



Mississippi

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

Mississippi's bioscience industry has grown since 2018, increasing employment by 3.5 percent to reach 7,720 jobs in 2021 spanning 1,032 individual business establishments. Three of the industry's five major subsectors contributed to the overall job growth, with the largest job gains in bioscience-related distribution. The state has a specialized employment concentration in the agricultural feedstock and industrial biosciences industry subsector where its location quotient is 1.21. Mississippi's research universities conducted more than \$230 million in bioscience-related R&D in 2020. NIH funding supports academic research, in part, and grew in 2021 to reach \$58.9 million in awards to Mississippi institutions.

Bioscience Performance Metrics

Summary of State Performance in Selected Bioscience-related Metrics

Metric	Mississippi	United States	Quintile
Bioscience Industry, 2021			
Bioscience Industry Employment	7,720	2,135,704	IV
Bioscience Industry Location Quotient	0.50	n/a	V
Bioscience Industry Establishments	1,032	127,389	IV
Academic Bioscience R&D Expenditures, FY 2020			
Bioscience R&D (\$ thousands)	\$230,568	\$51,108,737	IV
Bioscience Share of Total R&D	48%	63%	V
Bioscience R&D Per Capita	\$78	\$154	IV
NIH Funding, FY 2021			
Funding (\$ thousands)	\$58,907	\$34,751,109	IV
Funding Per Capita	\$20	\$105	V
Bioscience Venture Capital Investments, 2018-21 (\$ millions)			
	\$0.00	\$197,674.54	V
Bioscience-Related Patents, 2018-21			
	455	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.

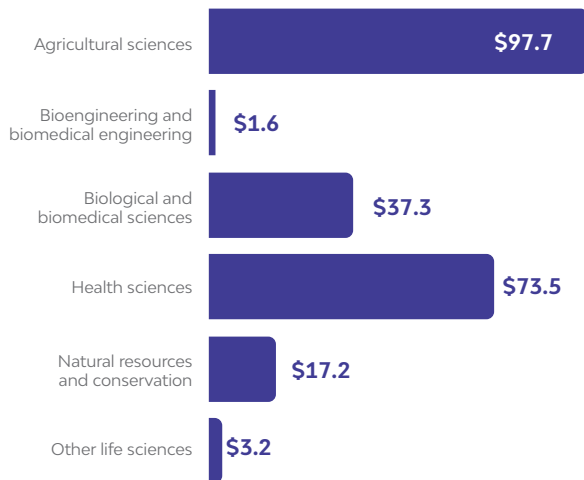
Industry Subsector		Mississippi		United States	
		2021	2018–2021 Change	2021	2018–2021 Change
Agricultural Feedstock and Industrial Biosciences	Establishments	12	0.0%	1,948	10.0%
	Employment	606	-9.7%	69,573	1.9%
	<i>Location Quotient</i>	1.21		n/a	
	Average Annual Wage	\$72,163	20.3%	\$91,989	13.1%
Bioscience- Related Distribution	Establishments	709	26.0%	62,697	14.7%
	Employment	4,035	9.8%	602,589	6.6%
	<i>Location Quotient</i>	0.93		n/a	
	Average Annual Wage	\$95,528	8.0%	\$121,606	15.0%
Medical Devices and Equipment	Establishments	23	-14.0%	10,268	17.4%
	Employment	809	6.0%	398,847	5.5%
	<i>Location Quotient</i>	0.28		n/a	
	Average Annual Wage	\$58,586	2.3%	\$98,481	8.7%
Pharmaceuticals	Establishments	20	27.9%	5,973	34.7%
	Employment	950	-9.0%	344,839	11.9%
	<i>Location Quotient</i>	0.38		n/a	
	Average Annual Wage	\$61,448	2.1%	\$126,153	10.3%
Research, Testing, and Medical Laboratories	Establishments	268	22.4%	46,503	34.5%
	Employment	1,320	1.0%	719,856	19.3%
	<i>Location Quotient</i>	0.25		n/a	
	Average Annual Wage	\$62,913	16.2%	\$147,396	22.0%
Total Bioscience Industry	Establishments	1,032	23.4%	127,389	22.3%
	Employment	7,720	3.5%	2,135,704	11.0%
	<i>Location Quotient</i>	0.50		n/a	
	Average Annual Wage	\$80,053	10.1%	\$125,750	16.4%
Total Private Sector	Establishments	72,609	3.9%	10,665,643	9.3%
	Employment	890,386	-0.8%	123,376,557	-1.5%
	<i>Location Quotient</i>	1.00		n/a	
	Average Annual Wage	\$44,339	13.7%	\$67,826	18.9%

