



Louisiana

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

Louisiana's bioscience industry has grown by nearly 11 percent since 2018, matching the national growth rate for the industry to total more than 12,000 jobs in 2021. All five of the industry's major subsectors contributed to the overall employment growth. Louisiana has a highly specialized employment concentration in the agricultural feedstock and industrial biosciences subsector (location quotient is 3.21). The state has increased its funding from NIH in recent years, and these federal awards totaled nearly \$206 million in FY 2021. This funding helps to support, in part, the state's academic R&D activities in bioscience-related fields, which totaled nearly \$497 million in 2020 across Louisiana's research universities.

Bioscience Performance Metrics

Summary of State Performance in Selected Bioscience-related Metrics

Metric	Louisiana	United States	Quintile
Bioscience Industry, 2021			
Bioscience Industry Employment	12,353	2,135,704	IV
Bioscience Industry Location Quotient	0.47	n/a	V
Bioscience Industry Establishments	1,609	127,389	III
Academic Bioscience R&D Expenditures, FY 2020			
Bioscience R&D (\$ thousands)	\$496,750	\$51,108,737	III
Bioscience Share of Total R&D	67%	63%	II
Bioscience R&D Per Capita	\$107	\$154	IV
NIH Funding, FY 2021			
Funding (\$ thousands)	\$205,711	\$34,751,109	III
Funding Per Capita	\$44	\$105	IV
Bioscience Venture Capital Investments, 2018-21 (\$ millions)			
	\$131.68	\$197,674.54	III
Bioscience-Related Patents, 2018-21			
	357	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.

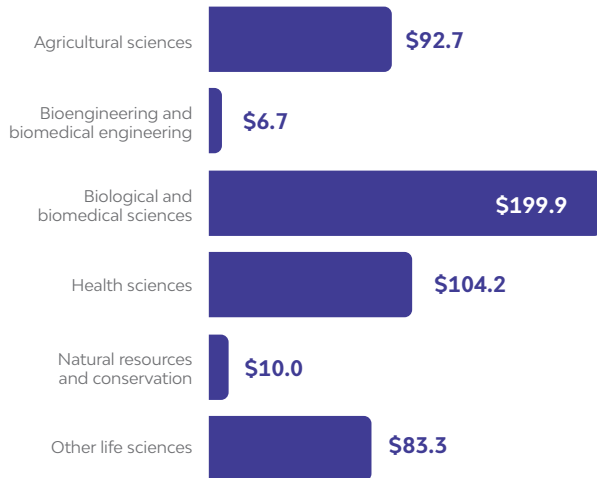
Industry Subsector		Louisiana		United States	
		2021	2018–2021 Change	2021	2018–2021 Change
Agricultural Feedstock and Industrial Biosciences	Establishments	27	-2.7%	1,948	10.0%
	Employment	2,743	1.2%	69,573	1.9%
	<i>Location Quotient</i>	3.21		n/a	
	Average Annual Wage	\$122,670	7.6%	\$91,989	13.1%
Bioscience- Related Distribution	Establishments	865	20.3%	62,697	14.7%
	Employment	5,503	13.0%	602,589	6.6%
	<i>Location Quotient</i>	0.74		n/a	
	Average Annual Wage	\$114,029	13.3%	\$121,606	15.0%
Medical Devices and Equipment	Establishments	81	26.2%	10,268	17.4%
	Employment	362	25.6%	398,847	5.5%
	<i>Location Quotient</i>	0.07		n/a	
	Average Annual Wage	\$67,481	0.0%	\$98,481	8.7%
Pharmaceuticals	Establishments	37	62.6%	5,973	34.7%
	Employment	442	23.0%	344,839	11.9%
	<i>Location Quotient</i>	0.10		n/a	
	Average Annual Wage	\$88,094	21.3%	\$126,153	10.3%
Research, Testing, and Medical Laboratories	Establishments	599	46.4%	46,503	34.5%
	Employment	3,303	12.7%	719,856	19.3%
	<i>Location Quotient</i>	0.37		n/a	
	Average Annual Wage	\$61,762	21.1%	\$147,396	22.0%
Total Bioscience Industry	Establishments	1,609	29.5%	127,389	22.3%
	Employment	12,353	10.7%	2,135,704	11.0%
	<i>Location Quotient</i>	0.47		n/a	
	Average Annual Wage	\$99,681	11.9%	\$125,750	16.4%
Total Private Sector	Establishments	137,427	8.9%	10,665,643	9.3%
	Employment	1,516,645	-5.9%	123,376,557	-1.5%
	<i>Location Quotient</i>	1.00		n/a	
	Average Annual Wage	\$54,208	11.9%	\$67,826	18.9%

