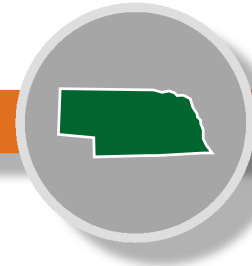


## Nebraska



Nebraska has a specialized and growing concentration of bioscience industry jobs, reflecting a diverse set of industry subsector strengths. The state has grown its bioscience industry employment base by 10 percent since 2007 and by 2012 employed more than 15,000 across 938 business establishments. These jobs are 39 percent more concentrated across Nebraska’s economy relative to the national average (location quotient is 1.39). Nebraska has a specialization in three of five major bioscience subsectors—agricultural feedstock and chemicals, bioscience-related distribution, and medical devices and equipment. Each of these three subsectors has contributed to the bioscience jobs gains since 2007. Nebraska’s academic bioscience R&D activity is highly concentrated with its research universities spending \$291 million in 2012 which equates to a much higher than average R&D expenditure on a per capita basis.

### Bioscience Performance Metrics

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

Metric	Nebraska	United States	Quintile
<b>Bioscience Industry, 2012</b>			
Bioscience Industry Employment	15,467	1,619,746	III
Bioscience Industry Location Quotient	1.39	n/a	I
Bioscience Industry Establishments	938	73,088	III
<b>Academic Bioscience R&amp;D Expenditures, FY 2012</b>			
Bioscience R&D (\$ thousands)	\$291,498	\$38,139,876	IV
Bioscience Share of Total R&D	69%	61%	II
Bioscience R&D Per Capita	\$156	\$119	I
<b>NIH Funding, FY 2013</b>			
Funding (\$ thousands)	\$85,275	\$22,293,255	IV
Funding Per Capita	\$46	\$70	III
<b>Bioscience Venture Capital Investments, 2009–13 (\$ millions)</b>	\$29.5	\$49,401.7	IV
<b>Bioscience and Related Patents, 2009–13</b>	389	100,238	IV

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

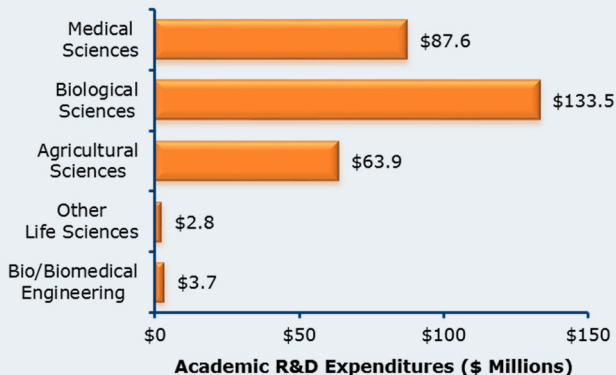
For source notes, see end of State Profile.

