Virginia



The U.S. Bioscience Economy:

Advancing Innovation and Strengthening States and Regions

Virginia's bioscience firms have expanded employment by 13.3 percent since 2021, nearly twice the national rate. State bioscience businesses accounted for 32,226 jobs across 3,423 establishments in 2025. Bioscience-related distribution grew by 22.6 percent, while medical devices and equipment and research, testing, and medical laboratories also recorded double-digit gains. The research and laboratories subsector remains the industry's largest, accounting for approximately 44 percent of bioscience employment. Industry wages averaged $117,717, 47 percent higher than Virginia's private sector average. State universities conducted nearly $1.3 billion in bioscience-related R&D in FY 2024, while institutions received $624.9 million in NIH funding in FY 2025. Venture capital investments in Virginia bioscience companies totaled $2.6 billion from 2021 through 2025.

BIOSCIENCE PERFORMANCE METRICS

Summary of State Performance in Selected Bioscience-related Metrics

METRIC		Virginia	United States	Quintile
Bioscience Industry, 2025	Bioscience Industry Employment	32,226	2,312,617	III
	Bioscience Industry Location Quotient	0.55	n/a	IV
	Bioscience Industry Establishments	3,423	156,463	II
Academic Bioscience R&D Expenditures, FY 2024	Bioscience R&D ($ thousands)	$1,266,105	$68,902,940	II
	Bioscience Share of Total R&D	57%	63%	III
	Bioscience R&D Per Capita	$144	$203	IV
NIH Funding, FY 2025	Funding ($ thousands)	$624,945	$36,741,235	II
	Funding Per Capita	$70	$107	III
Bioscience Venture Capital, 2021-25	Investments ($ millions)	$2,635.49	$297,644	II
Bioscience-Related Patents, 2021-25	Total Patents	2,554	138,607	III

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.

Virginia

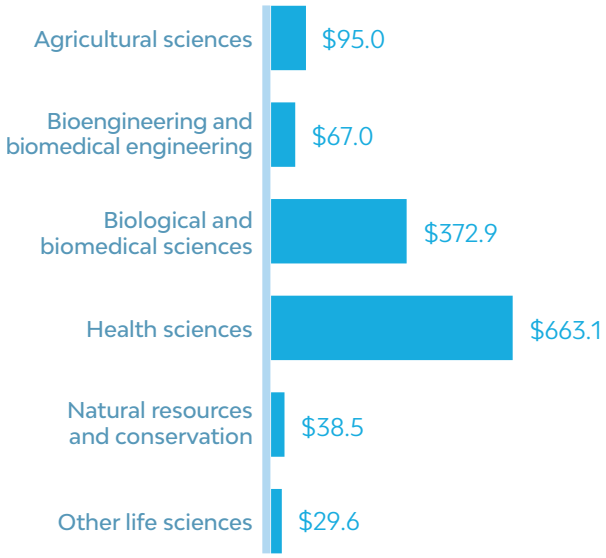
INDUSTRY SUBSECTOR		Virginia 2025	Virginia 2021–2025 Change	United States 2025	United States 2021–2025 Change
Agricultural Feedstock and Industrial Biosciences	Establishments	46	37.0%	2,158	10.7%
	Employment	543	9.3%	71,331	2.2%
	Location Quotient	0.30		n/a	
	Average Annual Wage	$83,594	15.4%	$105,506	14.7%
Bioscience-Related Distribution	Establishments	1,040	14.3%	68,949	10.0%
	Employment	10,889	22.6%	667,651	10.7%
	Location Quotient	0.64		n/a	
	Average Annual Wage	$128,916	19.7%	$144,792	19.0%
Medical Devices and Equipment	Establishments	423	38.5%	13,595	24.6%
	Employment	3,537	10.1%	430,363	1.9%
	Location Quotient	0.32		n/a	
	Average Annual Wage	$105,994	36.2%	$110,757	13.9%
Pharmaceuticals	Establishments	237	41.6%	7,880	31.0%
	Employment	2,938	1.2%	363,904	5.4%
	Location Quotient	0.32		n/a	
	Average Annual Wage	$112,139	10.3%	$146,506	16.3%
Research, Testing, and Medical Laboratories	Establishments	1,677	27.5%	63,881	37.0%
	Employment	14,318	10.7%	779,368	8.1%
	Location Quotient	0.72		n/a	
	Average Annual Wage	$114,536	17.1%	$167,555	13.7%
Total Bioscience Industry	Establishments	3,423	25.3%	156,463	22.1%
	Employment	32,226	13.3%	2,312,617	7.0%
	Location Quotient	0.55		n/a	
	Average Annual Wage	$117,717	19.4%	$145,188	16.0%
Total Private Sector	Establishments	311,199	7.6%	11,985,043	12.5%
	Employment	3,404,471	8.2%	133,872,972	8.5%
	Location Quotient	1.00		n/a	
	Average Annual Wage	$80,161	17.6%	$78,863	16.3%

