

Louisiana



Louisiana has more than 10,000 bioscience industry jobs that span 970 business establishments. Employment in the state’s bioscience sector has grown by nearly 1 percent since 2007 with job gains contributed by three of the five major industry subsectors. Louisiana has a specialized employment concentration in agricultural feedstock and chemicals where the state has one and a half times the average concentration for the nation. Louisiana’s research universities are especially focused in the biosciences relative to other fields with their \$439 million in bioscience academic R&D in 2012 accounting for 67 percent of all academic research compared with 61 percent for the national average. The state’s 382 patents issued in the biosciences since 2009 are spread across a diverse set of technology areas including drugs and pharmaceuticals, biochemistry, surgical and medical instruments, and the agricultural biosciences.

Bioscience Performance Metrics

Summary of State Performance in Selected Bioscience-related Metrics

Metric	Louisiana	United States	Quintile
Bioscience Industry, 2012			
Bioscience Industry Employment	10,333	1,619,746	IV
Bioscience Industry Location Quotient	0.46	n/a	V
Bioscience Industry Establishments	970	73,088	III
Academic Bioscience R&D Expenditures, FY 2012			
Bioscience R&D (\$ thousands)	\$439,255	\$38,139,876	III
Bioscience Share of Total R&D	67%	61%	II
Bioscience R&D Per Capita	\$95	\$119	III
NIH Funding, FY 2013			
Funding (\$ thousands)	\$133,367	\$22,293,255	III
Funding Per Capita	\$29	\$70	IV
Bioscience Venture Capital Investments, 2009–13 (\$ millions)	\$15.8	\$49,401.7	IV
Bioscience and Related Patents, 2009–13	382	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.

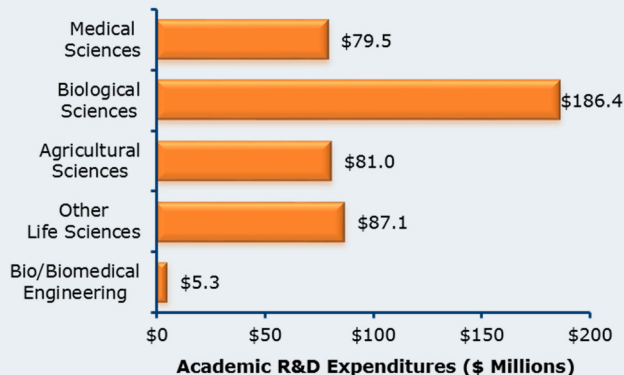
For source notes, see end of State Profile.

Industry Subsector	Louisiana		United States	
	2012	2007-2012 Change	2012	2007-2012 Change
Agricultural Feedstock & Chemicals				
Establishments	40	11.1%	1,772	5.2%
Employment	2,657	5.6%	76,404	-1.0%
Location Quotient	2.51		n/a	
Direct-Effect Employment Multiplier	16.7		18.1	
Total Employment Impact	44,266		1,382,637	
Average Annual Wage	\$100,919	20.5%	\$75,828	14.2%
Bioscience-Related Distribution				
Establishments	587	11.5%	36,793	1.4%
Employment	5,026	-10.2%	442,016	-3.9%
Location Quotient	0.86		n/a	
Direct-Effect Employment Multiplier	2.5		2.7	
Total Employment Impact	12,810		1,199,015	
Average Annual Wage	\$79,928	10.4%	\$85,188	11.5%
Drugs and Pharmaceuticals				
Establishments	31	106.7%	3,057	12.0%
Employment	532	119.8%	284,331	-10.9%
Location Quotient	0.14		n/a	
Direct-Effect Employment Multiplier	7.5		9.9	
Total Employment Impact	4,011		2,673,265	
Average Annual Wage	\$54,145	20.3%	\$106,576	13.9%
Medical Devices and Equipment				
Establishments	63	40.0%	7,235	12.0%
Employment	214	-32.7%	349,432	1.4%
Location Quotient	0.04		n/a	
Direct-Effect Employment Multiplier	3.3		3.9	
Total Employment Impact	701		1,318,459	
Average Annual Wage	\$63,732	47.4%	\$75,695	10.7%
Research, Testing, and Medical Laboratories				
Establishments	249	42.3%	24,231	31.0%
Employment	1,903	21.7%	467,563	9.7%
Location Quotient	0.29		n/a	
Direct-Effect Employment Multiplier	2.2		2.7	
Total Employment Impact	4,246		1,284,196	
Average Annual Wage	\$45,543	9.8%	\$91,248	15.9%
Total Bioscience Industry				
Establishments	970	21.7%	73,088	11.4%
Employment	10,333	0.9%	1,619,746	-0.4%
Location Quotient	0.46		n/a	
Direct-Effect Employment Multiplier	5.2		4.9	
Total Employment Impact	54,067		7,857,572	
Average Annual Wage	\$77,330	12.2%	\$88,202	12.8%
Total Private Sector				
Establishments	120,398	5.1%	8,699,564	-0.5%
Employment	1,538,445	0.7%	111,137,206	-3.1%
Average Annual Wage	\$43,510	13.2%	\$49,130	11.1%

