

Delaware



Delaware has a diverse and highly specialized concentration in bioscience employment. The industry is 63 percent more concentrated in the state relative to the national average (location quotient is 1.63). Among the major bioscience industry subsectors, Delaware is considered to have a specialized concentration in medical devices and equipment; research, testing, and medical labs; and bioscience-related distribution. Among these key niche areas, the state has added jobs in medical devices (up 7.8 percent) and in research, testing, and medical labs (up 3.4 percent). Average annual wages among Delaware’s bioscience workers reached more than \$118,000 in 2012, among the highest in the nation. The focus of the state’s 1,150 bioscience-related patents since 2009 has primarily been in biochemistry, drugs and pharmaceuticals, and biotechnology.

Bioscience Performance Metrics

Summary of State Performance in Selected Bioscience-related Metrics

Metric	Delaware	United States	Quintile
Bioscience Industry, 2012			
Bioscience Industry Employment	8,174	1,619,746	IV
Bioscience Industry Location Quotient	1.63	n/a	I
Bioscience Industry Establishments	356	73,088	V
Academic Bioscience R&D Expenditures, FY 2012			
Bioscience R&D (\$ thousands)	\$59,479	\$38,139,876	V
Bioscience Share of Total R&D	34%	61%	V
Bioscience R&D Per Capita	\$64	\$119	IV
NIH Funding, FY 2013			
Funding (\$ thousands)	\$31,292	\$22,293,255	V
Funding Per Capita	\$34	\$70	III
Bioscience Venture Capital Investments, 2009–13 (\$ millions)	\$0.0	\$49,401.7	n/a
Bioscience and Related Patents, 2009–13	1,150	100,238	III

State ranking figures for bioscience performance metrics are calculated as quintiles, where I = top quintile, III = middle quintile, and V = bottom quintile.

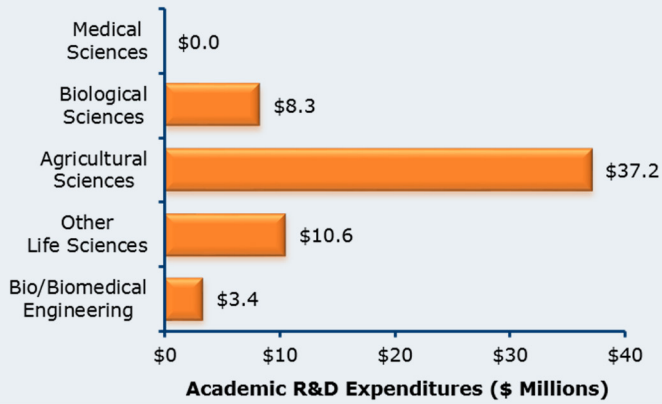
For source notes, see end of State Profile.

Industry Subsector	Delaware		United States	
	2012	2007-2012 Change	2012	2007-2012 Change
Agricultural Feedstock & Chemicals				
Establishments	4	0.0%	1,772	5.2%
Employment	61	-83.2%	76,404	-1.0%
Location Quotient	0.26		n/a	
Direct-Effect Employment Multiplier	31.3		18.1	
Total Employment Impact	1,926		1,382,637	
Average Annual Wage	\$81,761	-15.3%	\$75,828	14.2%
Bioscience-Related Distribution				
Establishments	165	19.7%	36,793	1.4%
Employment	1,976	-36.0%	442,016	-3.9%
Location Quotient	1.62		n/a	
Direct-Effect Employment Multiplier	2.6		2.7	
Total Employment Impact	5,059		1,199,015	
Average Annual Wage	\$180,856	56.0%	\$85,188	11.5%
Drugs and Pharmaceuticals				
Establishments	36	300.0%	3,057	12.0%
Employment	617	-8.9%	284,331	-10.9%
Location Quotient	0.70		n/a	
Direct-Effect Employment Multiplier	6.3		9.9	
Total Employment Impact	3,858		2,673,265	
Average Annual Wage	\$82,464	4.1%	\$106,576	13.9%
Medical Devices and Equipment				
Establishments	60	114.3%	7,235	12.0%
Employment	2,764	7.8%	349,432	1.4%
Location Quotient	2.55		n/a	
Direct-Effect Employment Multiplier	3.6		3.9	
Total Employment Impact	9,832		1,318,459	
Average Annual Wage	\$87,464	2.8%	\$75,695	10.7%
Research, Testing, and Medical Laboratories				
Establishments	91	37.5%	24,231	31.0%
Employment	2,756	3.4%	467,563	9.7%
Location Quotient	1.90		n/a	
Direct-Effect Employment Multiplier	2.9		2.7	
Total Employment Impact	7,869		1,284,196	
Average Annual Wage	\$112,455	9.9%	\$91,248	15.9%
Total Bioscience Industry				
Establishments	356	45.3%	73,088	11.4%
Employment	8,174	-12.7%	1,619,746	-0.4%
Location Quotient	1.63		n/a	
Direct-Effect Employment Multiplier	3.8		4.9	
Total Employment Impact	31,118		7,857,572	
Average Annual Wage	\$118,042	17.8%	\$88,202	12.8%
Total Private Sector				
Establishments	27,298	-8.2%	8,699,564	-0.5%
Employment	344,863	-5.4%	111,137,206	-3.1%
Average Annual Wage	\$51,783	9.7%	\$49,130	11.1%

