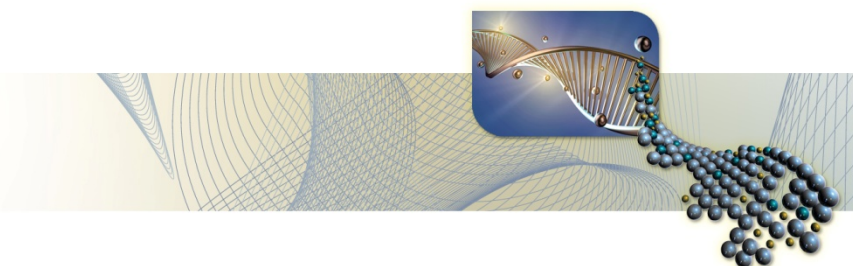


MISSISSIPPI



Mississippi has an employment specialization in the agricultural feedstock and chemicals subsector (location quotient 1.59). Academic bioscience research and development expenditures totaled \$191 million in 2008, with the largest share in agricultural sciences (\$101 million), followed by medical sciences (\$54 million). Mississippi plays a role in generating talent for the bioscience industry, with 1,379 degrees granted by State postsecondary institutions in 2008. Among the 267 bioscience-related patents granted in the last six years, the focus of innovation has been in biotechnology, followed by surgical and medical instruments, and drugs and pharmaceuticals.

●●● Bioscience Performance Metrics

Summary of State Performance in Selected Bioscience-related Metrics

Metrics	Mississippi	United States	Rank*
Bioscience Industry, 2008			
Total Bioscience Industry Employment, 2008	4,680	1,420,324	V
Bioscience Industry Location Quotient, 2008	0.42	n/a	V
Biosciences Industry Establishments, 2008	281	47,593	IV
Academic R&D Expenditures, FY 2008			
Bioscience R&D (\$ thousands)	\$190,600	\$31,818,810	34
Bioscience Share of Total R&D	46.9%	61.3%	43
Bioscience R&D Per Capita	\$64.83	\$104.54	41
Change in Bioscience R&D, FY 2004–08	11.8%	22.3%	39
NIH Funding, FY 2009			
Total, Including ARRA Funds (\$ thousands)	\$32,068	\$25,837,590	46
Per Capita Funding	\$10.86	\$84.16	50
Change in Baseline Funding, FY 2004–09**	-25.0%	-4.7%	48
Change in Total Funding, FY 2004–09	-11.6%	14.6%	50
Clinical Trials, Initiated 2009	112	5,299	39
Higher Education Degrees in Bioscience Fields, AY 2008	1,379	161,811	35
Employment in Bioscience-related Occupations, 2008	5,110	717,510	33
Bioscience Venture Capital Investments, 2004–09 (\$ millions)	\$15.4	\$60,099	46
Bioscience and Related Patents, 2004–09	267	75,593	38

*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.

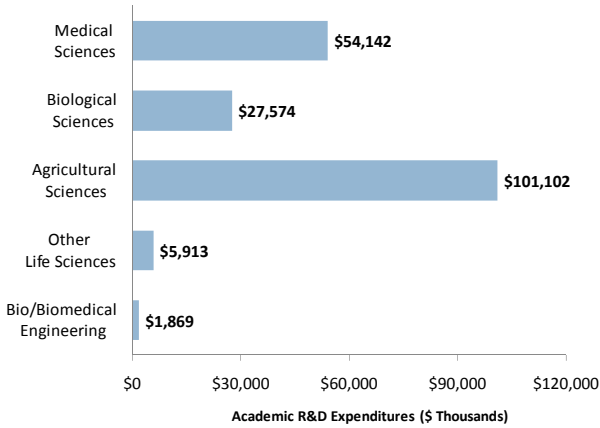
●●● Bioscience Industry Base, 2008

INDUSTRY SUBSECTOR	Mississippi		United States	
	2008	2001-08 Change	2008	2001-08 Change
AGRICULTURAL FEEDSTOCK & CHEMICALS				
Establishments	32	43.9%	2,440	16.0%
Employment	1,427	-8.4%	114,793	1.9%
Location Quotient	1.59		n/a	
Direct-Effect Employment Multiplier	5.45		11.33	
Total Employment Impact	7,782		1,284,650	
Average Annual Wage	\$51,282		\$72,279	
DRUGS & PHARMACEUTICALS				
Establishments	15	15.4%	2,771	6.4%
Employment	1,237	7.3%	311,882	2.3%
Location Quotient	0.51		n/a	
Direct-Effect Employment Multiplier	3.39		9.92	
Total Employment Impact	4,194		2,873,278	
Average Annual Wage	\$38,333		\$93,378	
MEDICAL DEVICES & EQUIPMENT				
Establishments	80	-6.1%	15,227	0.4%
Employment	817	-25.0%	435,509	2.0%
Location Quotient	0.24		n/a	
Direct-Effect Employment Multiplier	2.12		4.87	
Total Employment Impact	1,729		2,029,581	
Average Annual Wage	\$35,959		\$63,606	
RESEARCH, TESTING, & MEDICAL LABORATORIES				
Establishments	154	67.4%	27,154	57.7%
Employment	1,200	28.2%	558,140	46.1%
Location Quotient	0.28		n/a	
Direct-Effect Employment Multiplier	2.00		3.30	
Total Employment Impact	2,396		1,853,127	
Average Annual Wage	\$50,598		\$80,785	
TOTAL BIOSCIENCES INDUSTRY				
Establishments	281	32.3%	47,593	28.3%
Employment	4,680	-1.2%	1,420,324	15.8%
Location Quotient	0.42		n/a	
Direct-Effect Employment Multiplier	3.44		5.82	
Total Employment Impact	16,101		8,040,636	
Average Annual Wage	\$45,011		\$77,595	
TOTAL PRIVATE SECTOR				
Establishments	66,662	11.7%	8,860,956	13.8%
Employment	890,051	0.6%	113,917,377	3.5%
Average Annual Wage	\$32,855		\$45,229	

