

## » Office of Institutional Research and Planning



Research & Development Expenditures (R&D)  
at Georgia Tech, FY2013-2018

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## EXECUTIVE SUMMARY

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### Purpose and Rationale

This report is intended to provide insights regarding Georgia Institute of Technology's Research and Development (R&D) expenditures. The Office of Institutional Research and Planning conducted a trend analysis of Georgia Tech's R&D expenditures using (a) the National Science Foundation's (NSF) Higher Education Research and Development Survey (HERD) data for FY2013-2017, and (b) FY2018 NSF-HERD data reported by the Office of Institutional Research and Planning. Research institutions whose R&D expenditures ranked among the top 25 nationally, as well as Georgia Tech's Peer institutions, were also included in the report as basis for comparing (a) overall R&D expenditures, (b) types of funding, (c) sources of funding, and (d) expenditures by discipline. NSF-R&D data from the FY2018 HERD survey have not been released yet; therefore, FY2018 R&D expenditures among the top research institutions cannot be compared at this time. Similarly, R&D expenditures for FY2019 are preliminary and have not yet been finalized or reported.

### Summary of Findings

- Nationally, Georgia Tech ranked 24th in Research and Development expenditures in FY2017 at \$804.30M with an average of \$822.62M in R&D expenditures for FY2013-2019.
- Georgia Tech's R&D expenditures have continued to increase each year with the greatest increase reported in FY2018 at \$891.73M (\$87.43M increase over PY), and a projected increase of \$158.40M over prior year for FY2019 at \$1,050.17M (See Figures 9 and 10).
- Georgia Tech's U.S. Federal funding has continued to increase since FY2015 with the greatest increase in FY2018 by 11.97%. Likewise, State & Local Government, Business, and Nonprofit funding have also continued to increase (See Table 1).
- Institutional funding decreased greatly in FY2017 by \$91.53M (-61.01%), but increased in FY2018 by \$6.97M (11.42%). The decrease in institutional funding could be related to an increase in both U.S. Federal and State & Local Government funding (See Table 1). Therefore, research that was previously funded by the institution might now be funded by U.S. Federal and/or State & Local Government monies. Additionally, there was an error in the HERD survey's category of institutionally financed research. NSF-NCSES discovered there were varying definitions of what should be included on the HERD Survey as institutionally funded research. Therefore, some adjustments were made based on differences in definitional interpretations.
- With the exception of FY2017, R&D expenditures related to DoD funding have continued to increase, most notably in FY2018 at \$53.30M (13.66%). Similarly, with the exception of FY2017, expenditures related to Nonfederal funding have continued to rise with the greatest increase in FY2018 at \$17.44M (7.94%) (See Table 1).
- Georgia Tech's R&D expenditures have increased across most disciplines, including Computer & Information Sciences (22.68%), Engineering (6.05%), Geosciences, Atmospheric and Ocean Sciences (3.64%), Life Sciences (59.36%), Mathematics and Statistics (6.10%), Physical Sciences (2.66%), and Non-S&E Fields (75.00%) (See Table 3; See also Figure 8).
- With (a) an increase in R&D expenditures across most disciplines and (b) the reclassification of certain NSF R&D disciplines and fields of study, the distribution of expenditures by discipline also changed (See figure 7). Engineering and Computer & Information Sciences are still proportionately larger and account for 84.35% of Georgia Tech's R&D expenditures; however, Physical Sciences, Life Sciences, and Non-S&E Fields now account for 6.33%, 3.02%, and 1.69% of R&D expenditures respectively (See Figure 7).

(Summary of Findings continued on next page)

(Summary of Findings continued)

- Prior to FY2017 Psychology was previously grouped with either Social Sciences or Non-S&E Fields. Thus, the \$4.03M increase is a result of the reclassification of NSF R&D disciplines and fields of study, which may also have impacted the decrease in R&D expenditures for Social Sciences (-\$7.02M) by -54.91%.
- **FY2017 R&D Rankings Among Top Research Institutions**
  - For FY2017 Georgia Tech ranked 8<sup>th</sup> in R&D Expenditures funded by the State and Local Government, and 12<sup>th</sup> for U.S. Federal Government, which are also Georgia Tech's largest types of sponsored awards (See Table 4).
  - Among the top research institutions, Georgia Tech ranked 2<sup>nd</sup> in R&D expenditures funded by the U.S. Department of Defense (DoD), which is also the institution's largest source of federal funds.
  - For FY2017 Georgia Tech ranked 2<sup>nd</sup> in Engineering expenditures and 3<sup>rd</sup> in Computer and Information Sciences expenditures.

R&D (\$) by Funding Type	R&D (\$) by Funding Source	R&D (\$) by Discipline
<ul style="list-style-type: none"> <li>• State and Local Government (\$85.70M) – 8<sup>th</sup></li> <li>• U.S. Federal Gov. (\$584.90M) – 12<sup>th</sup></li> <li>• Business (\$54.3M) – 22<sup>nd</sup></li> <li>• All Other Source(Types) (\$6.0M) – 65<sup>th</sup></li> <li>• Institutional Funds (\$61.0M) – 99<sup>th</sup></li> <li>• Nonprofit Organizations (\$12.4M) – 97<sup>th</sup></li> </ul>	<ul style="list-style-type: none"> <li>• DoD (\$390.10M) – 2<sup>nd</sup></li> <li>• Other Sources (\$72.94M) – 5<sup>th</sup></li> <li>• NASA (\$12.85M) – 21<sup>st</sup></li> <li>• USDA (\$0.90M) – 106<sup>th</sup></li> <li>• ENERGY (\$13.96M) – 37<sup>th</sup></li> <li>• NSF (\$62.59M) – 21<sup>st</sup></li> <li>• Nonfederal (\$219.41M) – 50<sup>th</sup></li> <li>• HHS (\$31.55M) – 115<sup>th</sup></li> </ul>	<ul style="list-style-type: none"> <li>• Engineering (\$578.66M) – 2<sup>nd</sup></li> <li>• Computer &amp; Info Sciences (\$115.72M) – 3<sup>rd</sup></li> <li>• Mathematics &amp; Statistics (\$7.11M) – 15<sup>th</sup></li> <li>• Geo, Atmos, and Ocean Sciences (\$11.94M) – 19<sup>th</sup></li> <li>• Physical Sciences (\$37.00M) – 23<sup>rd</sup></li> <li>• Non-S&amp;E Fields (\$18.70M) – 24<sup>th</sup></li> <li>• Life Sciences (\$22.39M) – 30<sup>th</sup></li> <li>• Social Sciences (\$4.87M) – 29<sup>th</sup></li> <li>• Psychology (7.91M) – 22<sup>nd</sup></li> </ul>

## Research Questions

- RQ1. What are Georgia Institute of Technology's Research and Development trends for FY2012 – FY2018 in terms of (a) overall R&D expenditures, (b) types of funding, (c) sources of funding, and (d) expenditures by discipline?
- RQ2. How does Georgia Institute of Technology's Research and Development compare to its national peers in terms of **overall expenditures** for FY2012 – FY2017?
- RQ3. How does Georgia Institute of Technology's Research and Development compare to its national peers in terms of **types of funding** for FY2012 – FY2017?
- RQ4. How does Georgia Institute of Technology's Research and Development compare to its national peers in terms of **sources of funding** for FY2012 – FY2017?
- RQ5. How does Georgia Institute of Technology's Research and Development compare to its national peers in terms of **research disciplines** for FY2012 – FY2017?