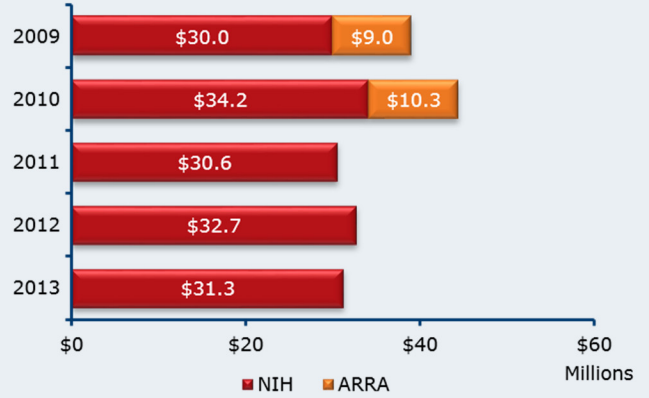
Note: U.S. employment metrics include Puerto Rico. Estimates of total impacts do not include Puerto Rico.

Bioscience Research in Delaware

Bioscience Academic R&D Expenditures, FY 2012



NIH Awards, 2009–2013



Bioscience Venture Capital in Delaware

Bioscience-Related Venture Capital Investments, 2009–2013

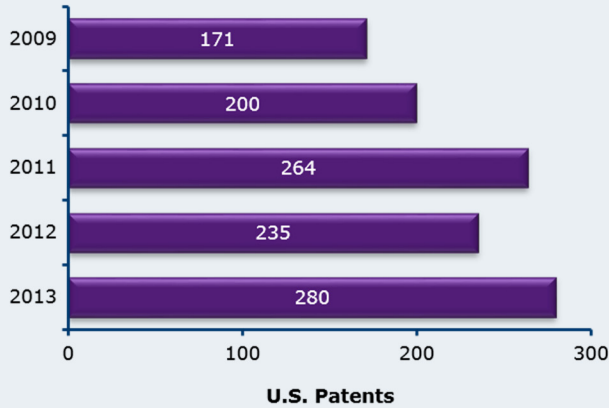
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Bioscience-Related Venture Capital Investments by Segment, 2009–2013

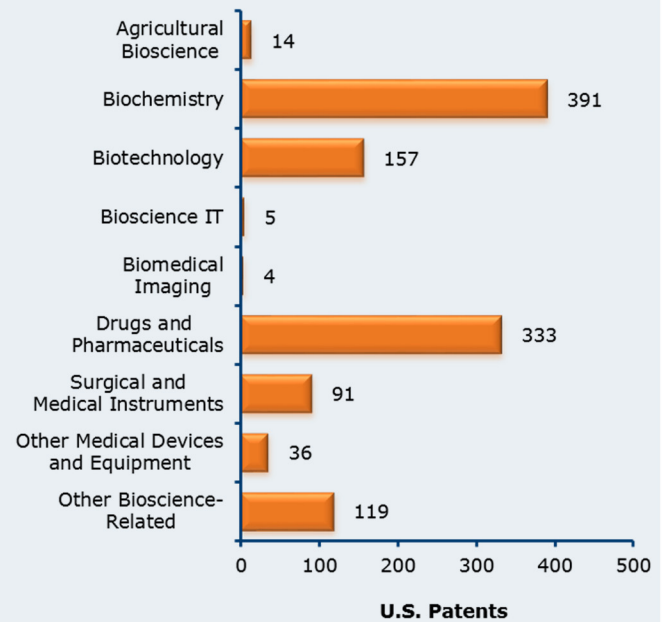
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Bioscience Patents in Delaware

Bioscience-Related Patents, 2009–2013



Bioscience-Related Patents by Segment, 2009–2013



Source Notes

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

Employment Multipliers: IMPLAN Group, LLC 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), and NIH-managed funding for FY 2009 and FY 2010 from the American Recovery and Reinvestment Act (ARRA) website.

Venture Capital: Thomson Reuters Thomson ONE venture capital database.

Patents: U.S. Patent & Trademark Office data from Thomson Reuters Delphion Patent Analysis Database.

For a more detailed discussion of the data and methodology used, please see the Appendix to the full national report.