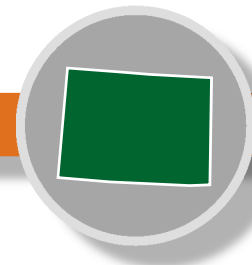


Colorado



Colorado’s bioscience industry is large and growing with 28,510 jobs in 2012 as a result of 11 percent job growth since 2007. The state’s specialized medical device and equipment subsector has driven much of this growth increasing employment by 23 percent since 2007. Employment gains in bioscience-related distribution in Colorado also have been significant. Colorado bioscience companies received \$1.1 billion in venture capital investments since 2009 which places the state among the top tier in funding. Venture capital has been invested largely in biotechnology, both human and industrial, and biofuels. State inventors have been issued 2,510 patents in bioscience-related technologies since 2009 with surgical and medical instruments the top focus area followed by biochemistry and drugs and pharmaceuticals.

Bioscience Performance Metrics

Summary of State Performance in Selected Bioscience-related Metrics

Metric	Colorado	United States	Quintile
Bioscience Industry, 2012			
Bioscience Industry Employment	28,510	1,619,746	II
Bioscience Industry Location Quotient	1.03	n/a	II
Bioscience Industry Establishments	1,589	73,088	II
Academic Bioscience R&D Expenditures, FY 2012			
Bioscience R&D (\$ thousands)	\$587,841	\$38,139,876	II
Bioscience Share of Total R&D	47%	61%	IV
Bioscience R&D Per Capita	\$112	\$119	III
NIH Funding, FY 2013			
Funding (\$ thousands)	\$316,251	\$22,293,255	II
Funding Per Capita	\$60	\$70	II
Bioscience Venture Capital Investments, 2009–13 (\$ millions)	\$1,105.9	\$49,401.7	I
Bioscience and Related Patents, 2009–13	2,510	100,238	II

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

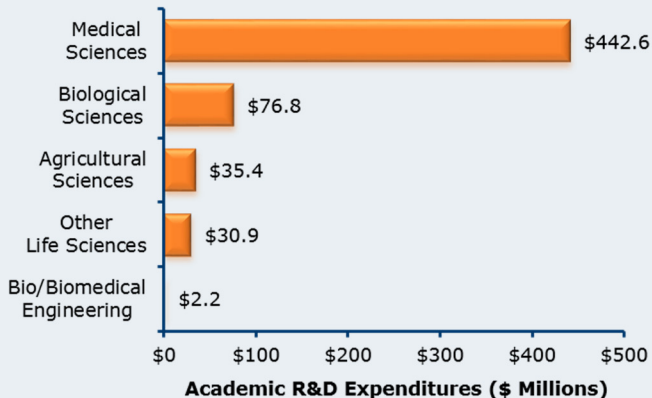
For source notes, see end of State Profile.

Industry Subsector	Colorado		United States	
	2012	2007–2012 Change	2012	2007–2012 Change
Agricultural Feedstock & Chemicals				
Establishments	27	28.6%	1,772	5.2%
Employment	334	-0.6%	76,404	-1.0%
Location Quotient	0.26		n/a	
Direct-Effect Employment Multiplier	15.7		18.1	
Total Employment Impact	5,240		1,382,637	
Average Annual Wage	\$53,675	-6.3%	\$75,828	14.2%
Bioscience-Related Distribution				
Establishments	804	-1.9%	36,793	1.4%
Employment	8,078	7.5%	442,016	-3.9%
Location Quotient	1.00		n/a	
Direct-Effect Employment Multiplier	2.9		2.7	
Total Employment Impact	23,565		1,199,015	
Average Annual Wage	\$91,851	5.9%	\$85,188	11.5%
Drugs and Pharmaceuticals				
Establishments	60	13.2%	3,057	12.0%
Employment	2,946	-5.0%	284,331	-10.9%
Location Quotient	0.61		n/a	
Direct-Effect Employment Multiplier	10.2		9.9	
Total Employment Impact	30,105		2,673,265	
Average Annual Wage	\$90,205	15.2%	\$106,576	13.9%
Medical Devices and Equipment				
Establishments	155	-0.6%	7,235	12.0%
Employment	9,797	23.0%	349,432	1.4%
Location Quotient	1.65		n/a	
Direct-Effect Employment Multiplier	4.2		3.9	
Total Employment Impact	40,991		1,318,459	
Average Annual Wage	\$73,229	9.0%	\$75,695	10.7%
Research, Testing, and Medical Laboratories				
Establishments	543	18.4%	24,231	31.0%
Employment	7,355	9.4%	467,563	9.7%
Location Quotient	0.92		n/a	
Direct-Effect Employment Multiplier	2.9		2.7	
Total Employment Impact	21,153		1,284,196	
Average Annual Wage	\$88,593	-1.8%	\$91,248	15.9%
Total Bioscience Industry				
Establishments	1,589	5.4%	73,088	11.4%
Employment	28,510	11.2%	1,619,746	-0.4%
Location Quotient	1.03		n/a	
Direct-Effect Employment Multiplier	4.6		4.9	
Total Employment Impact	130,121		7,857,572	
Average Annual Wage	\$83,994	4.8%	\$88,202	12.8%
Total Private Sector				
Establishments	168,340	-4.0%	8,699,564	-0.5%
Employment	1,891,264	-2.2%	111,137,206	-3.1%
Average Annual Wage	\$50,913	11.6%	\$49,130	11.1%