## RESULTS

### R&D Trends at Georgia Institute of Technology

RQ1. What are Georgia Institute of Technology's Research and Development trends for FY2012 – FY2018 in terms of (a) overall R&D expenditures, (b) types of funding, (c) sources of funding, and (d) expenditures by discipline?

#### Overall R&D Expenditures

- With the exception of FY2014, Georgia Tech has experienced a continued increase in R&D expenditures with the greatest increase in FY2018 at \$87.43M, which surpassed last year's R&D expenditures by 10.87% (See Figure 1).
- While there were some decreases in expenditures by funding source for certain disciplines such as Physical Sciences and Social Sciences, other disciplines such as Computer & Information Sciences, Engineering, Life Sciences, and Non-S&E Fields experienced an increase in R&D expenditures (See Tables 2 and 3; See also Figure 8).

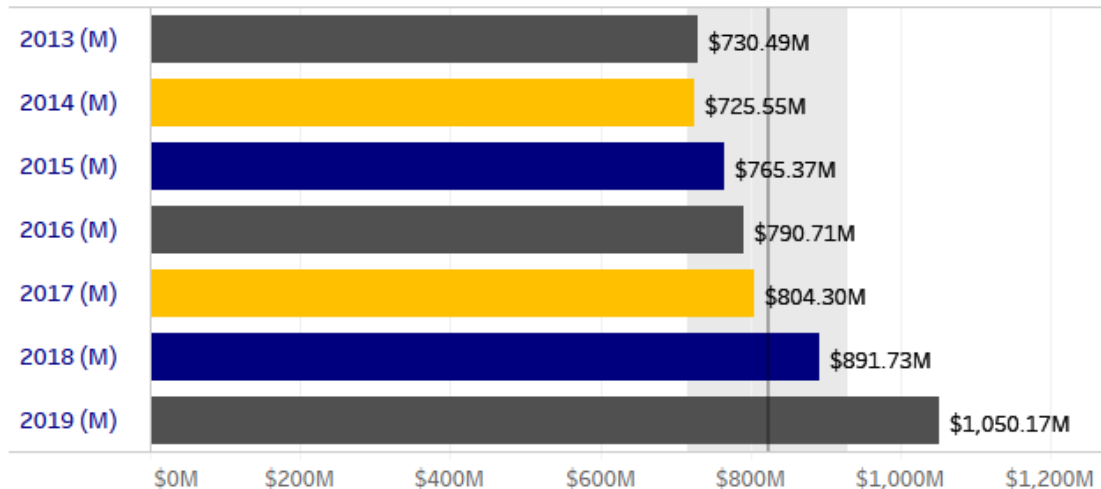


Figure 1: Georgia Tech's R&D Expenditures (FY2013-2019)

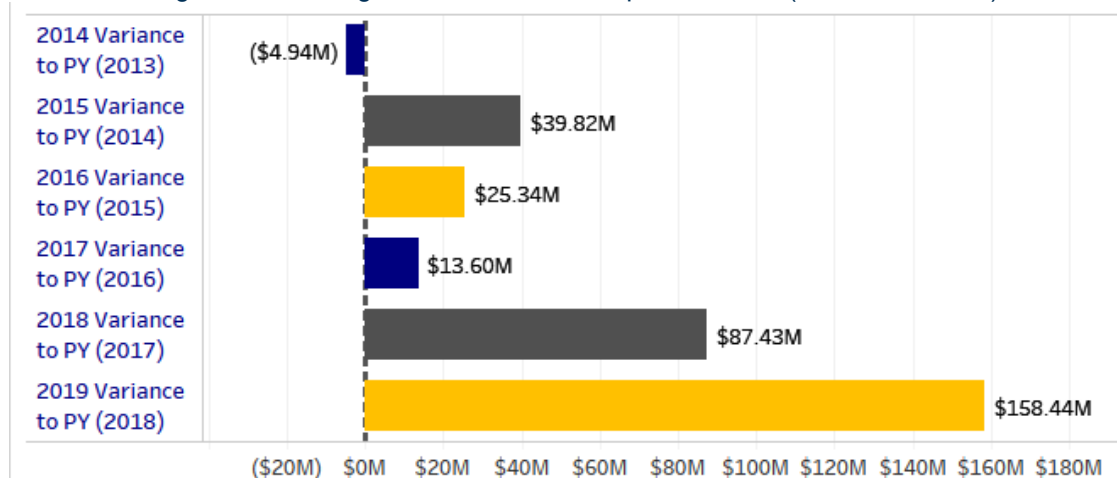


Figure 2: Changes in Georgia Tech's R&D Expenditures (FY2013-2019)

## Types of Funding

- Georgia Tech's R&D expenditures funded by the U.S. Federal Government have increased since FY2015 with the greatest increase in FY2018 by 11.97%. Likewise, State & Local Government, Business, and Nonprofit funding have also continued to increase (See Table 1).
- Institutional funding decreased greatly in FY2017 by \$91.53M (-61.01%), but increased in FY2018 by \$6.97M (11.42%). With the exception of FY2017, other types of funding (All Other Sources) have also steadily decreased each year since FY2014.
  - Based on the redistribution of funds by funding type, it can be assumed that roughly \$78.90M of research previously funded by the institution in FY2016 was funded by State and Local Government in FY2017 (See Figure 3; See Also Table 2). Additionally, there was an error in the HERD survey's category of institutionally financed research. NSF-NCSES discovered there were varying definitions of what should be included on the HERD Survey as institutionally funded research. Therefore, some adjustments were made based on differences in definitional interpretations.
  - Research funded by the institution in FY2016 for Engineering, Life Sciences, Physical Sciences, Mathematics and Statistics, Geosciences, Atmospheric and Ocean Sciences, and Psychology appears to have been funded by State and Local Government in FY2017, with the greatest change in R&D expenditures for Engineering research (See Table 2).
  - R&D expenditures for Non-S&E Fields has also continued to increase.

