



New Hampshire’s bioscience industry, while modest in size, has grown at a strong rate in recent years and well outpaced national job growth. From 2014 through 2016, the industry grew by 11.1 percent to reach 5,498 jobs that span 307 business establishments across the state. Job gains occurred throughout the industry with four of New Hampshire’s five major subsectors contributing to the overall growth. The state has a specialized employment concentration in the medical device and equipment subsector, which is 42 percent more concentrated relative to the national average (location quotient is 1.42). New Hampshire has a strong concentration of NIH funding relative to its size, with nearly \$109 million in NIH awards in FY 2017 equivalent to \$81 per capita, just above the national average.

## Bioscience Performance Metrics

### Summary of State Performance in Selected Bioscience-related Metrics

Metric	New Hampshire	United States	Quintile
<b>Bioscience Industry, 2016</b>			
Bioscience Industry Employment	5,498	1,743,639	V
Bioscience Industry Location Quotient	0.68	n/a	IV
Bioscience Industry Establishments	307	85,702	V
<b>Academic Bioscience R&amp;D Expenditures, FY 2016</b>			
Bioscience R&D (\$ thousands)	\$222,261	\$41,972,205	IV
Bioscience Share of Total R&D	61%	62%	III
Bioscience R&D Per Capita	\$166	\$130	I
<b>NIH Funding, FY 2017</b>			
Funding (\$ thousands)	\$108,855	\$26,150,485	IV
Funding Per Capita	\$81	\$80	II
<b>Bioscience Venture Capital Investments, 2014-17 (\$ millions)</b>	\$122.19	\$66,168.62	III
<b>Bioscience and Related Patents, 2014-17</b>	1,229	102,862	III

State ranking figures for bioscience performance metrics are calculated as quintiles, where I = top quintile, III = middle quintile, and V = bottom quintile. For source notes, see end of State Profile.

Industry Subsector	New Hampshire		United States	
	2016	2014-2016 Change	2016	2014-2016 Change
<b>Agricultural Feedstock and Industrial Biosciences</b>				
Establishments	2	-11.1%	1,709	-3.2%
Employment	4	-2.1%	68,027	-1.2%
Location Quotient	0.01		n/a	
Direct-Effect Employment Multiplier	4.30			
Total Employment Impact	18			
Average Annual Wage	\$72,022	31.0%	\$80,961	2.7%
<b>Bioscience-Related Distribution</b>				
Establishments	100	17.5%	39,149	3.8%
Employment	1,034	13.7%	469,640	3.7%
Location Quotient	0.47		n/a	
Direct-Effect Employment Multiplier	2.27			
Total Employment Impact	2,350			
Average Annual Wage	\$70,782	-7.0%	\$93,677	2.7%
<b>Drugs and Pharmaceuticals</b>				
Establishments	13	30.0%	3,754	13.7%
Employment	1,298	12.0%	299,113	2.0%
Location Quotient	0.93		n/a	
Direct-Effect Employment Multiplier	4.04			
Total Employment Impact	5,240			
Average Annual Wage	\$85,684	10.9%	\$113,815	-3.2%
<b>Medical Devices and Equipment</b>				
Establishments	57	3.6%	8,083	5.9%
Employment	2,373	10.0%	359,293	2.9%
Location Quotient	1.42		n/a	
Direct-Effect Employment Multiplier	2.69			
Total Employment Impact	6,373			
Average Annual Wage	\$68,239	6.1%	\$84,746	6.5%
<b>Research, Testing and Medical Laboratories</b>				
Establishments	135	5.6%	33,007	13.1%
Employment	789	9.7%	547,566	8.2%
Location Quotient	0.31		n/a	
Direct-Effect Employment Multiplier	2.29			
Total Employment Impact	1,809			
Average Annual Wage	\$118,195	6.8%	\$106,942	5.5%
<b>Total Bioscience Industry</b>				
Establishments	307	9.6%	85,702	7.7%
Employment	5,498	11.1%	1,743,639	4.4%
Location Quotient	0.68		n/a	
Direct-Effect Employment Multiplier	2.87			
Total Employment Impact	15,790			
Average Annual Wage	\$80,009	4.9%	\$98,961	3.1%
<b>Total Private Sector</b>				
Establishments	48,691	3.1%	9,243,034	3.4%
Employment	562,427	3.9%	120,884,570	4.2%
Average Annual Wage	\$54,193	4.7%	\$53,354	4.3%

