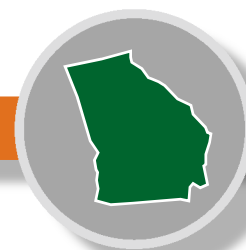


## Georgia



The bioscience industry in Georgia is sizable at nearly 28,000 jobs across more than 1,700 business establishments in 2012. Despite a modest overall employment decline since 2007, the state has grown jobs in three of its five major bioscience subsectors including medical devices; research, testing, and medical labs; and agricultural feedstock and chemicals. Georgia’s bioscience and biomedical research complex is large with nearly \$834 million in bioscience academic R&D which is, in part, funded by NIH which awarded \$451 million to state institutions (including non-university institutions) in 2013. Venture capital investments in Georgia bioscience companies have totaled \$561 million since 2009 and have funded firms across a range of technology areas including medical/health products, therapeutics, health IT, and biotechnology.

### Bioscience Performance Metrics

Summary of State Performance in Selected Bioscience-related Metrics

Metric	Georgia	United States	Quintile
<b>Bioscience Industry, 2012</b>			
Bioscience Industry Employment	27,667	1,619,746	II
Bioscience Industry Location Quotient	0.60	n/a	IV
Bioscience Industry Establishments	1,738	73,088	II
<b>Academic Bioscience R&amp;D Expenditures, FY 2012</b>			
Bioscience R&D (\$ thousands)	\$833,664	\$38,139,876	II
Bioscience Share of Total R&D	49%	61%	IV
Bioscience R&D Per Capita	\$83	\$119	IV
<b>NIH Funding, FY 2013</b>			
Funding (\$ thousands)	\$450,949	\$22,293,255	II
Funding Per Capita	\$45	\$70	III
<b>Bioscience Venture Capital Investments, 2009–13 (\$ millions)</b>	\$560.8	\$49,401.7	II
<b>Bioscience and Related Patents, 2009–13</b>	2,056	100,238	II

State ranking figures for bioscience performance metrics are calculated as quintiles, where I = top quintile, III = middle quintile, and V = bottom quintile.

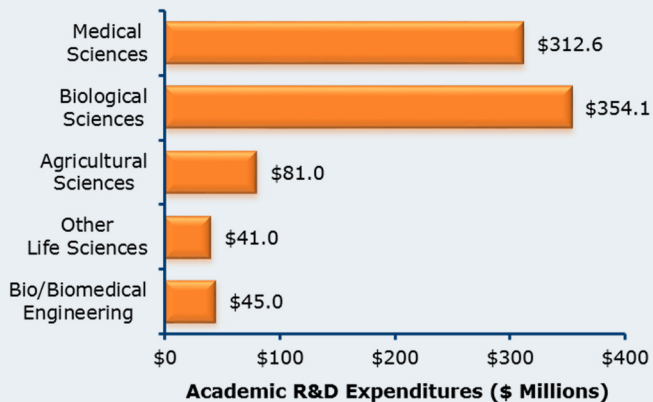
For source notes, see end of State Profile.

Industry Subsector	Georgia		United States	
	2012	2007-2012 Change	2012	2007-2012 Change
<b>Agricultural Feedstock &amp; Chemicals</b>				
Establishments	54	-5.3%	1,772	5.2%
Employment	1,870	2.7%	76,404	-1.0%
Location Quotient	0.86		n/a	
Direct-Effect Employment Multiplier	14.4		18.1	
Total Employment Impact	26,980		1,382,637	
Average Annual Wage	\$55,129	15.1%	\$75,828	14.2%
<b>Bioscience-Related Distribution</b>				
Establishments	869	3.7%	36,793	1.4%
Employment	11,889	-7.5%	442,016	-3.9%
Location Quotient	0.96		n/a	
Direct-Effect Employment Multiplier	2.9		2.7	
Total Employment Impact	34,899		1,199,015	
Average Annual Wage	\$89,013	5.0%	\$85,188	11.5%
<b>Drugs and Pharmaceuticals</b>				
Establishments	63	28.6%	3,057	12.0%
Employment	2,869	-12.0%	284,331	-10.9%
Location Quotient	0.35		n/a	
Direct-Effect Employment Multiplier	9.3		9.9	
Total Employment Impact	26,643		2,673,265	
Average Annual Wage	\$90,794	1.3%	\$106,576	13.9%
<b>Medical Devices and Equipment</b>				
Establishments	148	64.4%	7,235	12.0%
Employment	4,050	11.6%	349,432	1.4%
Location Quotient	0.41		n/a	
Direct-Effect Employment Multiplier	3.6		3.9	
Total Employment Impact	14,625		1,318,459	
Average Annual Wage	\$65,720	3.4%	\$75,695	10.7%
<b>Research, Testing, and Medical Laboratories</b>				
Establishments	604	36.0%	24,231	31.0%
Employment	6,989	4.7%	467,563	9.7%
Location Quotient	0.52		n/a	
Direct-Effect Employment Multiplier	2.6		2.7	
Total Employment Impact	18,292		1,284,196	
Average Annual Wage	\$68,344	22.8%	\$91,248	15.9%
<b>Total Bioscience Industry</b>				
Establishments	1,738	17.5%	73,088	11.4%
Employment	27,667	-2.0%	1,619,746	-0.4%
Location Quotient	0.60		n/a	
Direct-Effect Employment Multiplier	4.5		4.9	
Total Employment Impact	123,569		7,857,572	
Average Annual Wage	\$78,277	6.7%	\$88,202	12.8%
<b>Total Private Sector</b>				
Establishments	242,841	-7.2%	8,699,564	-0.5%
Employment	3,172,923	-6.8%	111,137,206	-3.1%
Average Annual Wage	\$46,981	10.0%	\$49,130	11.1%

