



Delaware

The U.S. Bioscience Industry: Fostering Innovation
and Driving America's Economy Forward

Delaware's bioscience industry employed more than 7,000 in 2021 and the state is 11 percent more concentrated in the biosciences compared with the national average (location quotient is 1.11). Delaware has a highly specialized concentration in medical device manufacturing (LQ is 2.47) and has an above-average concentration in research, testing and medical labs. The state has experienced a net decline in employment since 2018, though three of its five major industry subsectors grew their employment. Delaware bioscience companies have seen increasing venture capital investments in recent years, and in 2021 reached \$394 million in VC funding to the industry.

Bioscience Performance Metrics

Summary of State Performance in Selected Bioscience-related Metrics

Metric	Delaware	United States	Quintile
Bioscience Industry, 2021			
Bioscience Industry Employment	7,190	2,135,704	IV
Bioscience Industry Location Quotient	1.11	n/a	II
Bioscience Industry Establishments	686	127,389	IV
Academic Bioscience R&D Expenditures, FY 2020			
Bioscience R&D (\$ thousands)	\$85,650	\$51,108,737	V
Bioscience Share of Total R&D	36%	63%	V
Bioscience R&D Per Capita	\$86	\$154	IV
NIH Funding, FY 2021			
Funding (\$ thousands)	\$88,967	\$34,751,109	IV
Funding Per Capita	\$89	\$105	II
Bioscience Venture Capital Investments, 2018-21 (\$ millions)			
	\$846.73	\$197,674.54	III
Bioscience-Related Patents, 2018-21			
	749	153,072	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.

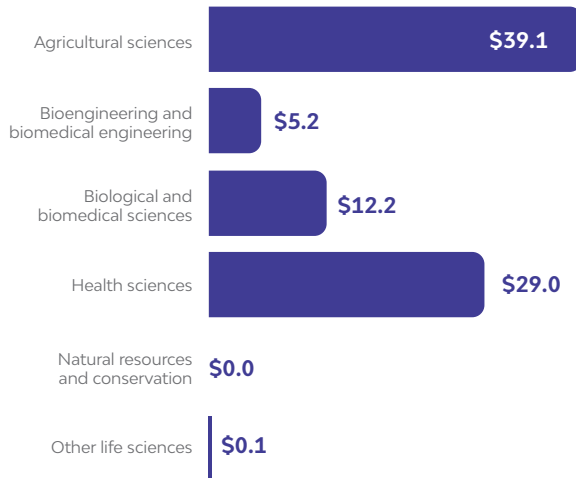
Industry Subsector		Delaware		United States	
		2021	2018–2021 Change	2021	2018–2021 Change
Agricultural Feedstock and Industrial Biosciences	Establishments	4	33.3%	1,948	10.0%
	Employment	48	22.1%	69,573	1.9%
	<i>Location Quotient</i>	0.23		n/a	
	Average Annual Wage	\$93,914	92.0%	\$91,989	13.1%
Bioscience-Related Distribution	Establishments	418	12.3%	62,697	14.7%
	Employment	1,241	18.4%	602,589	6.6%
	<i>Location Quotient</i>	0.68		n/a	
	Average Annual Wage	\$125,633	21.5%	\$121,606	15.0%
Medical Devices and Equipment	Establishments	51	3.0%	10,268	17.4%
	Employment	2,996	-3.8%	398,847	5.5%
	<i>Location Quotient</i>	2.47		n/a	
	Average Annual Wage	\$96,148	-2.4%	\$98,481	8.7%
Pharmaceuticals	Establishments	28	18.9%	5,973	34.7%
	Employment	563	11.7%	344,839	11.9%
	<i>Location Quotient</i>	0.54		n/a	
	Average Annual Wage	\$88,029	-7.5%	\$126,153	10.3%
Research, Testing, and Medical Laboratories	Establishments	184	38.7%	46,503	34.5%
	Employment	2,341	-19.6%	719,856	19.3%
	<i>Location Quotient</i>	1.07		n/a	
	Average Annual Wage	\$191,430	37.2%	\$147,396	22.0%
Total Bioscience Industry	Establishments	686	17.9%	127,389	22.3%
	Employment	7,190	-5.6%	2,135,704	11.0%
	<i>Location Quotient</i>	1.11		n/a	
	Average Annual Wage	\$131,612	15.0%	\$125,750	16.4%
Total Private Sector	Establishments	35,686	9.6%	10,665,643	9.3%
	Employment	374,884	-2.5%	123,376,557	-1.5%
	<i>Location Quotient</i>	1.00		n/a	
	Average Annual Wage	\$67,376	14.7%	\$67,826	18.9%