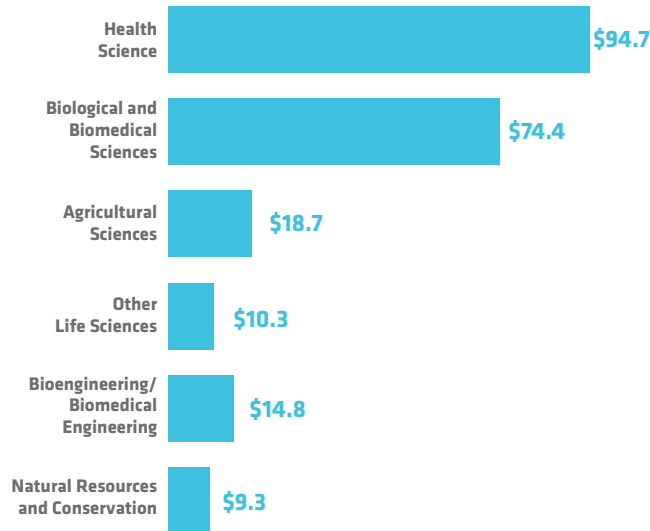
Note: U.S. employment metrics include Puerto Rico.

## Bioscience Research in New Hampshire

### Bioscience Academic R&D Expenditures

\$ Millions

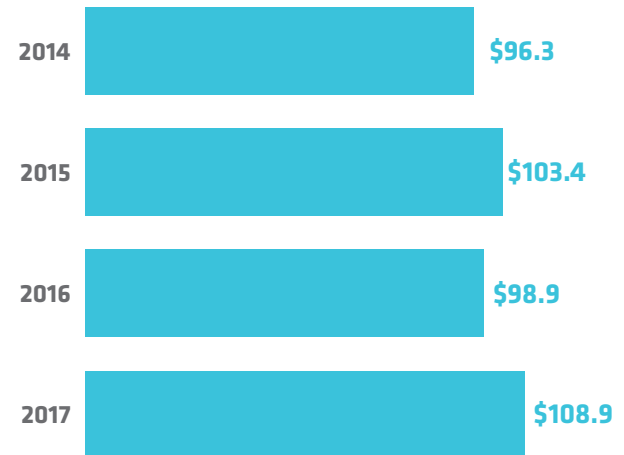
FY 2016



### NIH Awards

\$ Millions

FY 2014-2017

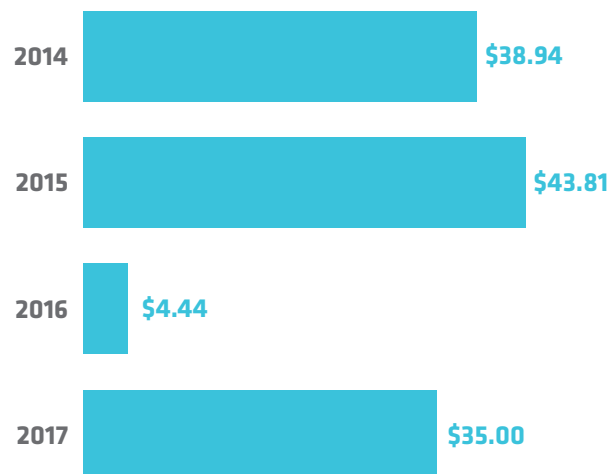


## Bioscience Venture Capital in New Hampshire

### Bioscience-Related Venture Capital Investments

\$ Millions

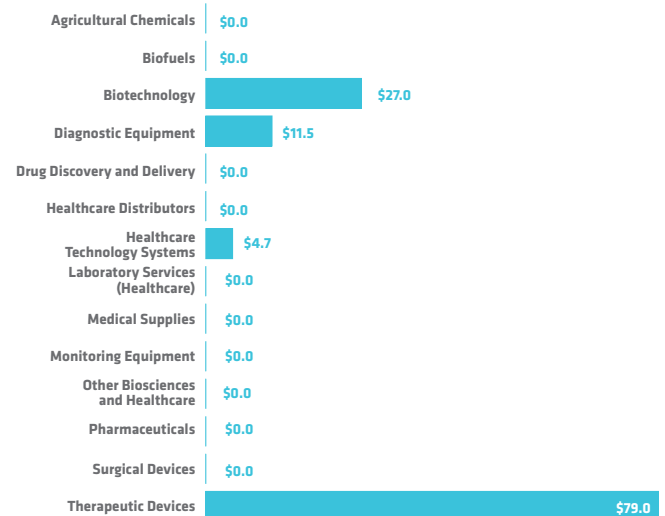
2014-2017



### Bioscience-Related Venture Capital Investments by Segment

\$ Millions

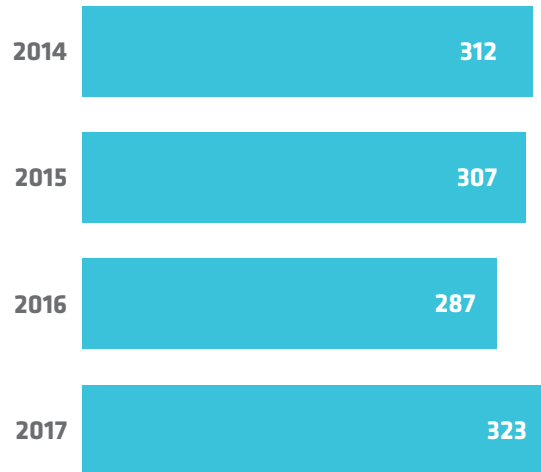
