

Texas

The U.S. Bioscience Economy:

Driving Economic Growth and Opportunity in States and Regions



Texas' bioscience industry is large and rapidly growing, employing 129,245 in 2023 across 9,212 establishments following employment growth of 21.6 percent since 2019. The state's strong bioscience employment growth was driven by double-digit job gains in three of the five industry subsectors—bioscience-related distribution, medical devices and equipment, and research, testing, and medical laboratories. The state continues to be a leader in key innovation metrics, ranking in the top quintile of states in bioscience-related academic R&D, NIH funding, venture capital investment, and patents. Bioscience-related academic R&D expenditures in Texas totaled \$4.6 billion in 2022. NIH funding to Texas institutions reached \$1.8 billion in 2023, growing 34 percent since 2019. Texas bioscience companies raised \$8.7 billion in venture capital investment from 2019 through 2023. State inventors are affiliated with nearly 8,000 bioscience-related patents over the same 5-year period.

Bioscience Performance Metrics

Summary of State Performance in Selected Bioscience-related Metrics

Metric	Texas	United States	Quintile
Bioscience Industry, 2023			
Bioscience Industry Employment	129,245	2,287,268	I
Bioscience Industry Location Quotient	0.64	n/a	IV
Bioscience Industry Establishments	9,212	149,744	I
Academic Bioscience R&D Expenditures, FY 2022			
Bioscience R&D (\$ thousands)	\$4,641,980	\$58,224,514	I
Bioscience Share of Total R&D	67%	63%	II
Bioscience R&D Per Capita	\$155	\$175	III
NIH Funding, FY 2023			
Funding (\$ thousands)	\$1,845,832	\$38,017,143	I
Funding Per Capita	\$61	\$114	III
Bioscience Venture Capital Investments, 2019-23 (\$ millions)	\$8,744.10	\$278,893.13	I
Bioscience-Related Patents, 2019-23	7,950	222,670	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.

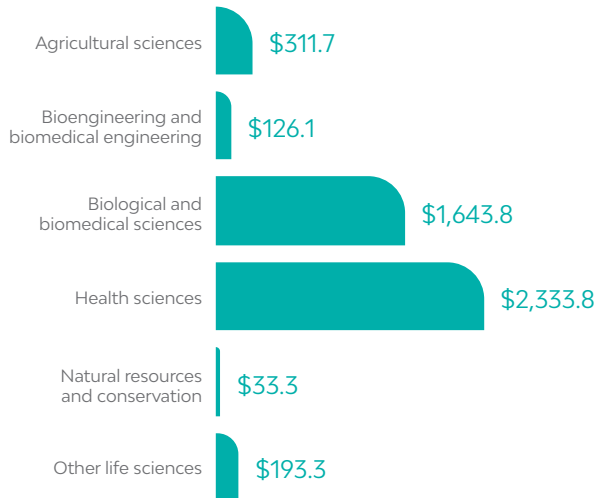
Industry Subsector		Texas		United States	
		2023	2019–2023 Change	2023	2019–2023 Change
Agricultural Feedstock and Industrial Biosciences	Establishments	168	12.0%	2,087	14.4%
	Employment	4,748	-10.1%	71,510	4.2%
	<i>Location Quotient</i>	0.75		n/a	
	Average Annual Wage	\$119,431	12.0%	\$101,825	21.8%
Bioscience-Related Distribution	Establishments	3,898	6.8%	67,759	17.6%
	Employment	57,770	21.9%	649,328	12.8%
	<i>Location Quotient</i>	1.00		n/a	
	Average Annual Wage	\$134,377	18.6%	\$133,088	21.8%
Medical Devices and Equipment	Establishments	818	41.3%	12,055	32.1%
	Employment	15,040	22.8%	415,818	6.1%
	<i>Location Quotient</i>	0.41		n/a	
	Average Annual Wage	\$94,416	12.8%	\$101,478	8.3%
Pharmaceuticals	Establishments	415	56.2%	7,420	52.7%
	Employment	13,985	7.6%	360,345	12.7%
	<i>Location Quotient</i>	0.44		n/a	
	Average Annual Wage	\$123,068	8.9%	\$131,562	11.1%
Research, Testing, and Medical Laboratories	Establishments	3,913	96.8%	60,424	61.4%
	Employment	37,702	32.7%	790,268	23.8%
	<i>Location Quotient</i>	0.54		n/a	
	Average Annual Wage	\$113,689	30.8%	\$151,006	20.4%
Total Bioscience Industry	Establishments	9,212	38.9%	149,744	35.0%
	Employment	129,245	21.6%	2,287,268	14.7%
	<i>Location Quotient</i>	0.64		n/a	
	Average Annual Wage	\$121,919	19.0%	\$132,314	18.2%
Total Private Sector	Establishments	813,722	16.6%	11,657,807	16.8%
	Employment	11,727,652	9.7%	131,982,899	3.9%
	<i>Location Quotient</i>	1.00		n/a	
	Average Annual Wage	\$73,618	21.2%	\$72,384	22.6%

