Massachusetts



The U.S. Bioscience Economy:

Advancing Innovation and Strengthening States and Regions

Massachusetts is among the national leaders in the biosciences, with 145,864 industry jobs across 5,934 business establishments in 2025. Bioscience employment increased by 10.0 percent from 2021 through 2025, outpacing national growth. Massachusetts maintains a large industry base and an employment concentration more than two and a half times the national average. Research, testing, and medical laboratories, the state's largest subsector, grew by 14.6 percent and has an employment concentration five times the national average. The medical devices and equipment subsector also remains highly specialized. Annual bioscience wages averaged $219,393, 115 percent above Massachusetts' private sector average. Bioscience-related R&D expenditures at state universities totaled nearly $2.5 billion in FY 2024, while institutions received $3.4 billion in NIH funding in FY 2025. Massachusetts bioscience companies attracted $61.8 billion in venture capital investments from 2021 through 2025, and state inventors were affiliated with 18,865 bioscience-related patents.

BIOSCIENCE PERFORMANCE METRICS

Summary of State Performance in Selected Bioscience-related Metrics

METRIC		Massachusetts	United States	Quintile
Bioscience Industry, 2025	Bioscience Industry Employment	145,864	2,312,617	I
	Bioscience Industry Location Quotient	2.65	n/a	I
	Bioscience Industry Establishments	5,934	156,463	I
Academic Bioscience R&D Expenditures, FY 2024	Bioscience R&D ($ thousands)	$2,475,237	$68,902,940	I
	Bioscience Share of Total R&D	49%	63%	IV
	Bioscience R&D Per Capita	$347	$203	I
NIH Funding, FY 2025	Funding ($ thousands)	$3,411,098	$36,741,235	I
	Funding Per Capita	$477	$107	I
Bioscience Venture Capital, 2021-25	Investments ($ millions)	$61,845.18	$297,644	I
Bioscience-Related Patents, 2021-25	Total Patents	18,865	138,607	I

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.

Massachusetts

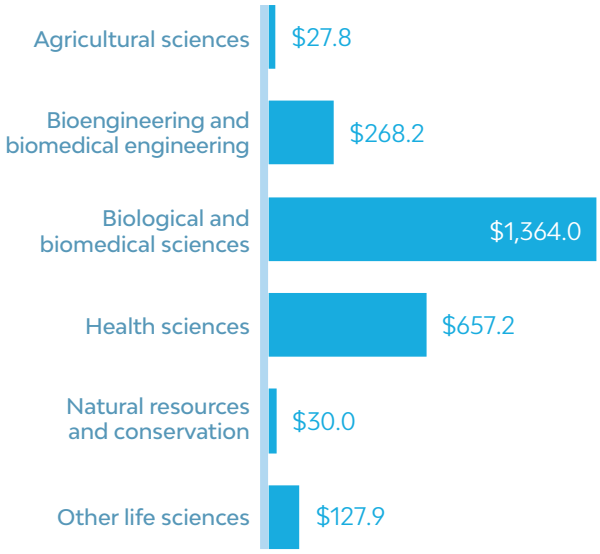
INDUSTRY SUBSECTOR		Massachusetts 2025	Massachusetts 2021–2025 Change	United States 2025	United States 2021–2025 Change
Agricultural Feedstock and Industrial Biosciences	Establishments	13	20.5%	2,158	10.7%
	Employment	136	-3.4%	71,331	2.2%
	Location Quotient	0.08		n/a	
	Average Annual Wage	$84,028	19.6%	$105,506	14.7%
Bioscience-Related Distribution	Establishments	1,586	7.6%	68,949	10.0%
	Employment	18,158	3.7%	667,651	10.7%
	Location Quotient	1.14		n/a	
	Average Annual Wage	$190,394	9.1%	$144,792	19.0%
Medical Devices and Equipment	Establishments	429	30.6%	13,595	24.6%
	Employment	23,997	-0.7%	430,363	1.9%
	Location Quotient	2.35		n/a	
	Average Annual Wage	$134,174	4.6%	$110,757	13.9%
Pharmaceuticals	Establishments	172	60.7%	7,880	31.0%
	Employment	10,181	9.7%	363,904	5.4%
	Location Quotient	1.18		n/a	
	Average Annual Wage	$212,388	21.9%	$146,506	16.3%
Research, Testing, and Medical Laboratories	Establishments	3,734	38.0%	63,881	37.0%
	Employment	93,390	14.6%	779,368	8.1%
	Location Quotient	5.04		n/a	
	Average Annual Wage	$247,891	6.3%	$167,555	13.7%
Total Bioscience Industry	Establishments	5,934	28.3%	156,463	22.1%
	Employment	145,864	10.0%	2,312,617	7.0%
	Location Quotient	2.65		n/a	
	Average Annual Wage	$219,393	8.6%	$145,188	16.0%
Total Private Sector	Establishments	287,141	6.7%	11,985,043	12.5%
	Employment	3,181,345	4.7%	133,872,972	8.5%
	Location Quotient	1.00		n/a	
	Average Annual Wage	$101,877	13.8%	$78,863	16.3%

