience R&D activity is highly concentrated with its research universities spending \$185 million in 2012 which equates to a much higher than average R&D expenditure on a per capita basis. In recent years, the state has seen increases in both bioscience-related venture capital funding as well as patents.

Bioscience Performance Metrics

Summary of State Performance in Selected Bioscience-related Metrics

Metric	New Hampshire	United States	Quintile
Bioscience Industry, 2014			
Bioscience Industry Employment	5,292	1,655,680	V
Bioscience Industry Location Quotient	0.69	n/a	IV
Bioscience Industry Establishments	257	77,283	V
Academic Bioscience R&D Expenditures, FY 2014			
Bioscience R&D (\$ thousands)	\$185,143	\$38,873,926	IV
Bioscience Share of Total R&D	58%	61%	III
Bioscience R&D Per Capita	\$139	\$122	II
NIH Funding, FY 2015			
Funding (\$ thousands)	\$103,408	\$22,869,746	IV
Funding Per Capita	\$78	\$71	II
Bioscience Venture Capital Investments, 2012–15 (\$ millions)	\$189.1	\$48,742.10	III
Bioscience and Related Patents, 2012–15	1,186	101,026	III

State ranking figures for bioscience performance metrics are calculated as quintiles, where:

top quintile – I II III IV V – bottom quintile

For source notes, see end of State Profile.



New Hampshire

Industry Subsector	New Hampshire		United States	
	2014	2012–2014 Change	2014	2012–2014 Change
Agricultural Feedstock and Chemicals				
Establishments	2	-25.0%	1,811	2.2%
Employment	4	-72.3%	77,545	1.5%
Location Quotient	0.01		n/a	
Direct-Effect Employment Multiplier	15.6		18.4	
Total Employment Impact	68		1,432,125	
Average Annual Wage	\$54,967	21.7%	\$80,640	6.3%
Bioscience-Related Distribution				
Establishments	81	-2.8%	37,833	2.8%
Employment	880	25.1%	452,325	2.3%
Location Quotient	0.42		n/a	
Direct-Effect Employment Multiplier	3.0		3.0	
Total Employment Impact	2,659		1,358,820	
Average Annual Wage	\$77,319	0.6%	\$90,458	6.2%
Drugs and Pharmaceuticals				
Establishments	10	25.0%	3,301	8.0%
Employment	1,159	9.0%	293,353	3.2%
Location Quotient	0.85		n/a	
Direct-Effect Employment Multiplier	9.3		11.0	
Total Employment Impact	10,816		3,242,627	
Average Annual Wage	\$77,258	4.8%	\$117,524	10.3%
Medical Devices and Equipment				
Establishments	55	-8.3%	7,636	5.5%
Employment	2,156	-3.7%	349,045	-0.1%
Location Quotient	1.32		n/a	
Direct-Effect Employment Multiplier	4.4		4.6	
Total Employment Impact	9,430		1,596,802	
Average Annual Wage	\$64,340	4.4%	\$79,537	5.1%
Research, Testing, and Medical Laboratories				
Establishments	108	7.3%	26,702	10.2%
Employment	1,092	17.4%	483,412	3.4%
Location Quotient	0.48		n/a	
Direct-Effect Employment Multiplier	3.3		3.1	
Total Employment Impact	3,589		1,554,719	
Average Annual Wage	\$97,583	8.8%	\$97,485	6.8%
Total Bioscience Industry				
Establishments	257	0.5%	77,283	5.7%
Employment	5,292	6.9%	1,655,680	2.2%
Location Quotient	0.69		n/a	
Direct-Effect Employment Multiplier	5.1		5.5	
Total Employment Impact	26,970		9,185,094	
Average Annual Wage	\$76,181	6.4%	\$94,543	7.2%
Total Private Sector				
Establishments	47,244	1.9%	8,937,672	2.7%
Employment	541,173	2.7%	116,018,300	4.4%
Average Annual Wage	\$51,784	6.3%	\$51,148	4.3%

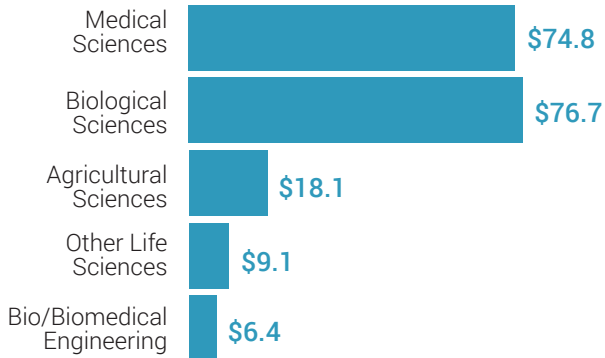
Note: U.S. employment metrics include Puerto Rico.



