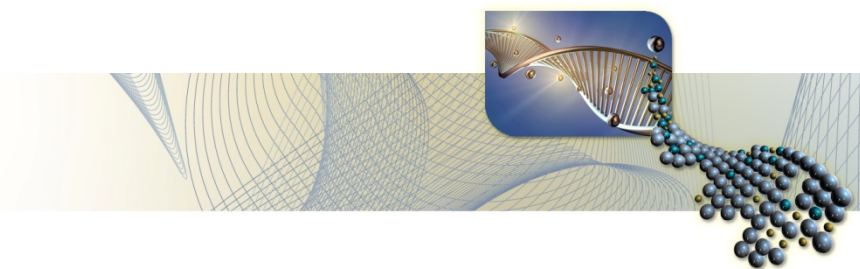


LOUISIANA



Louisiana has a highly specialized employment concentration in the agricultural feedstock and chemicals subsector (location quotient of 2.71). Total academic bioscience research and development expenditures in 2008 were \$442 million, of which the largest shares were in the biological (\$155 million) and medical sciences (\$122 million). The State played a role in hosting 245 active clinical trials in 2009. Louisiana inventors totaled 353 bioscience patents during the last six years, with an innovation focus in drugs and pharmaceuticals, biochemistry, and surgical and medical instruments.

●●● Bioscience Performance Metrics

Summary of State Performance in Selected Bioscience-related Metrics

Metrics	Louisiana	United States	Rank*
Bioscience Industry, 2008			
Total Bioscience Industry Employment, 2008	8,046	1,420,324	IV
Bioscience Industry Location Quotient, 2008	0.42	n/a	V
Biosciences Industry Establishments, 2008	570	47,593	III
Academic R&D Expenditures, FY 2008			
Bioscience R&D (\$ thousands)	\$442,217	\$31,818,810	23
Bioscience Share of Total R&D	67.0%	61.3%	13
Bioscience R&D Per Capita	\$99.34	\$104.54	24
Change in Bioscience R&D, FY 2004–08	12.0%	22.3%	38
NIH Funding, FY 2009			
Total, Including ARRA Funds (\$ thousands)	\$151,880	\$25,837,590	32
Per Capita Funding	\$33.81	\$84.16	39
Change in Baseline Funding, FY 2004–09**	-19.3%	-4.7%	46
Change in Total Funding, FY 2004–09	-3.4%	14.6%	46
Clinical Trials, Initiated 2009	245	5,299	31
Higher Education Degrees in Bioscience Fields, AY 2008	2,439	161,811	23
Employment in Bioscience-related Occupations, 2008	8,180	717,510	27
Bioscience Venture Capital Investments, 2004–09 (\$ millions)	\$29.2	\$60,099	42
Bioscience and Related Patents, 2004–09	353	75,593	33

*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.

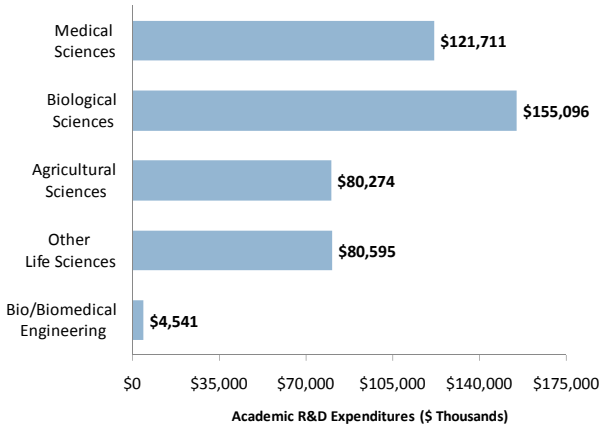
●●● Bioscience Industry Base, 2008

INDUSTRY SUBSECTOR	Louisiana		United States	
	2008	2001-08 Change	2008	2001-08 Change
AGRICULTURAL FEEDSTOCK & CHEMICALS				
Establishments	52	5.1%	2,440	16.0%
Employment	4,213	-5.3%	114,793	1.9%
Location Quotient	2.71		n/a	
Direct-Effect Employment Multiplier	7.95		11.33	
Total Employment Impact	33,477		1,284,650	
Average Annual Wage	\$94,234		\$72,279	
DRUGS & PHARMACEUTICALS				
Establishments	17	-29.2%	2,771	6.4%
Employment	240	-17.0%	311,882	2.3%
Location Quotient	0.06		n/a	
Direct-Effect Employment Multiplier	3.52		9.92	
Total Employment Impact	845		2,873,278	
Average Annual Wage	\$45,848		\$93,378	
MEDICAL DEVICES & EQUIPMENT				
Establishments	157	-4.6%	15,227	0.4%
Employment	871	-22.2%	435,509	2.0%
Location Quotient	0.15		n/a	
Direct-Effect Employment Multiplier	2.08		4.87	
Total Employment Impact	1,815		2,029,581	
Average Annual Wage	\$33,825		\$63,606	
RESEARCH, TESTING, & MEDICAL LABORATORIES				
Establishments	344	45.9%	27,154	57.7%
Employment	2,723	1.5%	558,140	46.1%
Location Quotient	0.36		n/a	
Direct-Effect Employment Multiplier	2.07		3.30	
Total Employment Impact	5,627		1,853,127	
Average Annual Wage	\$44,445		\$80,785	
TOTAL BIOSCIENCES INDUSTRY				
Establishments	570	20.3%	47,593	28.3%
Employment	8,046	-5.8%	1,420,324	15.8%
Location Quotient	0.42		n/a	
Direct-Effect Employment Multiplier	5.19		5.82	
Total Employment Impact	41,763		8,040,636	
Average Annual Wage	\$69,404		\$77,595	
TOTAL PRIVATE SECTOR				
Establishments	119,071	8.2%	8,860,956	13.8%
Employment	1,541,393	1.8%	113,917,377	3.5%
Average Annual Wage	\$40,389		\$45,229	

