



District of Columbia

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

Washington, D.C. bioscience firms employed 3,387 in 2021 across 484 individual business establishments. Bioscience employers increased their payrolls in the District by 5.8 percent from 2018 through 2021. Nearly all of the District's bioscience employment, and most of its establishments are in the research, testing and medical labs subsector. The District's universities performed nearly \$376 million in bioscience-related R&D in 2020, a very high concentration relative to the local population, reflecting the sizable research activities of its two research universities. Bioscience-related VC investments increased significantly in 2021, reaching \$158 million.

Bioscience Performance Metrics

Summary of State Performance in Selected Bioscience-related Metrics

Metric	District of Columbia	United States	Quintile
Bioscience Industry, 2021			
Bioscience Industry Employment	3,387	2,135,704	V
Bioscience Industry Location Quotient	0.40	n/a	V
Bioscience Industry Establishments	484	127,389	V
Academic Bioscience R&D Expenditures, FY 2020			
Bioscience R&D (\$ thousands)	\$375,988	\$51,108,737	III
Bioscience Share of Total R&D	64%	63%	III
Bioscience R&D Per Capita	\$545	\$154	I
NIH Funding, FY 2021			
Funding (\$ thousands)	\$221,784	\$34,751,109	III
Funding Per Capita	\$331	\$105	I
Bioscience Venture Capital Investments, 2018-21 (\$ millions)			
	\$283.44	\$197,674.54	III
Bioscience-Related Patents, 2018-21			
	437	153,072	IV

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.

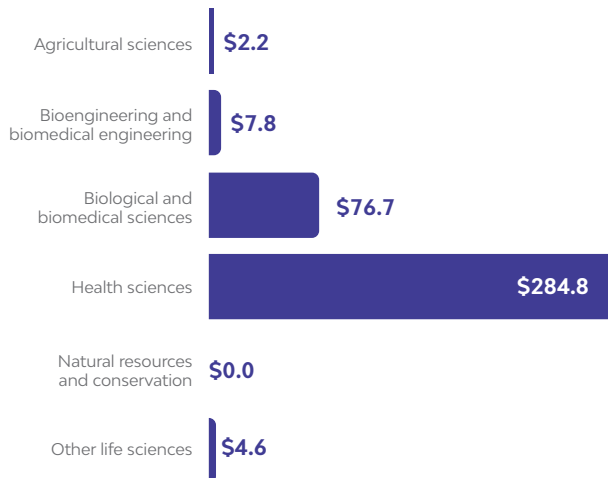
Industry Subsector		District of Columbia		United States	
		2021	2018–2021 Change	2021	2018–2021 Change
Agricultural Feedstock and Industrial Biosciences	Establishments	1	0.0%	1,948	10.0%
	Employment	1	-32.6%	69,573	1.9%
	<i>Location Quotient</i>	0.00		n/a	
	Average Annual Wage	\$52,793	-62.7%	\$91,989	13.1%
Bioscience- Related Distribution	Establishments	191	56.4%	62,697	14.7%
	Employment	526	38.9%	602,589	6.6%
	<i>Location Quotient</i>	0.22		n/a	
	Average Annual Wage	\$274,161	5.1%	\$121,606	15.0%
Medical Devices and Equipment	Establishments	15	13.7%	10,268	17.4%
	Employment	31	107.1%	398,847	5.5%
	<i>Location Quotient</i>	0.02		n/a	
	Average Annual Wage	\$164,956	11.8%	\$98,481	8.7%
Pharmaceuticals	Establishments	18	0.0%	5,973	34.7%
	Employment	110	20.4%	344,839	11.9%
	<i>Location Quotient</i>	0.08		n/a	
	Average Annual Wage	\$361,614	20.7%	\$126,153	10.3%
Research, Testing, and Medical Laboratories	Establishments	260	51.3%	46,503	34.5%
	Employment	2,719	0.1%	719,856	19.3%
	<i>Location Quotient</i>	0.96		n/a	
	Average Annual Wage	\$131,864	15.2%	\$147,396	22.0%
Total Bioscience Industry	Establishments	484	48.7%	127,389	22.3%
	Employment	3,387	5.8%	2,135,704	11.0%
	<i>Location Quotient</i>	0.40		n/a	
	Average Annual Wage	\$161,710	17.8%	\$125,750	16.4%
Total Private Sector	Establishments	44,123	12.2%	10,665,643	9.3%
	Employment	485,484	-9.2%	123,376,557	-1.5%
	<i>Location Quotient</i>	1.00		n/a	
	Average Annual Wage	\$108,196	22.7%	\$67,826	18.9%