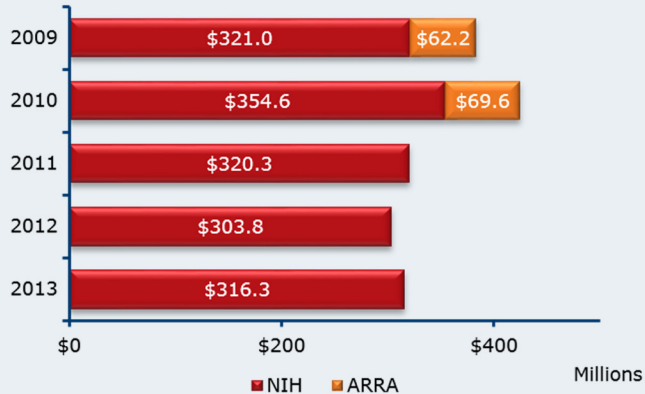
Note: U.S. employment metrics include Puerto Rico. Estimates of total impacts do not include Puerto Rico.

Bioscience Research in Colorado

Bioscience Academic R&D Expenditures, FY 2012



NIH Awards, 2009–2013

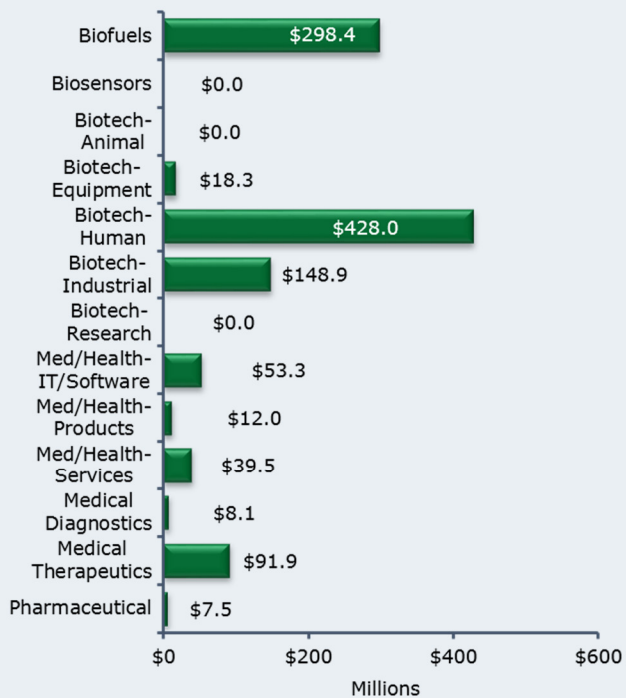


Bioscience Venture Capital in Colorado

Bioscience-Related Venture Capital Investments, 2009–2013

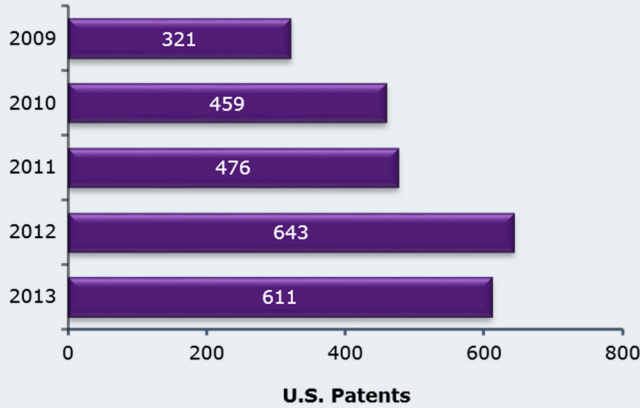


Bioscience-Related Venture Capital Investments by Segment, 2009–2013

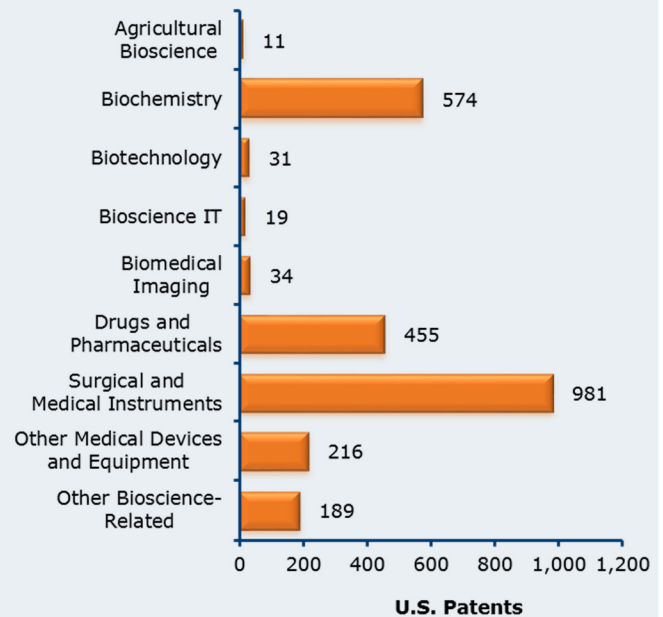


Bioscience Patents in Colorado

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.