Alabama

Bioscience industry employment in Alabama totaled nearly 13,000 in 2012 across 662 state business establishments. The state has a specialized employment concentration in the agricultural feedstock and chemicals subsector with 64 percent more jobs in the subsector relative to its private sector compared with the national average (location quotient of 1.64). Alabama has a strong focus in bioscience-related academic R&D expenditures relative to other fields with 71 percent of R&D in the life sciences compared with 61 percent, on average, for the U.S. Since 2009, state bioscience companies have received $93.9 million in venture capital funding with the vast majority focused in health IT/software and medical diagnostics.

Bioscience Performance Metrics

Summary of State Performance in Selected Bioscience-related Metrics

Metric	Alabama	United States	Quintile
Bioscience Industry, 2012			
Bioscience Industry Employment	12,794	1,619,746	III
Bioscience Industry Location Quotient	0.60	n/a	IV
Bioscience Industry Establishments	662	73,088	IV
Academic Bioscience R&D Expenditures, FY 2012			
Bioscience R&D ($ thousands)	$570,789	$38,139,876	III
Bioscience Share of Total R&D	71%	61%	I
Bioscience R&D Per Capita	$118	$119	II
NIH Funding, FY 2013			
Funding ($ thousands)	$228,362	$22,293,255	III
Funding Per Capita	$47	$70	III
Bioscience Venture Capital Investments, 2009–13 ($ millions)	$93.9	$49,401.7	III
Bioscience and Related Patents, 2009–13	623	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.

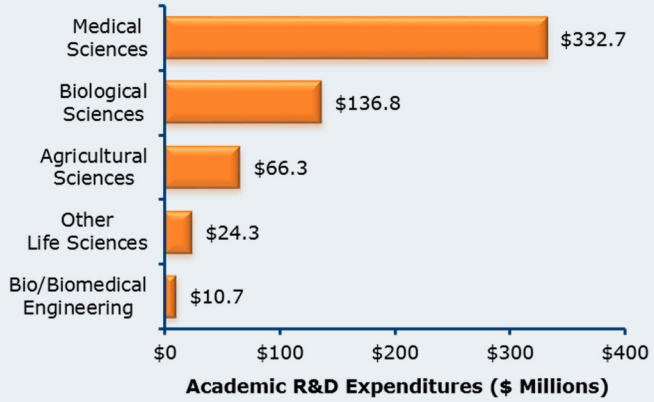
For source notes, see end of State Profile.

Industry Subsector	Alabama		United States	
	2012	2007–2012 Change	2012	2007–2012 Change
Agricultural Feedstock & Chemicals				
Establishments	28	0.0%	1,772	5.2%
Employment	1,651	-15.8%	76,404	-1.0%
Location Quotient	1.64		n/a	
Direct-Effect Employment Multiplier	13.2		18.1	
Total Employment Impact	21,780		1,382,637	
Average Annual Wage	$73,583	10.1%	$75,828	14.2%
Bioscience-Related Distribution				
Establishments	310	-27.7%	36,793	1.4%
Employment	4,353	-21.6%	442,016	-3.9%
Location Quotient	0.75		n/a	
Direct-Effect Employment Multiplier	2.5		2.7	
Total Employment Impact	10,724		1,199,015	
Average Annual Wage	$72,338	6.4%	$85,188	11.5%
Drugs and Pharmaceuticals				
Establishments	19	18.8%	3,057	12.0%
Employment	1,284	82.1%	284,331	-10.9%
Location Quotient	0.34		n/a	
Direct-Effect Employment Multiplier	6.6		9.9	
Total Employment Impact	8,461		2,673,265	
Average Annual Wage	$55,958	17.7%	$106,576	13.9%
Medical Devices and Equipment				
Establishments	54	10.2%	7,235	12.0%
Employment	1,662	-20.9%	349,432	1.4%
Location Quotient	0.36		n/a	
Direct-Effect Employment Multiplier	2.9		3.9	
Total Employment Impact	4,751		1,318,459	
Average Annual Wage	$46,939	11.0%	$75,695	10.7%
Research, Testing, and Medical Laboratories				
Establishments	251	41.8%	24,231	31.0%
Employment	3,844	24.9%	467,563	9.7%
Location Quotient	0.62		n/a	
Direct-Effect Employment Multiplier	2.4		2.7	
Total Employment Impact	9,356		1,284,196	
Average Annual Wage	$66,255	12.1%	$91,248	15.9%
Total Bioscience Industry				
Establishments	662	-5.3%	73,088	11.4%
Employment	12,794	-4.5%	1,619,746	-0.4%
Location Quotient	0.60		n/a	
Direct-Effect Employment Multiplier	4.0		4.9	
Total Employment Impact	51,705		7,857,572	
Average Annual Wage	$65,727	8.3%	$88,202	12.8%
Total Private Sector				
Establishments	109,625	-3.4%	8,699,564	-0.5%
Employment	1,466,977	-7.9%	111,137,206	-3.1%
Average Annual Wage	$41,074	12.1%	$49,130	11.1%