Industry Subsector	Nebraska		United States	
	2012	2007–2012 Change	2012	2007–2012 Change
<b>Agricultural Feedstock &amp; Chemicals</b>				
Establishments	52	-8.8%	1,772	5.2%
Employment	2,645	13.4%	76,404	-1.0%
Location Quotient	5.05		n/a	
Direct-Effect Employment Multiplier	14.8		18.1	
Total Employment Impact	39,072		1,382,637	
Average Annual Wage	\$57,554	3.0%	\$75,828	14.2%
<b>Bioscience-Related Distribution</b>				
Establishments	752	21.4%	36,793	1.4%
Employment	5,507	7.6%	442,016	-3.9%
Location Quotient	1.82		n/a	
Direct-Effect Employment Multiplier	2.6		2.7	
Total Employment Impact	14,164		1,199,015	
Average Annual Wage	\$59,785	16.2%	\$85,188	11.5%
<b>Drugs and Pharmaceuticals</b>				
Establishments	21	5.0%	3,057	12.0%
Employment	1,772	-5.8%	284,331	-10.9%
Location Quotient	0.91		n/a	
Direct-Effect Employment Multiplier	8.1		9.9	
Total Employment Impact	14,305		2,673,265	
Average Annual Wage	\$70,184	22.8%	\$106,576	13.9%
<b>Medical Devices and Equipment</b>				
Establishments	26	-13.3%	7,235	12.0%
Employment	3,988	28.3%	349,432	1.4%
Location Quotient	1.66		n/a	
Direct-Effect Employment Multiplier	3.3		3.9	
Total Employment Impact	13,200		1,318,459	
Average Annual Wage	\$50,283	3.7%	\$75,695	10.7%
<b>Research, Testing, and Medical Laboratories</b>				
Establishments	87	-0.6%	24,231	31.0%
Employment	1,555	-4.4%	467,563	9.7%
Location Quotient	0.48		n/a	
Direct-Effect Employment Multiplier	2.5		2.7	
Total Employment Impact	3,846		1,284,196	
Average Annual Wage	\$61,892	15.0%	\$91,248	15.9%
<b>Total Bioscience Industry</b>				
Establishments	938	15.2%	73,088	11.4%
Employment	15,467	10.0%	1,619,746	-0.4%
Location Quotient	1.39		n/a	
Direct-Effect Employment Multiplier	4.8		4.9	
Total Employment Impact	74,869		7,857,572	
Average Annual Wage	\$58,357	11.0%	\$88,202	12.8%
<b>Total Private Sector</b>				
Establishments	62,952	14.3%	8,699,564	-0.5%
Employment	762,443	0.1%	111,137,206	-3.1%
Average Annual Wage	\$38,660	10.9%	\$49,130	11.1%

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

## Bioscience Research in Nebraska

### Bioscience Academic R&D Expenditures, FY 2012



### NIH Awards, 2009–2013



## Bioscience Venture Capital in Nebraska

### Bioscience-Related Venture Capital Investments, 2009–2013

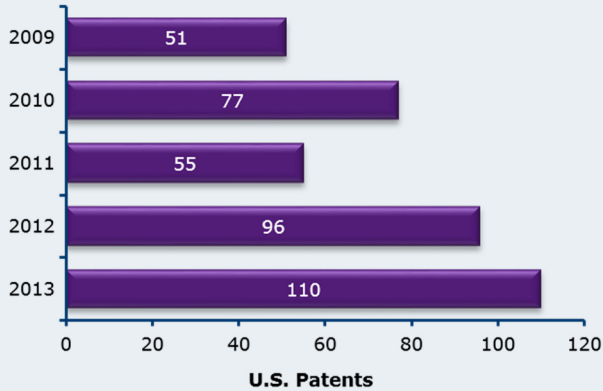


### Bioscience-Related Venture Capital Investments by Segment, 2009–2013

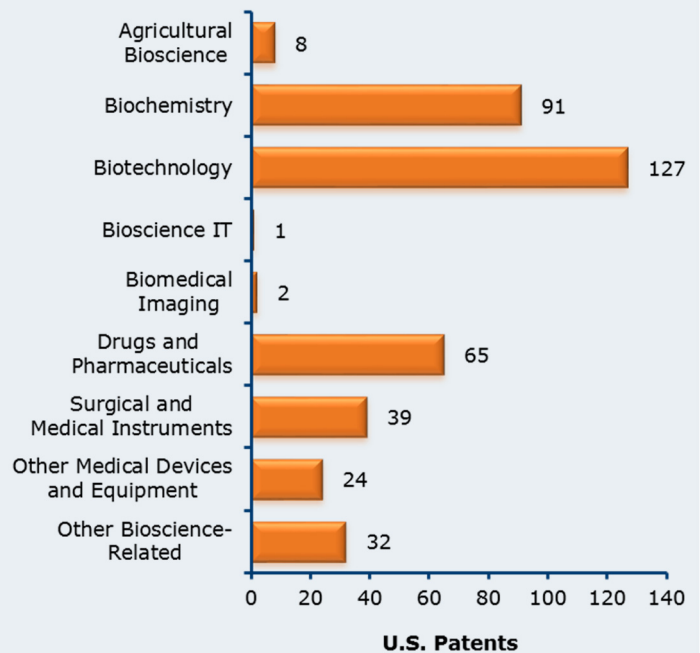


## Bioscience Patents in Nebraska

**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.