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

Bioscience Research in Louisiana

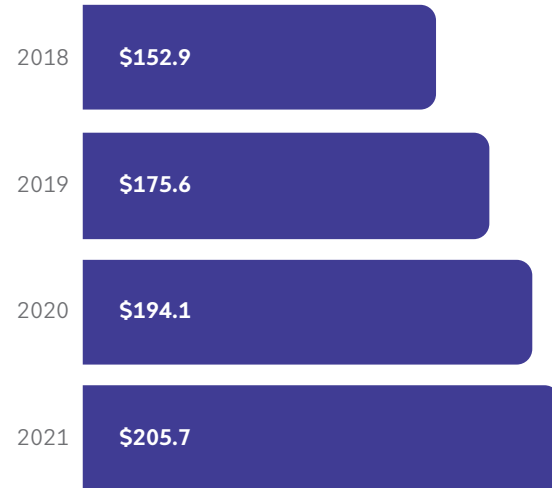
Bioscience Academic R&D Expenditures

\$ Millions, FY 2020



NIH Awards

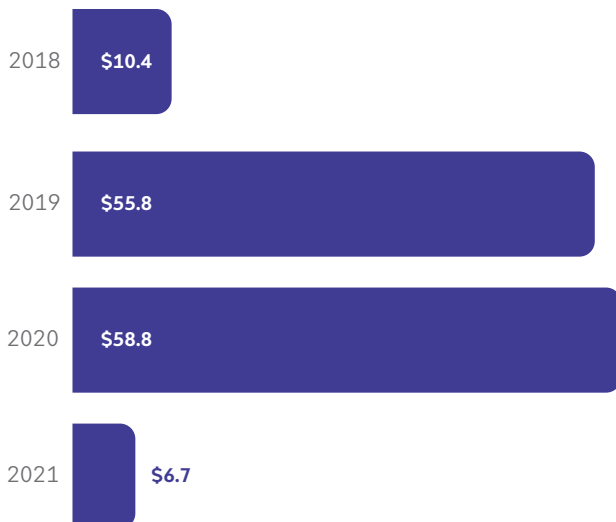
\$ Millions, FY 2018-2021



Bioscience Venture Capital in Louisiana

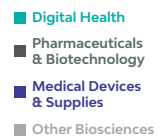
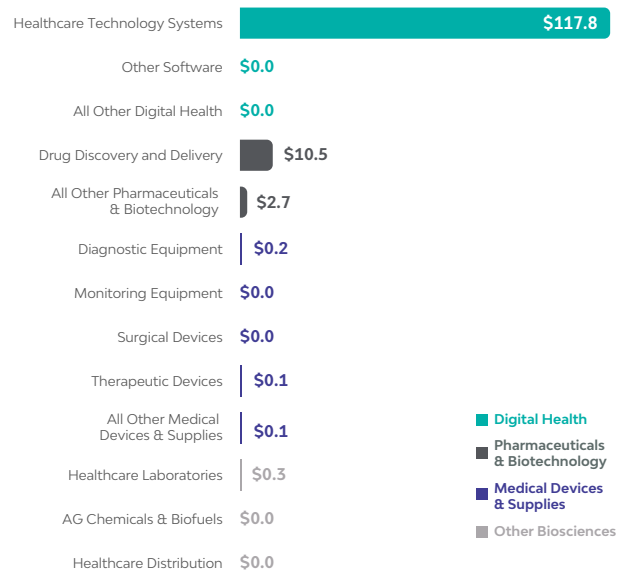
Bioscience-Related Venture Capital Investments

\$ Millions, 2018-2021



Bioscience-Related Venture Capital Investments by Segment

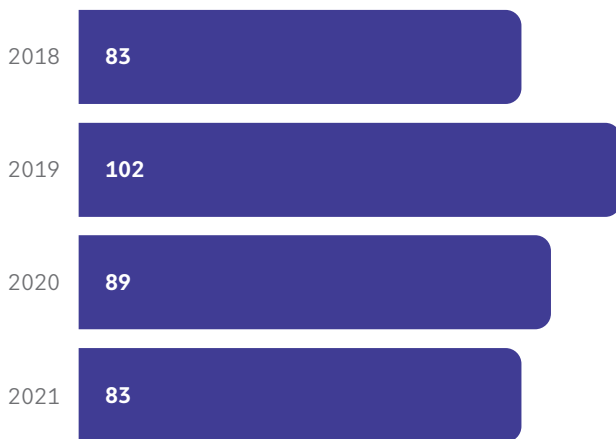
\$ Millions, 2018-2021



Bioscience Patents in Louisiana

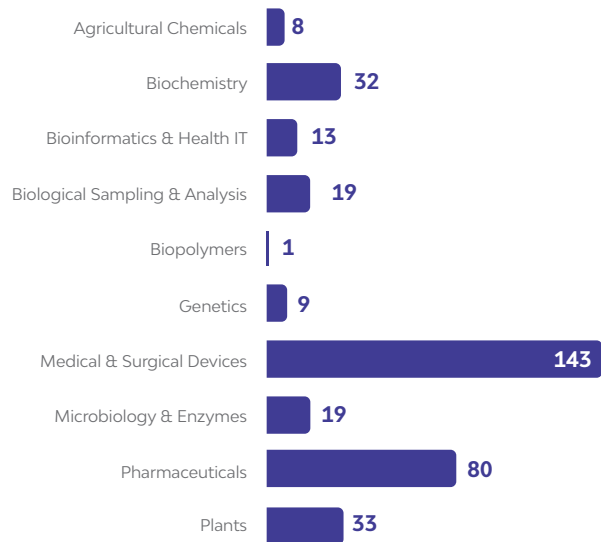
Bioscience-Related U.S. Patents

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.