Table 1: R&D Expenditures by Funding Type (FY2013-2018)

Year		R&D Types of Funding					
		U.S. Federal Gov.	State & Local Gov.	Institutional Funds	Business	Nonprofit Org.	All Other Sources
FY2013	2013	\$522.13M	\$11.52M	\$132.95M	\$46.19M	\$6.05M	\$11.65M
FY2014	2014	\$512.02M	\$12.68M	\$143.81M	\$41.57M	\$5.03M	\$10.45M
	Var. to PY	(\$10.12M)	\$1.16M	\$10.86M	(\$4.61M)	(\$1.03M)	(\$1.20M)
FY2015	2015	\$551.08M	\$10.25M	\$148.06M	\$41.09M	\$6.33M	\$8.55M
	Var. to PY	\$39.07M	(\$2.43M)	\$4.25M	(\$0.48M)	\$1.31M	(\$1.89M)
FY2016	2016	\$568.43M	\$7.49M	\$152.52M	\$46.48M	\$10.94M	\$4.86M
	Var. to PY	\$17.35M	(\$2.76M)	\$4.46M	\$5.39M	\$4.61M	(\$3.70M)
FY2017	2017	\$584.89M	\$85.67M	\$60.99M	\$54.28M	\$12.45M	\$6.03M
	Var. to PY	\$16.46M	\$78.18M	(\$91.53M)	\$7.81M	\$1.51M	\$1.17M
FY2018	2018	\$654.88M	\$86.19M	\$67.95M	\$57.60M	\$24.06M	\$1.05M
	Var. to PY	\$69.99M	\$0.52M	\$6.97M	\$3.32M	\$11.61M	(\$4.98M)
Avg ( $\mu$ )		\$565.57M	\$35.63M	\$117.71M	\$47.87M	\$10.81M	\$7.10M

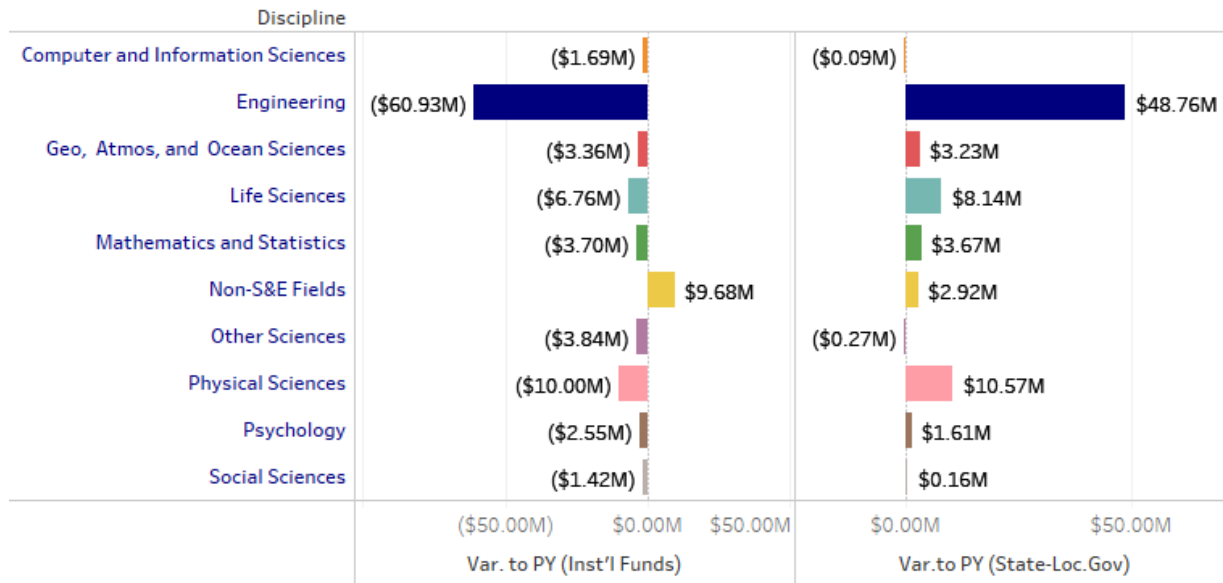


Figure 3: Changes in Institutional and State and Local Government Funding (FY2016-2017)

Table 2: Changes R&D Expenditures by Funding Type (FY2016-2017)

Discipline	Funding Type	FY2016	FY2017	Var. to PY
Engineering	Institutional Funds	\$90,401,071	\$29,475,000	(\$60,926,071)
	State and Local Gov.	\$4,755,123	\$53,520,000	\$48,764,877
Geosciences, Atmospheric Sciences, and Ocean Sciences	Institutional Funds	\$3,564,052	\$205,000	(\$3,359,052)
	State and Local Gov.	\$247,271	\$3,480,000	\$3,232,729
Life Sciences	Institutional Funds	\$11,061,397	\$4,301,000	(\$6,760,397)
	State and Local Gov.	\$914,747	\$9,055,000	\$8,140,253
Mathematics and Statistics	Institutional Funds	\$4,021,716	\$325,000	(\$3,696,716)
	State and Local Gov.	\$0	\$3,666,000	\$3,666,000
Non-S&E Fields	Institutional Funds	\$8,913,040	\$18,589,000	\$9,675,960
	State and Local Gov.	\$217,257	\$3,135,000	\$2,917,743
Physical Sciences	Institutional Funds	\$12,183,316	\$2,185,000	(\$9,998,316)
	State and Local Gov.	\$51,277	\$10,626,000	\$10,574,723
Psychology	Institutional Funds	\$2,598,102	\$48,000	(\$2,550,102)
	State and Local Gov.	\$0	\$1,606,000	\$1,606,000
Overall Change in Funding Type	Institutional Funds	\$132,742,694	\$55,128,000	(\$77,614,694)
	State and Local Gov.	\$6,185,675	\$85,088,000	\$78,902,325



