



Maine

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

Maine's bioscience industry has experienced strong employment growth in recent years to reach more than 10,000 jobs across 575 individual state business establishments. The industry grew by 34 percent from 2018 through 2021, well outpacing the rate of national growth and with employment gains contributed by each of the five major bioscience industry subsectors. Maine has a 16 percent greater concentration in bioscience industry employment relative to the national average (location quotient is 1.16). The state has a highly specialized employment concentration in pharmaceuticals. Bioscience-related venture capital investments in Maine companies increased significantly in 2021 to nearly \$30 million.

Bioscience Performance Metrics

Summary of State Performance in Selected Bioscience-related Metrics

Metric	Maine	United States	Quintile
Bioscience Industry, 2021			
Bioscience Industry Employment	10,374	2,135,704	IV
Bioscience Industry Location Quotient	1.16	n/a	II
Bioscience Industry Establishments	575	127,389	V
Academic Bioscience R&D Expenditures, FY 2020			
Bioscience R&D (\$ thousands)	\$49,044	\$51,108,737	V
Bioscience Share of Total R&D	35%	63%	V
Bioscience R&D Per Capita	\$36	\$154	V
NIH Funding, FY 2021			
Funding (\$ thousands)	\$108,099	\$34,751,109	IV
Funding Per Capita	\$79	\$105	III
Bioscience Venture Capital Investments, 2018-21 (\$ millions)			
	\$49.84	\$197,674.54	V
Bioscience-Related Patents, 2018-21			
	246	153,072	V

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.

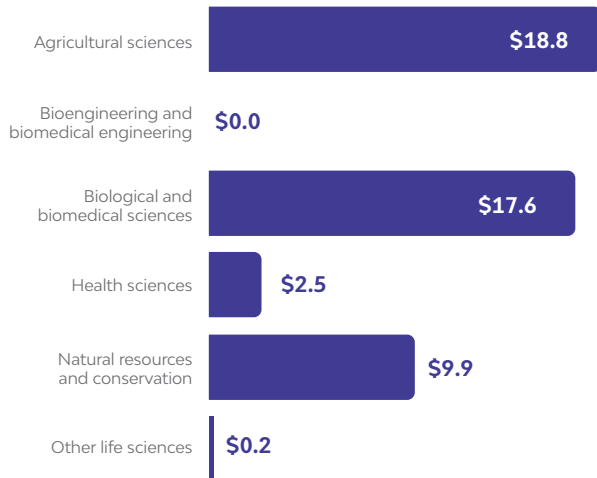
Industry Subsector		Maine		United States	
		2021	2018–2021 Change	2021	2018–2021 Change
Agricultural Feedstock and Industrial Biosciences	Establishments	13	10.6%	1,948	10.0%
	Employment	179	31.7%	69,573	1.9%
	<i>Location Quotient</i>	0.62		n/a	
	Average Annual Wage	\$54,312	13.6%	\$91,989	13.1%
Bioscience-Related Distribution	Establishments	369	17.2%	62,697	14.7%
	Employment	1,999	19.3%	602,589	6.6%
	<i>Location Quotient</i>	0.80		n/a	
	Average Annual Wage	\$118,433	14.0%	\$121,606	15.0%
Medical Devices and Equipment	Establishments	37	37.0%	10,268	17.4%
	Employment	1,645	50.3%	398,847	5.5%
	<i>Location Quotient</i>	0.99		n/a	
	Average Annual Wage	\$52,846	10.0%	\$98,481	8.7%
Pharmaceuticals	Establishments	44	58.6%	5,973	34.7%
	Employment	3,543	63.3%	344,839	11.9%
	<i>Location Quotient</i>	2.46		n/a	
	Average Annual Wage	\$109,272	-6.6%	\$126,153	10.3%
Research, Testing, and Medical Laboratories	Establishments	112	17.4%	46,503	34.5%
	Employment	3,008	13.0%	719,856	19.3%
	<i>Location Quotient</i>	1.00		n/a	
	Average Annual Wage	\$67,734	18.1%	\$147,396	22.0%
Total Bioscience Industry	Establishments	575	20.6%	127,389	22.3%
	Employment	10,374	34.1%	2,135,704	11.0%
	<i>Location Quotient</i>	1.16		n/a	
	Average Annual Wage	\$89,095	7.8%	\$125,750	16.4%
Total Private Sector	Establishments	54,953	10.3%	10,665,643	9.3%
	Employment	514,639	-0.8%	123,376,557	-1.5%
	<i>Location Quotient</i>	1.00		n/a	
	Average Annual Wage	\$54,621	21.5%	\$67,826	18.9%

