

Florida



Florida is home to a large and diverse bioscience industry with nearly 79,000 jobs that span 5,476 business establishments. The state has a specialized employment concentration in the bioscience-related distribution subsector and is highly concentrated in agricultural feedstock and chemicals. Strong job growth in Florida’s research, testing, and medical labs subsector has offset job losses in other areas with overall bioscience employment being flat since 2007. Florida’s research universities conducted more than \$1.2 billion in bioscience-related R&D in 2012, placing the state among the top tier. The state also stands out in its level of bioscience patenting with nearly 4,300 issued to Florida inventors since 2009. Key patent classes for the state cut across multiple focus areas including medical devices, drugs and pharmaceuticals, and the agricultural biosciences.

Bioscience Performance Metrics

Summary of State Performance in Selected Bioscience-related Metrics

Metric	Florida	United States	Quintile
Bioscience Industry, 2012			
Bioscience Industry Employment	78,925	1,619,746	I
Bioscience Industry Location Quotient	0.86	n/a	III
Bioscience Industry Establishments	5,476	73,088	I
Academic Bioscience R&D Expenditures, FY 2012			
Bioscience R&D (\$ thousands)	\$1,242,644	\$38,139,876	I
Bioscience Share of Total R&D	64%	61%	III
Bioscience R&D Per Capita	\$64	\$119	IV
NIH Funding, FY 2013			
Funding (\$ thousands)	\$435,070	\$22,293,255	II
Funding Per Capita	\$22	\$70	V
Bioscience Venture Capital Investments, 2009–13 (\$ millions)	\$554.8	\$49,401.7	II
Bioscience and Related Patents, 2009–13	4,291	100,238	I

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

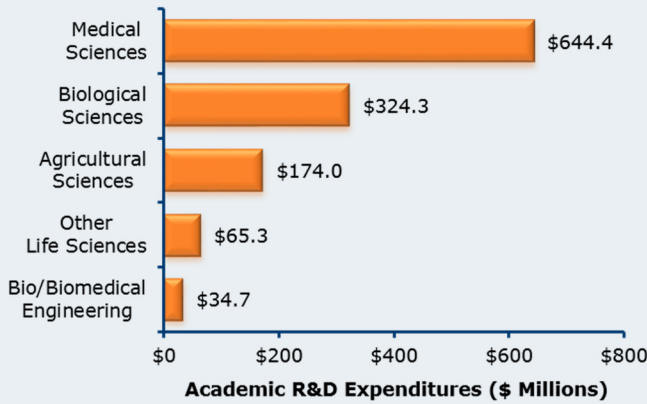
For source notes, see end of State Profile.

Industry Subsector	Florida		United States	
	2012	2007-2012 Change	2012	2007-2012 Change
Agricultural Feedstock & Chemicals				
Establishments	125	53.8%	1,772	5.2%
Employment	5,085	-5.5%	76,404	-1.0%
Location Quotient	1.17		n/a	
Direct-Effect Employment Multiplier	21.5		18.1	
Total Employment Impact	109,409		1,382,637	
Average Annual Wage	\$70,382	18.4%	\$75,828	14.2%
Bioscience-Related Distribution				
Establishments	3,093	3.2%	36,793	1.4%
Employment	35,604	0.9%	442,016	-3.9%
Location Quotient	1.38		n/a	
Direct-Effect Employment Multiplier	3.0		2.7	
Total Employment Impact	108,179		1,199,015	
Average Annual Wage	\$84,515	6.3%	\$85,188	11.5%
Drugs and Pharmaceuticals				
Establishments	204	94.3%	3,057	12.0%
Employment	4,314	-15.0%	284,331	-10.9%
Location Quotient	0.27		n/a	
Direct-Effect Employment Multiplier	11.2		9.9	
Total Employment Impact	48,372		2,673,265	
Average Annual Wage	\$62,996	5.6%	\$106,576	13.9%
Medical Devices and Equipment				
Establishments	557	47.7%	7,235	12.0%
Employment	15,483	-11.8%	349,432	1.4%
Location Quotient	0.78		n/a	
Direct-Effect Employment Multiplier	4.0		3.9	
Total Employment Impact	62,177		1,318,459	
Average Annual Wage	\$59,963	12.8%	\$75,695	10.7%
Research, Testing, and Medical Laboratories				
Establishments	1,497	42.0%	24,231	31.0%
Employment	18,439	18.2%	467,563	9.7%
Location Quotient	0.69		n/a	
Direct-Effect Employment Multiplier	2.7		2.7	
Total Employment Impact	49,105		1,284,196	
Average Annual Wage	\$67,109	11.7%	\$91,248	15.9%
Total Bioscience Industry				
Establishments	5,476	18.6%	73,088	11.4%
Employment	78,925	0.0%	1,619,746	-0.4%
Location Quotient	0.86		n/a	
Direct-Effect Employment Multiplier	4.8		4.9	
Total Employment Impact	375,879		7,857,572	
Average Annual Wage	\$73,545	9.5%	\$88,202	12.8%
Total Private Sector				
Establishments	597,490	0.0%	8,699,564	-0.5%
Employment	6,307,795	-8.2%	111,137,206	-3.1%
Average Annual Wage	\$42,447	9.0%	\$49,130	11.1%

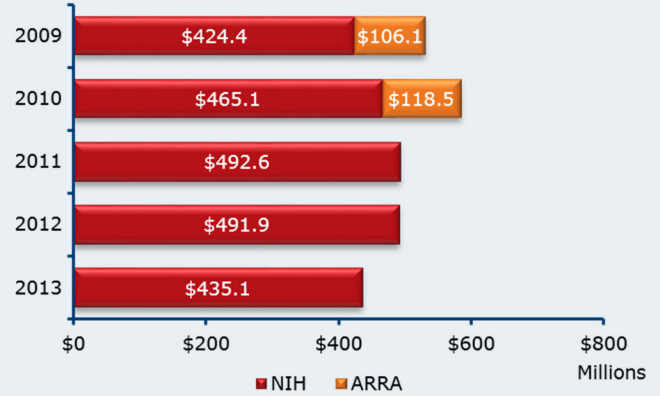
Note: U.S. employment metrics include Puerto Rico. Estimates of total impacts do not include Puerto Rico.