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

Bioscience Research in Texas

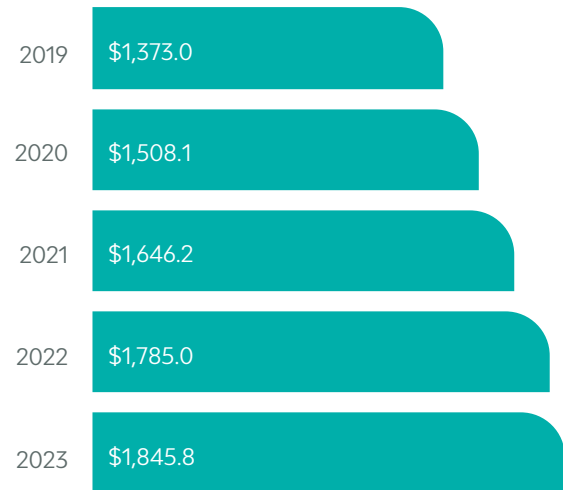
Bioscience Academic R&D Expenditures

\$ Millions, FY 2022



NIH Awards

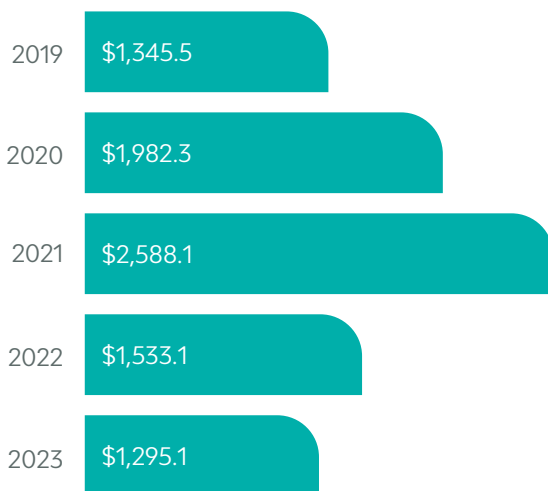
\$ Millions, FY 2019-2023



Bioscience Venture Capital in Texas

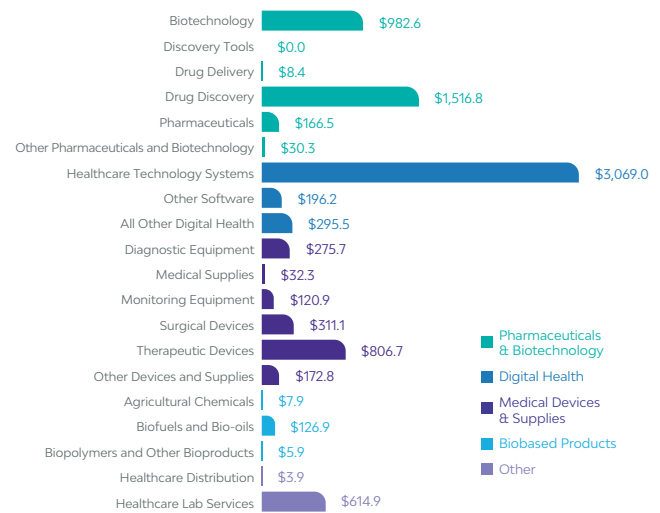
Bioscience-Related Venture Capital Investments

\$ Millions, 2019-2023



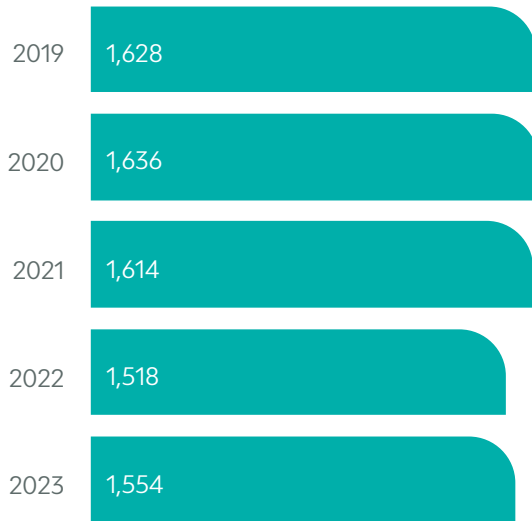
Bioscience-Related Venture Capital Investments by Segment

\$ Millions, 2019-2023

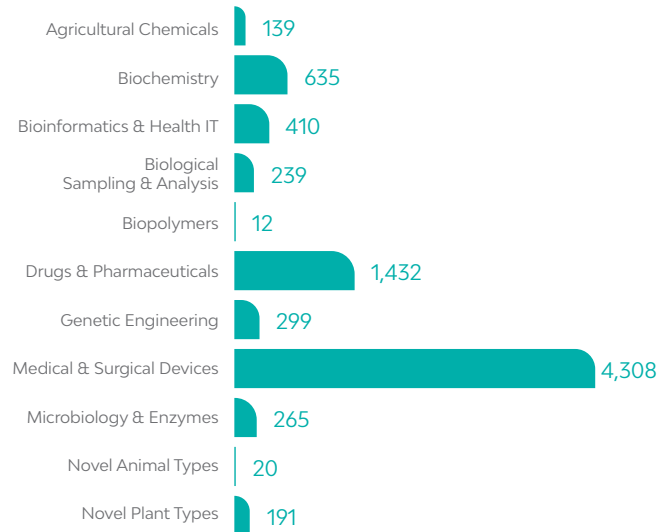


Bioscience Patents in Texas

Bioscience-Related U.S. Patents
2019-2023



Bioscience-Related U.S. Patents by Segment
2019-2023



Source Notes

Employment, Establishments and Wages: U.S. Bureau of Labor Statistics, Quarterly Census of Employment and Wages (QCEW), enhanced by Lightcast (Datarun 2024.3).

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.