



Oregon

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

Oregon's bioscience industry has grown in recent years, with state firms increasing their employment base by 9 percent since 2018 to reach more than 17,000 jobs spanning 1,664 business establishments in 2021. Three of the industry's five subsectors contributed to the state's overall employment increase during this period with double-digit growth rates. Oregon's research universities conducted nearly \$652 million in bioscience-related R&D in 2020. Oregon has a particularly strong focus in biosciences research across its universities, accounting for 77 percent of all academic R&D, well above the national average of 63 percent. Venture capital investments in Oregon bioscience companies increased significantly in 2021 and totaled \$198 million.

Bioscience Performance Metrics

Summary of State Performance in Selected Bioscience-related Metrics

Metric	Oregon	United States	Quintile
Bioscience Industry, 2021			
Bioscience Industry Employment	17,392	2,135,704	III
Bioscience Industry Location Quotient	0.62	n/a	IV
Bioscience Industry Establishments	1,664	127,389	III
Academic Bioscience R&D Expenditures, FY 2020			
Bioscience R&D (\$ thousands)	\$651,960	\$51,108,737	III
Bioscience Share of Total R&D	77%	63%	I
Bioscience R&D Per Capita	\$154	\$154	II
NIH Funding, FY 2021			
Funding (\$ thousands)	\$421,655	\$34,751,109	II
Funding Per Capita	\$99	\$105	II
Bioscience Venture Capital Investments, 2018-21 (\$ millions)			
	\$436.61	\$197,674.54	III
Bioscience-Related Patents, 2018-21			
	1,318	153,072	III

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.

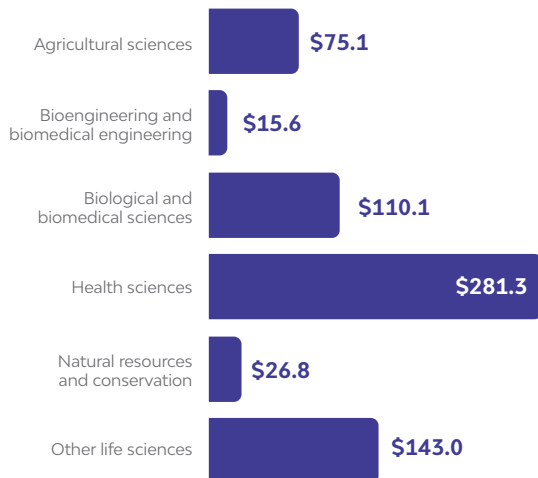
Industry Subsector		Oregon		United States	
		2021	2018–2021 Change	2021	2018–2021 Change
Agricultural Feedstock and Industrial Biosciences	Establishments	36	-8.8%	1,948	10.0%
	Employment	580	-1.5%	69,573	1.9%
	<i>Location Quotient</i>	0.64		n/a	
	Average Annual Wage	\$73,774	14.7%	\$91,989	13.1%
Bioscience- Related Distribution	Establishments	803	11.8%	62,697	14.7%
	Employment	7,156	13.2%	602,589	6.6%
	<i>Location Quotient</i>	0.91		n/a	
	Average Annual Wage	\$102,517	12.3%	\$121,606	15.0%
Medical Devices and Equipment	Establishments	140	22.6%	10,268	17.4%
	Employment	4,603	-1.7%	398,847	5.5%
	<i>Location Quotient</i>	0.88		n/a	
	Average Annual Wage	\$78,571	13.6%	\$98,481	8.7%
Pharmaceuticals	Establishments	70	33.7%	5,973	34.7%
	Employment	1,236	20.3%	344,839	11.9%
	<i>Location Quotient</i>	0.27		n/a	
	Average Annual Wage	\$64,730	12.2%	\$126,153	10.3%
Research, Testing, and Medical Laboratories	Establishments	616	37.2%	46,503	34.5%
	Employment	3,816	16.3%	719,856	19.3%
	<i>Location Quotient</i>	0.41		n/a	
	Average Annual Wage	\$87,286	21.7%	\$147,396	22.0%
Total Bioscience Industry	Establishments	1,664	21.2%	127,389	22.3%
	Employment	17,392	9.4%	2,135,704	11.0%
	<i>Location Quotient</i>	0.62		n/a	
	Average Annual Wage	\$89,192	15.0%	\$125,750	16.4%
Total Private Sector	Establishments	165,129	10.7%	10,665,643	9.3%
	Employment	1,612,800	-2.2%	123,376,557	-1.5%
	<i>Location Quotient</i>	1.00		n/a	
	Average Annual Wage	\$63,089	21.1%	\$67,826	18.9%

