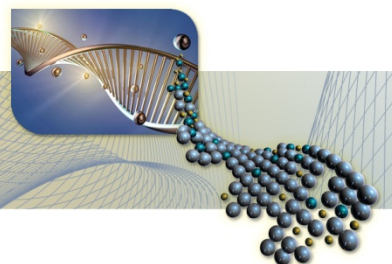


ALABAMA



Alabama has an employment specialization in the agricultural feedstock and chemicals subsector (location quotient of 1.77). Academic research expenditures in biosciences totaled \$512 million in 2008, heavily weighted to medical sciences (\$299 million) and accounting for a higher percentage of both per capita and total academic research expenditures than the national average. Over the last six years, the largest share of the State's \$135 million in venture capital investments was made in the medical diagnostics segment. With 2,949 postsecondary degrees in bioscience fields, Alabama placed higher than its population rank. The degrees were concentrated in biological sciences and other life science fields.

●●● Bioscience Performance Metrics

Summary of State Performance in Selected Bioscience-related Metrics

Metrics	Alabama	United States	Rank*
Bioscience Industry, 2008			
Total Bioscience Industry Employment, 2008	10,146	1,420,324	III
Bioscience Industry Location Quotient, 2008	0.52	n/a	IV
Biosciences Industry Establishments, 2008	557	47,593	III
Academic R&D Expenditures, FY 2008			
Bioscience R&D (\$ thousands)	\$512,384	\$31,818,810	19
Bioscience Share of Total R&D	72.4%	61.3%	8
Bioscience R&D Per Capita	\$109.54	\$104.54	17
Change in Bioscience R&D, FY 2004–08	24.1%	22.3%	16
NIH Funding, FY 2009			
Total, Including ARRA Funds (\$ thousands)	\$290,726	\$25,837,590	23
Per Capita Funding	\$61.74	\$84.16	26
Change in Baseline Funding, FY 2004–09**	-26.1%	-4.7%	49
Change in Total Funding, FY 2004–09	-9.7%	14.6%	49
Clinical Trials, Initiated 2009	356	5,299	23
Higher Education Degrees in Bioscience Fields, AY 2008	2,949	161,811	19
Employment in Bioscience-related Occupations, 2008	7,280	717,510	28
Bioscience Venture Capital Investments, 2004–09 (\$ millions)	\$134.7	\$60,099	30
Bioscience and Related Patents, 2004–09	493	75,593	29

*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.

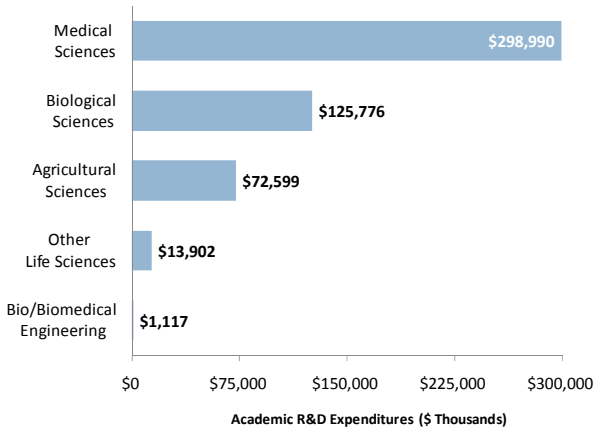
●●● Bioscience Industry Base, 2008

INDUSTRY SUBSECTOR	Alabama		United States	
	2008	2001-08 Change	2008	2001-08 Change
AGRICULTURAL FEEDSTOCK & CHEMICALS				
Establishments	41	0.7%	2,440	16.0%
Employment	2,800	-30.6%	114,793	1.9%
Location Quotient	1.77		n/a	
Direct-Effect Employment Multiplier	6.68		11.33	
Total Employment Impact	18,709		1,284,650	
Average Annual Wage	\$74,469		\$72,279	
DRUGS & PHARMACEUTICALS				
Establishments	14	7.7%	2,771	6.4%
Employment	783	172.8%	311,882	2.3%
Location Quotient	0.18		n/a	
Direct-Effect Employment Multiplier	3.63		9.92	
Total Employment Impact	2,844		2,873,278	
Average Annual Wage	\$51,043		\$93,378	
MEDICAL DEVICES & EQUIPMENT				
Establishments	173	-14.2%	15,227	0.4%
Employment	2,779	-8.5%	435,509	2.0%
Location Quotient	0.46		n/a	
Direct-Effect Employment Multiplier	2.47		4.87	
Total Employment Impact	6,874		2,029,581	
Average Annual Wage	\$38,363		\$63,606	
RESEARCH, TESTING, & MEDICAL LABORATORIES				
Establishments	329	55.9%	27,154	57.7%
Employment	3,783	5.4%	558,140	46.1%
Location Quotient	0.49		n/a	
Direct-Effect Employment Multiplier	2.43		3.30	
Total Employment Impact	9,207		1,853,127	
Average Annual Wage	\$56,085		\$80,785	
TOTAL BIOSCIENCES INDUSTRY				
Establishments	557	19.4%	47,593	28.3%
Employment	10,146	-7.3%	1,420,324	15.8%
Location Quotient	0.52		n/a	
Direct-Effect Employment Multiplier	3.71		5.82	
Total Employment Impact	37,634		8,040,636	
Average Annual Wage	\$55,916		\$77,595	
TOTAL PRIVATE SECTOR				
Establishments	114,777	7.8%	8,860,956	13.8%
Employment	1,570,232	3.3%	113,917,377	3.5%
Average Annual Wage	\$37,772		\$45,229	

