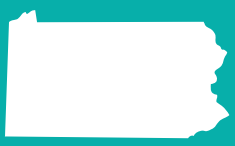
Pennsylvania



The U.S. Bioscience Economy:

Advancing Innovation and Strengthening States and Regions

Pennsylvania remains a leading bioscience state, with 101,102 industry jobs that span 4,186 business establishments in 2025. Industry employment grew by 7.8 percent since 2021, slightly ahead of the national rate. Pennsylvania's bioscience industry combines a large employment base with specialized strengths in pharmaceuticals and research, testing, and medical labs. Bioscience-related distribution grew by 27.8 percent, while research, testing, and medical laboratories, the largest subsector, increased by 6.7 percent. Annual bioscience wages averaged $155,368, 109 percent higher than Pennsylvania's private sector average. The state continues to rank among the top quintile in bioscience-related academic R&D, NIH funding, venture capital investment, and patents. Universities conducted nearly $4.2 billion in bioscience-related R&D in FY 2024, and institutions received almost $2.3 billion in NIH funding in FY 2025. Bioscience companies attracted $6.2 billion in venture capital investments from 2021 through 2025, while Pennsylvania inventors were affiliated with 8,546 bioscience-related patents.

BIOSCIENCE PERFORMANCE METRICS

Summary of State Performance in Selected Bioscience-related Metrics

METRIC		Pennsylvania	United States	Quintile
Bioscience Industry, 2025	Bioscience Industry Employment	101,102	2,312,617	I
	Bioscience Industry Location Quotient	1.09	n/a	II
	Bioscience Industry Establishments	4,186	156,463	II
Academic Bioscience R&D Expenditures, FY 2024	Bioscience R&D ($ thousands)	$4,168,126	$68,902,940	I
	Bioscience Share of Total R&D	68%	63%	II
	Bioscience R&D Per Capita	$319	$203	I
NIH Funding, FY 2025	Funding ($ thousands)	$2,263,326	$36,741,235	I
	Funding Per Capita	$173	$107	I
Bioscience Venture Capital, 2021-25	Investments ($ millions)	$6,212.98	$297,644	I
Bioscience-Related Patents, 2021-25	Total Patents	8,546	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.

Pennsylvania

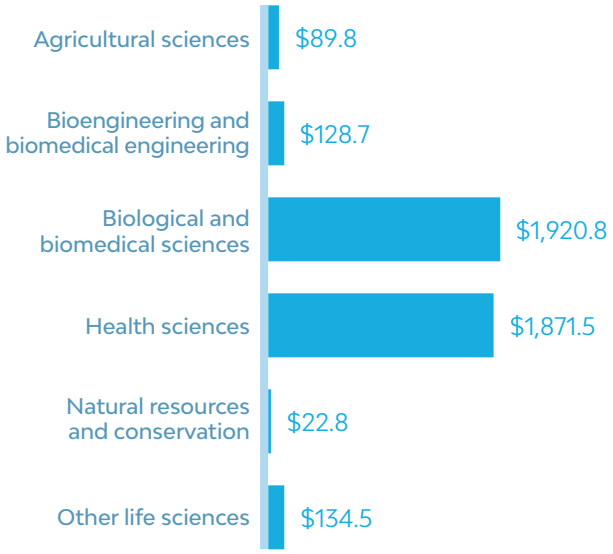
INDUSTRY SUBSECTOR		Pennsylvania 2025	Pennsylvania 2021–2025 Change	United States 2025	United States 2021–2025 Change
Agricultural Feedstock and Industrial Biosciences	Establishments	41	7.2%	2,158	10.7%
	Employment	1,248	42.2%	71,331	2.2%
	Location Quotient	0.44		n/a	
	Average Annual Wage	$89,240	24.1%	$105,506	14.7%
Bioscience-Related Distribution	Establishments	1,158	42.7%	68,949	10.0%
	Employment	22,583	27.8%	667,651	10.7%
	Location Quotient	0.84		n/a	
	Average Annual Wage	$151,635	27.2%	$144,792	19.0%
Medical Devices and Equipment	Establishments	343	12.2%	13,595	24.6%
	Employment	17,212	-3.0%	430,363	1.9%
	Location Quotient	1.00		n/a	
	Average Annual Wage	$87,413	13.4%	$110,757	13.9%
Pharmaceuticals	Establishments	156	3.5%	7,880	31.0%
	Employment	20,362	0.2%	363,904	5.4%
	Location Quotient	1.39		n/a	
	Average Annual Wage	$170,170	18.7%	$146,506	16.3%
Research, Testing, and Medical Laboratories	Establishments	2,489	35.0%	63,881	37.0%
	Employment	39,698	6.7%	779,368	8.1%
	Location Quotient	1.27		n/a	
	Average Annual Wage	$181,442	26.2%	$167,555	13.7%
Total Bioscience Industry	Establishments	4,186	32.9%	156,463	22.1%
	Employment	101,102	7.8%	2,312,617	7.0%
	Location Quotient	1.09		n/a	
	Average Annual Wage	$155,368	23.5%	$145,188	16.0%
Total Private Sector	Establishments	379,084	6.4%	11,985,043	12.5%
	Employment	5,374,806	7.5%	133,872,972	8.5%
	Location Quotient	1.00		n/a	
	Average Annual Wage	$74,390	14.9%	$78,863	16.3%

