



# Kansas

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

Kansas' bioscience industry employment has grown by 10 percent since 2018 to reach more than 19,000 jobs in 1,603 business establishments in 2021. All five of the industry's major subsectors contributed to the overall job growth. Kansas has two specialized industry subsectors based on their employment concentration—agricultural feedstock and industrial biosciences and pharmaceuticals. Two additional subsectors—research, testing, and medical labs; and bioscience-related distribution are highly concentrated in the state. Bioscience-related venture capital investments in Kansas companies increased significantly in 2021 to nearly \$56 million.

## Bioscience Performance Metrics

### Summary of State Performance in Selected Bioscience-related Metrics

Metric	Kansas	United States	Quintile
<b>Bioscience Industry, 2021</b>			
Bioscience Industry Employment	19,405	2,135,704	III
Bioscience Industry Location Quotient	1.01	n/a	II
Bioscience Industry Establishments	1,603	127,389	III
<b>Academic Bioscience R&amp;D Expenditures, FY 2020</b>			
Bioscience R&D (\$ thousands)	\$363,173	\$51,108,737	IV
Bioscience Share of Total R&D	57%	63%	III
Bioscience R&D Per Capita	\$124	\$154	III
<b>NIH Funding, FY 2021</b>			
Funding (\$ thousands)	\$119,121	\$34,751,109	IV
Funding Per Capita	\$41	\$105	IV
<b>Bioscience Venture Capital Investments, 2018-21 (\$ millions)</b>			
	\$112.44	\$197,674.54	IV
<b>Bioscience-Related Patents, 2018-21</b>			
	903	153,072	III

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.

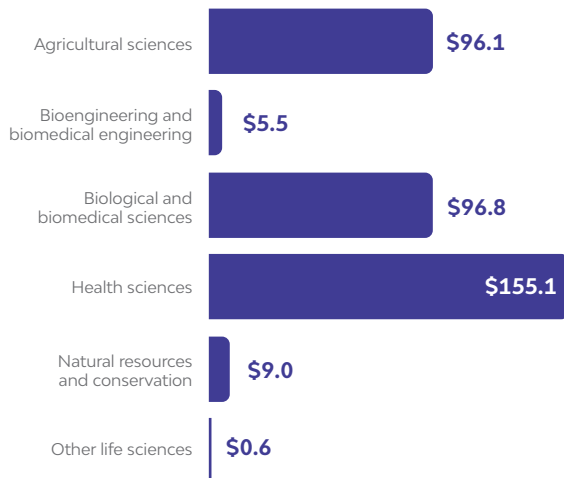
Industry Subsector		Kansas		United States	
		2021	2018–2021 Change	2021	2018–2021 Change
Agricultural Feedstock and Industrial Biosciences	Establishments	38	14.2%	1,948	10.0%
	Employment	1,029	1.5%	69,573	1.9%
	<i>Location Quotient</i>	1.64		n/a	
	Average Annual Wage	\$78,086	9.2%	\$91,989	13.1%
Bioscience-Related Distribution	Establishments	1,017	4.6%	62,697	14.7%
	Employment	6,036	0.4%	602,589	6.6%
	<i>Location Quotient</i>	1.11		n/a	
	Average Annual Wage	\$119,372	14.4%	\$121,606	15.0%
Medical Devices and Equipment	Establishments	50	2.6%	10,268	17.4%
	Employment	911	3.2%	398,847	5.5%
	<i>Location Quotient</i>	0.25		n/a	
	Average Annual Wage	\$61,672	17.4%	\$98,481	8.7%
Pharmaceuticals	Establishments	44	17.6%	5,973	34.7%
	Employment	4,087	27.4%	344,839	11.9%
	<i>Location Quotient</i>	1.31		n/a	
	Average Annual Wage	\$76,334	5.9%	\$126,153	10.3%
Research, Testing, and Medical Laboratories	Establishments	454	33.5%	46,503	34.5%
	Employment	7,342	12.5%	719,856	19.3%
	<i>Location Quotient</i>	1.13		n/a	
	Average Annual Wage	\$80,614	20.8%	\$147,396	22.0%
Total Bioscience Industry	Establishments	1,603	12.0%	127,389	22.3%
	Employment	19,405	10.0%	2,135,704	11.0%
	<i>Location Quotient</i>	1.01		n/a	
	Average Annual Wage	\$90,745	13.3%	\$125,750	16.4%
Total Private Sector	Establishments	85,546	2.1%	10,665,643	9.3%
	Employment	1,114,785	-2.1%	123,376,557	-1.5%
	<i>Location Quotient</i>	1.00		n/a	
	Average Annual Wage	\$54,774	15.6%	\$67,826	18.9%