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

Bioscience Research in Maine

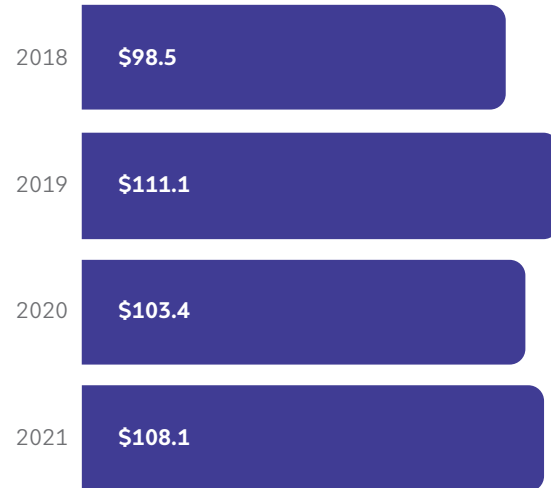
Bioscience Academic R&D Expenditures

\$ Millions, FY 2020



NIH Awards

\$ Millions, FY 2018-2021



Bioscience Venture Capital in Maine

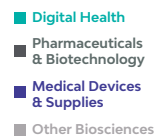
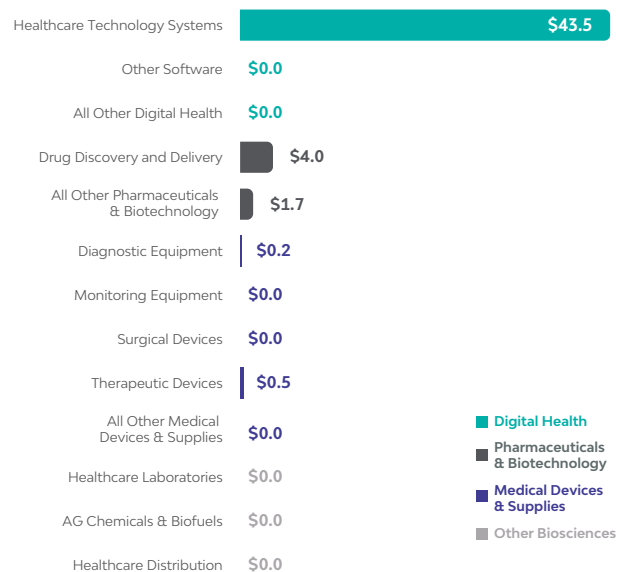
Bioscience-Related Venture Capital Investments

\$ Millions, 2018-2021



Bioscience-Related Venture Capital Investments by Segment

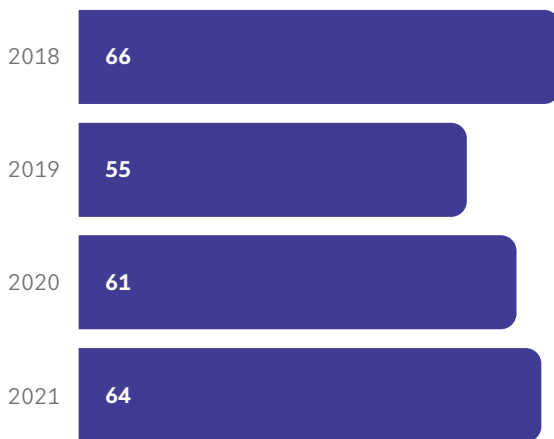
\$ Millions, 2018-2021



Bioscience Patents in Maine

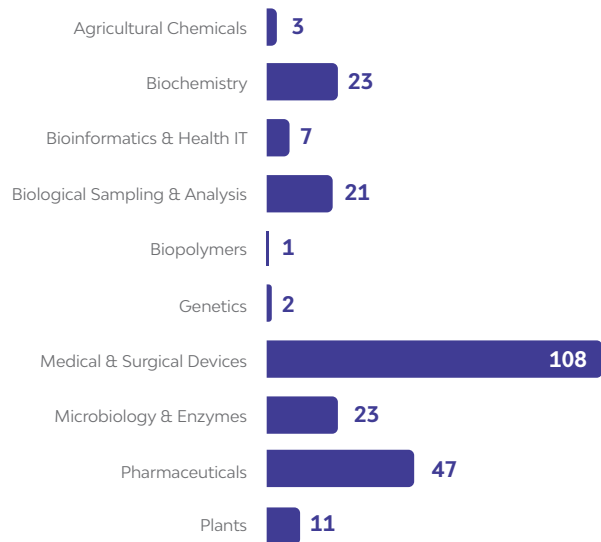
Bioscience-Related U.S. Patents

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.