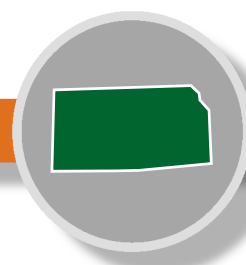


Kansas



Kansas’ bioscience industry employed more than 13,000 in 2012 in 810 business establishments. The state has seen net job growth of 1.3 percent since 2007 with gains contributed by drugs and pharmaceuticals, medical devices, and bioscience-related distribution. Kansas is highly concentrated and nearly specialized in its employment concentrations in agricultural feedstock and chemicals and in research, testing, and medical labs. State bioscience firms received \$110 million in venture capital investments since 2009, with the majority of this funding directed toward animal biotechnologies. In bioscience patents, Kansas’ 561 patents issued since 2009 have primarily been in surgical and medical instruments and in drugs and pharmaceuticals.

Bioscience Performance Metrics

Summary of State Performance in Selected Bioscience-related Metrics

Metric	Kansas	United States	Quintile
Bioscience Industry, 2012			
Bioscience Industry Employment	13,446	1,619,746	III
Bioscience Industry Location Quotient	0.86	n/a	III
Bioscience Industry Establishments	810	73,088	III
Academic Bioscience R&D Expenditures, FY 2012			
Bioscience R&D (\$ thousands)	\$307,089	\$38,139,876	III
Bioscience Share of Total R&D	64%	61%	III
Bioscience R&D Per Capita	\$106	\$119	III
NIH Funding, FY 2013			
Funding (\$ thousands)	\$88,499	\$22,293,255	IV
Funding Per Capita	\$31	\$70	IV
Bioscience Venture Capital Investments, 2009–13 (\$ millions)	\$110.0	\$49,401.7	III
Bioscience and Related Patents, 2009–13	561	100,238	III

State ranking figures for bioscience performance metrics are calculated as quintiles, where I = top quintile, III = middle quintile, and V = bottom quintile.

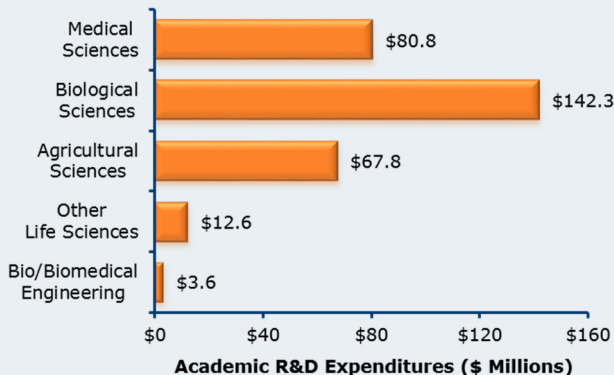
For source notes, see end of State Profile.

