



TEconomy/BIO

The Value of Bioscience Innovation in Growing Jobs and Improving Quality of Life 2016

Nevada

Nevada’s bioscience industry is growing and in 2014 industry employment reached 5,206 in 438 business establishments across the state. The majority of state employment is concentrated in two industry subsectors—research, testing, and medical labs and in bioscience-related distribution. Nevada’s more modest presence in drugs and pharmaceuticals and medical devices and equipment has grown since 2012. Average annual wages among the state’s bioscience industry workers approached \$60,000 in 2014, 37 percent greater than the overall average for Nevada’s private sector. State inventors have been issued 451 bioscience-related patents since 2012 with a focus in medical and surgical devices and in drugs and pharmaceuticals.

Bioscience Performance Metrics

Summary of State Performance in Selected Bioscience-related Metrics

Metric	Nevada	United States	Quintile
Bioscience Industry, 2014			
Bioscience Industry Employment	5,206	1,655,680	V
Bioscience Industry Location Quotient	0.35	n/a	V
Bioscience Industry Establishments	438	77,283	IV
Academic Bioscience R&D Expenditures, FY 2014			
Bioscience R&D (\$ thousands)	\$58,878	\$38,873,926	V
Bioscience Share of Total R&D	40%	61%	V
Bioscience R&D Per Capita	\$21	\$122	V
NIH Funding, FY 2015			
Funding (\$ thousands)	\$24,990	\$22,869,746	V
Funding Per Capita	\$9	\$71	V
Bioscience Venture Capital Investments, 2012–15 (\$ millions)	\$2.1	\$48,742.10	V
Bioscience and Related Patents, 2012–15	451	101,026	IV

State ranking figures for bioscience performance metrics are calculated as quintiles, where:

top quintile – I II III IV V – bottom quintile

For source notes, see end of State Profile.



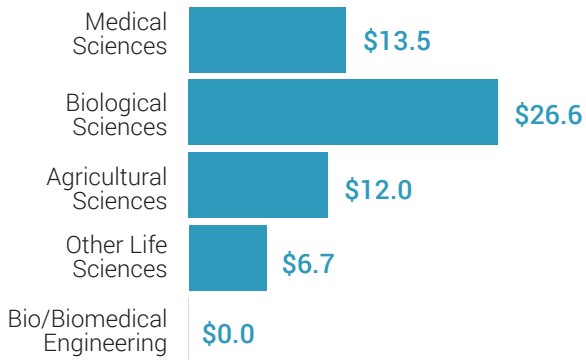
Industry Subsector	Nevada		United States	
	2014	2012–2014 Change	2014	2012–2014 Change
Agricultural Feedstock and Chemicals				
Establishments	7	-22.2%	1,811	2.2%
Employment	57	84.9%	77,545	1.5%
Location Quotient	0.08		n/a	
Direct-Effect Employment Multiplier	18.4		18.4	
Total Employment Impact	1,046		1,432,125	
Average Annual Wage	\$50,199	50.7%	\$80,640	6.3%
Bioscience-Related Distribution				
Establishments	146	6.3%	37,833	2.8%
Employment	1,393	-4.5%	452,325	2.3%
Location Quotient	0.34		n/a	
Direct-Effect Employment Multiplier	2.9		3.0	
Total Employment Impact	4,058		1,358,820	
Average Annual Wage	\$59,928	6.5%	\$90,458	6.2%
Drugs and Pharmaceuticals				
Establishments	24	9.1%	3,301	8.0%
Employment	801	53.2%	293,353	3.2%
Location Quotient	0.30		n/a	
Direct-Effect Employment Multiplier	10.6		11.0	
Total Employment Impact	8,485		3,242,627	
Average Annual Wage	\$47,245	2.8%	\$117,524	10.3%
Medical Devices and Equipment				
Establishments	39	14.7%	7,636	5.5%
Employment	826	79.0%	349,045	-0.1%
Location Quotient	0.26		n/a	
Direct-Effect Employment Multiplier	4.2		4.6	
Total Employment Impact	3,440		1,596,802	
Average Annual Wage	\$55,681	1.2%	\$79,537	5.1%
Research, Testing, and Medical Laboratories				
Establishments	222	30.7%	26,702	10.2%
Employment	2,130	-7.5%	483,412	3.4%
Location Quotient	0.48		n/a	
Direct-Effect Employment Multiplier	2.8		3.1	
Total Employment Impact	6,010		1,554,719	
Average Annual Wage	\$66,342	-0.2%	\$97,485	6.8%
Total Bioscience Industry				
Establishments	438	17.7%	77,283	5.7%
Employment	5,206	9.0%	1,655,680	2.2%
Location Quotient	0.35		n/a	
Direct-Effect Employment Multiplier	4.9		5.5	
Total Employment Impact	25,508		9,185,094	
Average Annual Wage	\$59,820	0.0%	\$94,543	7.2%
Total Private Sector				
Establishments	74,324	4.8%	8,937,672	2.7%
Employment	1,054,796	6.8%	116,018,300	4.4%
Average Annual Wage	\$43,514	2.6%	\$51,148	4.3%

