



TEconomy/BIO

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

**Idaho**

Idaho has a diverse bioscience industry that employed 7,403 across 567 state business establishments in 2014. The state has a specialized employment concentration in three of the five major bioscience subsectors—agricultural feedstock and chemicals; bioscience-related distribution; and research, testing, and medical labs. NIH funding to Idaho institutions has risen in recent years and reached \$10.5 million in 2015. Since 2012, Idaho inventors have been issued 233 patents in bioscience patent classes that include medical and surgical devices; microbiology and genetics; and agricultural biosciences.

**Bioscience Performance Metrics**

Summary of State Performance in Selected Bioscience-related Metrics

Metric	Idaho	United States	Quintile
<b>Bioscience Industry, 2014</b>			
Bioscience Industry Employment	7,403	1,655,680	IV
Bioscience Industry Location Quotient	0.97	n/a	II
Bioscience Industry Establishments	567	77,283	IV
<b>Academic Bioscience R&amp;D Expenditures, FY 2014</b>			
Bioscience R&D (\$ thousands)	\$69,993	\$38,873,926	V
Bioscience Share of Total R&D	51%	61%	IV
Bioscience R&D Per Capita	\$43	\$122	V
<b>NIH Funding, FY 2015</b>			
Funding (\$ thousands)	\$10,520	\$22,869,746	V
Funding Per Capita	\$6	\$71	V
<b>Bioscience Venture Capital Investments, 2012–15 (\$ millions)</b>	\$0.0	\$48,742.10	V
<b>Bioscience and Related Patents, 2012–15</b>	233	101,026	V

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.



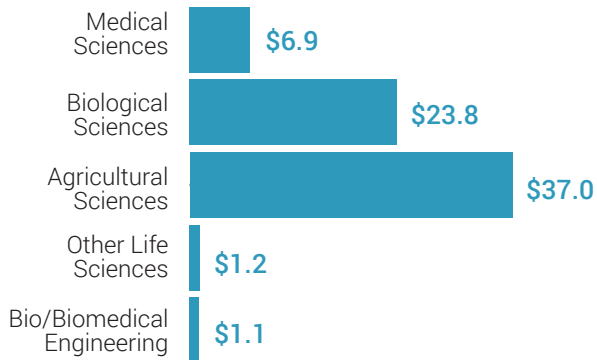
Industry Subsector	Idaho		United States	
	2014	2012–2014 Change	2014	2012–2014 Change
<b>Agricultural Feedstock and Chemicals</b>				
Establishments	37	-9.8%	1,811	2.2%
Employment	968	-1.7%	77,545	1.5%
Location Quotient	2.71		n/a	
Direct-Effect Employment Multiplier	18.1		18.4	
Total Employment Impact	17,550		1,432,125	
Average Annual Wage	\$72,014	7.9%	\$80,640	6.3%
<b>Bioscience-Related Distribution</b>				
Establishments	310	4.3%	37,833	2.8%
Employment	3,024	0.8%	452,325	2.3%
Location Quotient	1.45		n/a	
Direct-Effect Employment Multiplier	2.8		3.0	
Total Employment Impact	8,434		1,358,820	
Average Annual Wage	\$59,327	3.7%	\$90,458	6.2%
<b>Drugs and Pharmaceuticals</b>				
Establishments	24	14.3%	3,301	8.0%
Employment	385	8.8%	293,353	3.2%
Location Quotient	0.28		n/a	
Direct-Effect Employment Multiplier	7.8		11.0	
Total Employment Impact	3,015		3,242,627	
Average Annual Wage	\$49,842	3.3%	\$117,524	10.3%
<b>Medical Devices and Equipment</b>				
Establishments	59	20.4%	7,636	5.5%
Employment	331	6.4%	349,045	-0.1%
Location Quotient	0.21		n/a	
Direct-Effect Employment Multiplier	4.0		4.6	
Total Employment Impact	1,340		1,596,802	
Average Annual Wage	\$44,702	9.0%	\$79,537	5.1%
<b>Research, Testing, and Medical Laboratories</b>				
Establishments	136	8.4%	26,702	10.2%
Employment	2,695	-8.4%	483,412	3.4%
Location Quotient	1.21		n/a	
Direct-Effect Employment Multiplier	3.4		3.1	
Total Employment Impact	9,110		1,554,719	
Average Annual Wage	\$79,698	4.2%	\$97,485	6.8%
<b>Total Bioscience Industry</b>				
Establishments	567	6.1%	77,283	5.7%
Employment	7,403	-2.5%	1,655,680	2.2%
Location Quotient	0.97		n/a	
Direct-Effect Employment Multiplier	5.2		5.5	
Total Employment Impact	38,166		9,185,094	
Average Annual Wage	\$67,255	3.8%	\$94,543	7.2%
<b>Total Private Sector</b>				
Establishments	51,800	3.0%	8,937,672	2.7%
Employment	534,522	6.1%	116,018,300	4.4%
Average Annual Wage	\$37,945	5.8%	\$51,148	4.3%