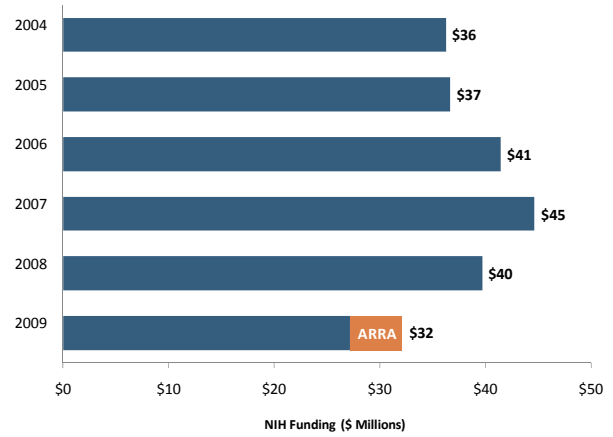
Note: U.S. employment metrics include Puerto Rico. Estimates of total employment impacts do not include Puerto Rico.

Bioscience Performance Metrics

Bioscience Academic R&D Expenditures in Mississippi, FY 2008

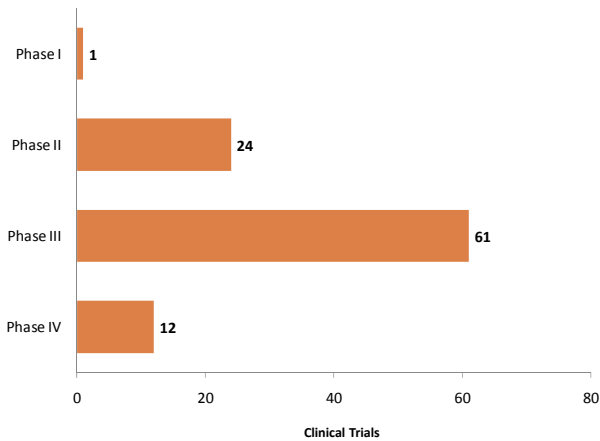


NIH Awards in Mississippi, 2004–2009

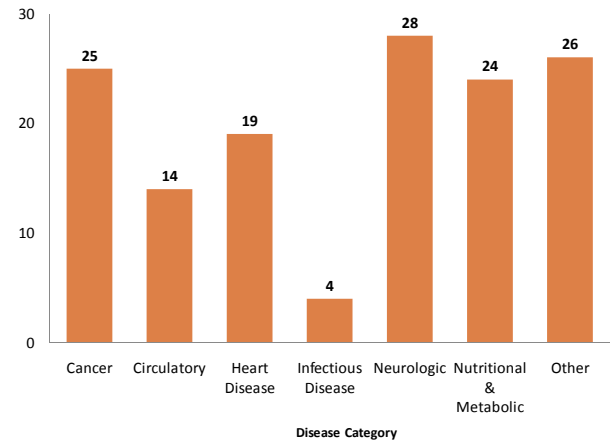


Recent Clinical Trial Activities

Clinical Trials by Phase in Mississippi, 2009

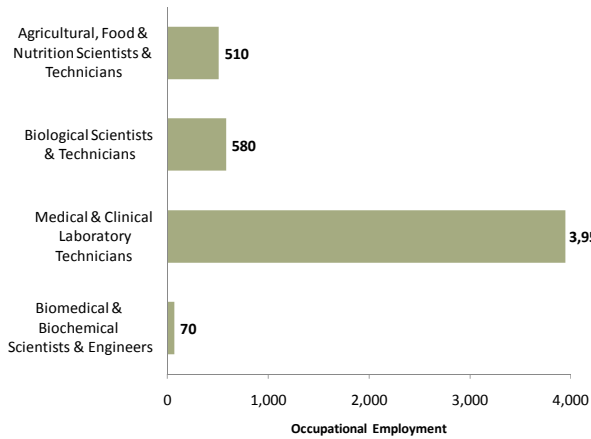


Clinical Trials by Major Disease Category in Mississippi, 2009

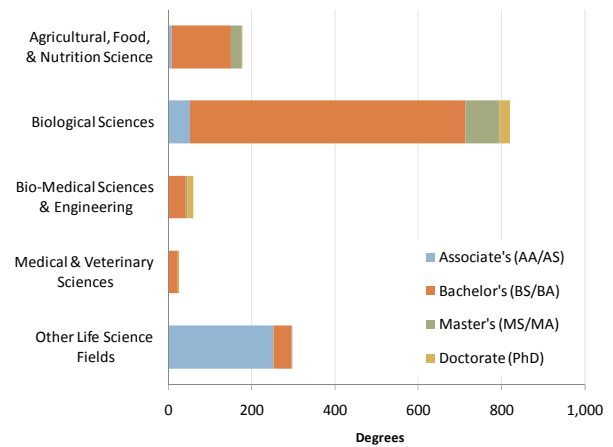


Bioscience Talent Base

