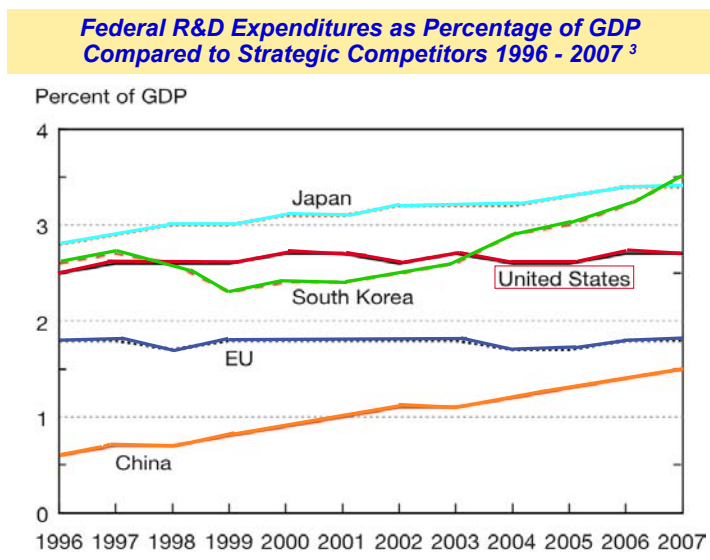


More than fifty years of experience shows that a strong federal commitment to scientific research is key to building a better America. **Discovery and innovation are proven fuels for economic growth and job creation.** And they are vital elements for achieving energy security and sustaining America's global leadership in science. We must begin to reduce the deficit and begin to live within our means. But we must be smart about how we go about it. **Federal support for science will spur economic growth and help restore a firm fiscal foundation for our nation.**

A National Science Foundation (NSF) study found that 73% of the science papers cited in industry patents were funded by taxpayers through the federal government, especially university research operations.<sup>1</sup>

Georgia received \$249.9 million in federal R&D contracts in FY 2010, with approximately 1,422 transactions taking place.<sup>2</sup> Information and charts on this page demonstrate the importance of federal investment in R&D to Georgia's economy, and its future in the global marketplace.



**Fueling Georgia's 21st Century Workforce: Federal R&D Expenditures at Georgia Universities & Colleges FY 2008<sup>3</sup>**

**Georgia's colleges and universities received \$1.521 billion in federal R&D spending in FY 2008, making it 12th in the nation.**

**Key Reports and On-line Resource**

- The Science-Engineering-Technology Working Group (SETWG) sponsors the annual Congressional Visits Day Program. See [www.aboutastra.org/cvdl/](http://www.aboutastra.org/cvdl/)
- **Science & Engineering Indicators 2010**, published by the National Science Board, provides a broad base of quantitative information on the U.S. and international science and engineering enterprise. It is created biennially by the National Science Foundation's Division of Science Resources Statistics (SRS). See [www.nsf.gov/statistics/seind10/](http://www.nsf.gov/statistics/seind10/)

**Top 5 Recipients of Federal R&D Contracts (not Grants)<sup>2</sup> Performed in Georgia FY 2010\***

1. GEORGIA TECH RESEARCH CORPORATION	\$109,447,075	(44%)
2. SCIENTIFIC RESEARCH CORP	\$17,951,489	(7%)
3. WAKE FOREST UNIVERSITY	\$10,994,724	(4%)
4. EMERGINT TECHNOLOGIES	\$7,336,935	(3%)
5. EMORY UNIVERSITY	\$7,013,038	(3%)

\* Note: R&D contract & grant amounts do not include management and administrative fees for the operation of Government-Owned, Contractor-Operated (GOCO) facilities under OMB definitions.

**Top 5 Federally-Funded R&D Product or Service Types Spent in Georgia FY 2010<sup>2</sup>**

1. AIR FORCE	\$77,817,561	(31%)
2. Centers for Disease Control and Prevention	\$45,672,260	(18%)
3. ARMY (except Corps of Engineers Civil Program Financing)	\$43,623,101	(17%)
4. NAVY Department of the	\$27,568,740	(11%)
5. National Institutes of Health	\$22,989,318	(9%)

**Top 5 Contracting Agencies for Georgia R&D Investments During FY 2010<sup>2</sup>**

1. Other R&D Applied & Expl. Dev. R&D	\$65,609,541	(26%)
2. Biomedical — Applied R&D	\$17,601,081	(7%)
3. Biomedical — Basic R&D	\$15,246,173	(6%)
4. Defense Missile and Space Dev.(R&D)	\$14,921,329	(6%)
5. Other Defense — Applied R&D	\$11,156,865	(4%)

