



Hawaii

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

Hawaii's bioscience industry employed 3,393 in 2021 across 424 individual business establishments. Almost two-thirds of industry jobs are in the research, testing and medical labs subsector. State bioscience industry employment has increased by 3 percent since 2018. The state's research universities conducted nearly \$130 million in bioscience-related R&D in 2020. Hawaiian inventors were awarded 213 patents in bioscience-related technology classes during the 2018-21 period, with the majority in medical and surgical devices.

Bioscience Performance Metrics

Summary of State Performance in Selected Bioscience-related Metrics

Metric	Hawaii	United States	Quintile
Bioscience Industry, 2021			
Bioscience Industry Employment	3,393	2,135,704	V
Bioscience Industry Location Quotient	0.42	n/a	V
Bioscience Industry Establishments	424	127,389	V
Academic Bioscience R&D Expenditures, FY 2020			
Bioscience R&D (\$ thousands)	\$129,910	\$51,108,737	V
Bioscience Share of Total R&D	44%	63%	V
Bioscience R&D Per Capita	\$89	\$154	IV
NIH Funding, FY 2021			
Funding (\$ thousands)	\$55,305	\$34,751,109	V
Funding Per Capita	\$38	\$105	IV
Bioscience Venture Capital Investments, 2018-21 (\$ millions)			
	\$20.69	\$197,674.54	V
Bioscience-Related Patents, 2018-21			
	213	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.

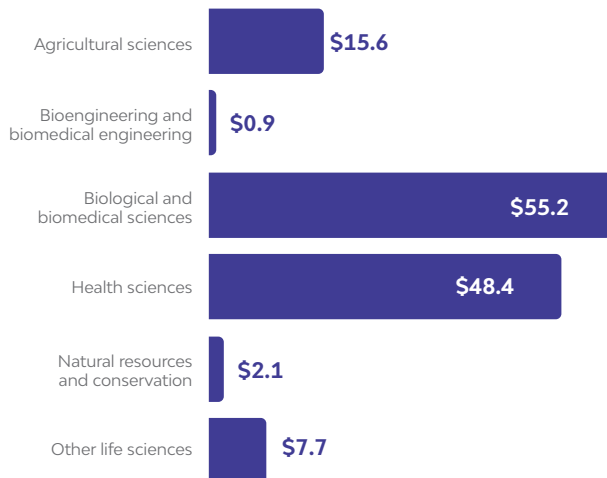
Industry Subsector		Hawaii		United States	
		2021	2018–2021 Change	2021	2018–2021 Change
Agricultural Feedstock and Industrial Biosciences	Establishments	5	-16.7%	1,948	10.0%
	Employment	64	21.9%	69,573	1.9%
	<i>Location Quotient</i>	0.24		n/a	
	Average Annual Wage	\$46,505	31.6%	\$91,989	13.1%
Bioscience-Related Distribution	Establishments	288	16.2%	62,697	14.7%
	Employment	1,134	-2.7%	602,589	6.6%
	<i>Location Quotient</i>	0.49		n/a	
	Average Annual Wage	\$100,141	7.7%	\$121,606	15.0%
Medical Devices and Equipment	Establishments	3	0.0%	10,268	17.4%
	Employment	7	74.6%	398,847	5.5%
	<i>Location Quotient</i>	0.00		n/a	
	Average Annual Wage	\$79,692	-7.4%	\$98,481	8.7%
Pharmaceuticals	Establishments	7	116.7%	5,973	34.7%
	Employment	16	-40.4%	344,839	11.9%
	<i>Location Quotient</i>	0.01		n/a	
	Average Annual Wage	\$80,260	37.8%	\$126,153	10.3%
Research, Testing, and Medical Laboratories	Establishments	121	41.0%	46,503	34.5%
	Employment	2,172	6.1%	719,856	19.3%
	<i>Location Quotient</i>	0.79		n/a	
	Average Annual Wage	\$69,530	13.6%	\$147,396	22.0%
Total Bioscience Industry	Establishments	424	22.5%	127,389	22.3%
	Employment	3,393	3.0%	2,135,704	11.0%
	<i>Location Quotient</i>	0.42		n/a	
	Average Annual Wage	\$79,396	10.2%	\$125,750	16.4%
Total Private Sector	Establishments	46,860	16.4%	10,665,643	9.3%
	Employment	470,237	-12.3%	123,376,557	-1.5%
	<i>Location Quotient</i>	1.00		n/a	
	Average Annual Wage	\$57,067	18.0%	\$67,826	18.9%

