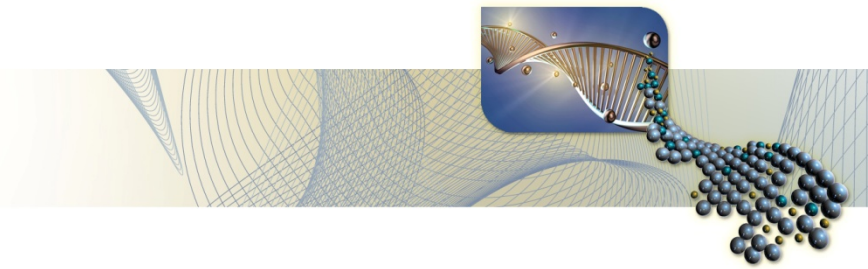


SOUTH CAROLINA



South Carolina has a growing bioscience industry with a specialized employment concentration in the agricultural feedstock and chemicals subsector (location quotient of 1.25). Academic bioscience research and development expenditures in South Carolina totaled \$317 million in 2008, mainly in biological sciences and in medical sciences. Funding from the National Institutes of Health to State institutions has grown much faster than the nation over the last five years and reached \$184 million in 2009. Biomedical institutions in South Carolina participated in 361 active clinical trials in 2009. The 357 bioscience patents issued to State inventors over the last six years were well diversified across the surgical and medical instruments, drugs and pharmaceuticals, biochemistry, and other categories.

●●● Bioscience Performance Metrics

Summary of State Performance in Selected Bioscience-related Metrics

Metrics	South Carolina	United States	Rank*
Bioscience Industry, 2008			
Total Bioscience Industry Employment, 2008	13,520	1,420,324	III
Bioscience Industry Location Quotient, 2008	0.70	n/a	IV
Biosciences Industry Establishments, 2008	572	47,593	III
Academic R&D Expenditures, FY 2008			
Bioscience R&D (\$ thousands)	\$316,642	\$31,818,810	29
Bioscience Share of Total R&D	55.0%	61.3%	33
Bioscience R&D Per Capita	\$70.31	\$104.54	39
Change in Bioscience R&D, FY 2004–08	21.3%	22.3%	25
NIH Funding, FY 2009			
Total, Including ARRA Funds (\$ thousands)	\$183,791	\$25,837,590	29
Per Capita Funding	\$40.29	\$84.16	37
Change in Baseline Funding, FY 2004–09**	25.9%	-4.7%	2
Change in Total Funding, FY 2004–09	52.2%	14.6%	3
Clinical Trials, Initiated 2009	361	5,299	22
Higher Education Degrees in Bioscience Fields, AY 2008	1,920	161,811	29
Employment in Bioscience-related Occupations, 2008	6,220	717,510	31
Bioscience Venture Capital Investments, 2004–09 (\$ millions)	\$3.9	\$60,099	50
Bioscience and Related Patents, 2004–09	357	75,593	32

*State ranking figures for bioscience industry employment metrics are calculated as quintiles (I=Top Quintile; V=Bottom Quintile). All other metrics are ranked 1-52.

**Baseline Funding does not include American Recovery and Reinvestment Act (ARRA) funds for 2009.

For source notes, see end of State Profile.

