



# Montana

The U.S. Bioscience Industry: Fostering Innovation and Driving America's Economy Forward

Montana's bioscience industry is modest in size but is growing. State bioscience firms have increased their employment base by 14 percent since 2018—just ahead of the pace of national job growth—to reach 3,745 industry jobs in 2021 in 645 state establishments. Montana's largest industry subsector is bioscience-related distribution with more than 1,500 jobs. The state's research universities conducted \$144 million in bioscience-related R&D activities in 2020. Bioscience-related venture capital investments in Montana companies have increased significantly in recent years and in 2021 reached nearly \$35 million.

## Bioscience Performance Metrics

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

Metric	Montana	United States	Quintile
<b>Bioscience Industry, 2021</b>			
Bioscience Industry Employment	3,745	2,135,704	V
Bioscience Industry Location Quotient	0.55	n/a	IV
Bioscience Industry Establishments	645	127,389	V
<b>Academic Bioscience R&amp;D Expenditures, FY 2020</b>			
Bioscience R&D (\$ thousands)	\$144,193	\$51,108,737	IV
Bioscience Share of Total R&D	55%	63%	III
Bioscience R&D Per Capita	\$133	\$154	III
<b>NIH Funding, FY 2021</b>			
Funding (\$ thousands)	\$47,862	\$34,751,109	V
Funding Per Capita	\$43	\$105	IV
<b>Bioscience Venture Capital Investments, 2018-21 (\$ millions)</b>			
	\$80.96	\$197,674.54	IV
<b>Bioscience-Related Patents, 2018-21</b>			
	163	153,072	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.

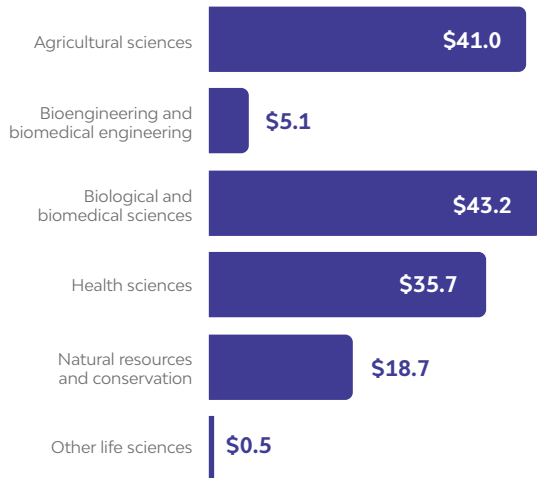
Industry Subsector		Montana		United States	
		2021	2018–2021 Change	2021	2018–2021 Change
Agricultural Feedstock and Industrial Biosciences	Establishments	17	3.0%	1,948	10.0%
	Employment	71	-42.3%	69,573	1.9%
	<i>Location Quotient</i>	0.32		n/a	
	Average Annual Wage	\$63,693	27.6%	\$91,989	13.1%
Bioscience-Related Distribution	Establishments	403	22.7%	62,697	14.7%
	Employment	1,557	11.2%	602,589	6.6%
	<i>Location Quotient</i>	0.81		n/a	
	Average Annual Wage	\$109,838	33.7%	\$121,606	15.0%
Medical Devices and Equipment	Establishments	35	-9.8%	10,268	17.4%
	Employment	565	10.3%	398,847	5.5%
	<i>Location Quotient</i>	0.44		n/a	
	Average Annual Wage	\$48,724	15.3%	\$98,481	8.7%
Pharmaceuticals	Establishments	24	26.0%	5,973	34.7%
	Employment	885	34.3%	344,839	11.9%
	<i>Location Quotient</i>	0.80		n/a	
	Average Annual Wage	\$64,034	41.2%	\$126,153	10.3%
Research, Testing, and Medical Laboratories	Establishments	165	59.0%	46,503	34.5%
	Employment	667	14.1%	719,856	19.3%
	<i>Location Quotient</i>	0.29		n/a	
	Average Annual Wage	\$87,516	26.1%	\$147,396	22.0%
Total Bioscience Industry	Establishments	645	27.2%	127,389	22.3%
	Employment	3,745	14.2%	2,135,704	11.0%
	<i>Location Quotient</i>	0.55		n/a	
	Average Annual Wage	\$84,944	30.6%	\$125,750	16.4%
Total Private Sector	Establishments	52,829	10.3%	10,665,643	9.3%
	Employment	395,467	3.6%	123,376,557	-1.5%
	<i>Location Quotient</i>	1.00		n/a	
	Average Annual Wage	\$50,756	20.0%	\$67,826	18.9%

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

## Bioscience Research in Montana

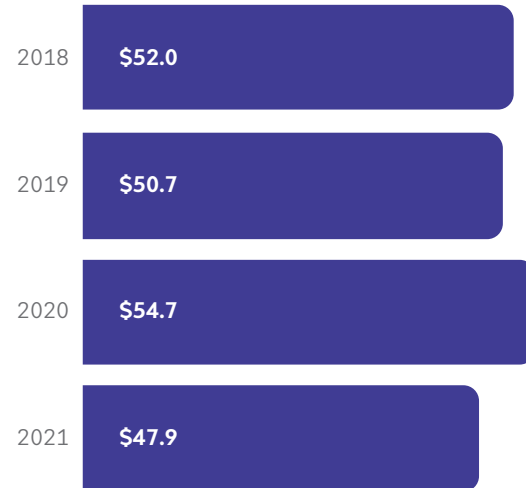
### Bioscience Academic R&D Expenditures