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

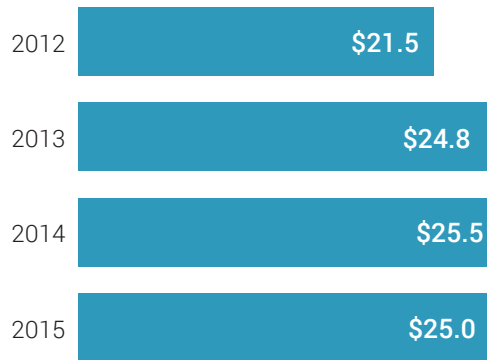


Bioscience Research in Nevada

Bioscience Academic R&D Expenditures
\$ Millions
FY 2014

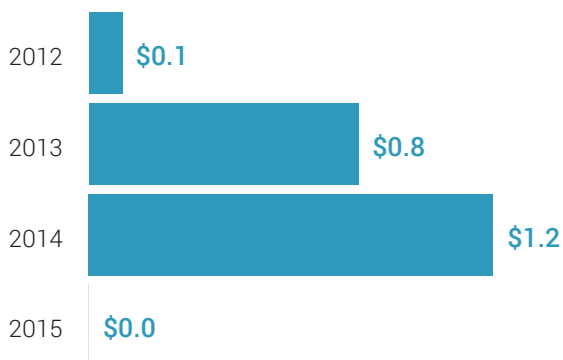


NIH Awards
\$ Millions
FY 2012-2015

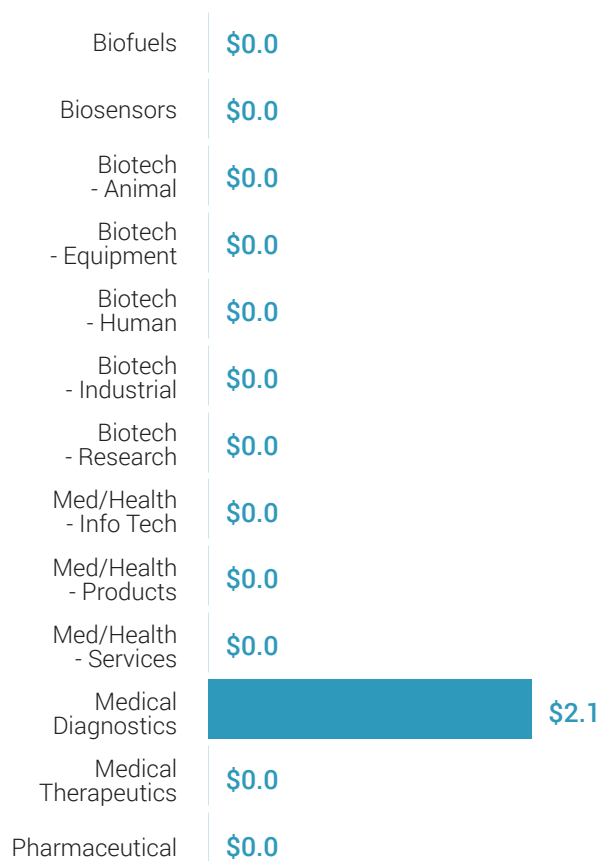


Bioscience Venture Capital in Nevada

Bioscience-Related Venture Capital Investments
\$ Millions
2012-2015



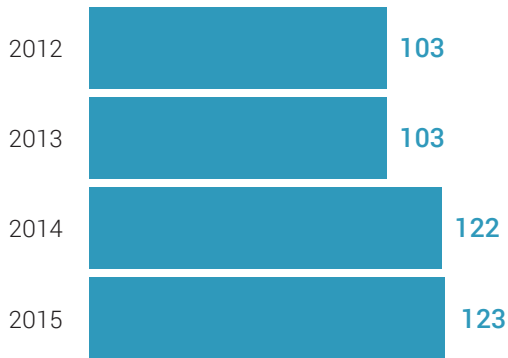
Bioscience-Related Venture Capital Investments by Segment
\$ Millions
2012-2015



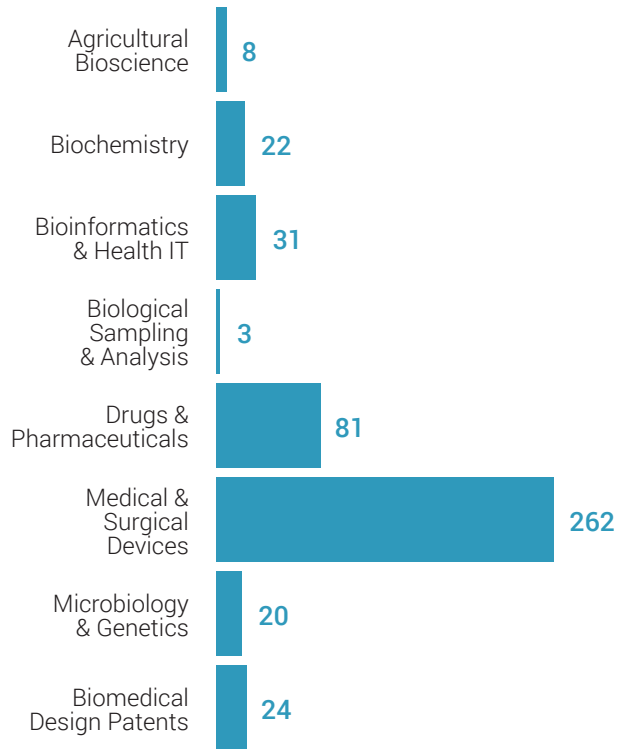


Bioscience Patents in Nevada

Bioscience-Related U.S. Patents 2012-2015



Bioscience-Related U.S. Patents by Segment 2012-2015



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).

Venture Capital: Thomson Reuters Thomson ONE venture capital database.

Patents: U.S. Patent & Trademark Office data from Thomson Reuters Thomson Innovation patent analysis database.

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