



Wyoming

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

Wyoming's bioscience industry employed 1,073 in 2021 across 238 state business establishments. The industry has experienced an employment decline in the state since 2018. Wyoming has a specialized employment concentration in the agricultural feedstock and industrial biosciences subsector with a location quotient of 2.97. The state has seen steady levels of NIH funding awarded to Wyoming institutions which totaled \$12.8 million in 2021.

Bioscience Performance Metrics

Summary of State Performance in Selected Bioscience-related Metrics

Metric	Wyoming	United States	Quintile
Bioscience Industry, 2021			
Bioscience Industry Employment	1,073	2,135,704	V
Bioscience Industry Location Quotient	0.31	n/a	V
Bioscience Industry Establishments	238	127,389	V
Academic Bioscience R&D Expenditures, FY 2020			
Bioscience R&D (\$ thousands)	\$47,112	\$51,108,737	V
Bioscience Share of Total R&D	51%	63%	IV
Bioscience R&D Per Capita	\$82	\$154	IV
NIH Funding, FY 2021			
Funding (\$ thousands)	\$12,840	\$34,751,109	V
Funding Per Capita	\$22	\$105	V
Bioscience Venture Capital Investments, 2018-21 (\$ millions)			
	\$5.86	\$197,674.54	V
Bioscience-Related Patents, 2018-21			
	105	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.

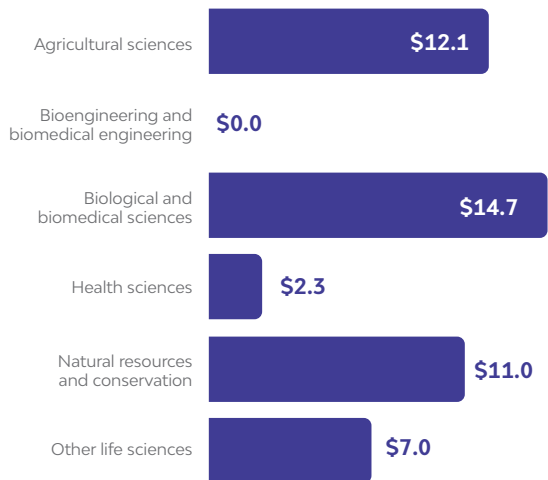
Industry Subsector		Wyoming		United States	
		2021	2018–2021 Change	2021	2018–2021 Change
Agricultural Feedstock and Industrial Biosciences	Establishments	4	14.3%	1,948	10.0%
	Employment	337	-5.0%	69,573	1.9%
	<i>Location Quotient</i>	2.97		n/a	
	Average Annual Wage	\$104,899	25.0%	\$91,989	13.1%
Bioscience- Related Distribution	Establishments	137	26.2%	62,697	14.7%
	Employment	365	15.1%	602,589	6.6%
	<i>Location Quotient</i>	0.37		n/a	
	Average Annual Wage	\$78,106	4.5%	\$121,606	15.0%
Medical Devices and Equipment	Establishments	6	0.0%	10,268	17.4%
	Employment	94	97.4%	398,847	5.5%
	<i>Location Quotient</i>	0.14		n/a	
	Average Annual Wage	\$56,664	20.2%	\$98,481	8.7%
Pharmaceuticals	Establishments	8	-22.5%	5,973	34.7%
	Employment	71	-64.0%	344,839	11.9%
	<i>Location Quotient</i>	0.13		n/a	
	Average Annual Wage	\$49,560	-31.2%	\$126,153	10.3%
Research, Testing, and Medical Laboratories	Establishments	83	42.1%	46,503	34.5%
	Employment	206	12.5%	719,856	19.3%
	<i>Location Quotient</i>	0.18		n/a	
	Average Annual Wage	\$73,581	18.2%	\$147,396	22.0%
Total Bioscience Industry	Establishments	238	27.5%	127,389	22.3%
	Employment	1,073	-2.4%	2,135,704	11.0%
	<i>Location Quotient</i>	0.31		n/a	
	Average Annual Wage	\$81,889	10.7%	\$125,750	16.4%
Total Private Sector	Establishments	26,773	7.6%	10,665,643	9.3%
	Employment	201,467	-2.8%	123,376,557	-1.5%
	<i>Location Quotient</i>	1.00		n/a	
	Average Annual Wage	\$52,578	10.8%	\$67,826	18.9%

