West Virginia



The U.S. Bioscience Economy:

Advancing Innovation and Strengthening States and Regions

West Virginia's bioscience industry employment totaled 5,312 jobs across 791 business establishments in 2025. Total bioscience employment declined by 17.8 percent from 2021 through 2025, as gains in distribution and research, testing, and medical labs were offset by declines in other subsectors. Bioscience-related distribution increased employment by 7.7 percent from 2021 through 2025, and research, testing, and medical laboratories grew by 8.0 percent. Average annual industry wages were $107,834, 80 percent higher than West Virginia's private sector average. State universities conducted $179.6 million in bioscience-related R&D in FY 2024, and institutions received $50.3 million in NIH funding in FY 2025.

BIOSCIENCE PERFORMANCE METRICS

Summary of State Performance in Selected Bioscience-related Metrics

METRIC		West Virginia	United States	Quintile
Bioscience Industry, 2025	Bioscience Industry Employment	5,312	2,312,617	V
	Bioscience Industry Location Quotient	0.55	n/a	IV
	Bioscience Industry Establishments	791	156,463	V
Academic Bioscience R&D Expenditures, FY 2024	Bioscience R&D ($ thousands)	$179,634	$68,902,940	IV
	Bioscience Share of Total R&D	63%	63%	III
	Bioscience R&D Per Capita	$102	$203	V
NIH Funding, FY 2025	Funding ($ thousands)	$50,261	$36,741,235	V
	Funding Per Capita	$28	$107	V
Bioscience Venture Capital, 2021-25	Investments ($ millions)	$29.32	$297,644	V
Bioscience-Related Patents, 2021-25	Total Patents	184	138,607	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.

West Virginia

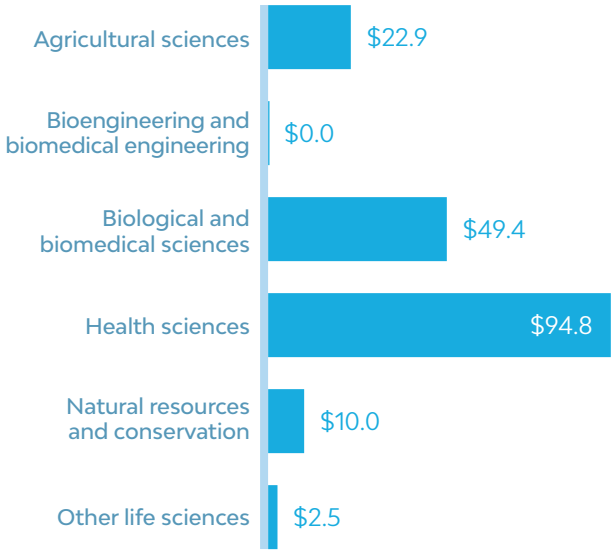
INDUSTRY SUBSECTOR		West Virginia 2025	West Virginia 2021–2025 Change	United States 2025	United States 2021–2025 Change
Agricultural Feedstock and Industrial Biosciences	Establishments	4	-23.8%	2,158	10.7%
	Employment	14	-70.9%	71,331	2.2%
	Location Quotient	0.05		n/a	
	Average Annual Wage	$105,770	84.5%	$105,506	14.7%
Bioscience-Related Distribution	Establishments	415	28.7%	68,949	10.0%
	Employment	2,186	7.7%	667,651	10.7%
	Location Quotient	0.78		n/a	
	Average Annual Wage	$129,366	20.3%	$144,792	19.0%
Medical Devices and Equipment	Establishments	31	19.6%	13,595	24.6%
	Employment	676	-9.5%	430,363	1.9%
	Location Quotient	0.38		n/a	
	Average Annual Wage	$85,682	22.8%	$110,757	13.9%
Pharmaceuticals	Establishments	42	30.7%	7,880	31.0%
	Employment	828	-61.5%	363,904	5.4%
	Location Quotient	0.54		n/a	
	Average Annual Wage	$122,473	17.3%	$146,506	16.3%
Research, Testing, and Medical Laboratories	Establishments	300	4.0%	63,881	37.0%
	Employment	1,608	8.0%	779,368	8.1%
	Location Quotient	0.49		n/a	
	Average Annual Wage	$80,346	21.6%	$167,555	13.7%
Total Bioscience Industry	Establishments	791	17.4%	156,463	22.1%
	Employment	5,312	-17.8%	2,312,617	7.0%
	Location Quotient	0.55		n/a	
	Average Annual Wage	$107,834	16.9%	$145,188	16.0%
Total Private Sector	Establishments	58,611	18.5%	11,985,043	12.5%
	Employment	560,079	6.7%	133,872,972	8.5%
	Location Quotient	1.00		n/a	
	Average Annual Wage	$59,835	20.3%	$78,863	16.3%