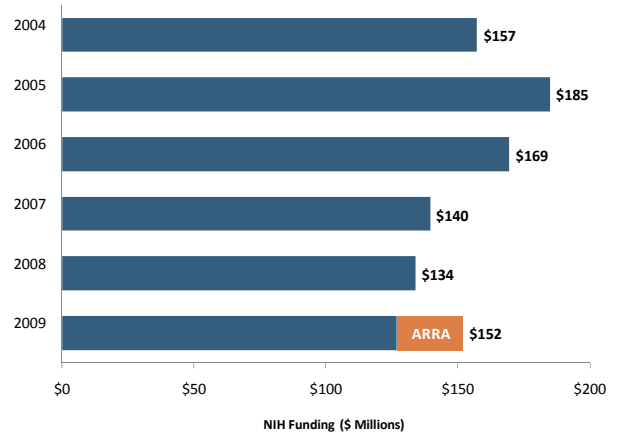
Note: U.S. employment metrics include Puerto Rico. Estimates of total employment impacts do not include Puerto Rico.

Bioscience Performance Metrics

Bioscience Academic R&D Expenditures in Louisiana, FY 2008

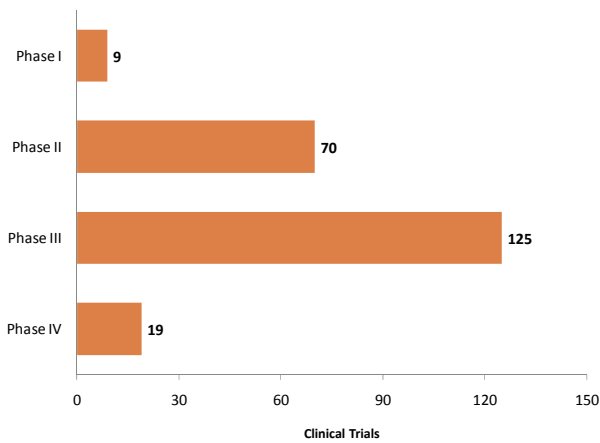


NIH Awards in Louisiana, 2004–2009

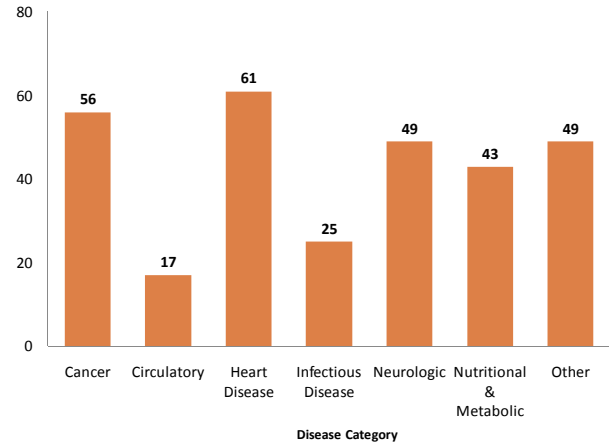


Recent Clinical Trial Activities

Clinical Trials by Phase in Louisiana, 2009

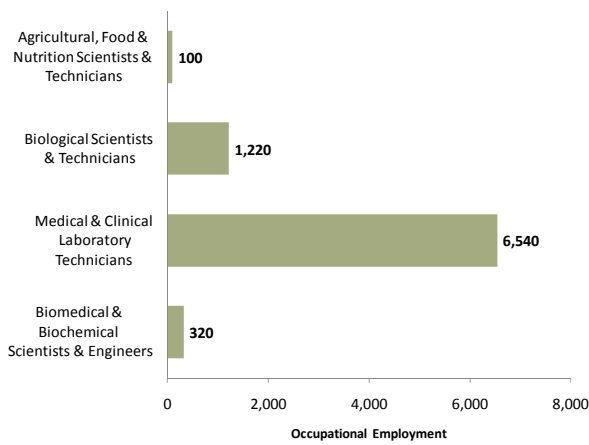


Clinical Trials by Major Disease Category in Louisiana, 2009

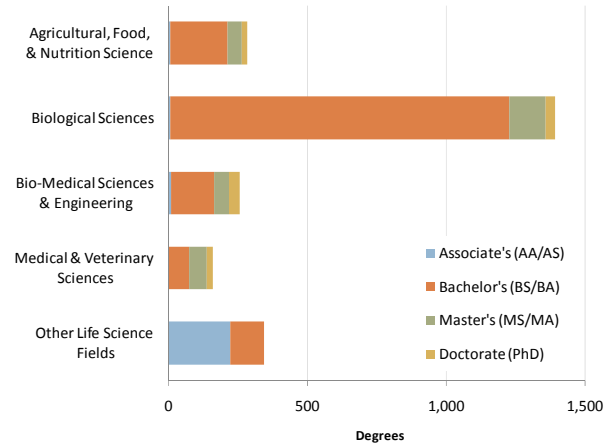


Bioscience Talent Base

Bioscience-related Occupational Employment in Louisiana, 2008