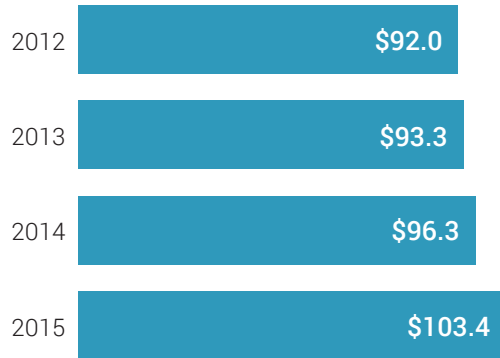
New Hampshire

Bioscience Research in New Hampshire

Bioscience Academic R&D Expenditures
\$ Millions
FY 2014

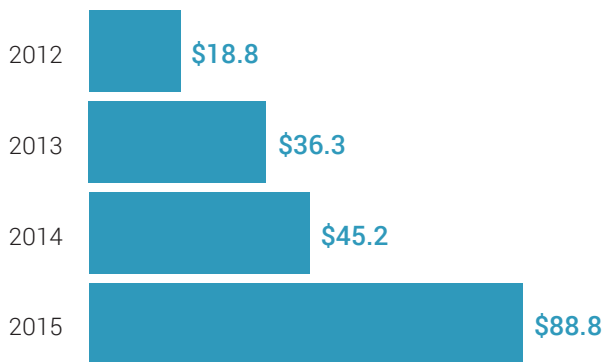


NIH Awards
\$ Millions
FY 2012-2015

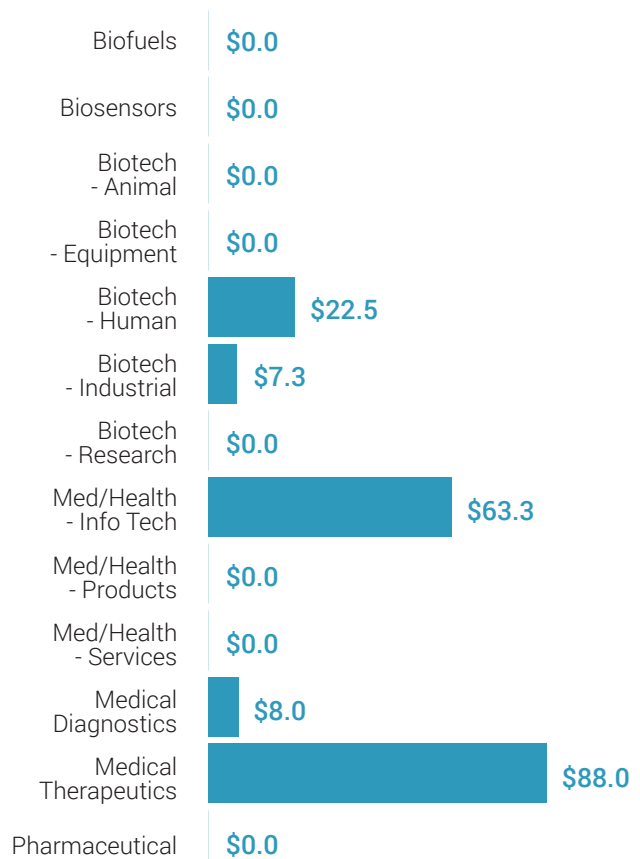


Bioscience Venture Capital in New Hampshire

Bioscience-Related Venture
Capital Investments
\$ Millions
2012-2015



Bioscience-Related Venture
Capital Investments by Segment
\$ Millions
2012-2015

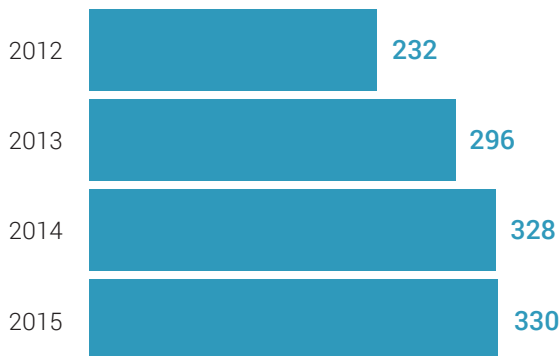




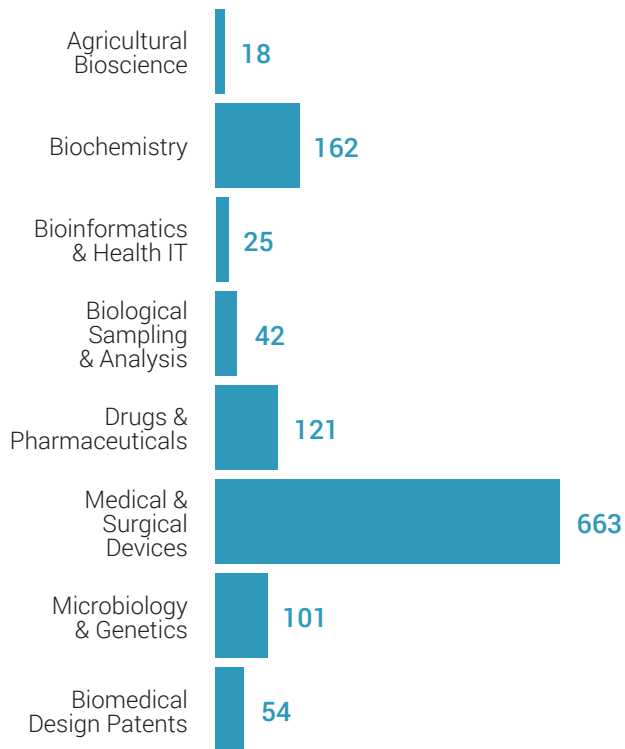
New Hampshire

Bioscience Patents in New Hampshire

Bioscience-Related U.S. Patents
2012-2015



Bioscience-Related U.S. Patents by Segment
2012-2015



Source Notes

Employment, Establishments, and Wages: U.S. Bureau of Labor Statistics, Quarterly Census of Employment and Wages (QCEW), enhanced file from the IMPLAN Group, LLC.

Employment Multipliers: IMPLAN Group, LLC state-level Input/Output models.

Academic R&D Expenditures: National Science Foundation (NSF) Higher Education Research and Development (HERD) Survey.

NIH Funding: National Institutes of Health, NIH Awards by Location & Organization (summary information within RePORT database).

Venture Capital: Thomson Reuters Thomson ONE venture capital database.

Patents: U.S. Patent & Trademark Office data from Thomson Reuters Thomson Innovation patent analysis database.

For a more detailed discussion of the data and methodology used, please see the Appendix to the full national report.