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

Bioscience Research in Oregon

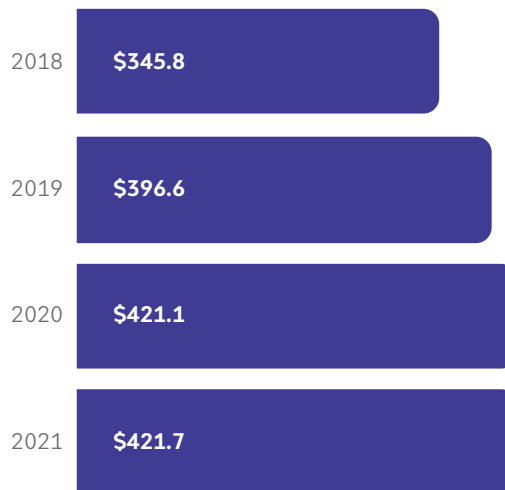
Bioscience Academic R&D Expenditures

\$ Millions, FY 2020



NIH Awards

\$ Millions, FY 2018-2021



Bioscience Venture Capital in Oregon

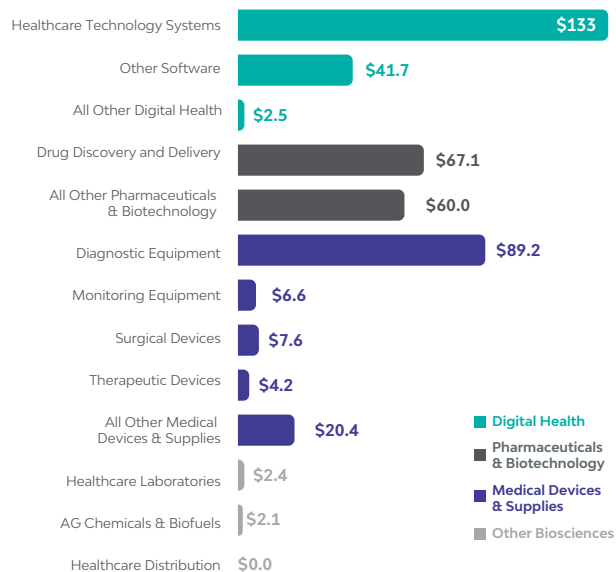
Bioscience-Related Venture Capital Investments

\$ Millions, 2018-2021



Bioscience-Related Venture Capital Investments by Segment

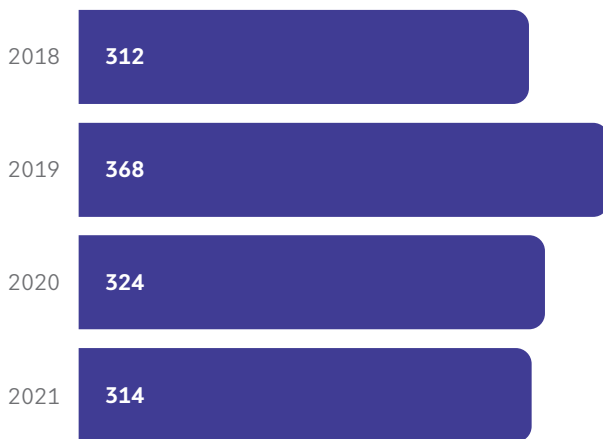
\$ Millions, 2018-2021



Bioscience Patents in Oregon

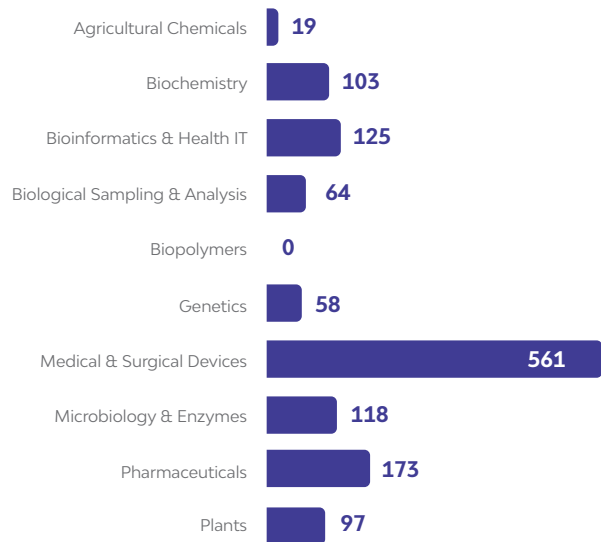
Bioscience-Related U.S. Patents

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.