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

BIOSCIENCE RESEARCH IN WEST VIRGINIA

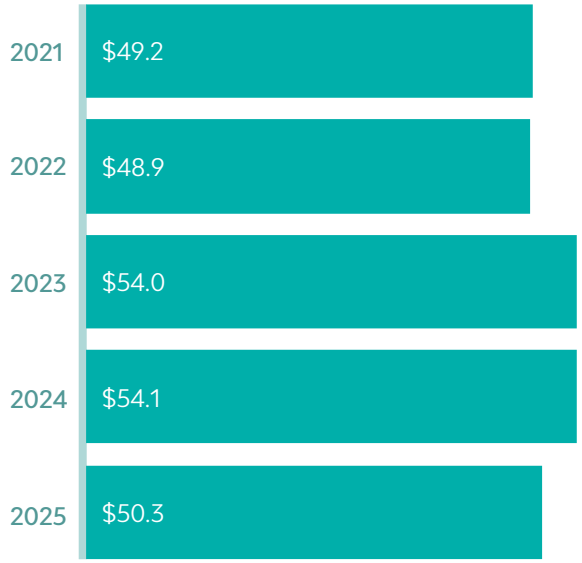
Bioscience Academic R&D Expenditures

$ Millions, FY 2024



NIH Awards

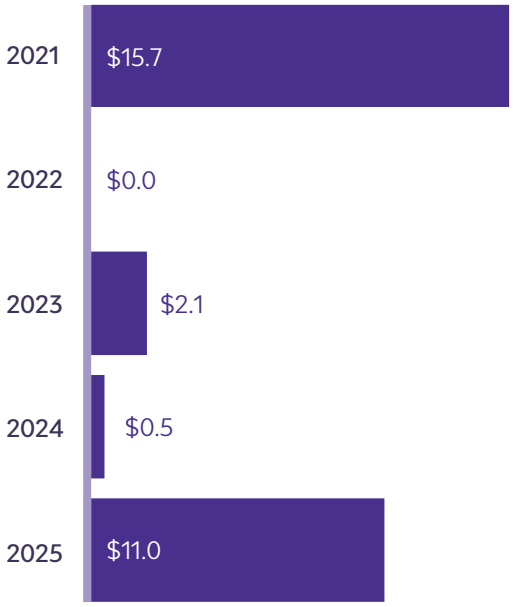
$ Millions, FY 2021-2025



BIOSCIENCE VENTURE CAPITAL IN WEST VIRGINIA

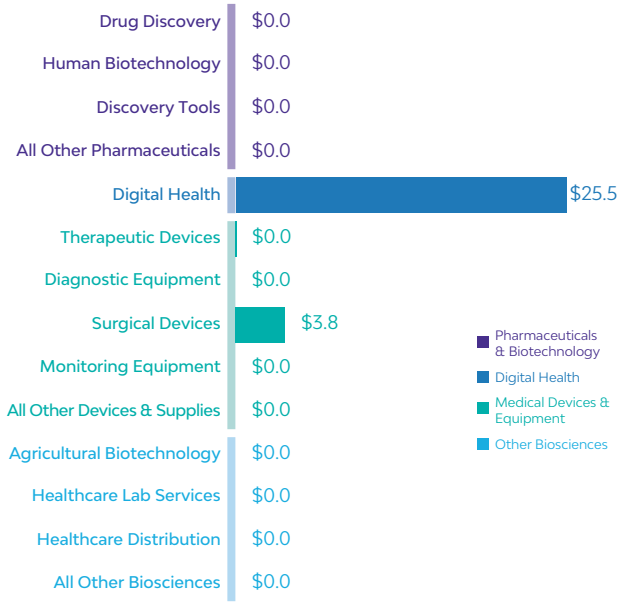
Bioscience-Related Venture Capital Investments

$ Millions, 2021-2025



Bioscience-Related Venture Capital Investments by Segment

$ Millions, 2021-2025

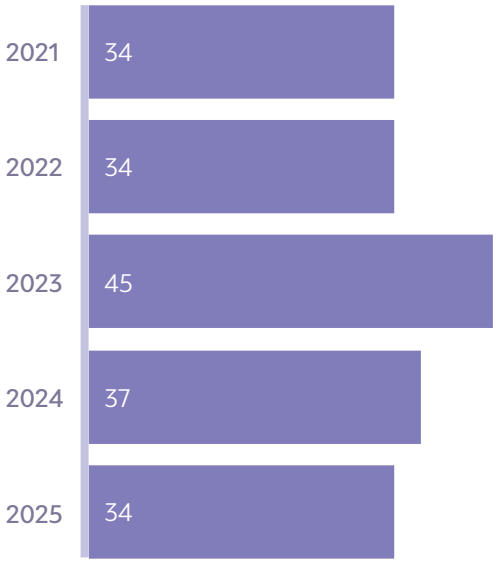


West Virginia

BIOSCIENCE PATENTS IN WEST VIRGINIA

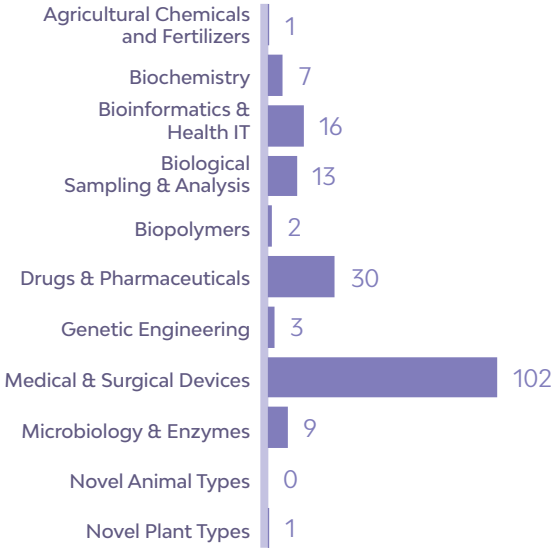
Bioscience-Related U.S. Patents

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