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

Bioscience Research in Mississippi

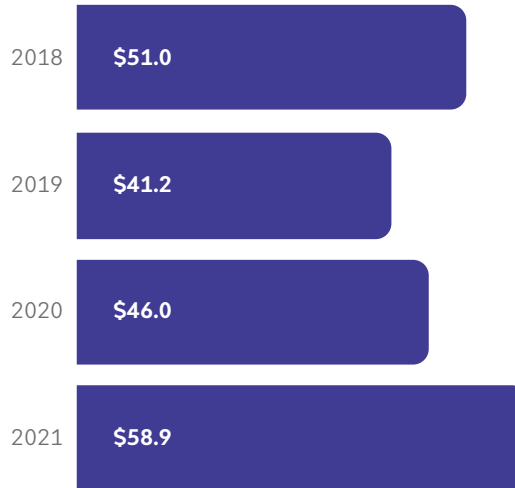
Bioscience Academic R&D Expenditures

\$ Millions, FY 2020



NIH Awards

\$ Millions, FY 2018-2021



Bioscience Venture Capital in Mississippi

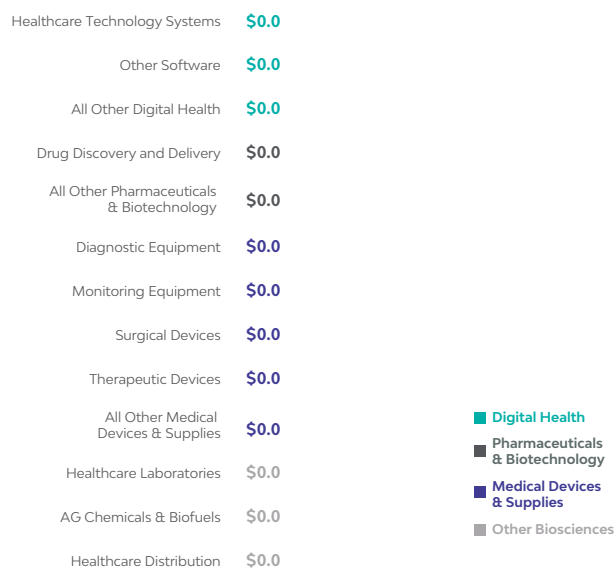
Bioscience-Related Venture Capital Investments

\$ Millions, 2018-2021



Bioscience-Related Venture Capital Investments by Segment

\$ Millions, 2018-2021

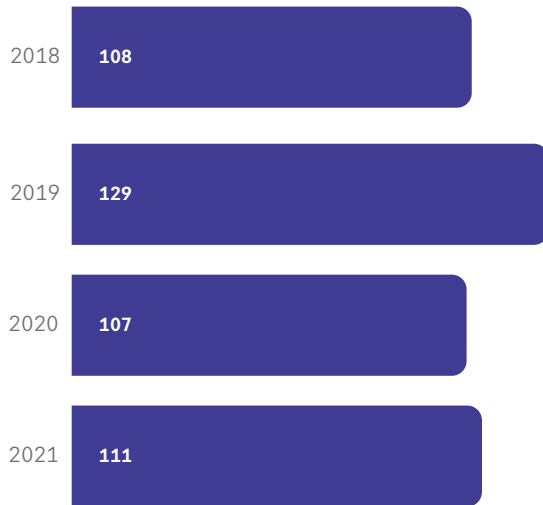


- Digital Health
- Pharmaceuticals & Biotechnology
- Medical Devices & Supplies
- Other Biosciences

Bioscience Patents in Mississippi

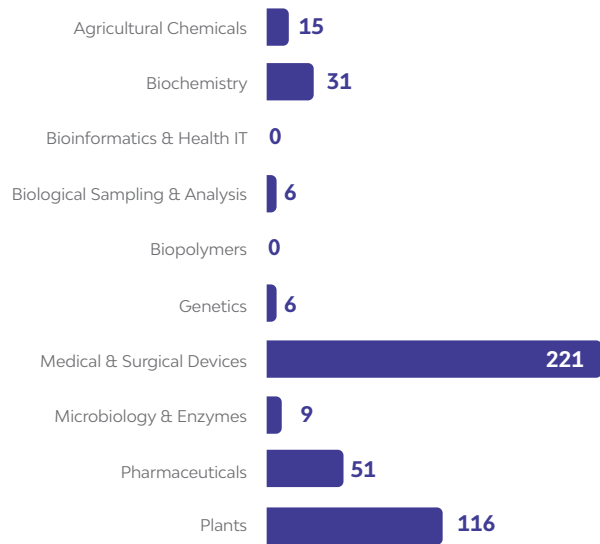
Bioscience-Related U.S. Patents

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.