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

BIOSCIENCE RESEARCH IN VIRGINIA

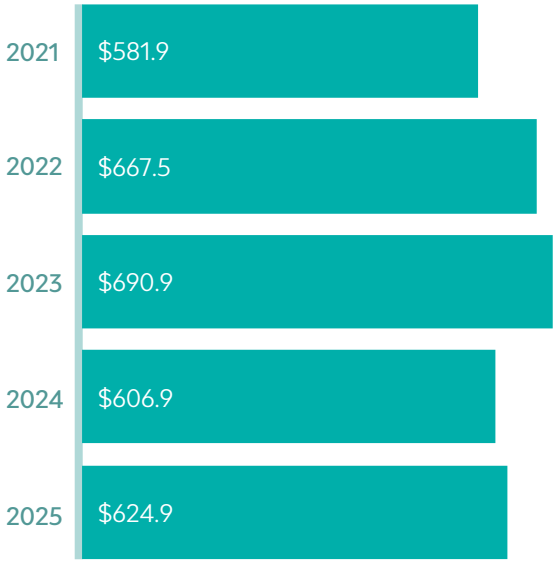
Bioscience Academic R&D Expenditures

$ Millions, FY 2024



NIH Awards

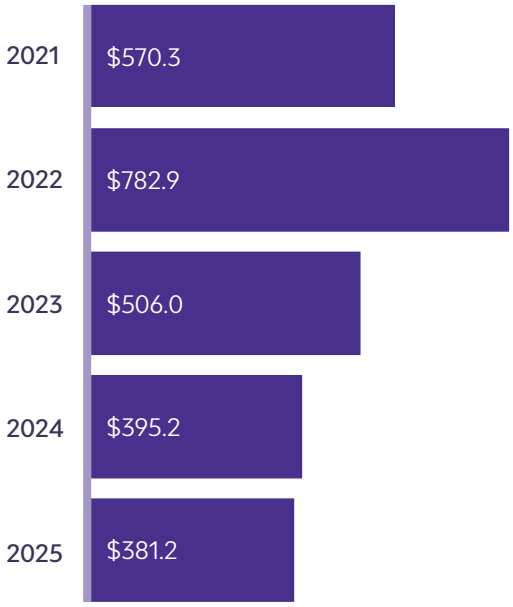
$ Millions, FY 2021-2025



BIOSCIENCE VENTURE CAPITAL IN VIRGINIA

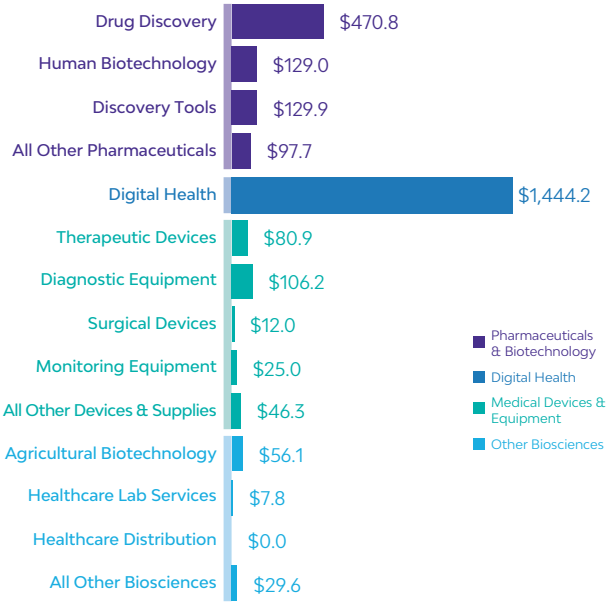
Bioscience-Related Venture Capital Investments

$ Millions, 2021-2025



Bioscience-Related Venture Capital Investments by Segment

$ Millions, 2021-2025

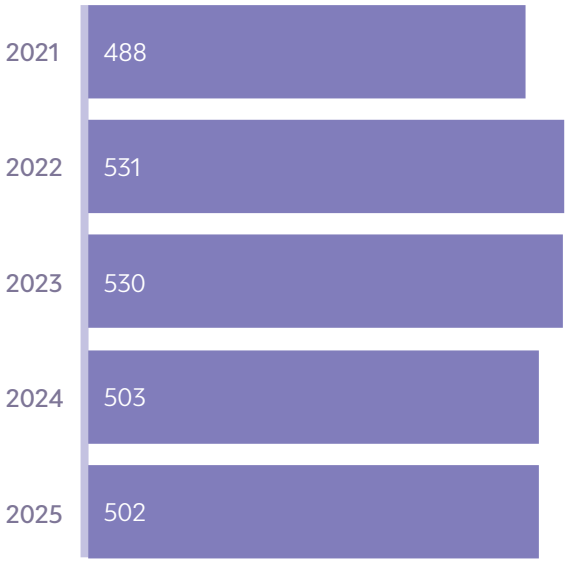


Virginia

BIOSCIENCE PATENTS IN VIRGINIA

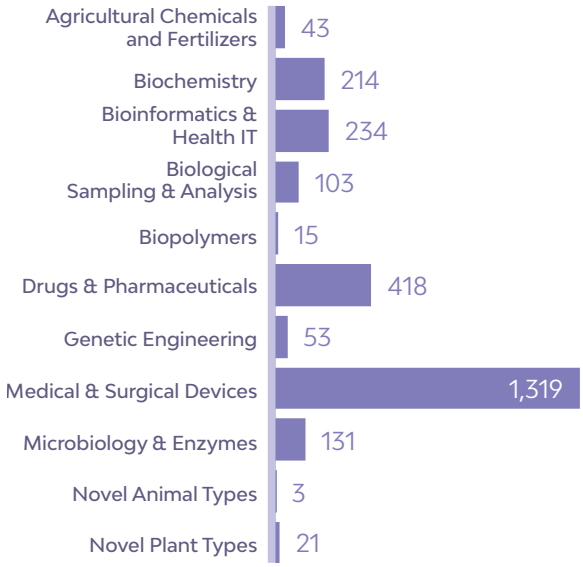
Bioscience-Related U.S. Patents

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