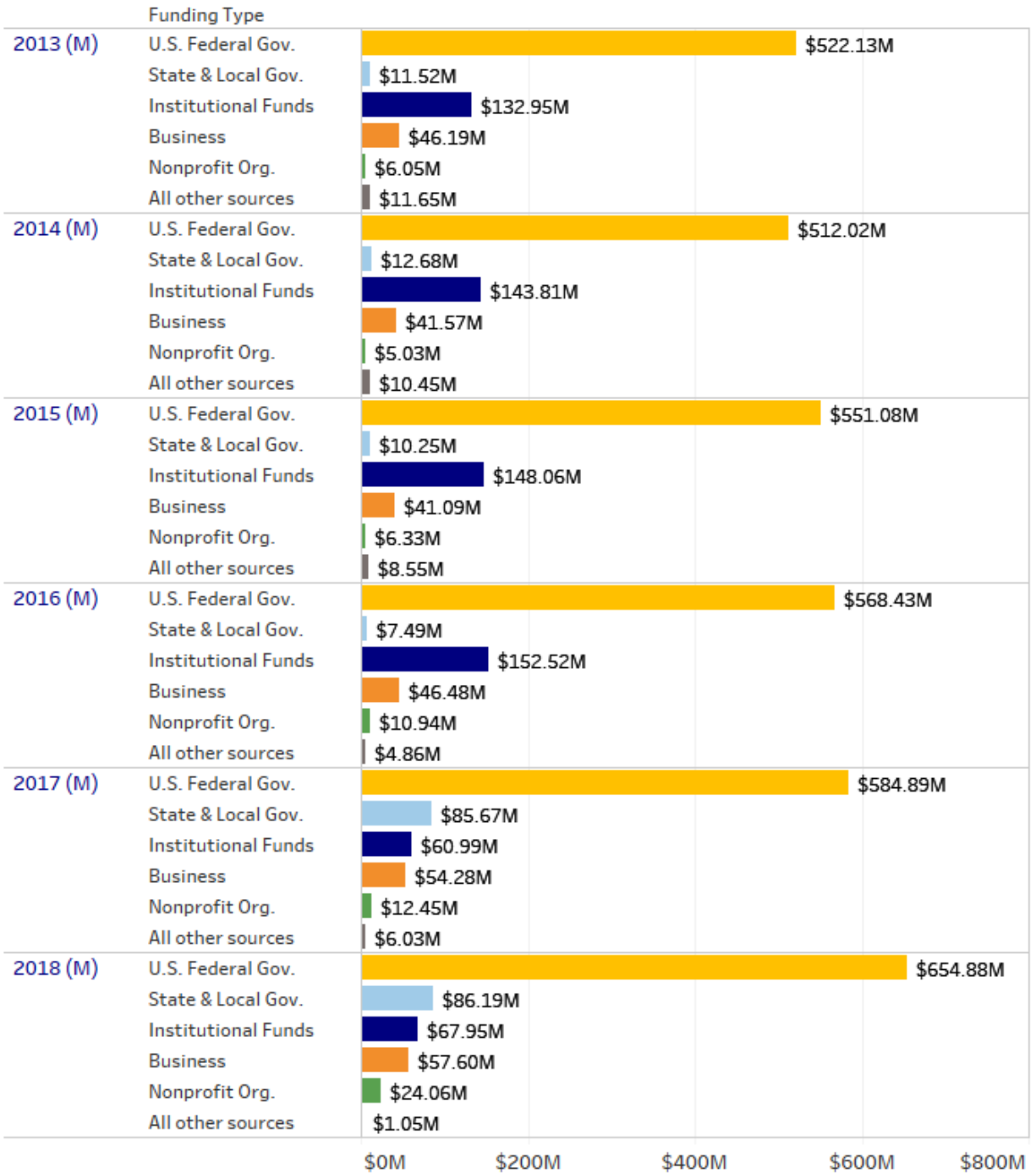


Figure 4: Georgia Tech's R&D Expenditures by Funding Type (FY2013-2018)

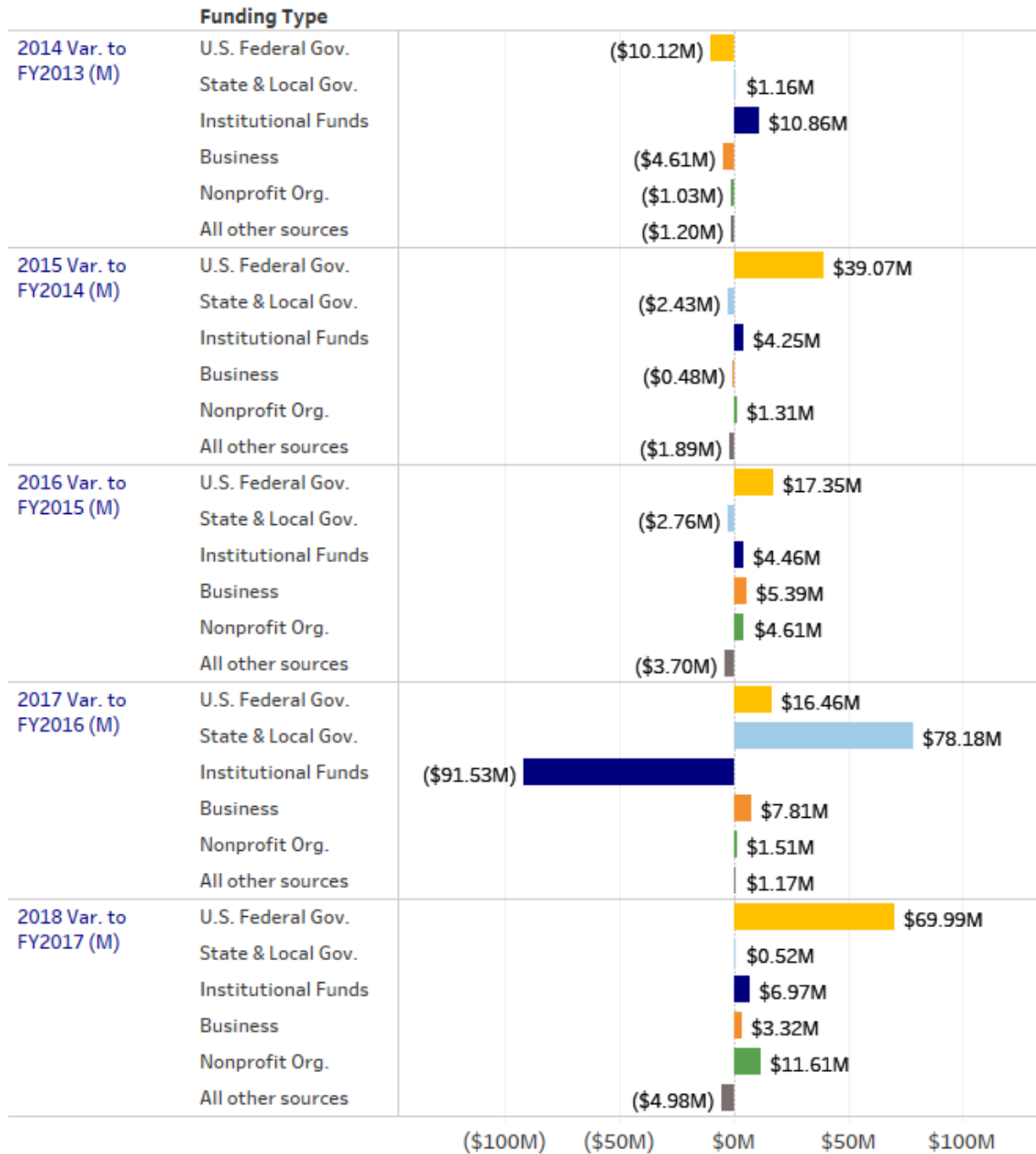


Figure 5: Changes in Georgia Tech's R&D Expenditures by Funding Type (FY2013-2018)

## Sources of Funding

- R&D expenditures related to USDA, ENERGY, NASA, and NSF funding have decreased, however, expenditures related to HHS, DoD, Nonfederal, and Other sources of funding have increased.
- With the exception of FY2014 and FY2017, R&D expenditures related to DoD funding have continued to increase with the greatest increase in FY2018 at \$53.30M (13.66%). Similarly, with the exception of FY2017, expenditures related to Nonfederal funding have continued to increase with the greatest increase in FY2018 at \$17.44M (7.94%).