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

Bioscience Research in District of Columbia

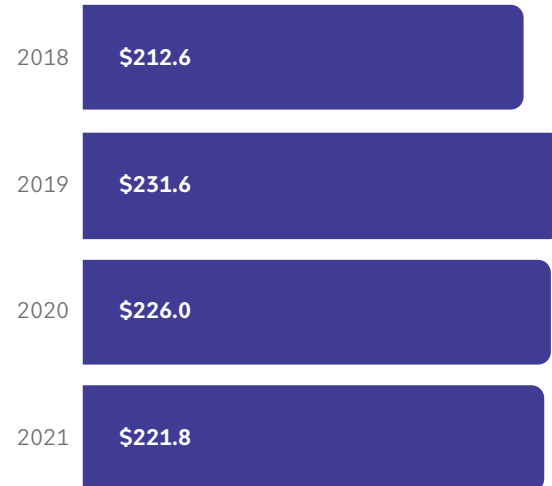
Bioscience Academic R&D Expenditures

\$ Millions, FY 2020



NIH Awards

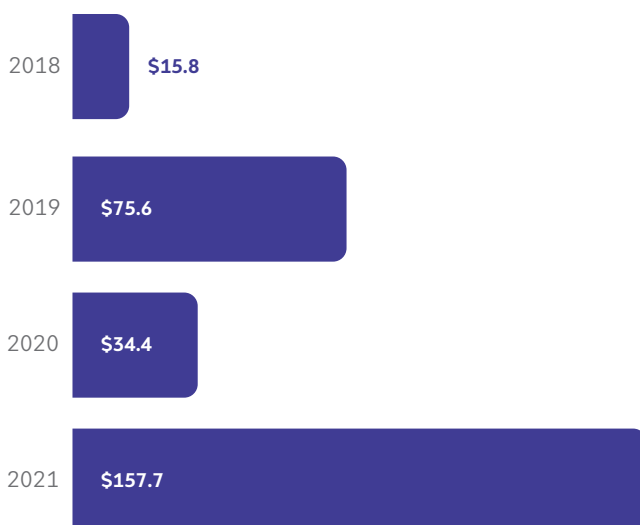
\$ Millions, FY 2018-2021



Bioscience Venture Capital in District of Columbia

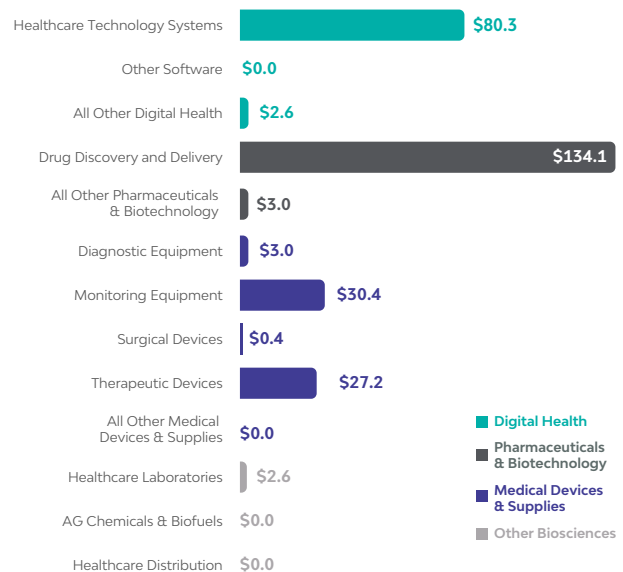
Bioscience-Related Venture Capital Investments

\$ Millions, 2018-2021



Bioscience-Related Venture Capital Investments by Segment

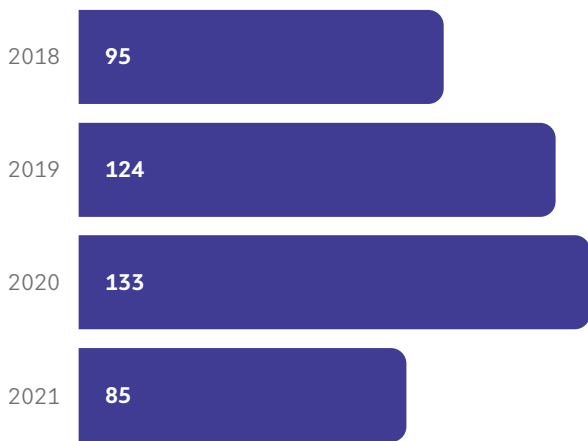
\$ Millions, 2018-2021



Bioscience Patents in District of Columbia

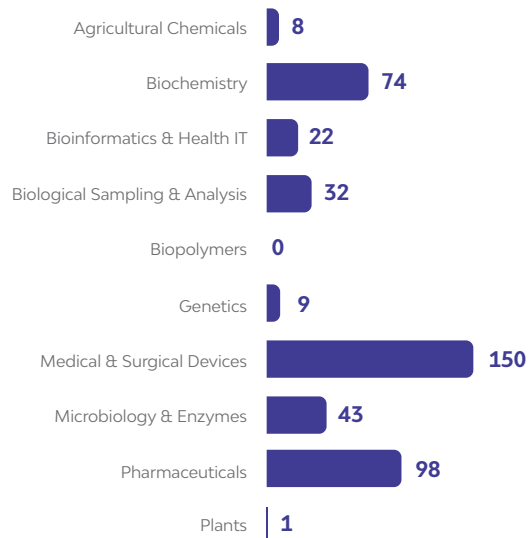
Bioscience-Related U.S. Patents

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.