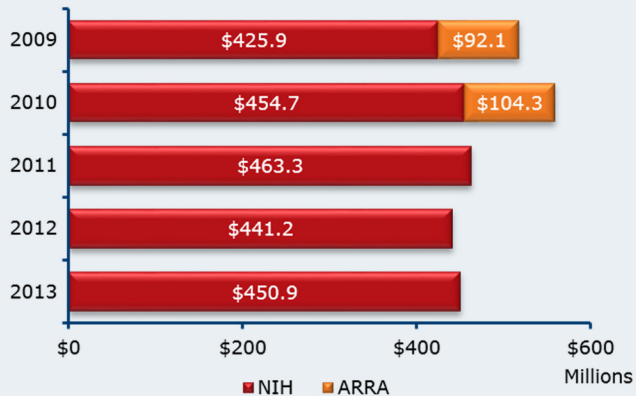
Note: U.S. employment metrics include Puerto Rico. Estimates of total impacts do not include Puerto Rico.

## Bioscience Research in Georgia

### Bioscience Academic R&D Expenditures, FY 2012



### NIH Awards, 2009–2013

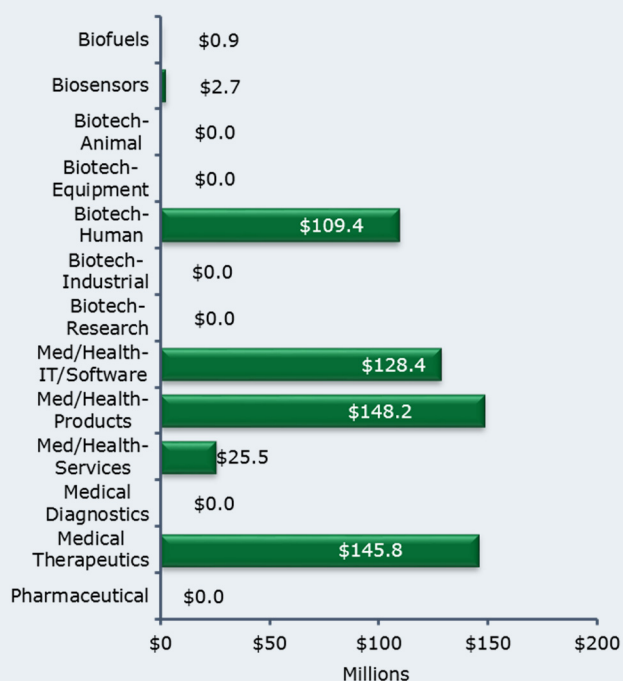


## Bioscience Venture Capital in Georgia

### Bioscience-Related Venture Capital Investments, 2009–2013

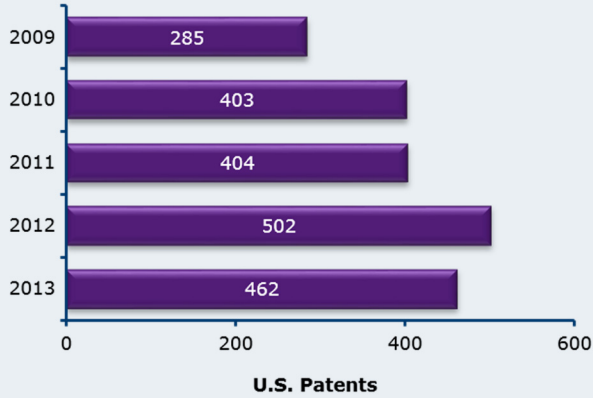


### Bioscience-Related Venture Capital Investments by Segment, 2009–2013

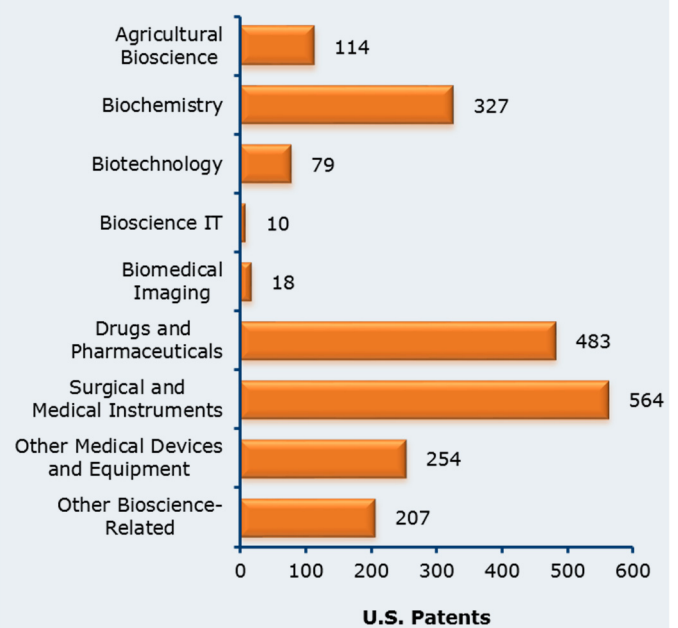


## Bioscience Patents in Georgia

### 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.