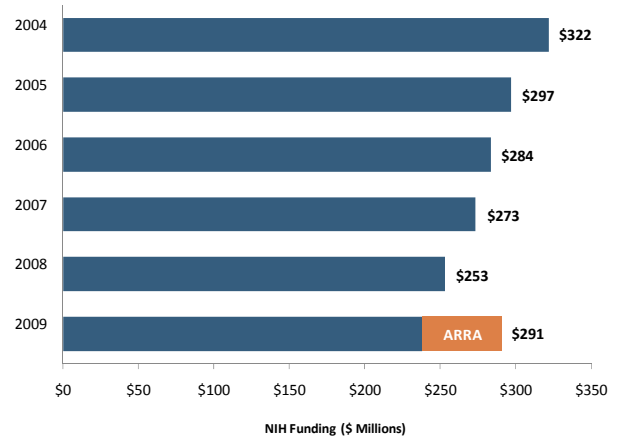
Note: U.S. employment metrics include Puerto Rico. Estimates of total employment impacts do not include Puerto Rico.

Bioscience Performance Metrics

Bioscience Academic R&D Expenditures in Alabama, FY 2008

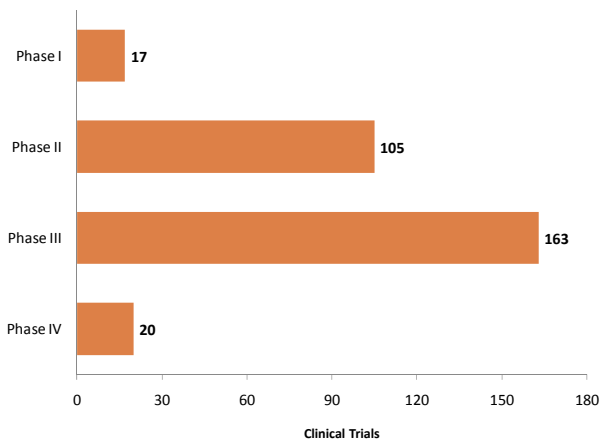


NIH Awards in Alabama, 2004–2009

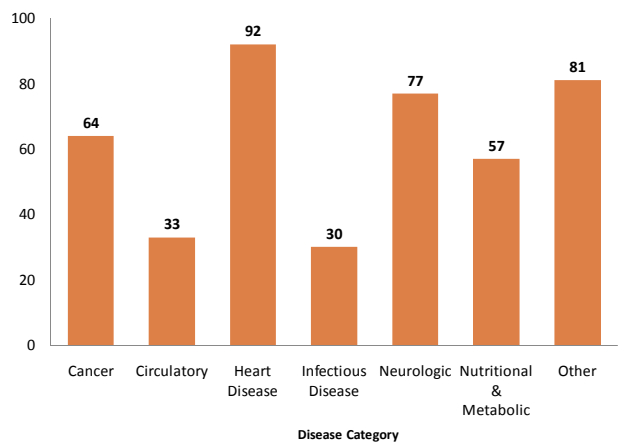


Recent Clinical Trial Activities

Clinical Trials by Phase in Alabama, 2009

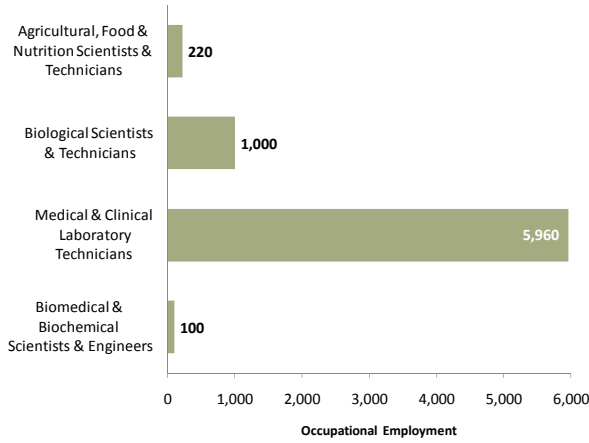


Clinical Trials by Major Disease Category in Alabama, 2009

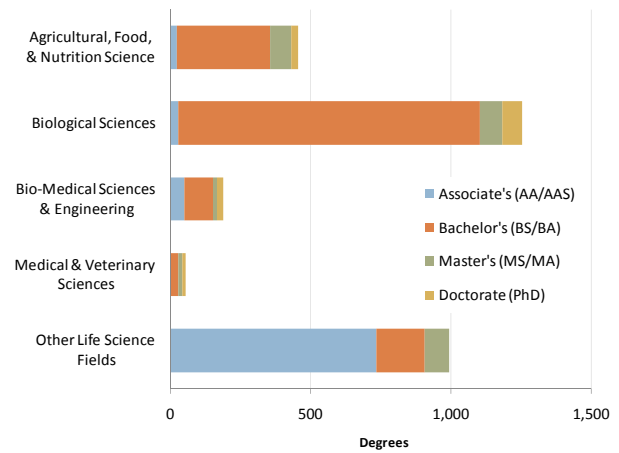


Bioscience Talent Base

Bioscience-related Occupational Employment in Alabama, 2008

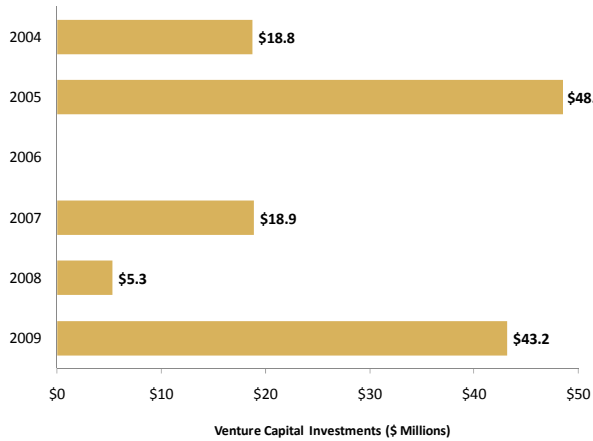