2014-2017



## Bioscience Patents in New Hampshire

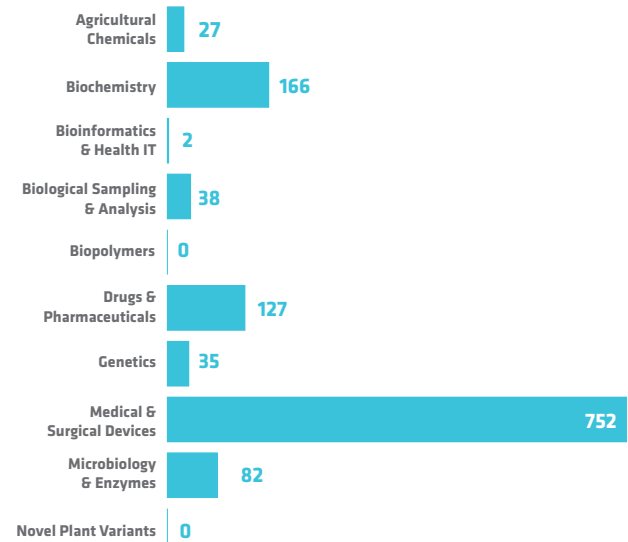
Bioscience-Related U.S. Patents

2014-2017



Bioscience-Related U.S. Patents by Segment

2014-2017



### Source Notes

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

**Employment Multipliers:** IMPLAN 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:** PitchBook Data, Inc.

**Patents:** U.S. Patent & Trademark Office data from Clarivate Analytics' Derwent Innovation patent analysis database. For a more detailed discussion of the data and methodology used, please see the Appendix to the full national report.