**National Science Foundation (NSF) Georgia Investments During FY 2010**

2010	<div style="background-color: #0056b3; width: 100%; height: 15px;"></div>	<b>\$132,050,000</b>
2009	<div style="background-color: #0056b3; width: 75%; height: 15px;"></div>	total awards for
2008	<div style="background-color: #0056b3; width: 50%; height: 15px;"></div>	FY 2010

[More »](#)

**Local Research Assets: 16**  
**2010 NSF Awards: 571**

The 2010 CVD State R&D Sheet State Series are made possible by the American Chemical Society [www.acs.org](http://www.acs.org); IEEE-USA [www.ieee-usa.org](http://www.ieee-usa.org); and SPIE-The International Society for Optical Engineering [www.spie.org](http://www.spie.org)



1. NSF-sponsored study, March 1997; 2 and 3. Sources: The sources of this data include a variety of federal government agencies, including the U.S. Office of Management & Budget and the National Science Foundation.

# How Georgia Ranks 2011

Rank	Science & Technology in Georgia's Economy <sup>3, 4, 5</sup>	Georgia	Total U.S. **
9	Georgia's Population as of July 1, 2010 (U.S. Census Bureau estimates)	9,908,357	309,050,816
12	High-Technology Share of all Business Establishments 2006 (%)	9.23%	8.35%
6	Net High-Tech Business Formations as Share of All Business Estab. 2006 (%)	.33%	.18%
15	Employment in High-Tech Establishments as % of Total Employment 2006 (%)	11.82%	11.45%
37	Average Annual SBIR Funding <i>per</i> \$1 Million of Gross Domestic Product 2006-2008 (\$)	\$43	\$127
16	Venture Capital Disbursed <i>per</i> \$1,000 of Gross Domestic Product 2008 (\$)	\$1.07	\$2
22	Venture Capital Disbursed <i>per</i> Venture Capital Deal 2008 (\$ millions)	\$5.33	\$7.43
37	R&D as Share of Gross Domestic Product 2007 (%)	1.13%	2.62%
19	2010 State <i>New Economy Index</i> Overall Rank (composite of 26 innovation indicators) <sup>5</sup>	NA	NA
Rank	Elementary & Secondary Education <sup>3</sup>		
40	Fourth Grade Mathematics Performance 2007 (Score out of 500)	235	239
32	Fourth Grade Science Performance 2005 (Score out of 300)	148	149
38	Eighth Grade Mathematics Performance 2007 (Score out of 500)	275	280
32	Eighth Grade Science Performance 2005 (Score out of 300)	144	147
18	Public School Teacher Salaries 2007 (\$)	\$49,905	\$50,816
41	Share of Public H.S. School Students Taking Advance Placement Exams 2008 (%)	6.6%	25%
Rank	Higher Education <sup>3</sup>		
41	Bachelor's Degrees in Nat. Sciences & Engineering. <i>per</i> 1,000 Indiv. 18-24 Yrs. Old 2007	6.6	8.1
32	S&E Graduate Students per 1,000 Individuals 25-34 Years Old 2007	3.04	12.3
Rank	Workforce Indicators <sup>3</sup>		
32	Individuals in S&E Occupations as Share of Workforce 2008 (%)	3.04%	3.75%
40	Engineers as Share of Workforce 2008 (%)	0.74%	1.06%
46	Life and Physical Scientists as Share of Workforce 2008 (%)	.20%	.40%
11	Computer Specialists as Share of Workforce 2008 (%)	475	2.08%
Rank	Financial R&D Indicators <sup>3</sup>		
49	State Agency R&D Expenditures per \$1 Million of Gross Domestic Product 2007 (\$)	\$12	\$89
33	Business-Performed R&D as Share of Private-Industry Output 2007 (%)	0.82%	2.20%
21	Academic R&D per \$1,000 of Gross Domestic Product 2008 (\$)	\$3.83	\$3.66
Rank	Academic R&D and Patent Output Indicators <sup>3</sup>		
20	Academic S&E Article Output per 1,000 Doctorate Holders in Academia 2006-2008	555	577
37	Academic S&E Article Output per \$1 Million of Academic R&D 2008 (# articles)	2.83	3.24
16	Academic Patents Awarded per 1,000 S&E Doctorate Holders in Academia 2006	10.3	11.6
26	Patents Awarded per 1,000 Individuals in S&E Occupations 2008	9.1	13.4

Sources: 3. *Science & Engineering Indicators 2010*, National Science Board and National Science Foundation / Science Resources Study Division; 4. National Venture Capital Association [www.nvca.org](http://www.nvca.org); 5. Information Technology & Innovation Foundation [www.itif.org](http://www.itif.org)

\*\* rankings include the District of Columbia