Industry Subsector	Kansas		United States	
	2012	2007–2012 Change	2012	2007–2012 Change
Agricultural Feedstock & Chemicals				
Establishments	28	-22.2%	1,772	5.2%
Employment	884	-28.8%	76,404	-1.0%
Location Quotient	1.19		n/a	
Direct-Effect Employment Multiplier	14.2		18.1	
Total Employment Impact	12,582		1,382,637	
Average Annual Wage	\$57,133	5.5%	\$75,828	14.2%
Bioscience-Related Distribution				
Establishments	486	6.0%	36,793	1.4%
Employment	4,558	0.6%	442,016	-3.9%
Location Quotient	1.09		n/a	
Direct-Effect Employment Multiplier	2.6		2.7	
Total Employment Impact	11,631		1,199,015	
Average Annual Wage	\$72,016	6.7%	\$85,188	11.5%
Drugs and Pharmaceuticals				
Establishments	21	8.8%	3,057	12.0%
Employment	2,050	51.7%	284,331	-10.9%
Location Quotient	0.74		n/a	
Direct-Effect Employment Multiplier	7.6		9.9	
Total Employment Impact	15,663		2,673,265	
Average Annual Wage	\$56,341	-2.3%	\$106,576	13.9%
Medical Devices and Equipment				
Establishments	42	-8.7%	7,235	12.0%
Employment	867	14.2%	349,432	1.4%
Location Quotient	0.26		n/a	
Direct-Effect Employment Multiplier	2.8		3.9	
Total Employment Impact	2,461		1,318,459	
Average Annual Wage	\$44,680	12.6%	\$75,695	10.7%
Research, Testing, and Medical Laboratories				
Establishments	234	19.1%	24,231	31.0%
Employment	5,087	-5.6%	467,563	9.7%
Location Quotient	1.12		n/a	
Direct-Effect Employment Multiplier	2.3		2.7	
Total Employment Impact	11,706		1,284,196	
Average Annual Wage	\$61,278	12.5%	\$91,248	15.9%
Total Bioscience Industry				
Establishments	810	7.3%	73,088	11.4%
Employment	13,446	1.3%	1,619,746	-0.4%
Location Quotient	0.86		n/a	
Direct-Effect Employment Multiplier	4.0		4.9	
Total Employment Impact	54,154		7,857,572	
Average Annual Wage	\$62,823	7.7%	\$88,202	12.8%
Total Private Sector				
Establishments	79,367	-0.9%	8,699,564	-0.5%
Employment	1,076,183	-3.1%	111,137,206	-3.1%
Average Annual Wage	\$41,822	11.4%	\$49,130	11.1%

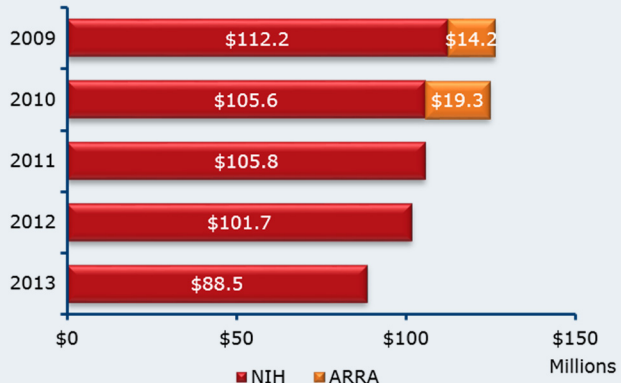
Note: U.S. employment metrics include Puerto Rico. Estimates of total impacts do not include Puerto Rico.