Table 3: R&D Expenditures by Funding Source (FY2013-2018)

Year		R&D Sources of Funding							
		Dept. of Ag (USDA)	Dept. Humn. Hlth Serv. (HHS)	Dept. of Defense (DoD)	Dept. of Energy (ENERGY)	Nat'l Aero. & Space Admin. (NASA)	Nat'l Sci Found (NSF)	Nonfederal	Other
FY2013	2013	\$0.62M	\$38.89M	\$337.61M	\$25.37M	\$14.01M	\$70.38M	\$208.35M	\$35.25M
FY2014	2014	\$0.67M	\$37.87M	\$335.73M	\$27.17M	\$13.65M	\$69.19M	\$213.54M	\$27.74M
	Var. to PY	\$0.05M	(\$1.02M)	(\$1.89M)	\$1.80M	(\$0.36M)	(\$1.18M)	\$5.18M	(\$7.51M)
FY2015	2015	\$0.85M	\$35.23M	\$374.01M	\$28.50M	\$15.93M	\$68.75M	\$214.29M	\$27.82M
	Var. to PY	\$0.18M	(\$2.64M)	\$38.28M	\$1.33M	\$2.28M	(\$0.45M)	\$0.75M	\$0.08M
FY2016	2016	\$1.40M	\$35.14M	\$396.20M	\$29.36M	\$13.88M	\$70.83M	\$222.28M	\$21.61M
	Var. to PY	\$0.55M	(\$0.09M)	\$22.19M	\$0.86M	(\$2.05M)	\$2.08M	\$7.99M	(\$6.21M)
FY2017	2017	\$0.90M	\$31.55M	\$390.10M	\$13.96M	\$12.85M	\$62.59M	\$219.41M	\$72.94M
	Var. to PY	(\$0.50M)	(\$3.59M)	(\$6.10M)	(\$15.40M)	(\$1.03M)	(\$8.24M)	(\$2.87M)	\$51.33M
FY2018	2018	\$0.78M	\$40.38M	\$443.40M	\$13.23M	\$12.83M	\$65.89M	\$236.85M	\$78.36M
	Var. to PY	(\$0.11M)	\$8.83M	\$53.30M	(\$0.73M)	(\$0.02M)	\$3.30M	\$17.44M	\$5.42M
Avg (μ)		\$0.87M	\$36.51M	\$379.51M	\$22.93M	\$13.86M	\$67.94M	\$219.12M	\$43.95M

**Note:**

- **Nonfederal** sources refers to sources not funded by a U.S. federal agency and includes sources such as Business, Institutional, State and Local Government, Nonprofit Organizations, and other sources not funded by the federal government.
- **Other** refers to other U.S. federal agencies not listed as one of the seven major agencies for R&D expenditures as identified by the National Science Foundation (NSF).

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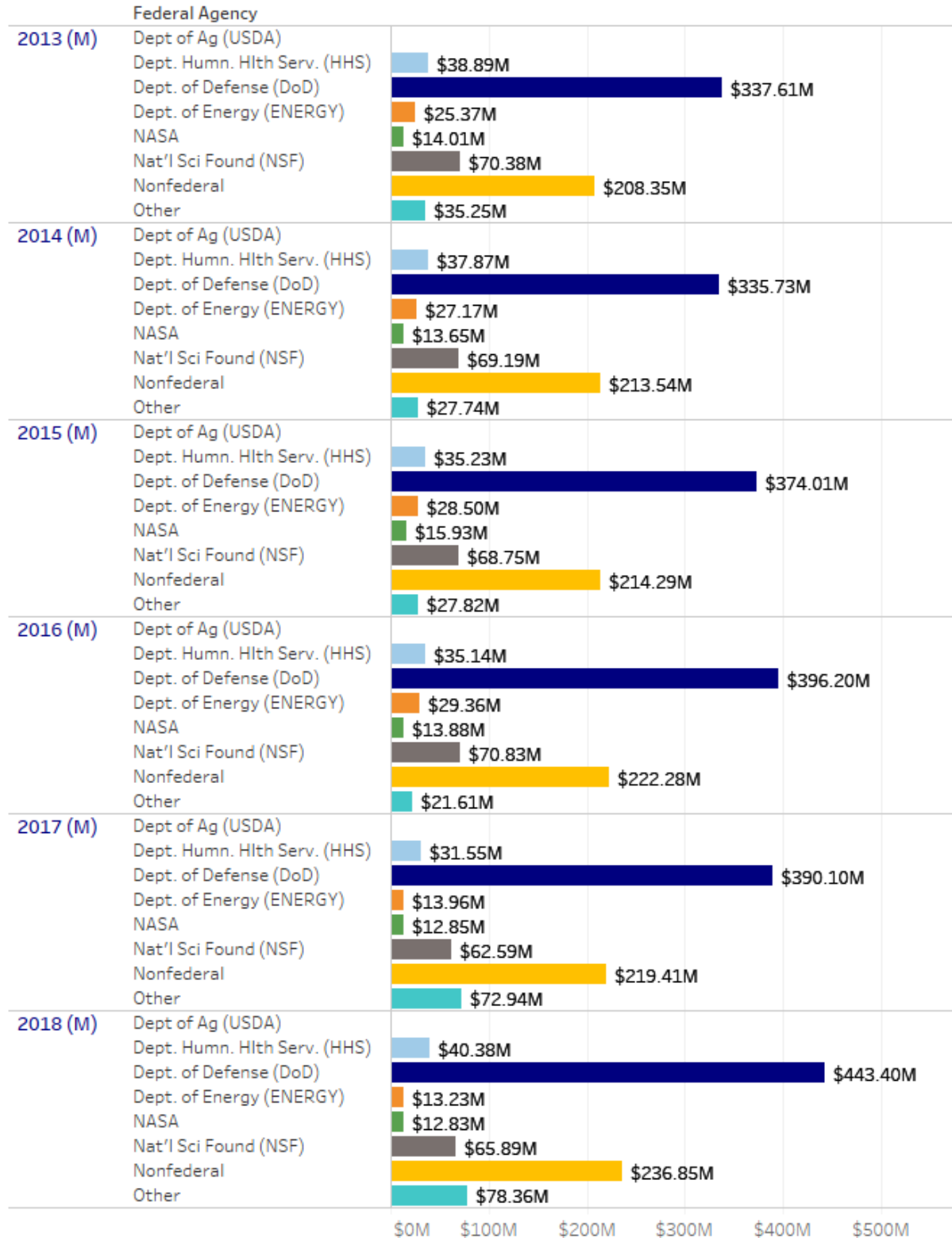


Figure 6: Georgia Tech's R&D Expenditures by Funding Source (FY2013-2018)