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



### Bioscience Research in Idaho

Bioscience Academic R&D Expenditures  
\$ Millions  
FY 2014



NIH Awards  
\$ Millions  
FY 2012-2015

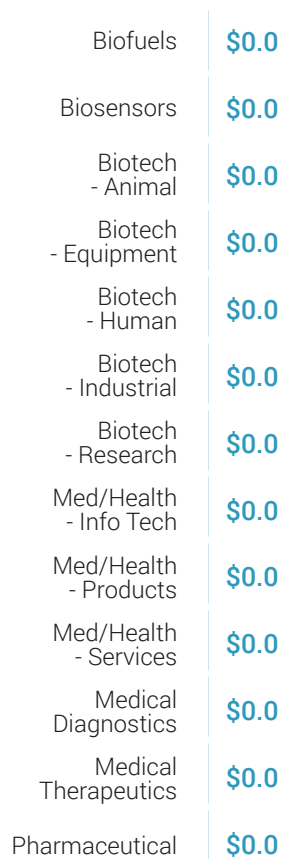


### Bioscience Venture Capital in Idaho

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



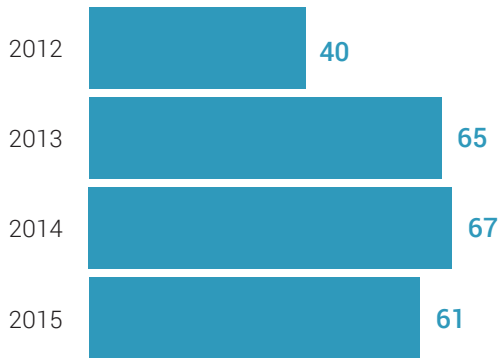
Bioscience-Related Venture  
Capital Investments by Segment  
\$ Millions  
2012-2015



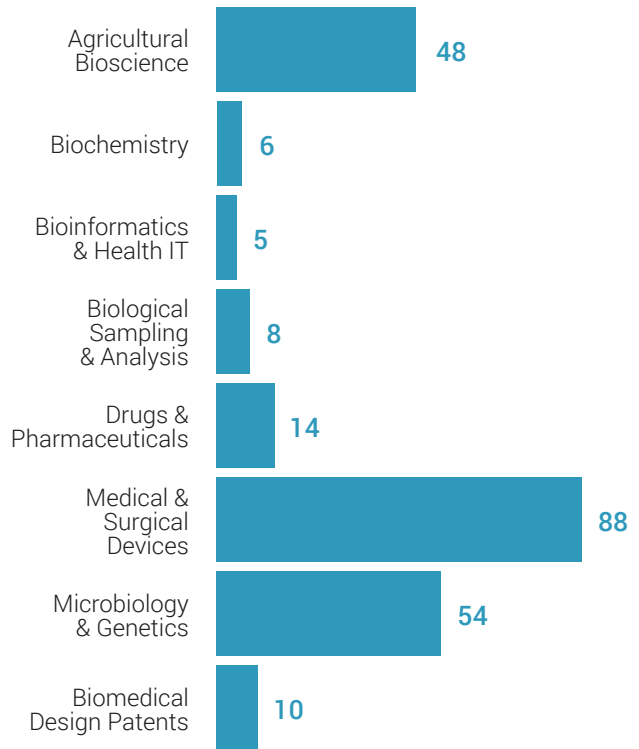


### Bioscience Patents in Idaho

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.