



Connecticut

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

Connecticut's bioscience industry employed more than 24,000 in 2021 across 2,021 individual business establishments. Bioscience industry employment grew by 9 percent from 2018 through 2021, just behind the pace of national industry growth, with four of five industry subsectors contributing to Connecticut's overall growth during this period. The state has a specialized employment concentration in medical device manufacturing and has an above-average concentration in its overall bioscience industry (a location quotient of 1.02). Connecticut has a very high concentration of bioscience-related university research with \$1.1 billion in R&D expenditures in 2020, which translates into a per capita R&D base that is twice the national average. The state has seen rising levels of venture capital funding to its bioscience companies in recent years, and in 2021 VC investments totaled nearly \$1 billion.

Bioscience Performance Metrics

Summary of State Performance in Selected Bioscience-related Metrics

Metric	Connecticut	United States	Quintile
Bioscience Industry, 2021			
Bioscience Industry Employment	24,251	2,135,704	III
Bioscience Industry Location Quotient	1.02	n/a	II
Bioscience Industry Establishments	2,021	127,389	III
Academic Bioscience R&D Expenditures, FY 2020			
Bioscience R&D (\$ thousands)	\$1,122,364	\$51,108,737	II
Bioscience Share of Total R&D	82%	63%	I
Bioscience R&D Per Capita	\$312	\$154	I
NIH Funding, FY 2021			
Funding (\$ thousands)	\$688,821	\$34,751,109	II
Funding Per Capita	\$191	\$105	I
Bioscience Venture Capital Investments, 2018-21 (\$ millions)			
	\$2,828.07	\$197,674.54	II
Bioscience-Related Patents, 2018-21			
	3,620	153,072	II

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.

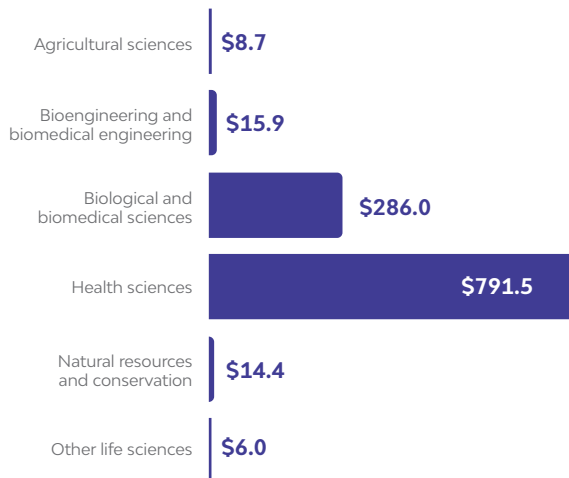
Industry Subsector		Connecticut		United States	
		2021	2018–2021 Change	2021	2018–2021 Change
Agricultural Feedstock and Industrial Biosciences	Establishments	7	-12.5%	1,948	10.0%
	Employment	230	1.4%	69,573	1.9%
	<i>Location Quotient</i>	0.30		n/a	
	Average Annual Wage	\$129,541	38.2%	\$91,989	13.1%
Bioscience- Related Distribution	Establishments	1,183	55.4%	62,697	14.7%
	Employment	6,243	10.6%	602,589	6.6%
	<i>Location Quotient</i>	0.93		n/a	
	Average Annual Wage	\$149,067	24.7%	\$121,606	15.0%
Medical Devices and Equipment	Establishments	115	-5.9%	10,268	17.4%
	Employment	7,519	-2.1%	398,847	5.5%
	<i>Location Quotient</i>	1.69		n/a	
	Average Annual Wage	\$92,400	9.2%	\$98,481	8.7%
Pharmaceuticals	Establishments	30	-7.1%	5,973	34.7%
	Employment	3,057	8.5%	344,839	11.9%
	<i>Location Quotient</i>	0.79		n/a	
	Average Annual Wage	\$162,412	-2.2%	\$126,153	10.3%
Research, Testing, and Medical Laboratories	Establishments	686	45.7%	46,503	34.5%
	Employment	7,201	22.4%	719,856	19.3%
	<i>Location Quotient</i>	0.90		n/a	
	Average Annual Wage	\$159,531	11.8%	\$147,396	22.0%
Total Bioscience Industry	Establishments	2,021	44.9%	127,389	22.3%
	Employment	24,251	9.0%	2,135,704	11.0%
	<i>Location Quotient</i>	1.02		n/a	
	Average Annual Wage	\$136,103	14.1%	\$125,750	16.4%
Total Private Sector	Establishments	127,765	8.7%	10,665,643	9.3%
	Employment	1,378,690	-4.9%	123,376,557	-1.5%
	<i>Location Quotient</i>	1.00		n/a	
	Average Annual Wage	\$78,906	15.5%	\$67,826	18.9%