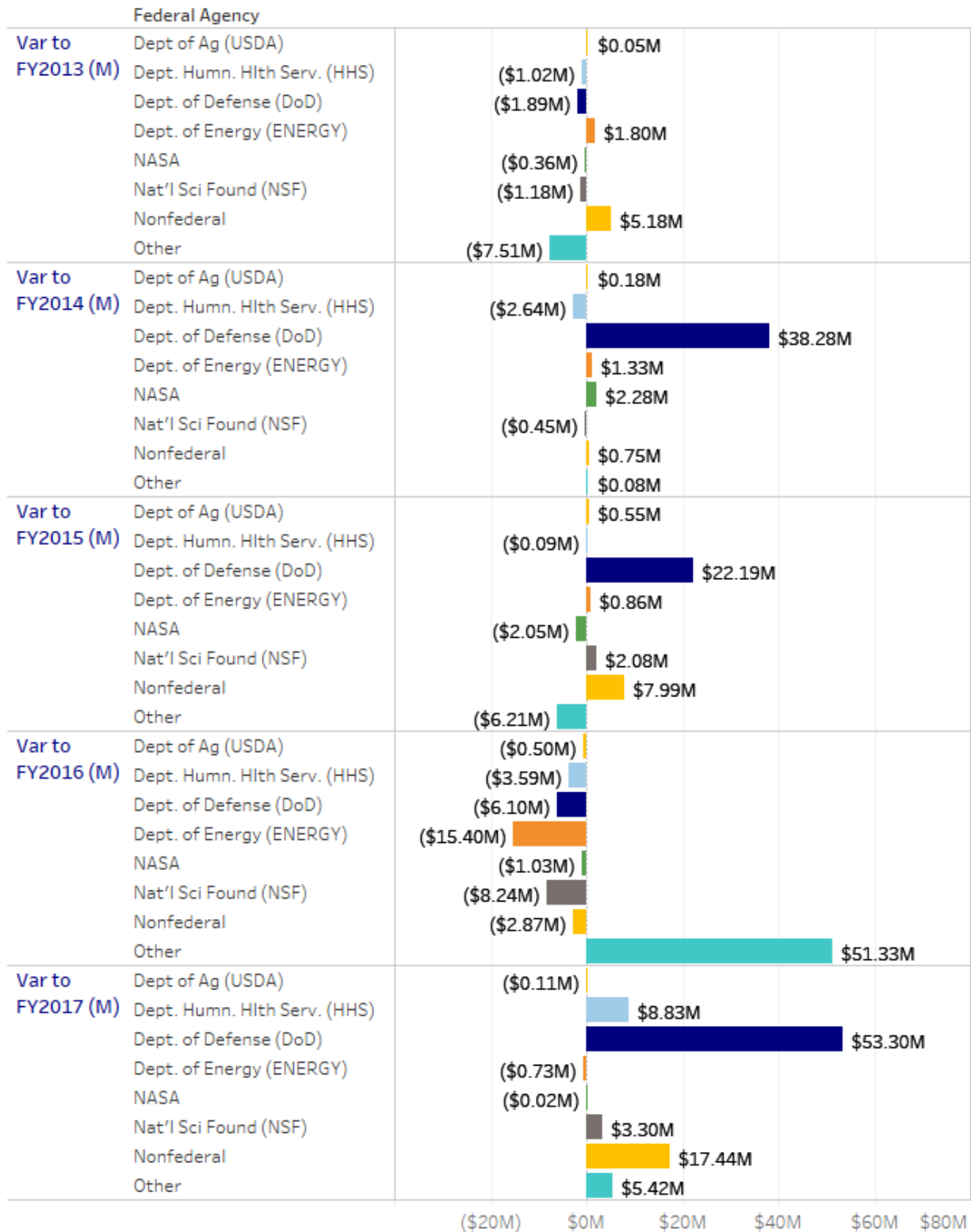


Figure 7: Changes in Georgia Tech's R&D Expenditures  
by Funding Source (FY2013-2018)

## Expenditures by Discipline

- With the exception of Social Sciences, Georgia Tech's R&D expenditures have increased across all disciplines, including Computer & Information Sciences (22.68%), Engineering (6.05%), Geosciences, Atmospheric and Ocean Sciences (3.64%), Life Sciences (59.36%), Mathematics and Statistics (6.10%), Physical Sciences (2.66%), and Non-S&E Fields (75.00%) (See Table 3; See also Figure 8).
- Prior to FY2017, Psychology was previously grouped with either Social Sciences or Non-S&E Fields. Thus, the \$4.03M increase is a result of the reclassification of NSF R&D disciplines and fields of study.
- With (a) an increase in R&D expenditures across all disciplines and (b) the reclassification of certain NSF R&D disciplines and fields of study, the distribution of expenditures by discipline also changed (See figure 7). Engineering and Computer & Information Sciences are still proportionately larger and account for 84.35% of Georgia Tech's R&D expenditures, however, Physical Sciences, Life Sciences, and Non-S&E Fields now account for 6.33%, 3.02%, and 1.69% of R&D expenditures respectively (See Figure 9).

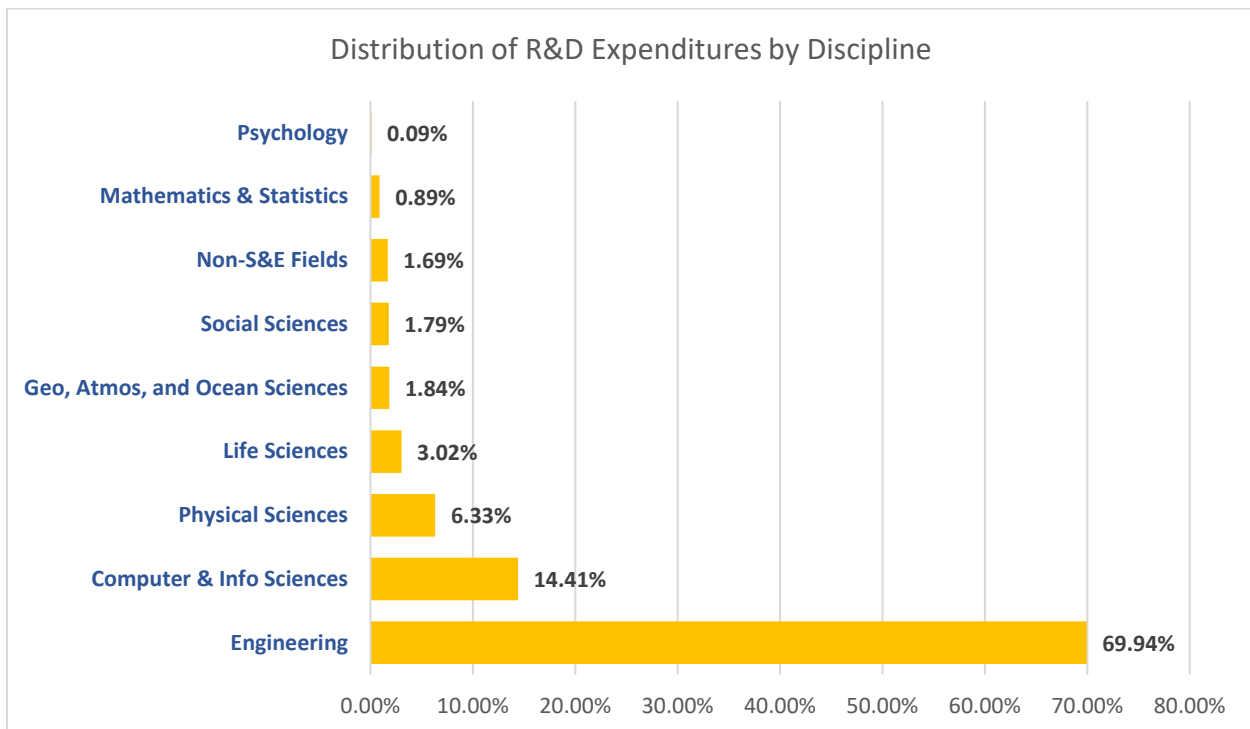


Figure 8: Distribution of Georgia Tech's R&D Expenditures by Discipline (FY2013-2018)

Table 4: R&D Expenditures by Discipline (FY2013-2018)

