



Idaho's bioscience industry employed 4,734 in 2016 after a modest employment gain of 1.4 percent since 2014. The recent employment gains have come from three of the five major subsectors. State firms operate 606 bioscience establishments, a physical footprint that has increased by 14 percent since 2014. Idaho has a highly specialized employment concentration in agricultural feedstock and industrial biosciences with a location quotient of 2.75. Idaho institutions have increased their NIH funding awards from 2014-15 when they received about \$10.5 million each year to 2016-17 when they have been awarded \$14.1 million annually.

## Bioscience Performance Metrics

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

Metric	Idaho	United States	Quintile
<b>Bioscience Industry, 2016</b>			
Bioscience Industry Employment	4,734	1,743,639	V
Bioscience Industry Location Quotient	0.57	n/a	IV
Bioscience Industry Establishments	606	85,702	IV
<b>Academic Bioscience R&amp;D Expenditures, FY 2016</b>			
Bioscience R&D (\$ thousands)	\$77,772	\$41,972,205	V
Bioscience Share of Total R&D	52%	62%	IV
Bioscience R&D Per Capita	\$46	\$130	V
<b>NIH Funding, FY 2017</b>			
Funding (\$ thousands)	\$14,111	\$26,150,485	V
Funding Per Capita	\$8	\$80	V
<b>Bioscience Venture Capital Investments, 2014-17 (\$ millions)</b>	\$1.03	\$66,168.62	V
<b>Bioscience and Related Patents, 2014-17</b>	256	102,862	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	Idaho		United States	
	2016	2014-2016 Change	2016	2014-2016 Change
<b>Agricultural Feedstock and Industrial Biosciences</b>				
Establishments	42	13.5%	1,709	-3.2%
Employment	887	-8.4%	68,027	-1.2%
Location Quotient	2.75		n/a	
Direct-Effect Employment Multiplier	6.83			
Total Employment Impact	6,058			
Average Annual Wage	\$75,977	5.5%	\$80,961	2.7%
<b>Bioscience-Related Distribution</b>				
Establishments	281	4.8%	39,149	3.8%
Employment	2,100	-1.3%	469,640	3.7%
Location Quotient	0.94		n/a	
Direct-Effect Employment Multiplier	2.04			
Total Employment Impact	4,279			
Average Annual Wage	\$70,546	11.6%	\$93,677	2.7%
<b>Drugs and Pharmaceuticals</b>				
Establishments	37	54.2%	3,754	13.7%
Employment	440	14.3%	299,113	2.0%
Location Quotient	0.31		n/a	
Direct-Effect Employment Multiplier	2.79			
Total Employment Impact	1,228			
Average Annual Wage	\$55,007	10.4%	\$113,815	-3.2%
<b>Medical Devices and Equipment</b>				
Establishments	69	16.9%	8,083	5.9%
Employment	342	3.3%	359,293	2.9%
Location Quotient	0.20		n/a	
Direct-Effect Employment Multiplier	2.37			
Total Employment Impact	811			
Average Annual Wage	\$60,258	34.8%	\$84,746	6.5%
<b>Research, Testing and Medical Laboratories</b>				
Establishments	178	24.0%	33,007	13.1%
Employment	965	12.3%	547,566	8.2%
Location Quotient	0.37		n/a	
Direct-Effect Employment Multiplier	2.21			
Total Employment Impact	2,135			
Average Annual Wage	\$57,539	-1.1%	\$106,942	5.5%
<b>Total Bioscience Industry</b>				
Establishments	606	14.1%	85,702	7.7%
Employment	4,734	1.4%	1,743,639	4.4%
Location Quotient	0.57		n/a	
Direct-Effect Employment Multiplier	3.07			
Total Employment Impact	14,512			
Average Annual Wage	\$66,725	8.2%	\$98,961	3.1%
<b>Total Private Sector</b>				
Establishments	55,987	8.1%	9,243,034	3.4%
Employment	572,271	7.1%	120,884,570	4.2%
Average Annual Wage	\$39,534	4.2%	\$53,354	4.3%

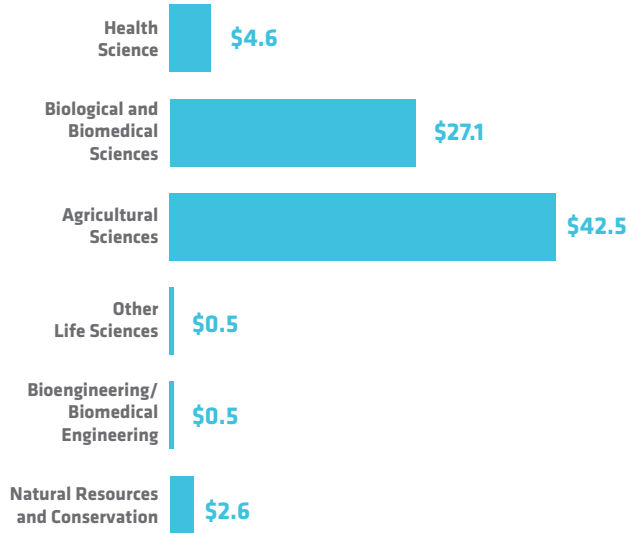
Note: U.S. employment metrics include Puerto Rico.