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

BIOSCIENCE RESEARCH IN MASSACHUSETTS

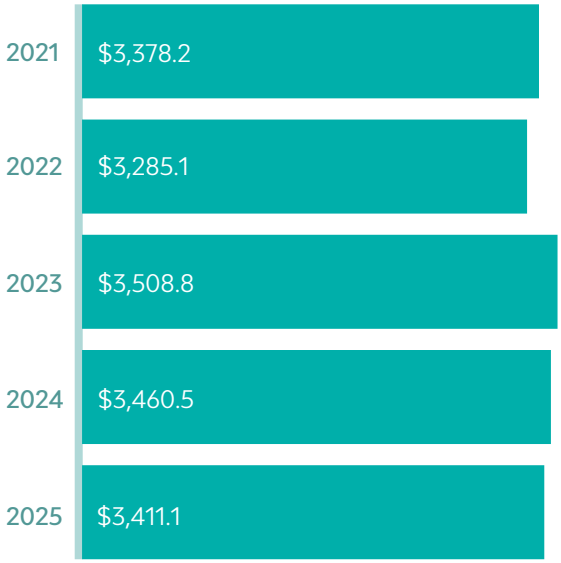
Bioscience Academic R&D Expenditures

$ Millions, FY 2024



NIH Awards

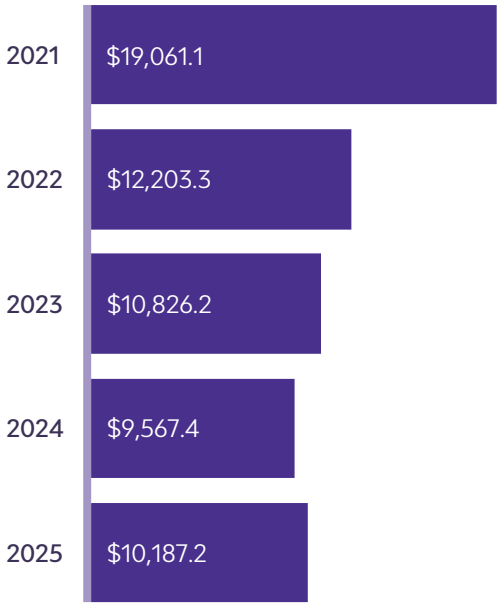
$ Millions, FY 2021-2025



BIOSCIENCE VENTURE CAPITAL IN MASSACHUSETTS

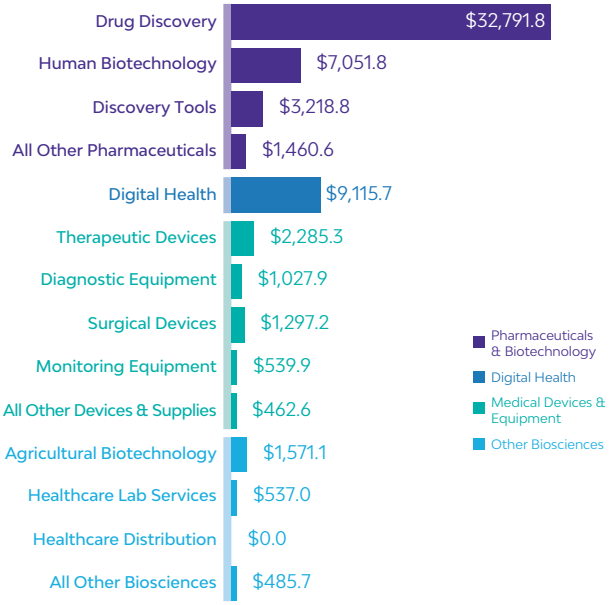
Bioscience-Related Venture Capital Investments

$ Millions, 2021-2025



Bioscience-Related Venture Capital Investments by Segment

$ Millions, 2021-2025

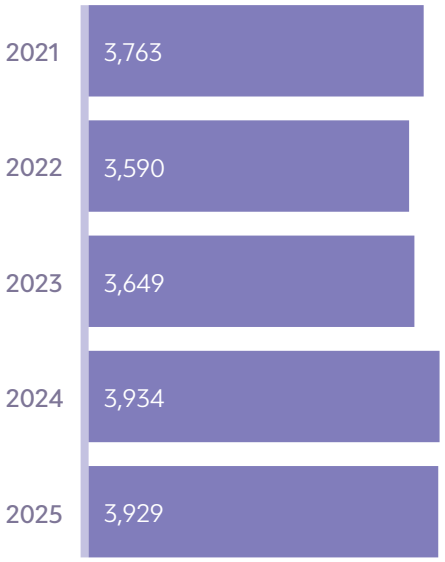


Massachusetts

BIOSCIENCE PATENTS IN MASSACHUSETTS

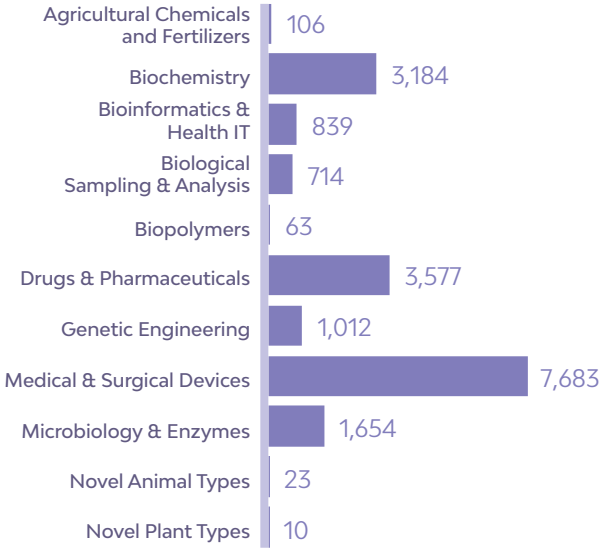
Bioscience-Related U.S. Patents

2021-2025



Bioscience-Related U.S. Patents by Segment

2021-2025



SOURCE NOTES

Employment, Establishments and Wages: U.S. Bureau of Labor Statistics, Quarterly Census of Employment and Wages (QCEW), enhanced by Lightcast (Datarun 2026.3).

Academic R&D Expenditures: National Science Foundation (NSF), National Center for Science and Engineering Statistics (NCSES), Higher Education Research and Development (HERD) Survey.

NIH Funding: National Institutes of Health, NIH Awards via the NIH RePORT portal.

Venture Capital: PitchBook Data, Inc.

Patents: U.S. Patent & Trademark Office data from the Clarivate Derwent Patent Search patent analysis database.

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

TECONOMY PARTNERS LLC

Bio Biotechnology Innovation Organization

CSBA Council of State Bioscience Associations