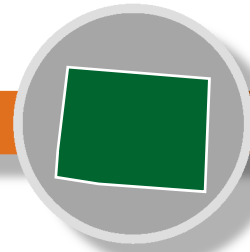


Wyoming



Wyoming's bioscience industry employed 883 in 2012 while operating 137 business establishments across the state. The state industry has increased employment by 7 percent since 2007, a period which includes the deep national recession and early years of the recovery. The largest bioscience subsector is agricultural feedstock and chemicals, which also has a specialized employment concentration in Wyoming with a location quotient of 2.13 or 113 percent greater concentration in the state economy relative to the national average. Average wages for bioscience workers in Wyoming were nearly \$69,000 per year, 55 percent greater than the state's private sector average. State inventors have been issued 152 bioscience-related patents since 2009 with a focus in biochemistry and in surgical and medical instruments.

Bioscience Performance Metrics

Summary of State Performance in Selected Bioscience-related Metrics

Metric	Wyoming	United States	Quintile
Bioscience Industry, 2012			
Bioscience Industry Employment	883	1,619,746	V
Bioscience Industry Location Quotient	0.29	n/a	V
Bioscience Industry Establishments	137	73,088	V
Academic Bioscience R&D Expenditures, FY 2012			
Bioscience R&D (\$ thousands)	\$20,236	\$38,139,876	V
Bioscience Share of Total R&D	32%	61%	V
Bioscience R&D Per Capita	\$35	\$119	V
NIH Funding, FY 2013			
Funding (\$ thousands)	\$7,681	\$22,293,255	V
Funding Per Capita	\$13	\$70	V
Bioscience Venture Capital Investments, 2009–13 (\$ millions)	\$0.0	\$49,401.7	n/a
Bioscience and Related Patents, 2009–13	152	100,238	V

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

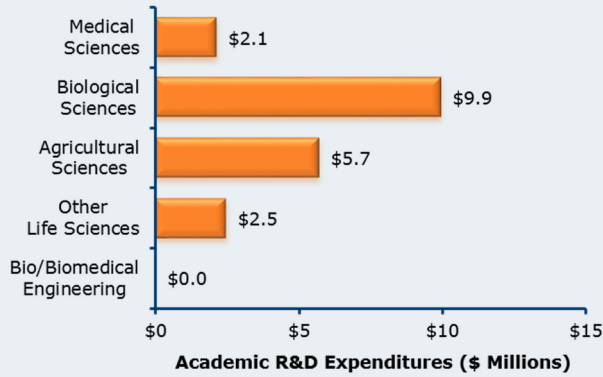
For source notes, see end of State Profile.

Industry Subsector	Wyoming		United States	
	2012	2007–2012 Change	2012	2007–2012 Change
Agricultural Feedstock & Chemicals				
Establishments	5	0.0%	1,772	5.2%
Employment	310	-0.4%	76,404	-1.0%
Location Quotient	2.13		n/a	
Direct-Effect Employment Multiplier	10.1		18.1	
Total Employment Impact	3,120		1,382,637	
Average Annual Wage	\$84,822	21.4%	\$75,828	14.2%
Bioscience-Related Distribution				
Establishments	91	14.6%	36,793	1.4%
Employment	269	-10.1%	442,016	-3.9%
Location Quotient	0.31		n/a	
Direct-Effect Employment Multiplier	2.1		2.7	
Total Employment Impact	570		1,199,015	
Average Annual Wage	\$64,957	22.1%	\$85,188	11.5%
Drugs and Pharmaceuticals				
Establishments	8	33.3%	3,057	12.0%
Employment	168	104.9%	284,331	-10.9%
Location Quotient	0.31		n/a	
Direct-Effect Employment Multiplier	4.8		9.9	
Total Employment Impact	812		2,673,265	
Average Annual Wage	\$49,879	6.7%	\$106,576	13.9%
Medical Devices and Equipment				
Establishments	7	40.0%	7,235	12.0%
Employment	32	8.1%	349,432	1.4%
Location Quotient	0.05		n/a	
Direct-Effect Employment Multiplier	3.0		3.9	
Total Employment Impact	98		1,318,459	
Average Annual Wage	\$96,387	140.7%	\$75,695	10.7%
Research, Testing, and Medical Laboratories				
Establishments	25	15.3%	24,231	31.0%
Employment	104	0.9%	467,563	9.7%
Location Quotient	0.12		n/a	
Direct-Effect Employment Multiplier	1.9		2.7	
Total Employment Impact	194		1,284,196	
Average Annual Wage	\$51,087	18.0%	\$91,248	15.9%
Total Bioscience Industry				
Establishments	137	16.1%	73,088	11.4%
Employment	883	7.0%	1,619,746	-0.4%
Location Quotient	0.29		n/a	
Direct-Effect Employment Multiplier	4.3		4.9	
Total Employment Impact	3,820		7,857,572	
Average Annual Wage	\$68,595	20.1%	\$88,202	12.8%
Total Private Sector				
Establishments	23,989	4.6%	8,699,564	-0.5%
Employment	212,205	-2.0%	111,137,206	-3.1%
Average Annual Wage	\$44,307	14.2%	\$49,130	11.1%