## Bioscience Research in Idaho

### Bioscience Academic R&D Expenditures

\$ Millions

FY 2016



### NIH Awards

\$ Millions

FY 2014-2017

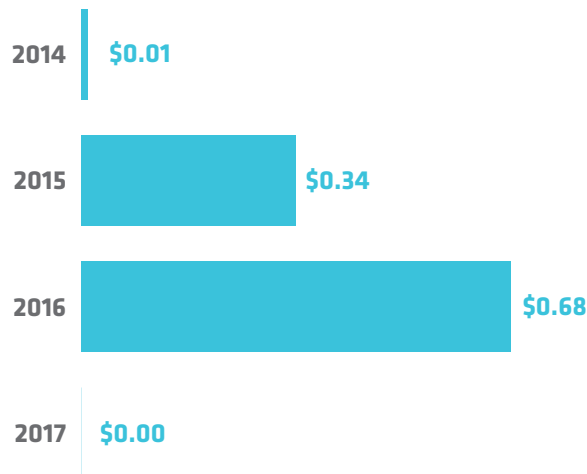


## Bioscience Venture Capital in Idaho

### Bioscience-Related Venture Capital Investments

\$ Millions

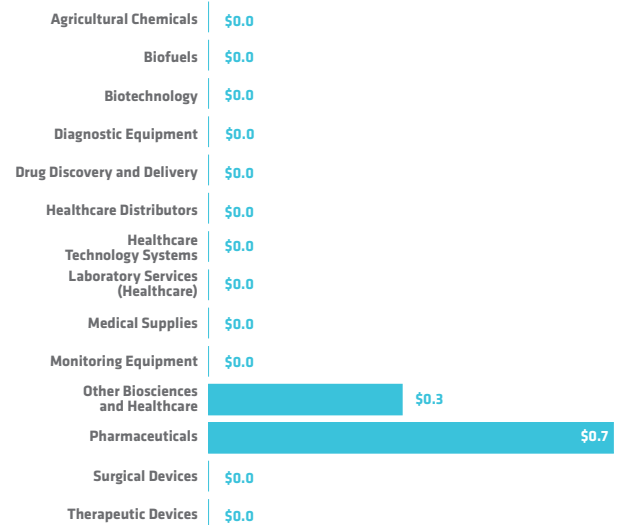
2014-2017



### Bioscience-Related Venture Capital Investments by Segment

\$ Millions

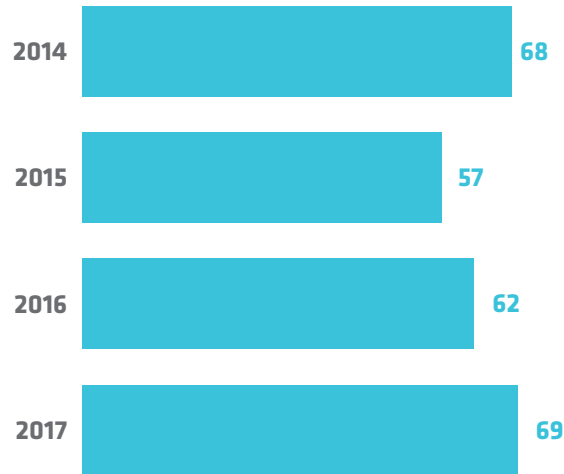
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## Bioscience Patents in Idaho

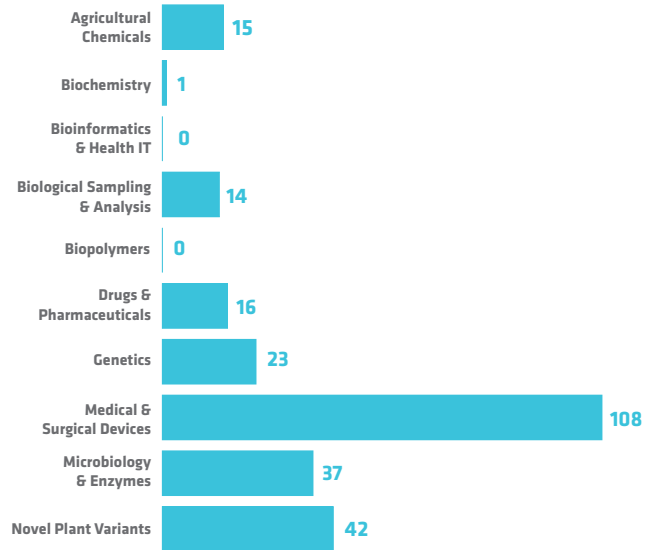
Bioscience-Related U.S. Patents

2014-2017



Bioscience-Related U.S. Patents by Segment

2014-2017



### Source Notes

**Employment, Establishments and Wages:** U.S. Bureau of Labor Statistics, Quarterly Census of Employment and Wages (QCEW), enhanced file from IMPLAN.

**Employment Multipliers:** IMPLAN 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:** PitchBook Data, Inc.

**Patents:** U.S. Patent & Trademark Office data from Clarivate Analytics' Derwent Innovation patent analysis database. For a more detailed discussion of the data and methodology used, please see the Appendix to the full national report.