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

Bioscience Research in Delaware

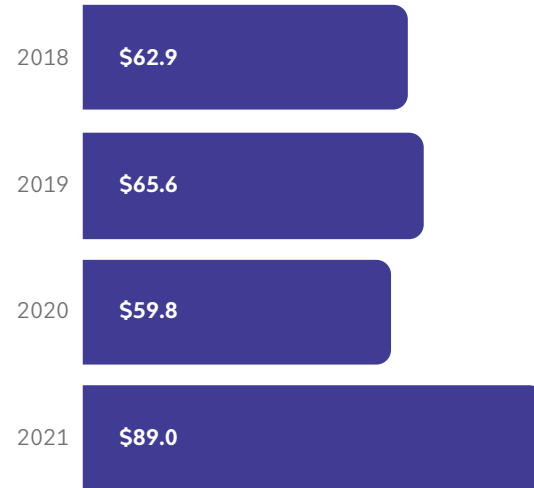
Bioscience Academic R&D Expenditures

\$ Millions, FY 2020



NIH Awards

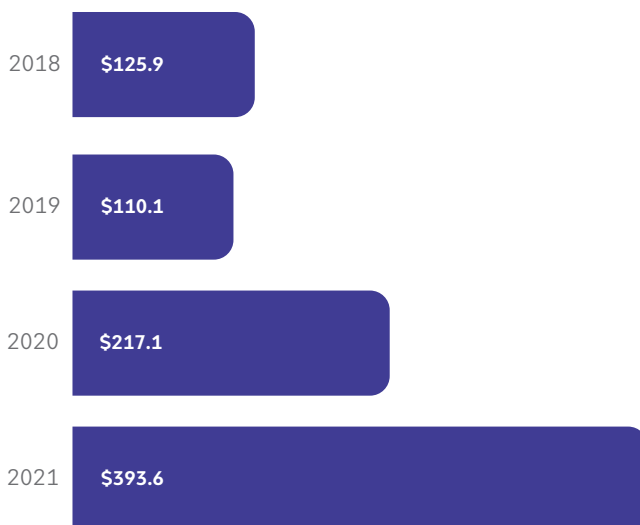
\$ Millions, FY 2018-2021



Bioscience Venture Capital in Delaware

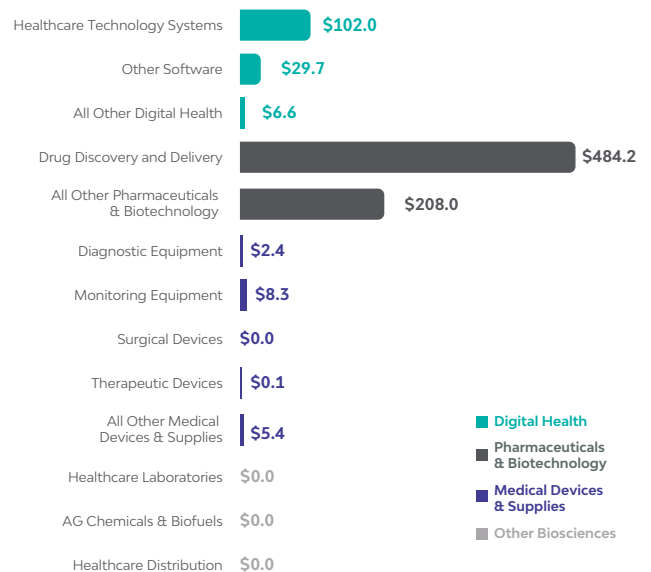
Bioscience-Related Venture Capital Investments

\$ Millions, 2018-2021



Bioscience-Related Venture Capital Investments by Segment

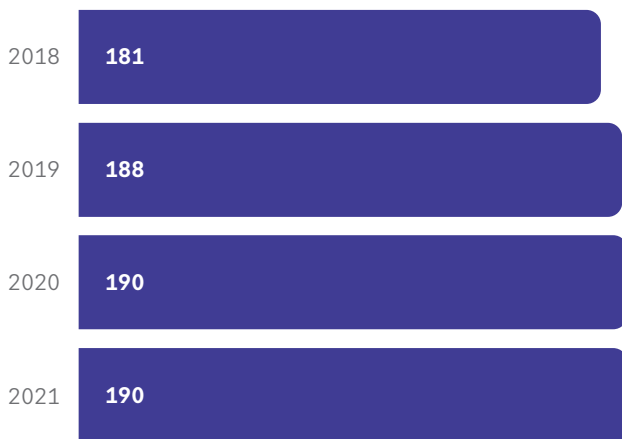
\$ Millions, 2018-2021



Bioscience Patents in Delaware

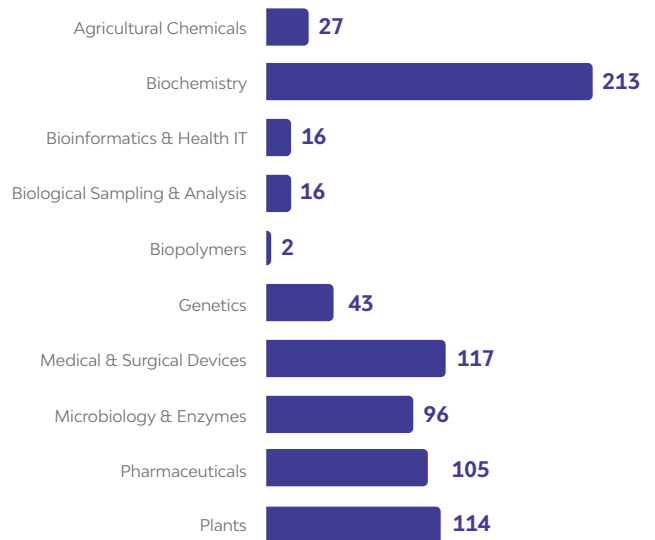
Bioscience-Related U.S. Patents

2018-2021



Bioscience-Related U.S. Patents by Segment

2018-2021



Source Notes

Employment, Establishments and Wages: U.S. Bureau of Labor Statistics, Quarterly Census of Employment and Wages (QCEW), enhanced by Lightcast (Datarun 2022.3).

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.