Bioscience Research in Kansas

Bioscience Academic R&D Expenditures, FY 2012

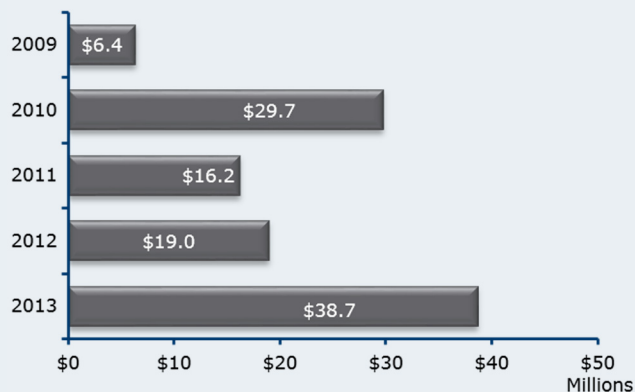


NIH Awards, 2009–2013

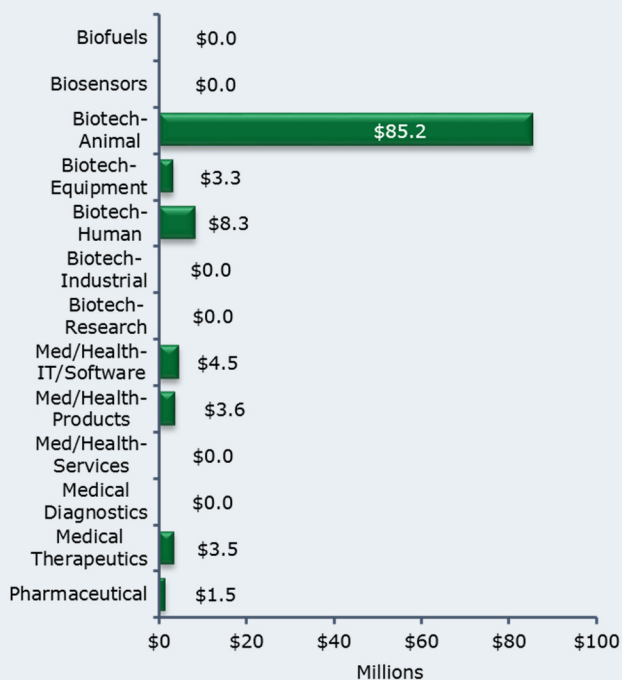


Bioscience Venture Capital in Kansas

Bioscience-Related Venture Capital Investments, 2009–2013

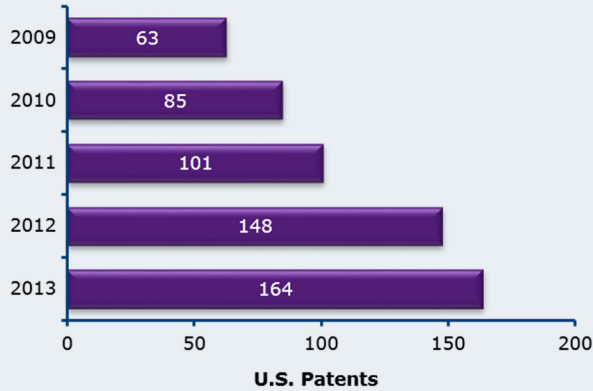


Bioscience-Related Venture Capital Investments by Segment, 2009–2013

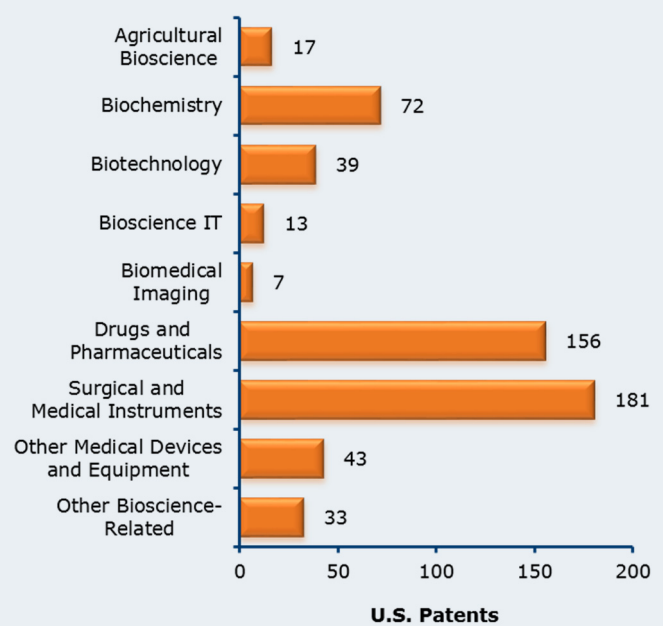


Bioscience Patents in Kansas

Bioscience-Related Patents, 2009–2013



Bioscience-Related Patents by Segment, 2009–2013



Source Notes

Employment, Establishments, and Wages: U.S. Bureau of Labor Statistics, Quarterly Census of Employment and Wages (QCEW), enhanced file from the IMPLAN Group, LLC.

Employment Multipliers: IMPLAN Group, LLC state-level Input/Output models.

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), and NIH-managed funding for FY 2009 and FY 2010 from the American Recovery and Reinvestment Act (ARRA) website.

Venture Capital: Thomson Reuters Thomson ONE venture capital database.

Patents: U.S. Patent & Trademark Office data from Thomson Reuters Delphion Patent Analysis Database.

For a more detailed discussion of the data and methodology used, please see the Appendix to the full national report.