

Maine



Maine’s bioscience industry employs nearly 6,200 in 225 business establishments across the state. Maine has a specialized employment concentration in drugs and pharmaceuticals (location quotient of 1.27), a sector which has also seen strong job growth since 2007, increasing by nearly 17 percent. The state is also highly concentrated in research, testing, and medical labs. State inventors have been issued 243 bioscience-related patents since 2009. The focus of these patents has been in biochemistry, surgical and medical instruments, and drugs and pharmaceuticals.

Bioscience Performance Metrics

Summary of State Performance in Selected Bioscience-related Metrics

Metric	Maine	United States	Quintile
Bioscience Industry, 2012			
Bioscience Industry Employment	6,177	1,619,746	IV
Bioscience Industry Location Quotient	0.87	n/a	III
Bioscience Industry Establishments	225	73,088	V
Academic Bioscience R&D Expenditures, FY 2012			
Bioscience R&D (\$ thousands)	\$48,818	\$38,139,876	V
Bioscience Share of Total R&D	41%	61%	V
Bioscience R&D Per Capita	\$37	\$119	V
NIH Funding, FY 2013			
Funding (\$ thousands)	\$71,864	\$22,293,255	IV
Funding Per Capita	\$54	\$70	III
Bioscience Venture Capital Investments, 2009–13 (\$ millions)	\$37.0	\$49,401.7	IV
Bioscience and Related Patents, 2009–13	243	100,238	IV

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

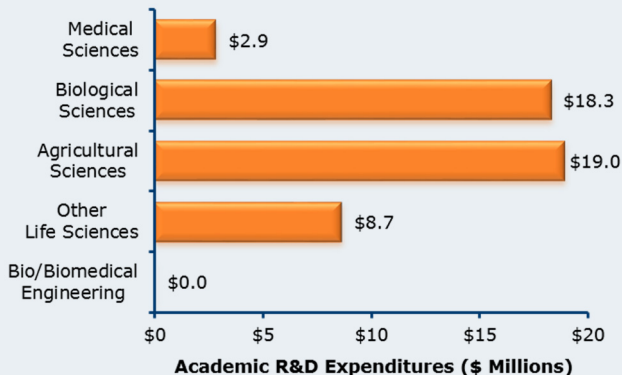
For source notes, see end of State Profile.

Industry Subsector	Maine		United States	
	2012	2007–2012 Change	2012	2007–2012 Change
Agricultural Feedstock & Chemicals				
Establishments	8	-42.9%	1,772	5.2%
Employment	84	-53.4%	76,404	-1.0%
Location Quotient	0.25		n/a	
Direct-Effect Employment Multiplier	17.8		18.1	
Total Employment Impact	1,502		1,382,637	
Average Annual Wage	\$37,541	-6.3%	\$75,828	14.2%
Bioscience-Related Distribution				
Establishments	93	-23.1%	36,793	1.4%
Employment	1,136	-18.5%	442,016	-3.9%
Location Quotient	0.62		n/a	
Direct-Effect Employment Multiplier	2.7		2.7	
Total Employment Impact	3,011		1,199,015	
Average Annual Wage	\$58,674	23.5%	\$85,188	11.5%
Drugs and Pharmaceuticals				
Establishments	22	0.0%	3,057	12.0%
Employment	1,578	16.8%	284,331	-10.9%
Location Quotient	1.27		n/a	
Direct-Effect Employment Multiplier	8.6		9.9	
Total Employment Impact	13,563		2,673,265	
Average Annual Wage	\$92,898	34.6%	\$106,576	13.9%
Medical Devices and Equipment				
Establishments	26	0.0%	7,235	12.0%
Employment	1,007	-0.4%	349,432	1.4%
Location Quotient	0.66		n/a	
Direct-Effect Employment Multiplier	3.1		3.9	
Total Employment Impact	3,112		1,318,459	
Average Annual Wage	\$44,902	40.7%	\$75,695	10.7%
Research, Testing, and Medical Laboratories				
Establishments	76	-2.4%	24,231	31.0%
Employment	2,372	-0.7%	467,563	9.7%
Location Quotient	1.16		n/a	
Direct-Effect Employment Multiplier	2.5		2.7	
Total Employment Impact	5,853		1,284,196	
Average Annual Wage	\$51,954	14.2%	\$91,248	15.9%
Total Bioscience Industry				
Establishments	225	-13.7%	73,088	11.4%
Employment	6,177	-2.3%	1,619,746	-0.4%
Location Quotient	0.87		n/a	
Direct-Effect Employment Multiplier	4.5		4.9	
Total Employment Impact	27,915		7,857,572	
Average Annual Wage	\$62,303	28.1%	\$88,202	12.8%
Total Private Sector				
Establishments	46,453	-1.2%	8,699,564	-0.5%
Employment	486,634	-3.2%	111,137,206	-3.1%
Average Annual Wage	\$38,090	10.5%	\$49,130	11.1%