Year		R&D Expenditures by Discipline								
		Computer & Info Sciences	Engineering	Geo, Atmos, and Ocean Sciences	Life Sciences	Mathematics & Statistics	Non-S&E Fields	Physical Sciences	Psychology	Social Sciences
FY2013	2013	\$100.75M	\$503.47M	\$15.73M	\$20.96M	\$6.48M	\$4.11M	\$62.43M	\$0.00M	\$16.57M
FY2014	2014	\$98.56M	\$505.38M	\$16.17M	\$19.45M	\$6.96M	\$5.30M	\$56.48M	\$0.00M	\$17.24M
	Var. to PY	(\$2.19M)	\$1.92M	\$0.44M	(\$1.50M)	\$0.48M	\$1.19M	(\$5.95M)	\$0.00M	\$0.67M
FY2015	2015	\$106.68M	\$533.33M	\$19.07M	\$19.88M	\$6.68M	\$8.25M	\$54.92M	\$0.00M	\$16.56M
	Var. to PY	\$8.11M	\$27.95M	\$2.90M	\$0.43M	(\$0.28M)	\$2.95M	(\$1.56M)	\$0.00M	(\$0.68M)
FY2016	2016	\$114.79M	\$558.22M	\$11.38M	\$23.92M	\$7.19M	\$10.59M	\$49.37M	\$0.00M	\$15.26M
	Var. to PY	\$8.11M	\$24.89M	(\$7.68M)	\$4.04M	\$0.51M	\$2.33M	(\$5.55M)	\$0.00M	(\$1.31M)
FY2017	2017	\$115.72M	\$578.66M	\$11.94M	\$22.39M	\$7.11M	\$18.70M	\$37.00M	\$7.91M	\$4.87M
	Var. to PY	\$0.93M	\$20.44M	\$0.56M	(\$1.52M)	(\$0.08M)	\$8.11M	(\$12.37M)	\$7.91M	(\$2.48M)
FY2018	2018	\$141.97M	\$613.65M	\$12.38M	\$35.69M	\$7.54M	\$32.72M	\$37.98M	\$4.03M	\$5.76M
	Var. to PY	\$26.25M	\$34.99M	\$0.44M	\$13.29M	\$0.43M	\$14.02M	\$0.98M	(\$3.88M)	(\$7.02M)
Avg (μ)		\$113.08M	\$548.79M	\$14.44M	\$23.71M	\$6.99M	\$13.28M	\$49.70M	\$1.99M	\$12.71M

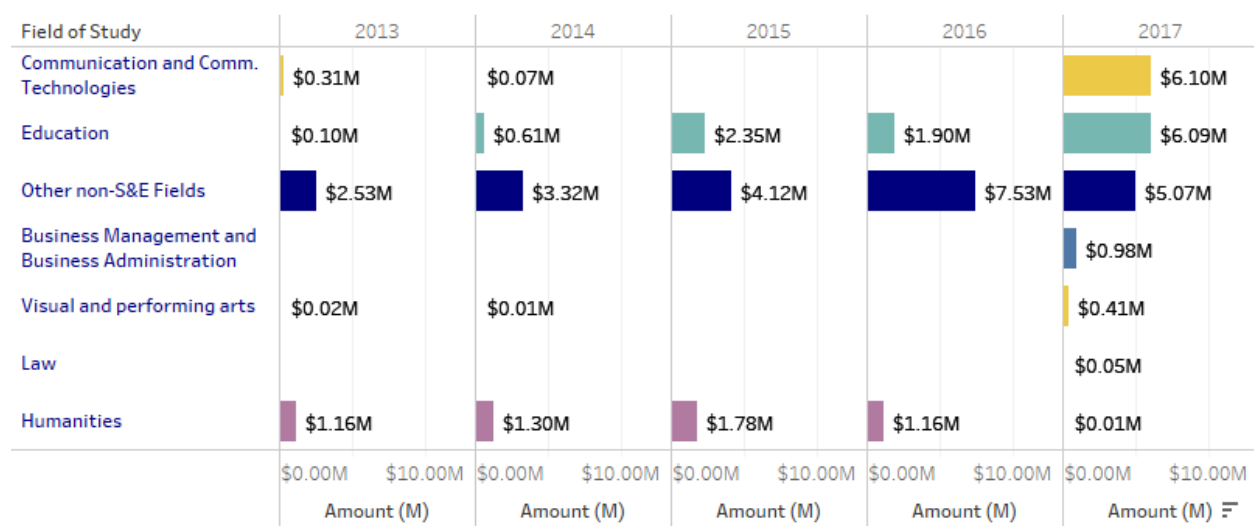


Figure 9: Breakdown of Non-S&E (Science and Engineering) R&D Expenditures by Discipline (FY2013-2017)

