

South Carolina



South Carolina’s bioscience companies employed 13,603 across 1,153 business establishments in 2012. The state’s largest component subsectors include medical devices and equipment; bioscience-related distribution; and research, testing, and medical labs. Among its five industry subsectors, only medical devices grew employment over the 2007 to 2012 period, increasing its employment base in South Carolina by 11.5 percent. The state’s research universities are especially focused in the biosciences relative to other fields with their \$397 million in bioscience academic R&D in 2012 accounting for 70 percent of all academic research compared with 61 percent for the national average.

Bioscience Performance Metrics

Summary of State Performance in Selected Bioscience-related Metrics

Metric	South Carolina	United States	Quintile
Bioscience Industry, 2012			
Bioscience Industry Employment	13,603	1,619,746	III
Bioscience Industry Location Quotient	0.63	n/a	IV
Bioscience Industry Establishments	1,153	73,088	III
Academic Bioscience R&D Expenditures, FY 2012			
Bioscience R&D (\$ thousands)	\$397,153	\$38,139,876	III
Bioscience Share of Total R&D	70%	61%	I
Bioscience R&D Per Capita	\$83	\$119	IV
NIH Funding, FY 2013			
Funding (\$ thousands)	\$119,584	\$22,293,255	III
Funding Per Capita	\$25	\$70	IV
Bioscience Venture Capital Investments, 2009–13 (\$ millions)	\$42.2	\$49,401.7	IV
Bioscience and Related Patents, 2009–13	586	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.

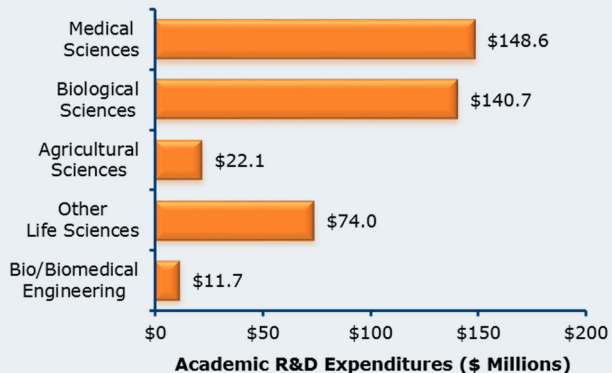
For source notes, see end of State Profile.

Industry Subsector	South Carolina		United States	
	2012	2007-2012 Change	2012	2007-2012 Change
Agricultural Feedstock & Chemicals				
Establishments	29	31.1%	1,772	5.2%
Employment	563	-46.1%	76,404	-1.0%
Location Quotient	0.55		n/a	
Direct-Effect Employment Multiplier	13.3		18.1	
Total Employment Impact	7,467		1,382,637	
Average Annual Wage	\$58,612	2.4%	\$75,828	14.2%
Bioscience-Related Distribution				
Establishments	520	-28.9%	36,793	1.4%
Employment	3,584	-13.1%	442,016	-3.9%
Location Quotient	0.61		n/a	
Direct-Effect Employment Multiplier	2.7		2.7	
Total Employment Impact	9,523		1,199,015	
Average Annual Wage	\$69,142	1.8%	\$85,188	11.5%
Drugs and Pharmaceuticals				
Establishments	48	54.8%	3,057	12.0%
Employment	2,075	-37.1%	284,331	-10.9%
Location Quotient	0.55		n/a	
Direct-Effect Employment Multiplier	8.1		9.9	
Total Employment Impact	16,734		2,673,265	
Average Annual Wage	\$62,145	21.2%	\$106,576	13.9%
Medical Devices and Equipment				
Establishments	94	40.3%	7,235	12.0%
Employment	4,085	11.5%	349,432	1.4%
Location Quotient	0.88		n/a	
Direct-Effect Employment Multiplier	3.2		3.9	
Total Employment Impact	13,102		1,318,459	
Average Annual Wage	\$49,771	15.0%	\$75,695	10.7%
Research, Testing, and Medical Laboratories				
Establishments	461	94.2%	24,231	31.0%
Employment	3,296	-2.7%	467,563	9.7%
Location Quotient	0.53		n/a	
Direct-Effect Employment Multiplier	2.5		2.7	
Total Employment Impact	8,306		1,284,196	
Average Annual Wage	\$63,829	9.0%	\$91,248	15.9%
Total Bioscience Industry				
Establishments	1,153	5.8%	73,088	11.4%
Employment	13,603	-12.4%	1,619,746	-0.4%
Location Quotient	0.63		n/a	
Direct-Effect Employment Multiplier	4.1		4.9	
Total Employment Impact	56,383		7,857,572	
Average Annual Wage	\$60,535	8.5%	\$88,202	12.8%
Total Private Sector				
Establishments	108,454	-4.2%	8,699,564	-0.5%
Employment	1,477,978	-5.5%	111,137,206	-3.1%
Average Annual Wage	\$38,662	11.3%	\$49,130	11.1%