Bioscience Research in Florida

Bioscience Academic R&D Expenditures, FY 2012

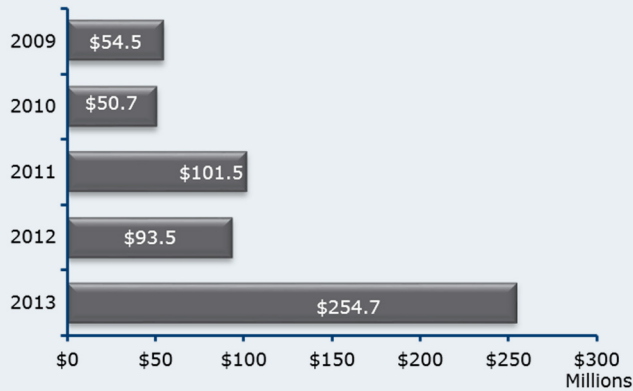


NIH Awards, 2009–2013

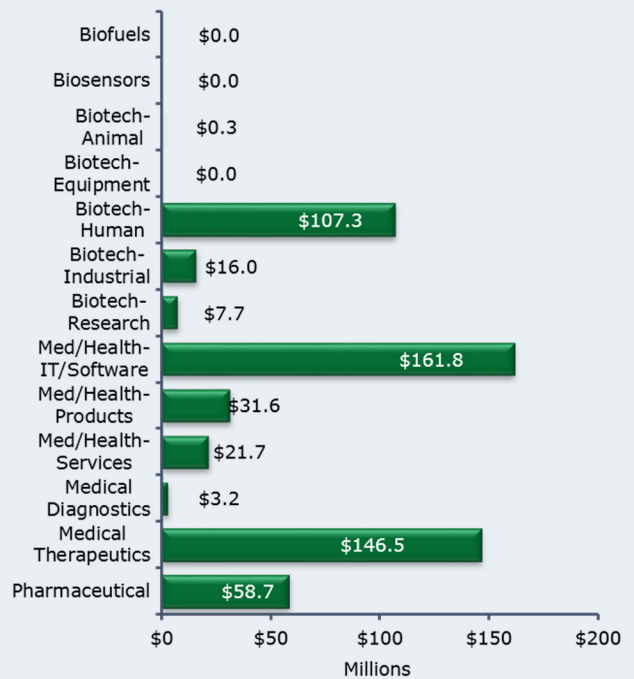


Bioscience Venture Capital in Florida

Bioscience-Related Venture Capital Investments, 2009–2013

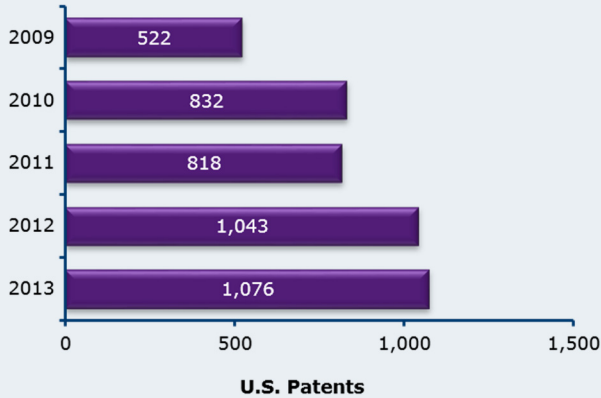


Bioscience-Related Venture Capital Investments by Segment, 2009–2013

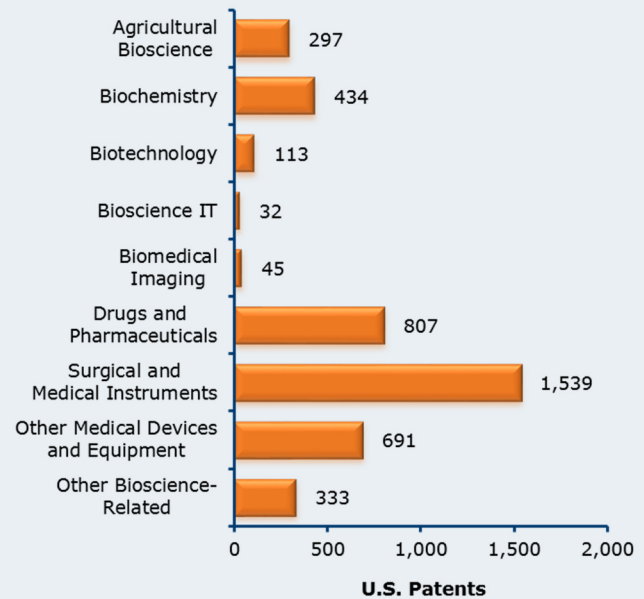


Bioscience Patents in Florida

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.