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

BIOSCIENCE RESEARCH IN PENNSYLVANIA

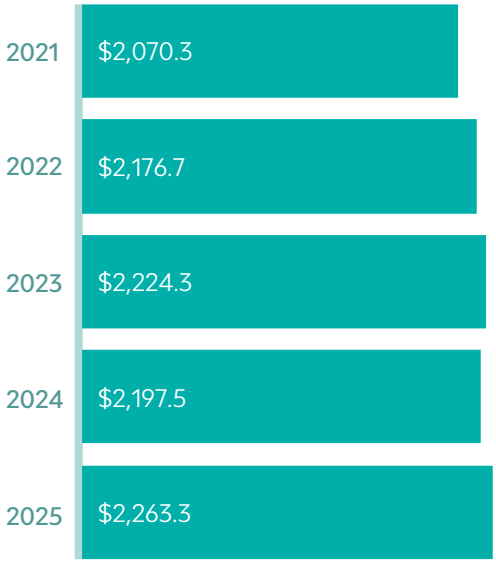
Bioscience Academic R&D Expenditures

$ Millions, FY 2024



NIH Awards

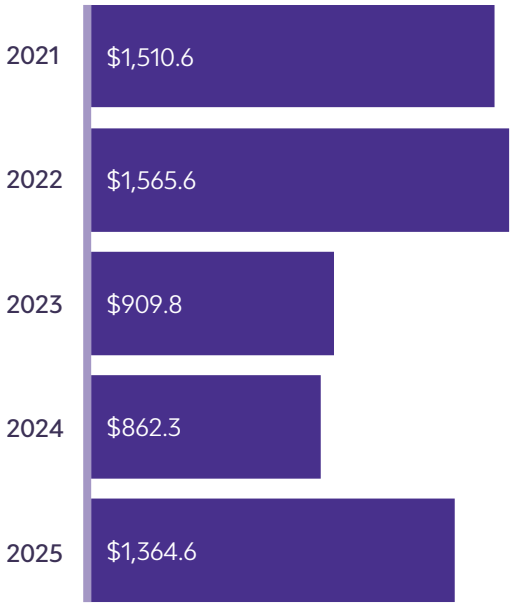
$ Millions, FY 2021-2025



BIOSCIENCE VENTURE CAPITAL IN PENNSYLVANIA

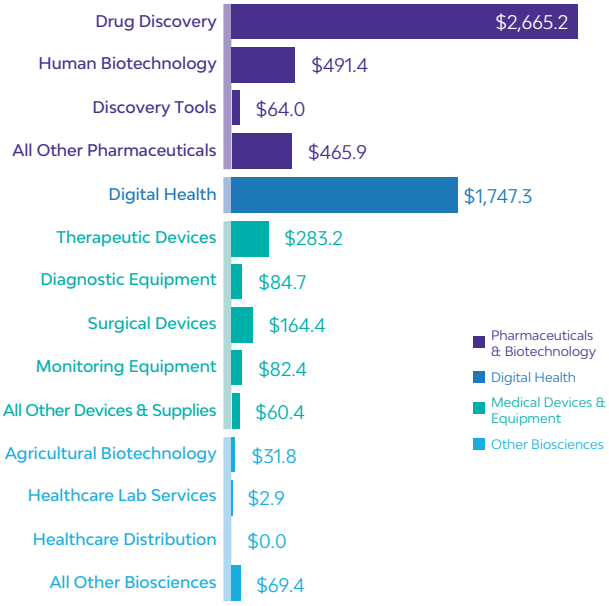
Bioscience-Related Venture Capital Investments

$ Millions, 2021-2025



Bioscience-Related Venture Capital Investments by Segment

$ Millions, 2021-2025

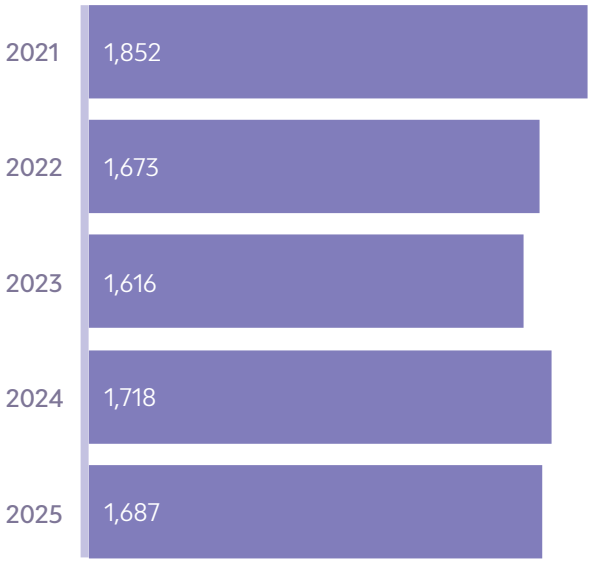


Pennsylvania

BIOSCIENCE PATENTS IN PENNSYLVANIA

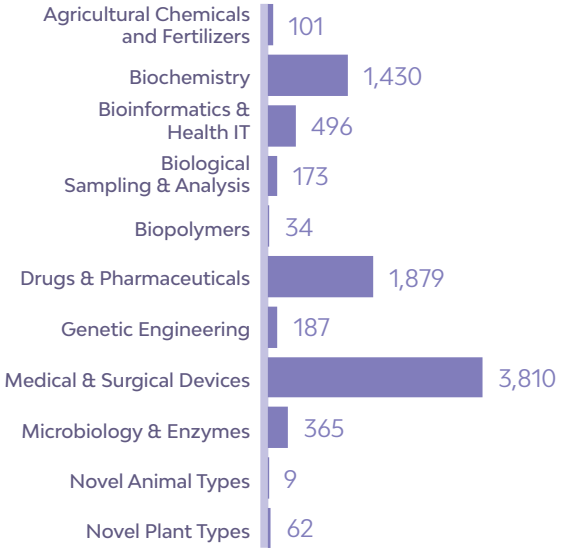
Bioscience-Related U.S. Patents

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