Bioscience-related Degrees in Alabama, AY 2008

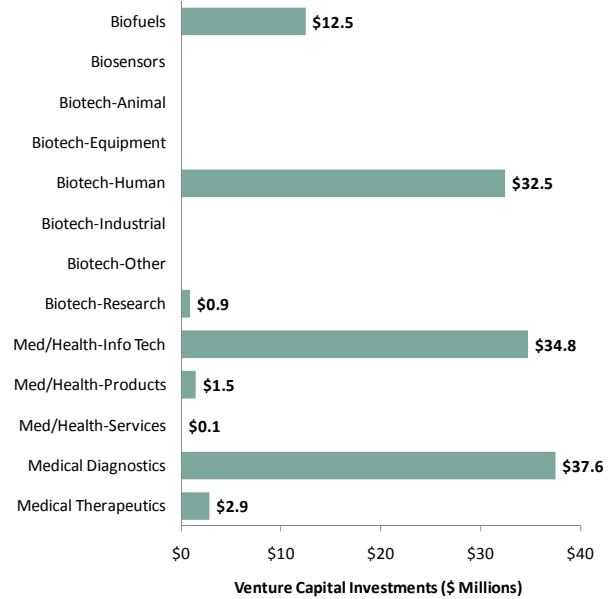


Bioscience Venture Capital

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

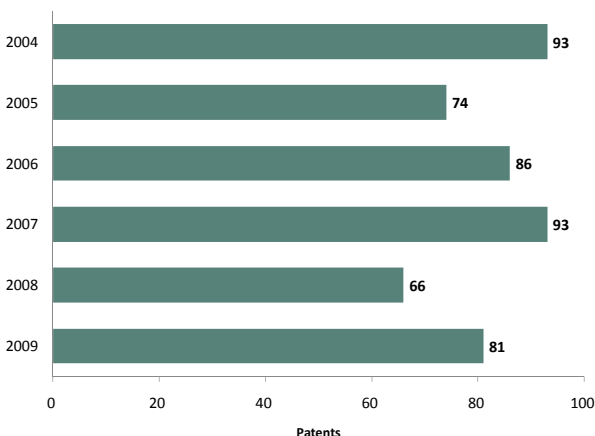


Bioscience-related Venture Capital Investments in Alabama by Segment, 2004–2009

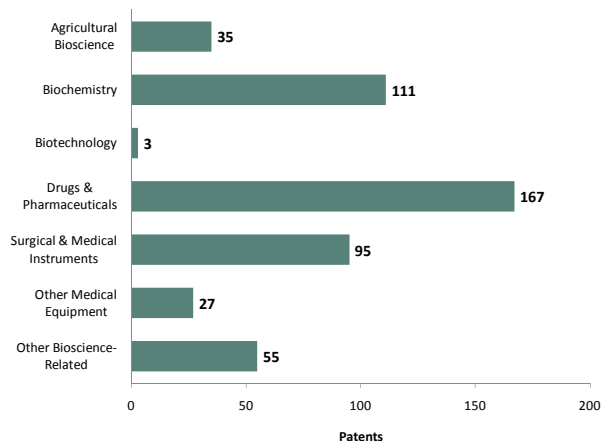


●●● Bioscience Patents

Bioscience-related Patents in Alabama, 2004–2009



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



State Bioscience Contacts

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F: (205) 943-4748

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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