



Nebraska

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

Nebraska's bioscience industry is specialized in its employment concentration, diverse in its strengths, and growing its base. The industry has grown by 2.9 percent since 2018 and in 2021 employed more than 18,000 across 1,424 business establishments. Bioscience employment is 30 percent more concentrated in Nebraska compared with the national average—its location quotient is 1.30. Within the industry, the state is specialized in its concentrations of three industry subsectors—agricultural feedstock and industrial biosciences; bioscience-related distribution; and medical device manufacturing. The state's research universities conducted nearly \$414 million in bioscience-related R&D in 2020. Nebraska has a particularly strong focus in biosciences research across its universities, accounting for 76 percent of all academic R&D. Bioscience-related venture capital investments in Nebraska companies increased significantly in 2021, reaching \$54.5 million.

Bioscience Performance Metrics

Summary of State Performance in Selected Bioscience-related Metrics

Metric	Nebraska	United States	Quintile
Bioscience Industry, 2021			
Bioscience Industry Employment	18,147	2,135,704	III
Bioscience Industry Location Quotient	1.30	n/a	I
Bioscience Industry Establishments	1,424	127,389	III
Academic Bioscience R&D Expenditures, FY 2020			
Bioscience R&D (\$ thousands)	\$413,662	\$51,108,737	III
Bioscience Share of Total R&D	76%	63%	I
Bioscience R&D Per Capita	\$211	\$154	I
NIH Funding, FY 2021			
Funding (\$ thousands)	\$135,715	\$34,751,109	IV
Funding Per Capita	\$69	\$105	III
Bioscience Venture Capital Investments, 2018-21 (\$ millions)			
	\$122.83	\$197,674.54	IV
Bioscience-Related Patents, 2018-21			
	613	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.

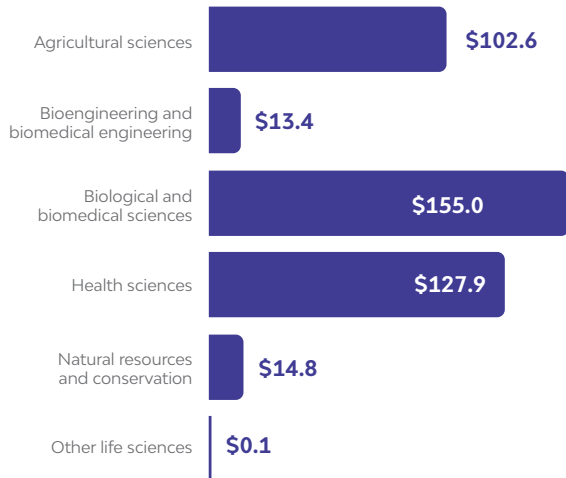
Industry Subsector		Nebraska		United States	
		2021	2018–2021 Change	2021	2018–2021 Change
Agricultural Feedstock and Industrial Biosciences	Establishments	59	11.4%	1,948	10.0%
	Employment	2,694	-4.7%	69,573	1.9%
	<i>Location Quotient</i>	5.92		n/a	
	Average Annual Wage	\$79,292	13.9%	\$91,989	13.1%
Bioscience- Related Distribution	Establishments	1,111	9.0%	62,697	14.7%
	Employment	6,804	-0.2%	602,589	6.6%
	<i>Location Quotient</i>	1.73		n/a	
	Average Annual Wage	\$90,049	16.1%	\$121,606	15.0%
Medical Devices and Equipment	Establishments	41	37.8%	10,268	17.4%
	Employment	4,584	1.4%	398,847	5.5%
	<i>Location Quotient</i>	1.76		n/a	
	Average Annual Wage	\$69,357	17.7%	\$98,481	8.7%
Pharmaceuticals	Establishments	31	26.3%	5,973	34.7%
	Employment	2,152	12.6%	344,839	11.9%
	<i>Location Quotient</i>	0.95		n/a	
	Average Annual Wage	\$92,941	22.0%	\$126,153	10.3%
Research, Testing, and Medical Laboratories	Establishments	182	45.1%	46,503	34.5%
	Employment	1,914	23.2%	719,856	19.3%
	<i>Location Quotient</i>	0.41		n/a	
	Average Annual Wage	\$81,987	29.7%	\$147,396	22.0%
Total Bioscience Industry	Establishments	1,424	13.8%	127,389	22.3%
	Employment	18,147	2.9%	2,135,704	11.0%
	<i>Location Quotient</i>	1.30		n/a	
	Average Annual Wage	\$82,718	18.0%	\$125,750	16.4%
Total Private Sector	Establishments	71,468	5.1%	10,665,643	9.3%
	Employment	807,131	-1.2%	123,376,557	-1.5%
	<i>Location Quotient</i>	1.00		n/a	
	Average Annual Wage	\$54,059	17.9%	\$67,826	18.9%