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

Bioscience Research in Hawaii

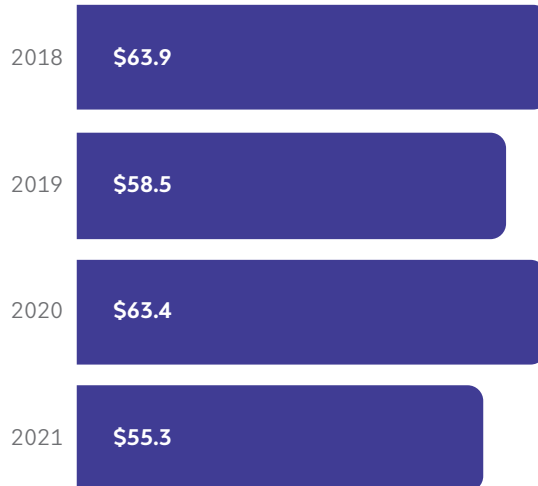
Bioscience Academic R&D Expenditures

\$ Millions, FY 2020



NIH Awards

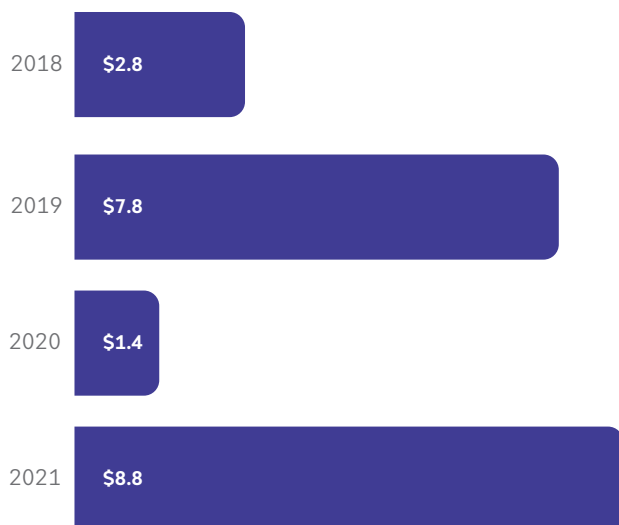
\$ Millions, FY 2018-2021



Bioscience Venture Capital in Hawaii

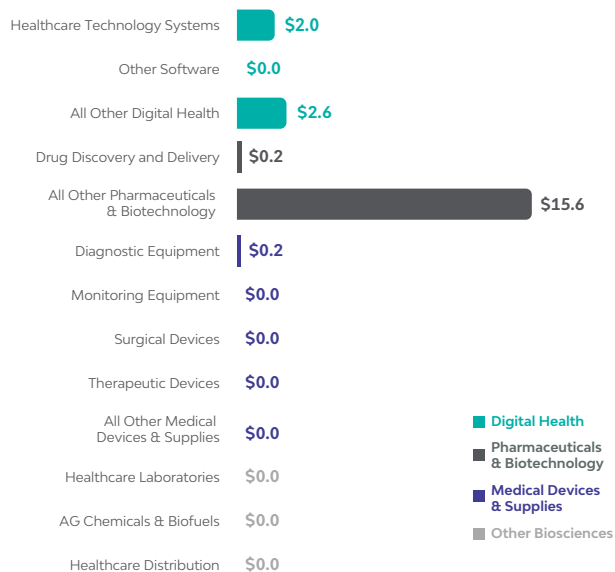
Bioscience-Related Venture Capital Investments

\$ Millions, 2018-2021



Bioscience-Related Venture Capital Investments by Segment

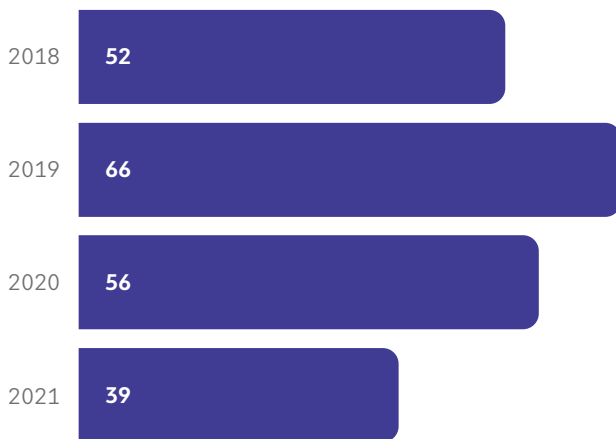
\$ Millions, 2018-2021



Bioscience Patents in Hawaii

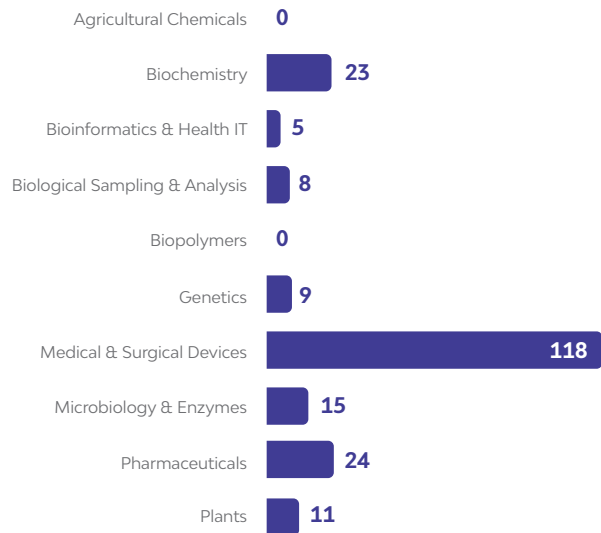
Bioscience-Related U.S. Patents

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.