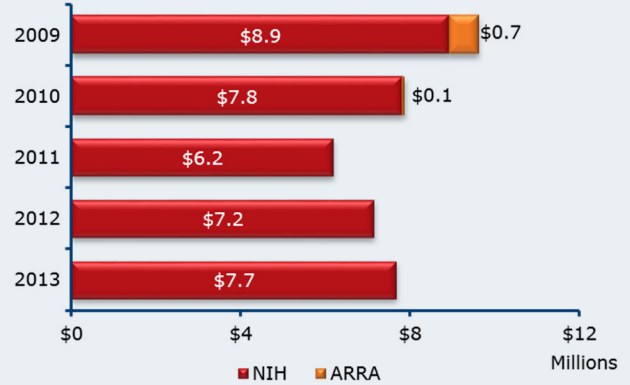
Note: U.S. employment metrics include Puerto Rico. Estimates of total impacts do not include Puerto Rico.

Bioscience Research in Wyoming

Bioscience Academic R&D Expenditures, FY 2012



NIH Awards, 2009–2013



Bioscience Venture Capital in Wyoming

Bioscience-Related Venture Capital Investments, 2009–2013

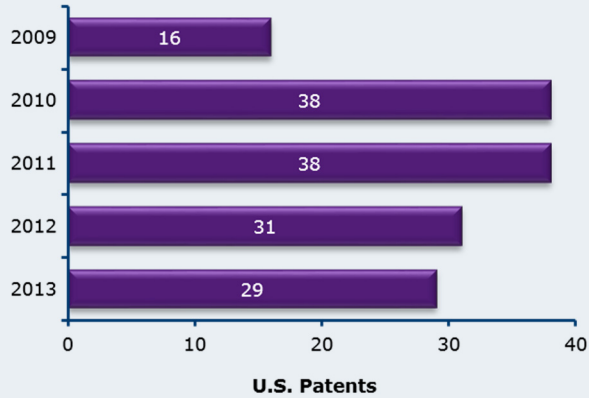
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Bioscience-Related Venture Capital Investments by Segment, 2009–2013

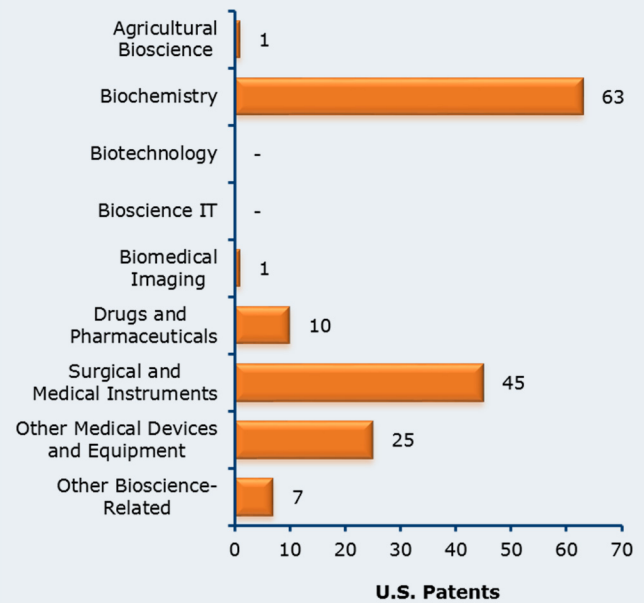
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Bioscience Patents in Wyoming

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.