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

Bioscience Research in Nebraska

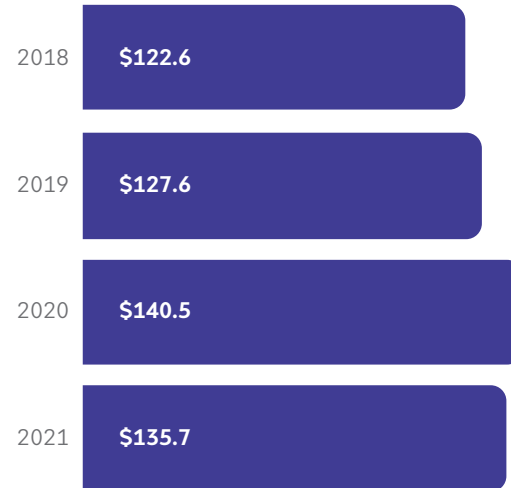
Bioscience Academic R&D Expenditures

\$ Millions, FY 2020



NIH Awards

\$ Millions, FY 2018-2021



Bioscience Venture Capital in Nebraska

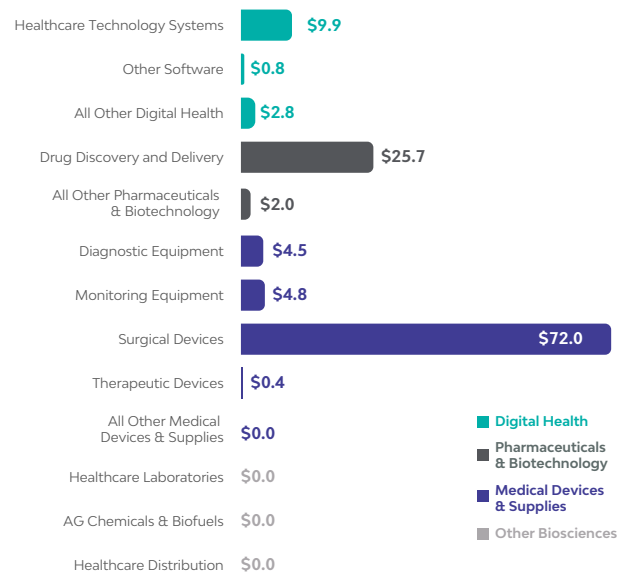
Bioscience-Related Venture Capital Investments

\$ Millions, 2018-2021



Bioscience-Related Venture Capital Investments by Segment

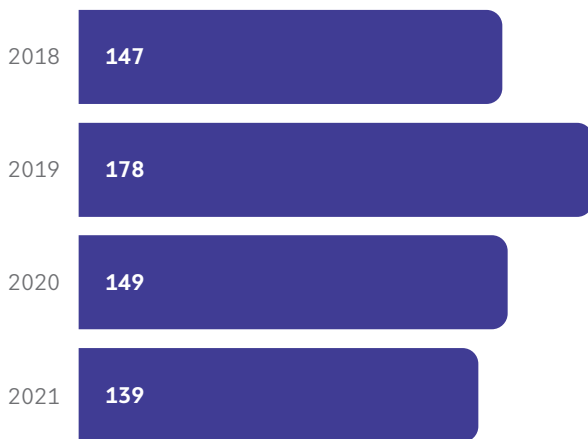
\$ Millions, 2018-2021



Bioscience Patents in Nebraska

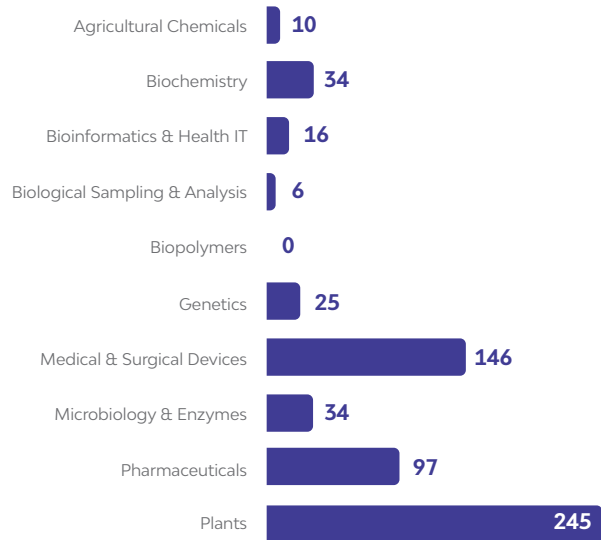
Bioscience-Related U.S. Patents

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.