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

## Bioscience Research in Kansas

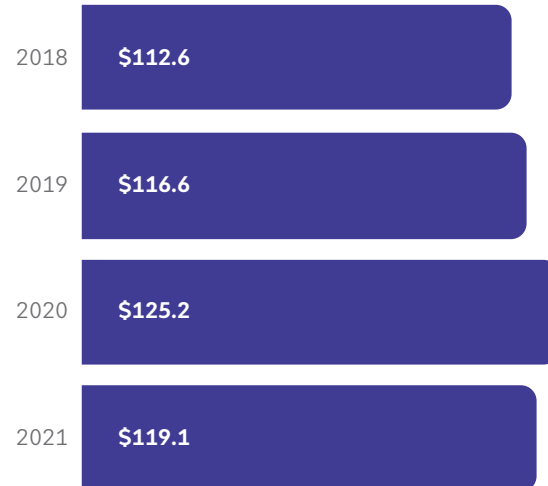
### Bioscience Academic R&D Expenditures

\$ Millions, FY 2020



### NIH Awards

\$ Millions, FY 2018-2021



## Bioscience Venture Capital in Kansas

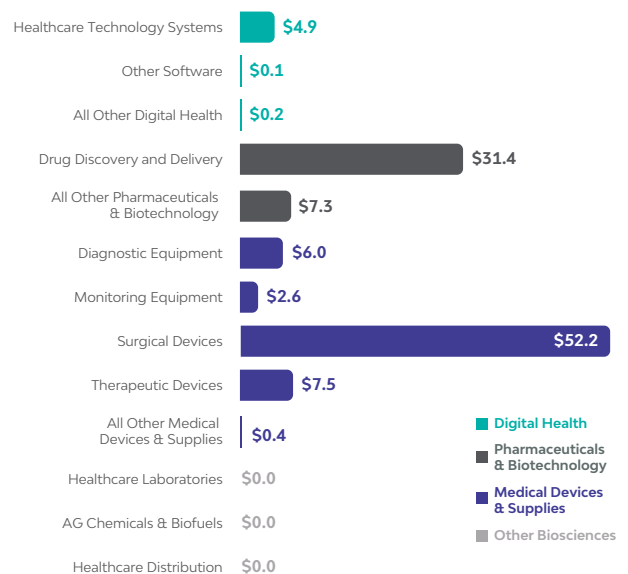
### Bioscience-Related Venture Capital Investments

\$ Millions, 2018-2021



### Bioscience-Related Venture Capital Investments by Segment

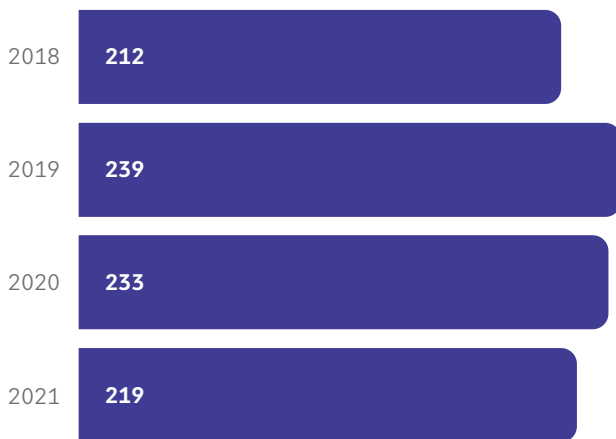
\$ Millions, 2018-2021



## Bioscience Patents in Kansas

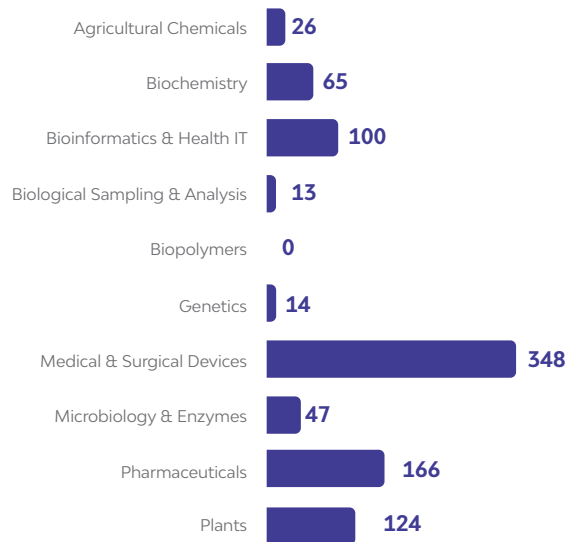
### Bioscience-Related U.S. Patents

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.*