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

Bioscience Research in Connecticut

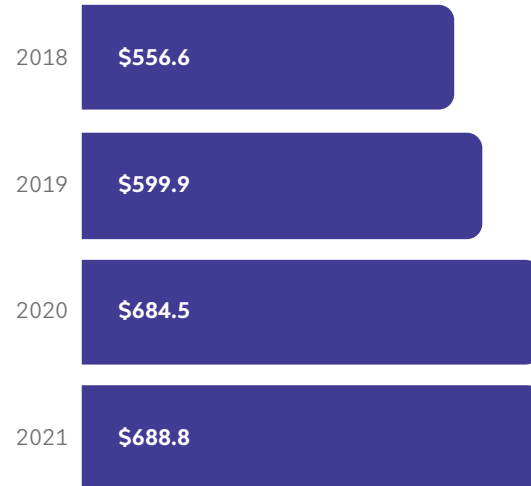
Bioscience Academic R&D Expenditures

\$ Millions, FY 2020



NIH Awards

\$ Millions, FY 2018-2021



Bioscience Venture Capital in Connecticut

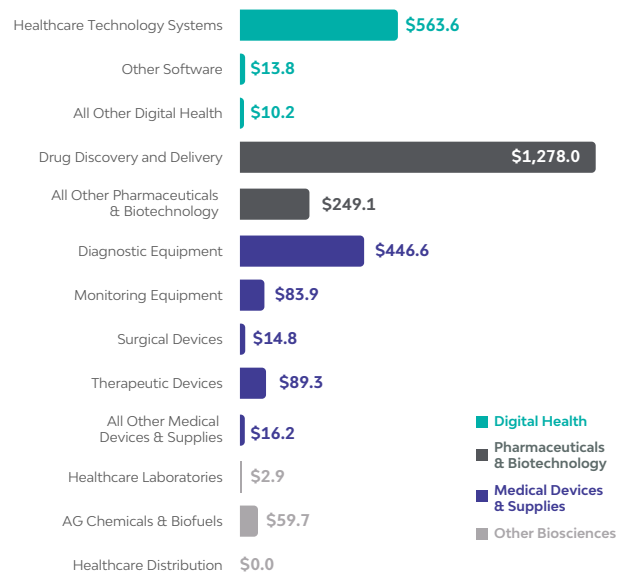
Bioscience-Related Venture Capital Investments

\$ Millions, 2018-2021



Bioscience-Related Venture Capital Investments by Segment

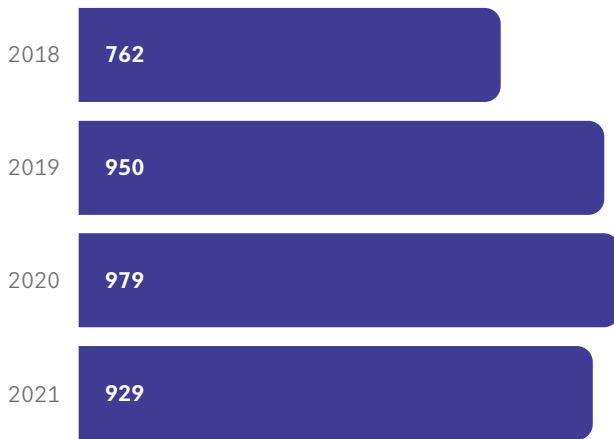
\$ Millions, 2018-2021



Bioscience Patents in Connecticut

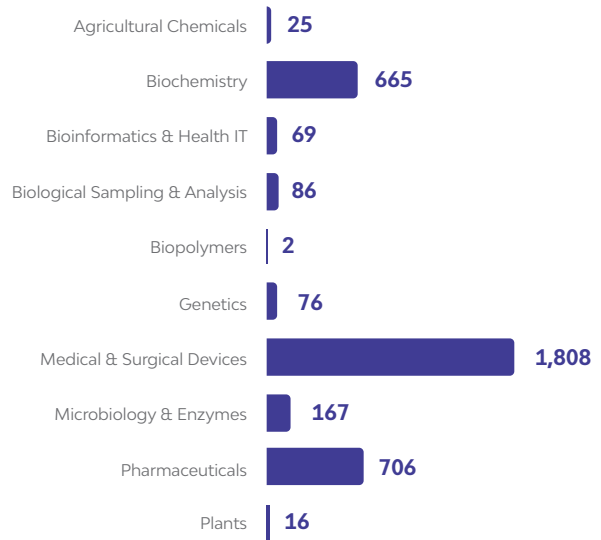
Bioscience-Related U.S. Patents

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.