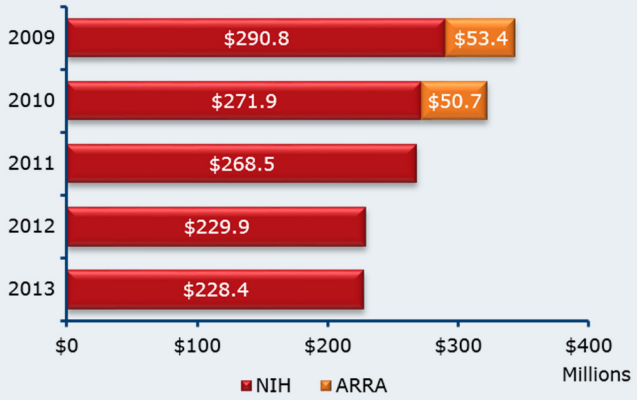
Note: U.S. employment metrics include Puerto Rico. Estimates of total impacts do not include Puerto Rico.

Bioscience Research in Alabama

Bioscience Academic R&D Expenditures, FY 2012



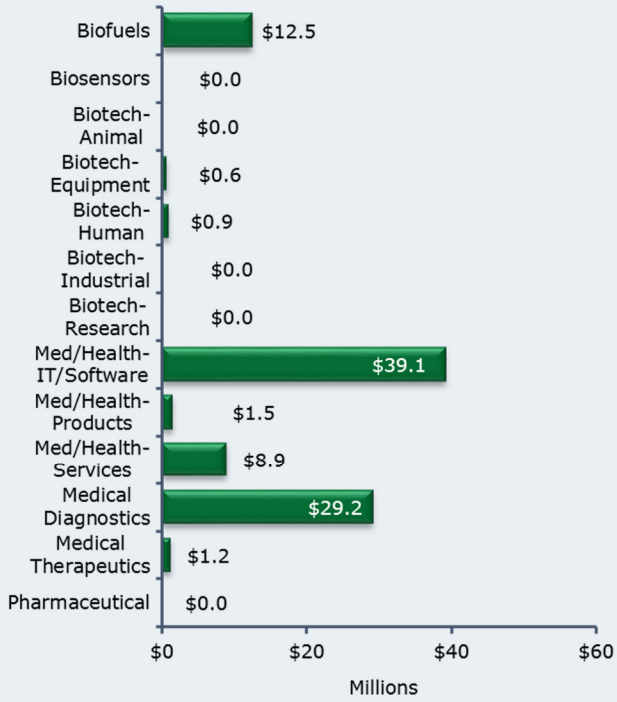
NIH Awards, 2009–2013



Bioscience Venture Capital in Alabama

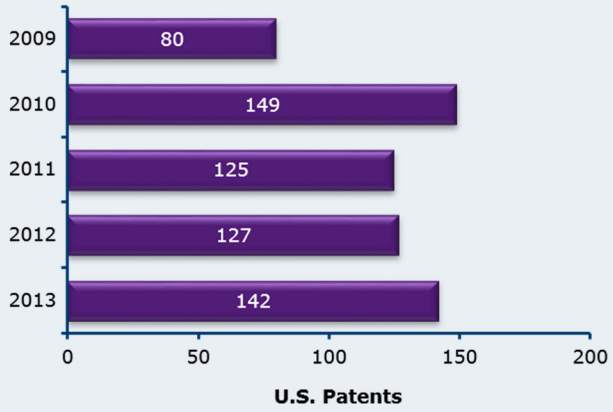
Bioscience-Related Venture Capital Investments, 2009–2013

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

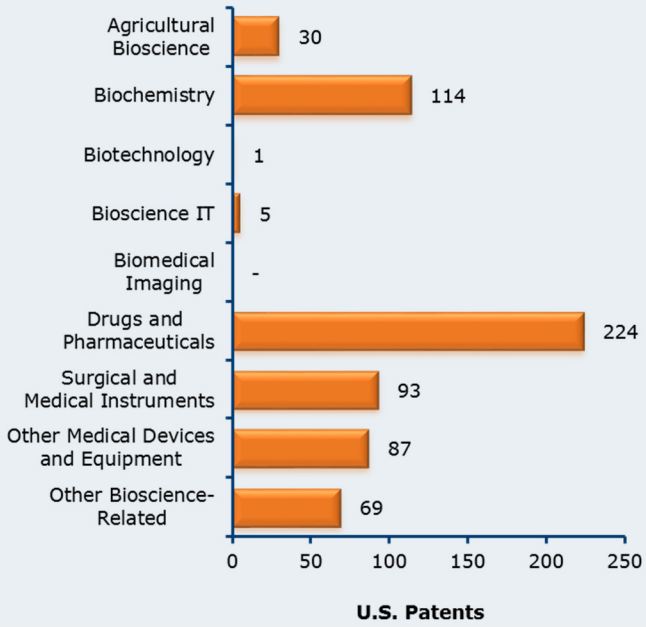


Bioscience Patents in Alabama

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.