\$ Millions, FY 2020



### NIH Awards

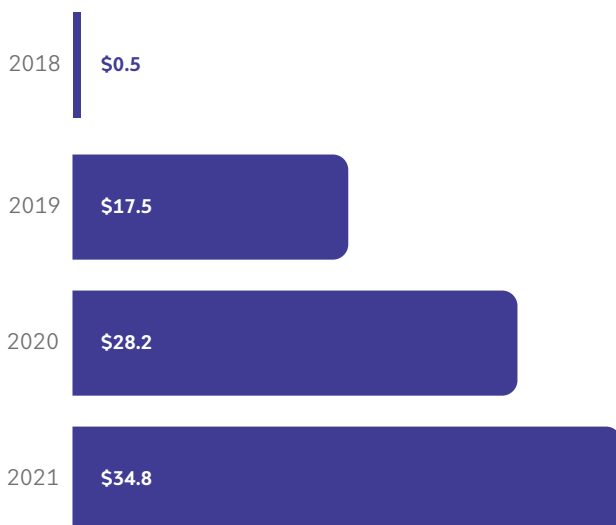
\$ Millions, FY 2018-2021



## Bioscience Venture Capital in Montana

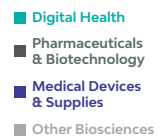
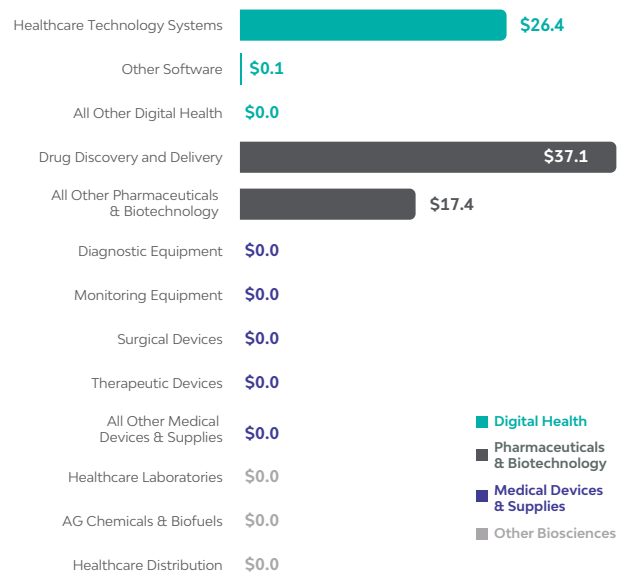
### Bioscience-Related Venture Capital Investments

\$ Millions, 2018-2021



### Bioscience-Related Venture Capital Investments by Segment

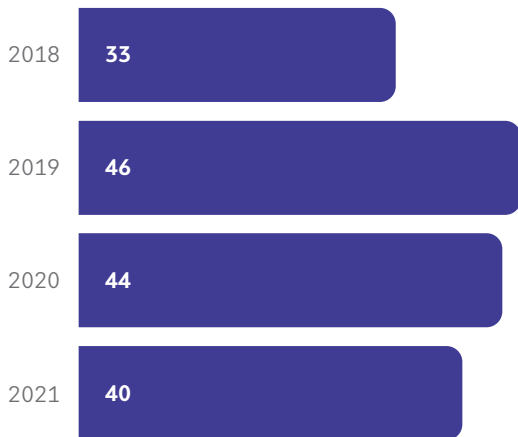
\$ Millions, 2018-2021



## Bioscience Patents in Montana

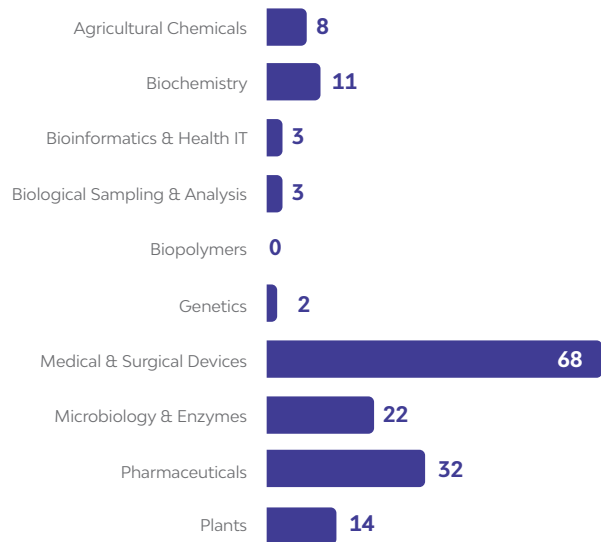
### Bioscience-Related U.S. Patents

2018-2021



### Bioscience-Related U.S. Patents by Segment

2018-2021



## Source Notes

**Employment, Establishments and Wages:** U.S. Bureau of Labor Statistics, Quarterly Census of Employment and Wages (QCEW), enhanced by Lightcast (Datarun 2022.3).

**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.*