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

Bioscience Research in Maine

Bioscience Academic R&D Expenditures, FY 2012



NIH Awards, 2009–2013

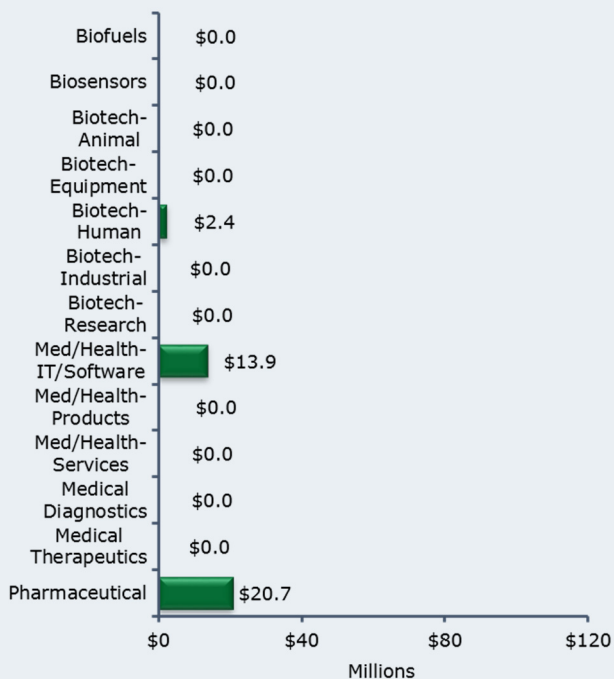


Bioscience Venture Capital in Maine

Bioscience-Related Venture Capital Investments, 2009–2013

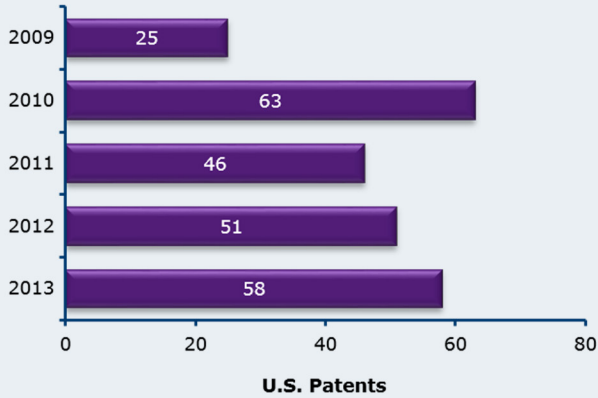


Bioscience-Related Venture Capital Investments by Segment, 2009–2013

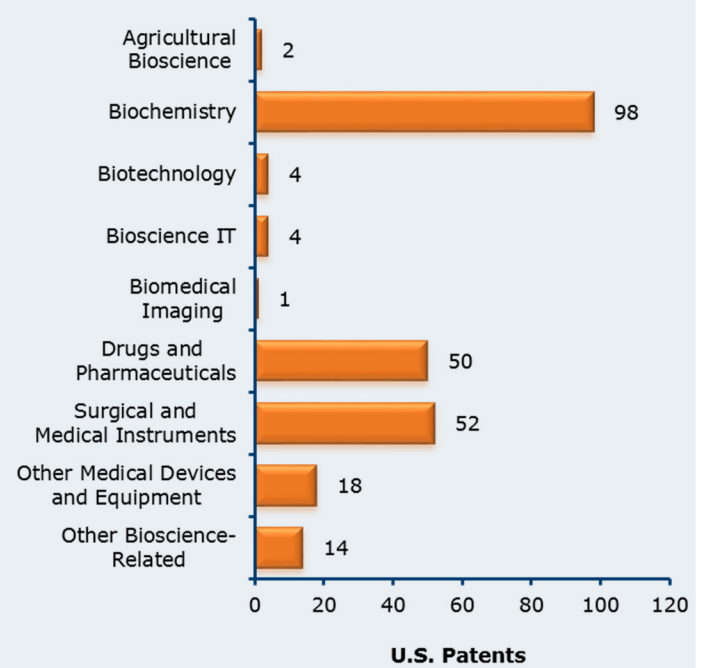


Bioscience Patents in Maine

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.