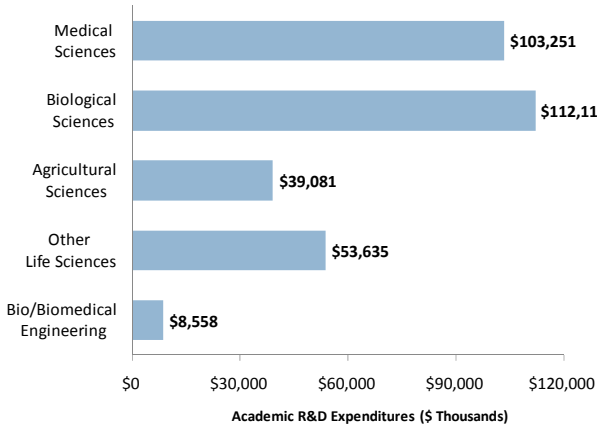
●●● Bioscience Industry Base, 2008

INDUSTRY SUBSECTOR	South Carolina		United States	
	2008	2001–08 Change	2008	2001–08 Change
AGRICULTURAL FEEDSTOCK & CHEMICALS				
Establishments	44	35.5%	2,440	16.0%
Employment	1,941	38.1%	114,793	1.9%
Location Quotient	1.25		n/a	
Direct-Effect Employment Multiplier	6.06		11.33	
Total Employment Impact	11,757		1,284,650	
Average Annual Wage	\$61,166		\$72,279	
DRUGS & PHARMACEUTICALS				
Establishments	42	49.4%	2,771	6.4%
Employment	3,087	25.5%	311,882	2.3%
Location Quotient	0.73		n/a	
Direct-Effect Employment Multiplier	4.07		9.92	
Total Employment Impact	12,556		2,873,278	
Average Annual Wage	\$52,861		\$93,378	
MEDICAL DEVICES & EQUIPMENT				
Establishments	149	14.5%	15,227	0.4%
Employment	4,404	21.5%	435,509	2.0%
Location Quotient	0.75		n/a	
Direct-Effect Employment Multiplier	2.81		4.87	
Total Employment Impact	12,393		2,029,581	
Average Annual Wage	\$44,983		\$63,606	
RESEARCH, TESTING, & MEDICAL LABORATORIES				
Establishments	337	116.3%	27,154	57.7%
Employment	4,087	220.4%	558,140	46.1%
Location Quotient	0.54		n/a	
Direct-Effect Employment Multiplier	2.28		3.30	
Total Employment Impact	9,326		1,853,127	
Average Annual Wage	\$58,776		\$80,785	
TOTAL BIOSCIENCES INDUSTRY				
Establishments	572	65.1%	47,593	28.3%
Employment	13,520	54.2%	1,420,324	15.8%
Location Quotient	0.70		n/a	
Direct-Effect Employment Multiplier	3.40		5.82	
Total Employment Impact	46,032		8,040,636	
Average Annual Wage	\$53,275		\$77,595	
TOTAL PRIVATE SECTOR				
Establishments	114,909	2.6%	8,860,956	13.8%
Employment	1,538,918	4.3%	113,917,377	3.5%
Average Annual Wage	\$35,425		\$45,229	

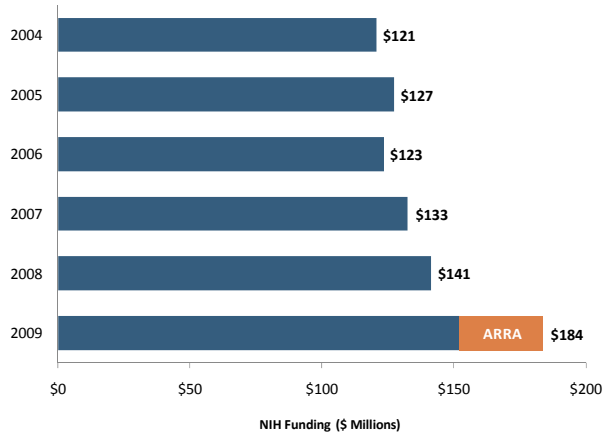
Note: U.S. employment metrics include Puerto Rico. Estimates of total employment impacts do not include Puerto Rico.