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

Bioscience Research in Louisiana

Bioscience Academic R&D Expenditures, FY 2012



NIH Awards, 2009–2013

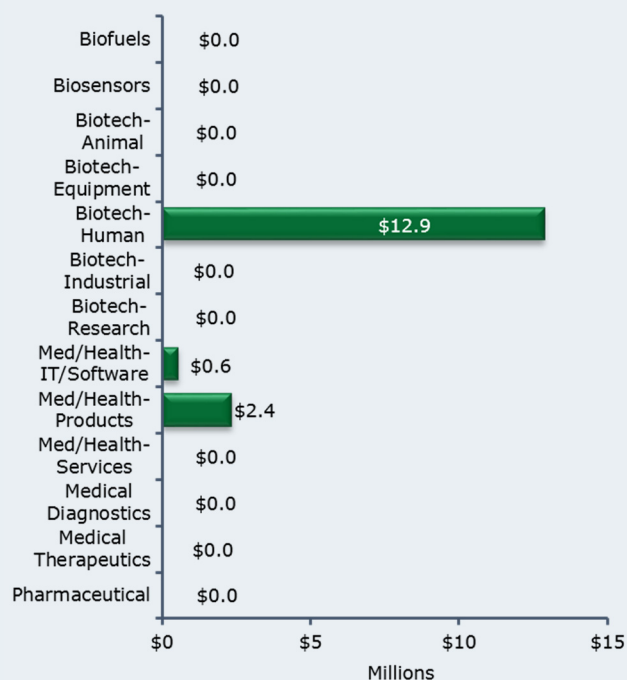


Bioscience Venture Capital in Louisiana

Bioscience-Related Venture Capital Investments, 2009–2013

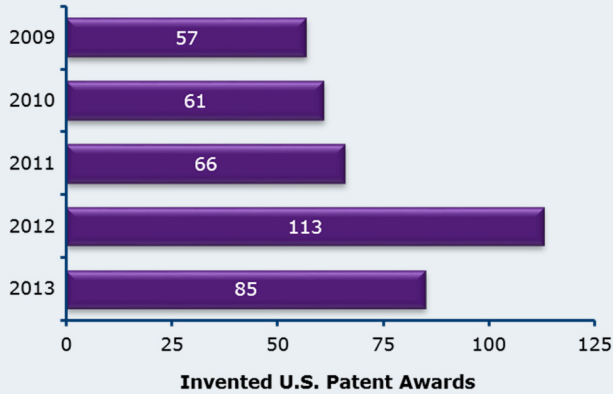


Bioscience-Related Venture Capital Investments by Segment, 2009–2013

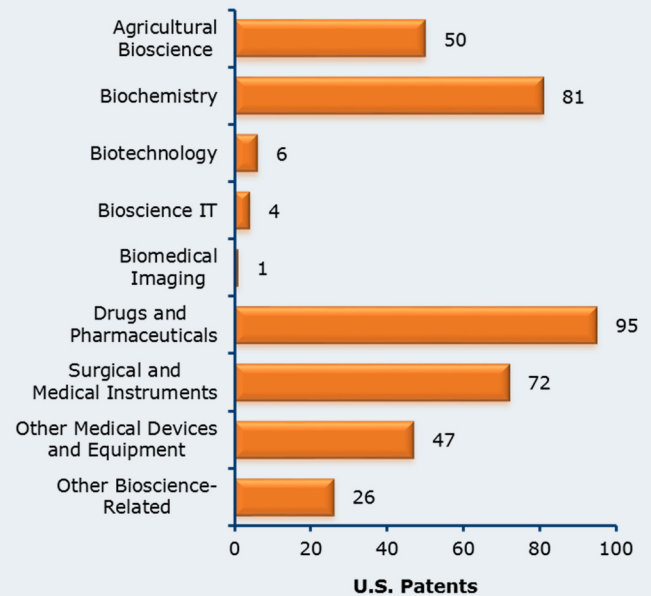


Bioscience Patents in Louisiana

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.