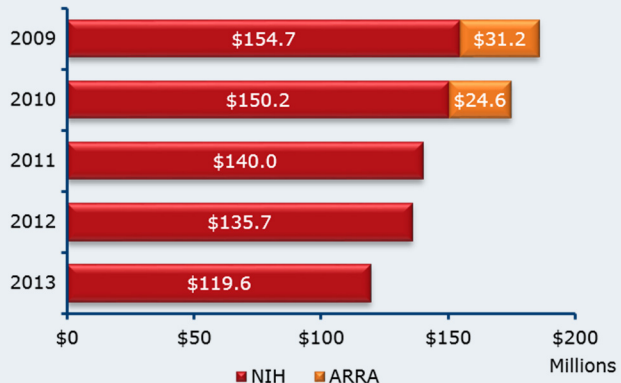
Note: U.S. employment metrics include Puerto Rico. Estimates of total impacts do not include Puerto Rico.

Bioscience Research in South Carolina

Bioscience Academic R&D Expenditures, FY 2012



NIH Awards, 2009–2013

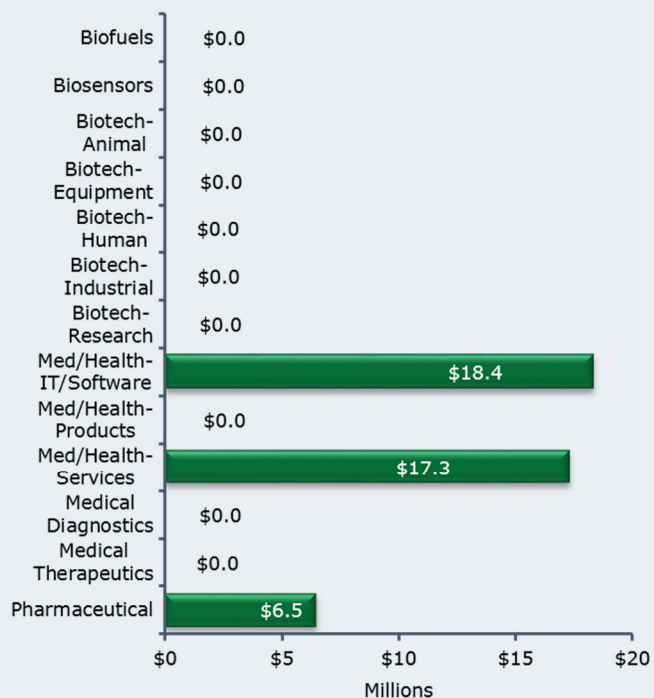


Bioscience Venture Capital in South Carolina

Bioscience-Related Venture Capital Investments, 2009–2013

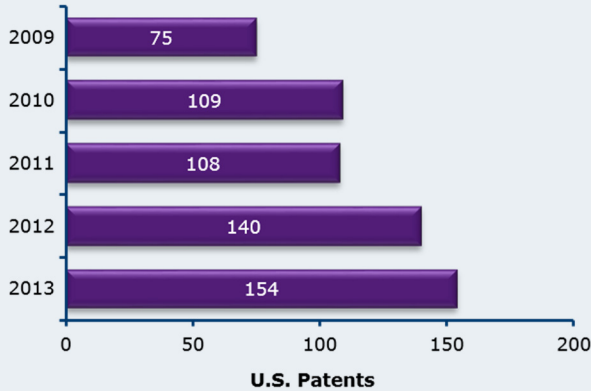


Bioscience-Related Venture Capital Investments by Segment, 2009–2013

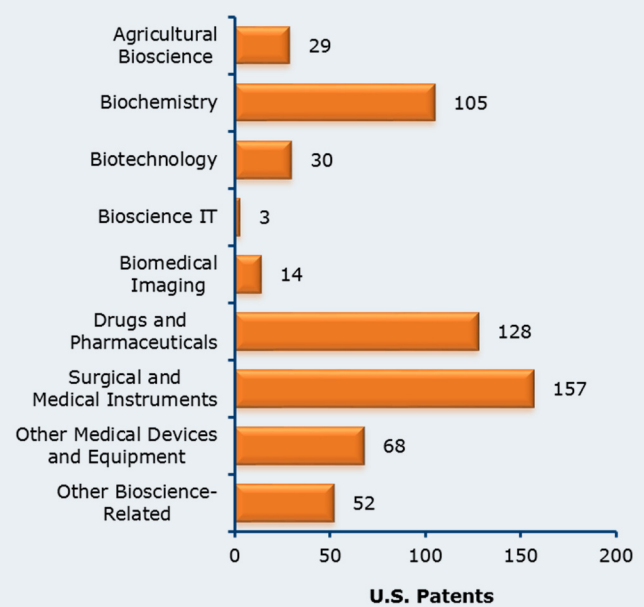


Bioscience Patents in South Carolina

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.