●●● Bioscience Performance Metrics

Bioscience Academic R&D Expenditures in South Carolina, FY 2008

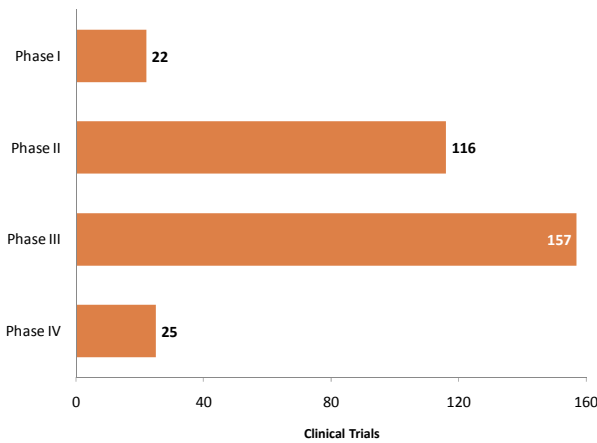


NIH Awards in South Carolina, 2004–2009

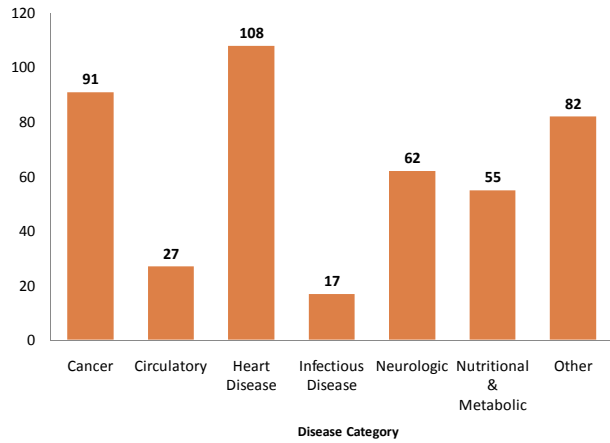


●●● Recent Clinical Trial Activities

Clinical Trials by Phase in South Carolina, 2009

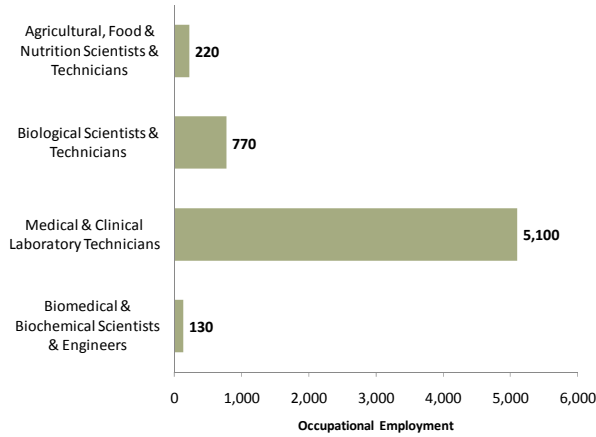


Clinical Trials by Major Disease Category in South Carolina, 2009

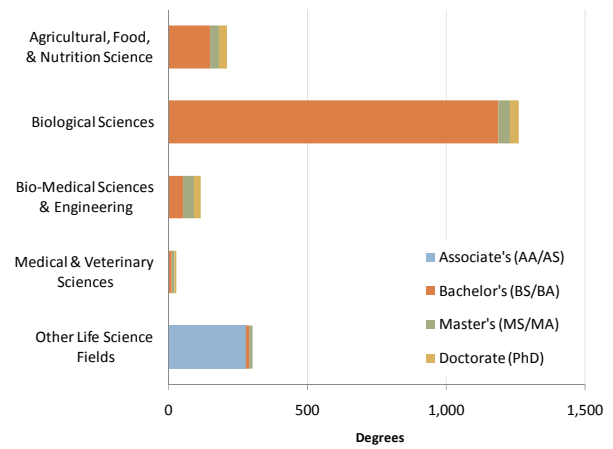


Bioscience Talent Base

Bioscience-related Occupational Employment in South Carolina, 2008

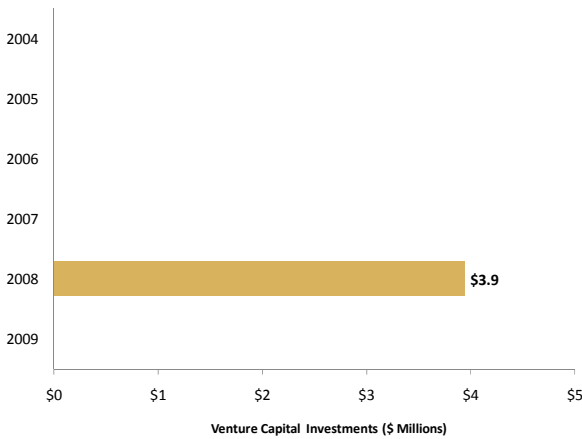


Bioscience-related Degrees in South Carolina, AY 2008

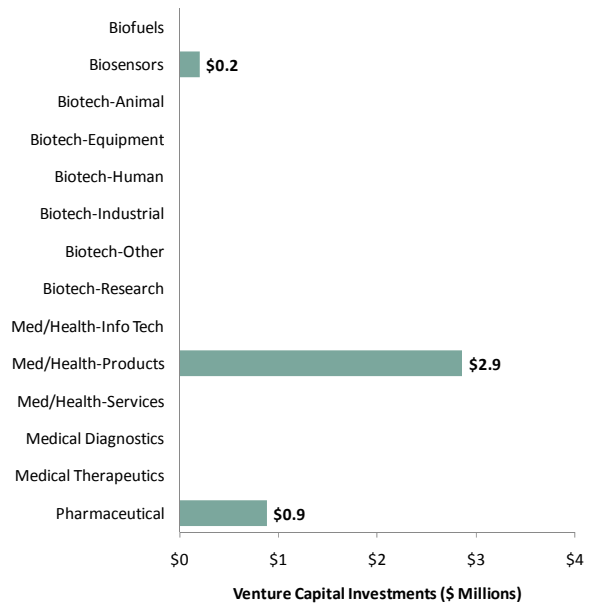


Bioscience Venture Capital

Bioscience-related Venture Capital Investments in South Carolina, 2004–2009

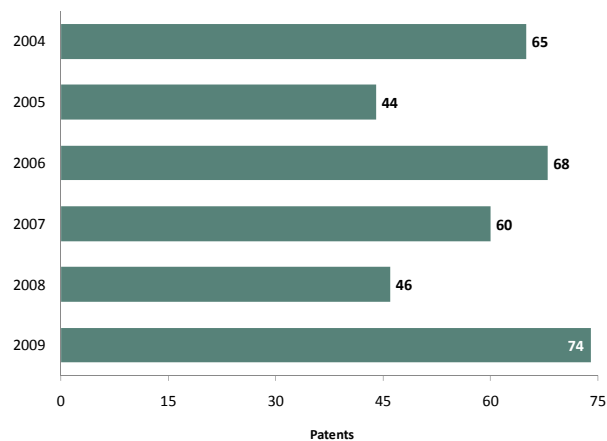


Bioscience-related Venture Capital Investments in South Carolina by Segment, 2004–2009

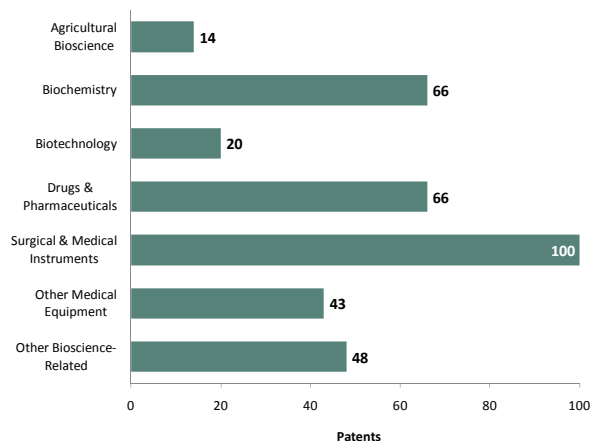


●●● Bioscience Patents

Bioscience-related Patents in South Carolina, 2004–2009



Bioscience-related Patents by Classification Group in South Carolina, 2004–2009



State Bioscience Contact

SC BIO

1237 Gadsden Street, Suite 200 G
 Columbia, SC 29201
 P: (843) 851-5077
 F: (843) 832-2164
www.palmettobio.org

Source Notes:

Employment, Establishment, and Wage Data: U.S. Bureau of Labor Statistics, Quarterly Census of Employment and Wages (QCEW) industry data provided by the Minnesota IMPLAN Group, 2001 and 2008.

Employment Multipliers: U.S. Bureau of Economic Analysis RIMS II Employment Multipliers, 2006 (most currently available).

Academic R&D Expenditures: National Science Foundation (NSF) Survey of Research and Development Expenditures at Universities and Colleges, 2004 and 2008.

NIH Funding: National Institutes of Health, Office of Extramural Research, Award Trends, Dollars Awarded by State, 2004 and 2009.

Clinical Trials: National Institutes of Health, Clinicaltrials.gov, trials that were initiated in 2009.

Higher Education Degrees: National Center for Educational Statistics, Integrated Postsecondary Education Data System (IPEDS), 2008.

Occupational Employment: U.S. Bureau of Labor Statistics, Occupational Employment Statistics (OES) survey data, 2008.

Venture Capital: Thomson Reuters' VentureXpert Database, 2004–2009, as of January 15, 2010.

Patents: U.S. Patent & Trademark Office data as available from the Thomson Reuters' Delphion Patent Analysis Database, 2004–2009, as of January 15, 2010.

For a more detailed discussion of the data and methodology used, please see the Appendix to the full national report. ©2010