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

Bioscience Research in Wyoming

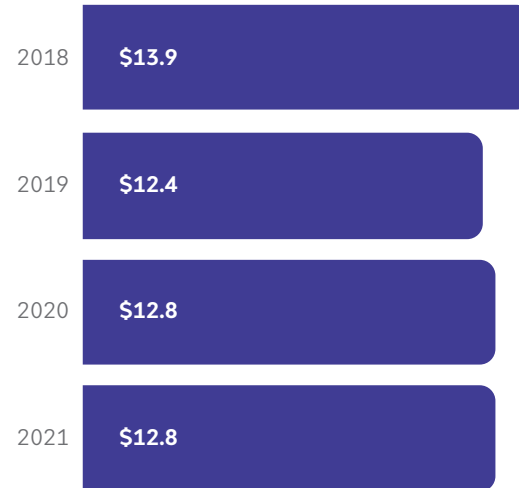
Bioscience Academic R&D Expenditures

\$ Millions, FY 2020



NIH Awards

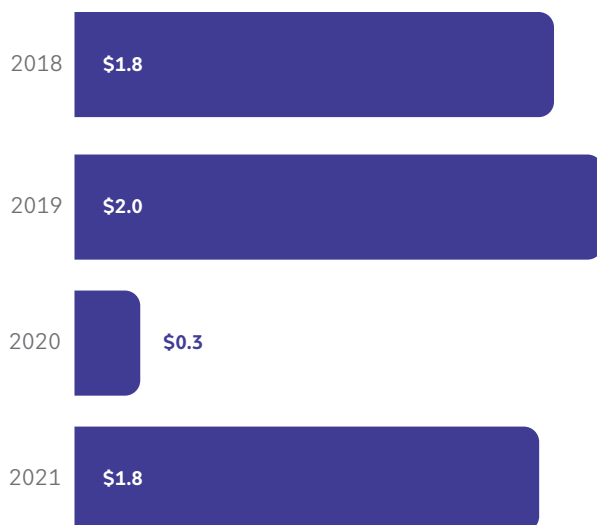
\$ Millions, FY 2018-2021



Bioscience Venture Capital in Wyoming

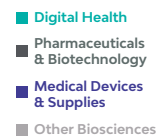
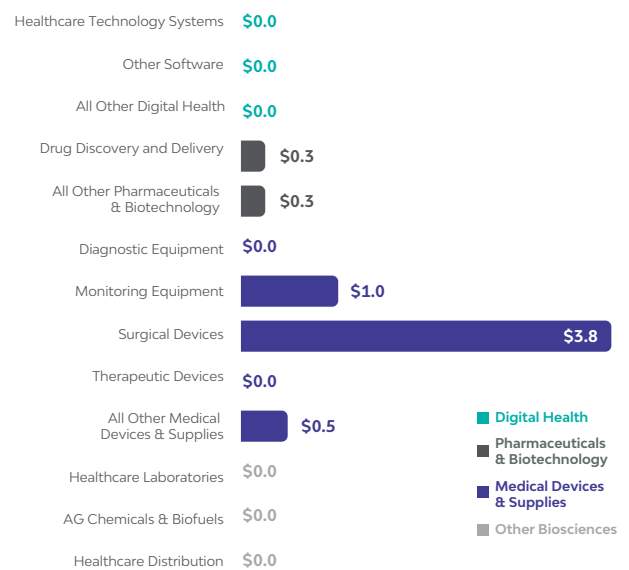
Bioscience-Related Venture Capital Investments

\$ Millions, 2018-2021



Bioscience-Related Venture Capital Investments by Segment

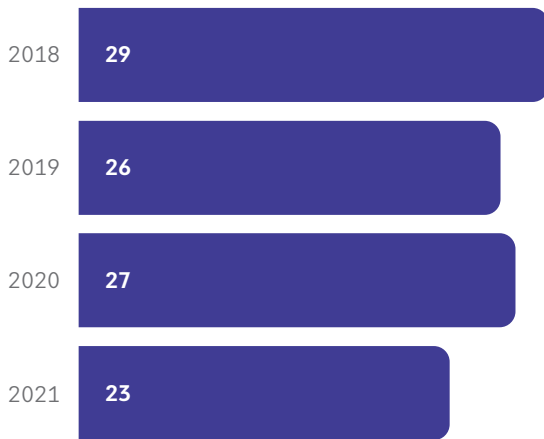
\$ Millions, 2018-2021



Bioscience Patents in Wyoming

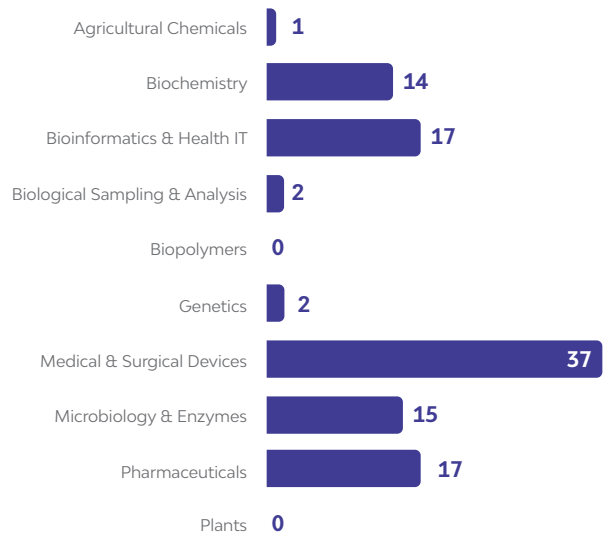
Bioscience-Related U.S. Patents

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.