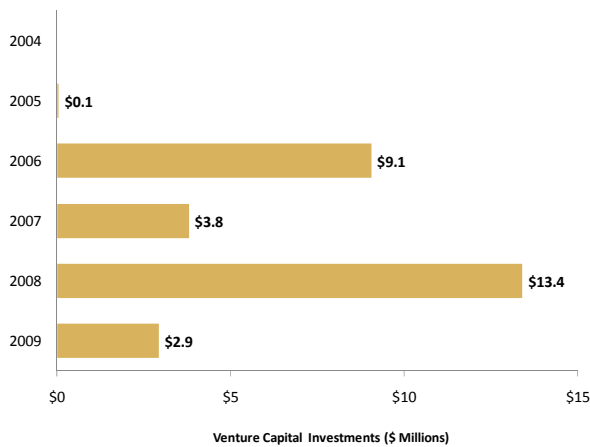


Bioscience-related Degrees in Louisiana, AY 2008

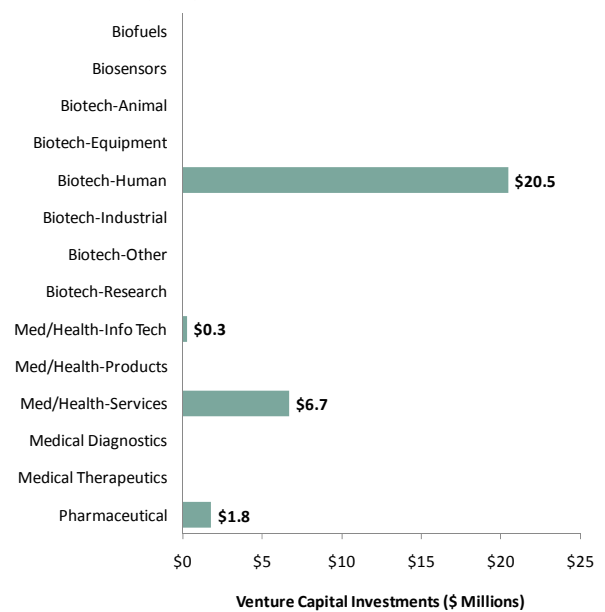


Bioscience Venture Capital

Bioscience-related Venture Capital Investments in Louisiana, 2004–2009

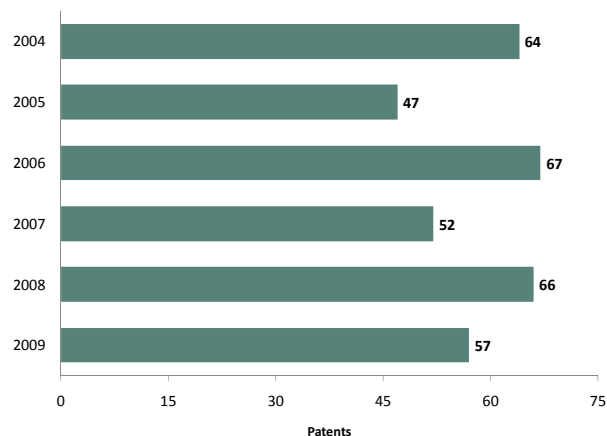


Bioscience-related Venture Capital Investments in Louisiana by Segment, 2004–2009

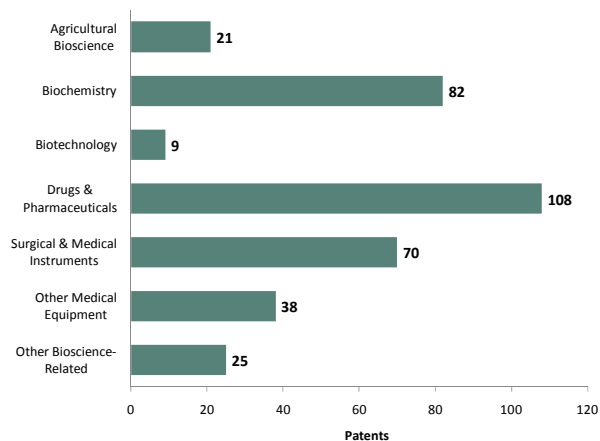


●●● Bioscience Patents

Bioscience-related Patents in Louisiana, 2004–2009



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



State Bioscience Contact

No designated contact

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