Bioscience-related Occupational Employment in Mississippi, 2008

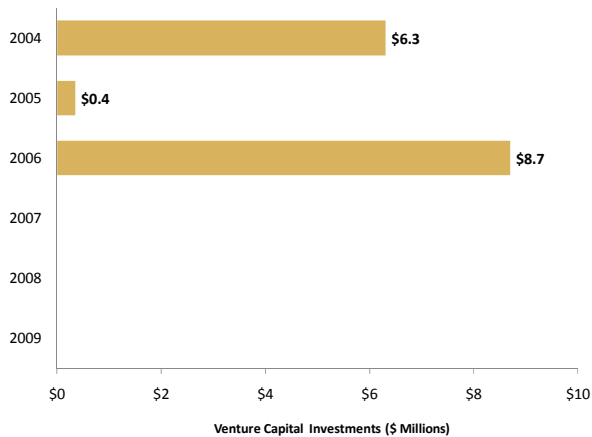


Bioscience-related Degrees in Mississippi, AY 2008

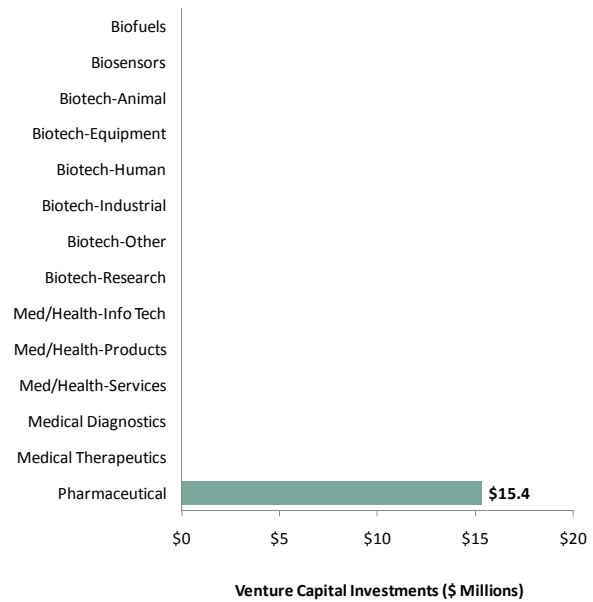


Bioscience Venture Capital

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

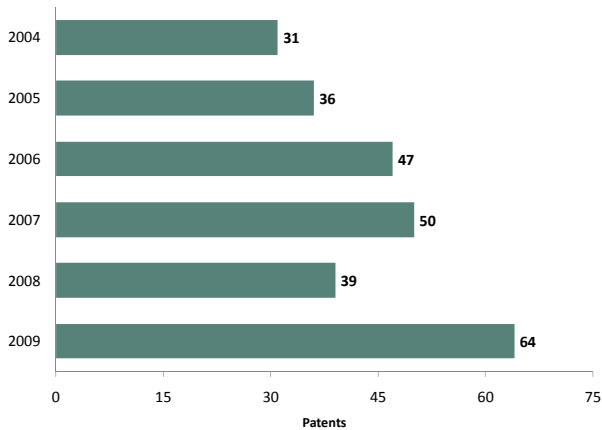


Bioscience-related Venture Capital Investments in Mississippi by Segment, 2004–2009

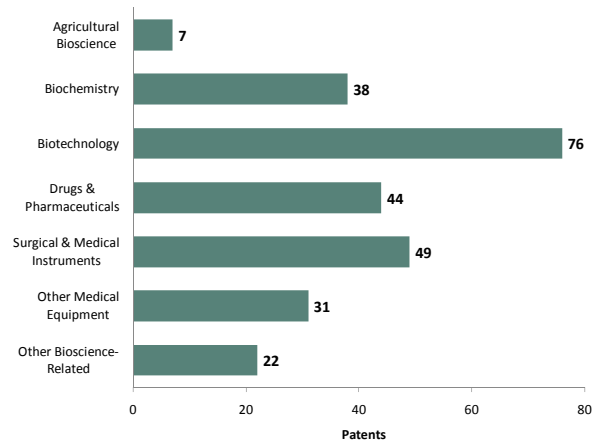


●●● Bioscience Patents

Bioscience-related Patents in Mississippi, 2004–2009



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



State Bioscience Contacts

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