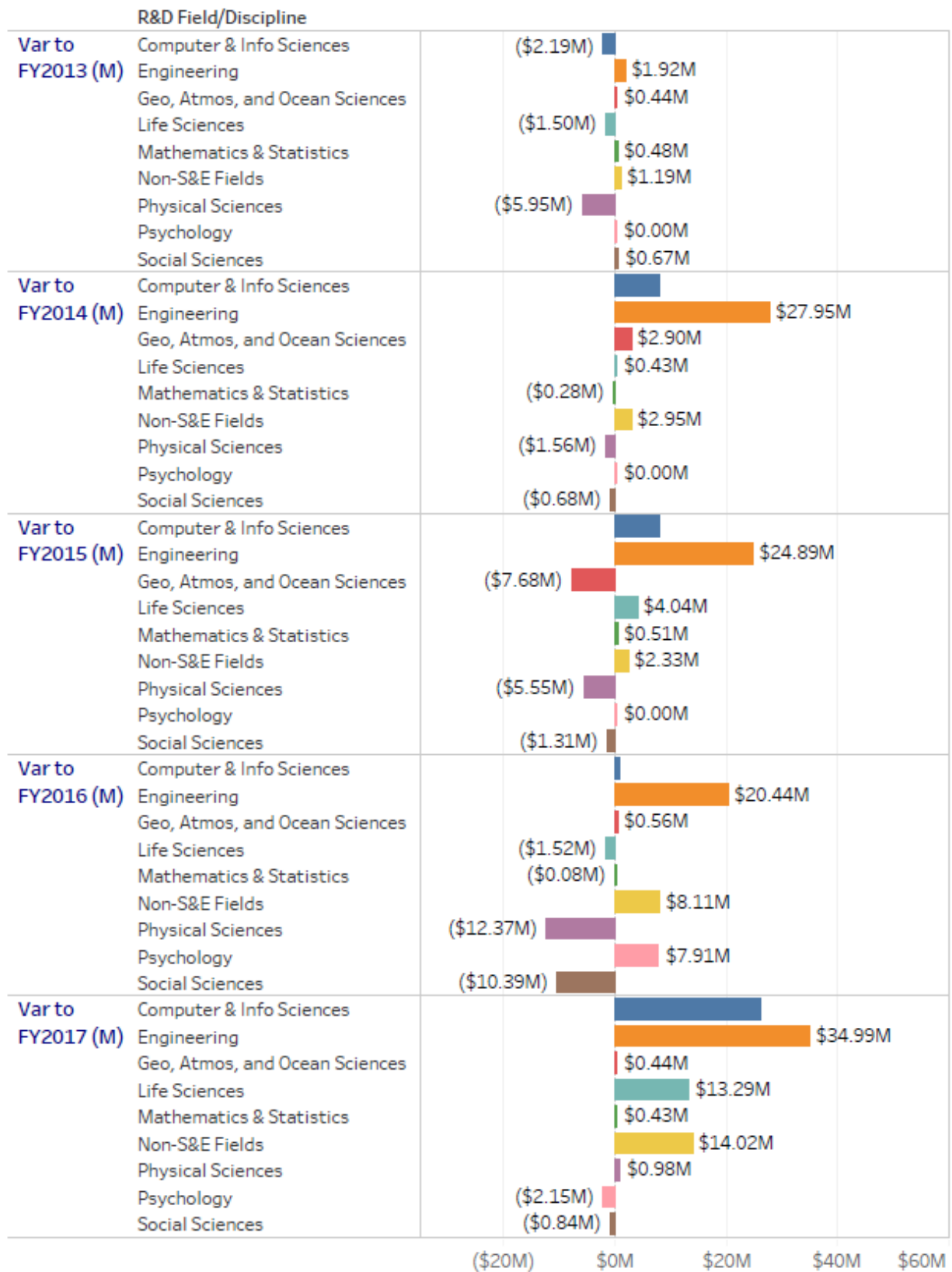


Figure 10: Changes in Georgia Tech's R&D Expenditures by Discipline (FY2013-2018)



## R&D Trends Compared with Georgia Tech's Peer Institutions

- RQ2. *How does Georgia Institute of Technology's Research and Development compare to its national peers in terms of **overall expenditures** for FY2012 – FY2017?*
- RQ3. *How does Georgia Institute of Technology's Research and Development compare to its national peers in terms of **types of funding** for FY2012 – FY2017?*
- RQ4. *How does Georgia Institute of Technology's Research and Development compare to its national peers in terms of **sources of funding** for FY2012 – FY2017?*
- RQ5. *How does Georgia Institute of Technology's Research and Development compare to its national peers in terms of **research disciplines** for FY2012 – FY2017?*

## Overall R&D Expenditures Compared with Peer Institutions

- Among its peers Georgia Tech ranks 24<sup>th</sup> in overall R&D expenditures with an average of \$763.28M for FY2013-2018. However, Georgia Tech's R&D expenditures have continued to increase each fiscal year with the greatest increase in FY2018 at \$891.73M (\$87.43M increase over PY), which is \$128.45M above average (See Figures 9 and 10).
- NSF-R&D data from the FY2018 HERD survey have not been released yet, therefore, FY2018 R&D expenditures among Georgia Tech and its peer institutions cannot be compared at this time.

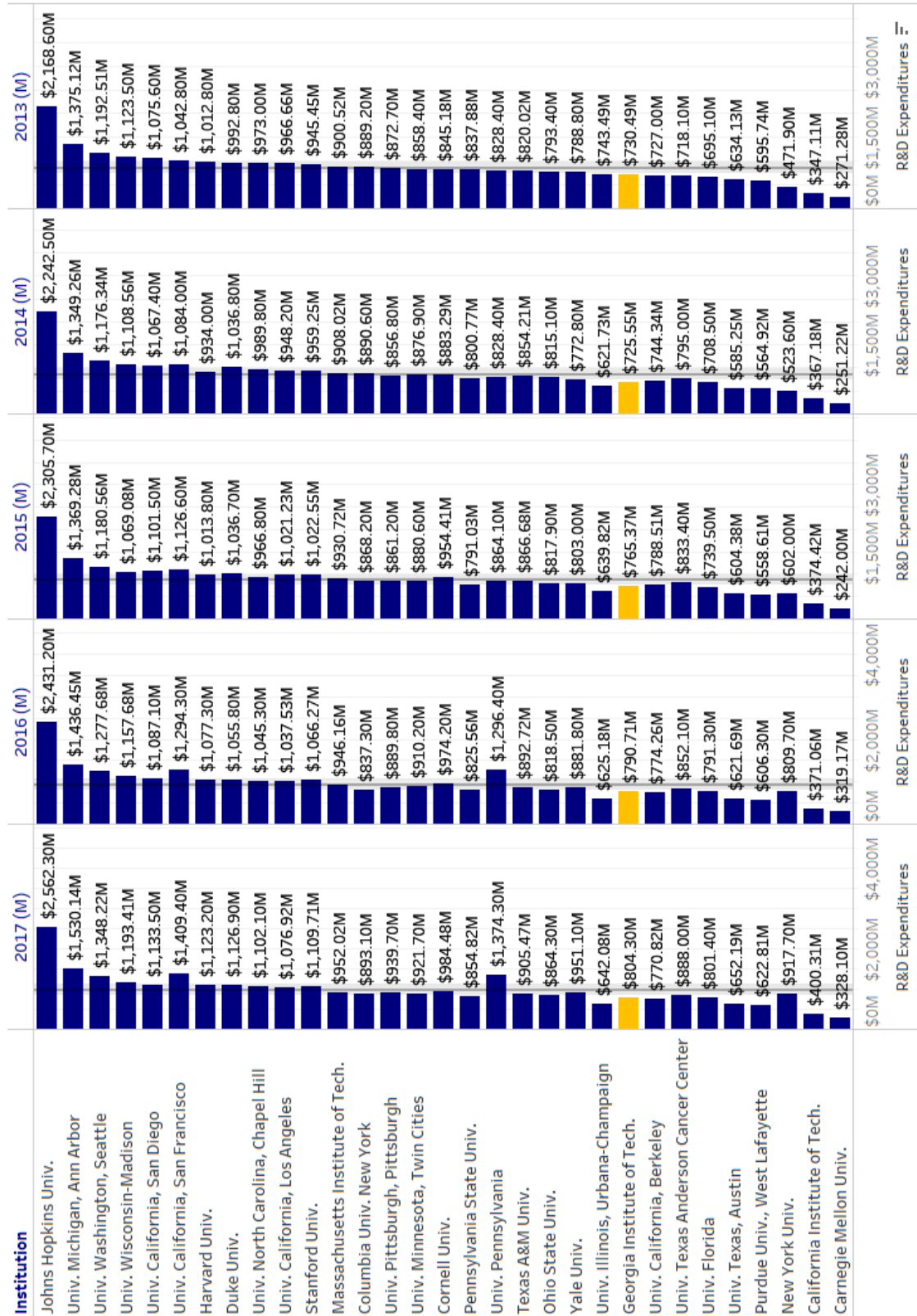


Figure 11: Overall R&D Expenditures among Top Research Institutions (FY2013-2017)

## Types of Funding among Top Research Institutions for FY2017

- For FY2017 Georgia Tech ranked 8<sup>th</sup> in R&D Expenditures funded by the State and Local Government, and 12<sup>th</sup> for U.S. Federal Government, which are also Georgia Tech's largest types of sponsored awards (See Table 4).
- Other types of funding and Georgia Tech's rank among top research institutions include:
  - Business (\$54.3M) – 22<sup>nd</sup>
  - All Other Source(Types) (\$6.0M) – 65<sup>th</sup>
  - Institutional Funds (\$61.0M) – 99<sup>th</sup>
  - Nonprofit Organizations (\$12.4M) – 97<sup>th</sup>

Table 5: Top Research Institutions by R&D Funding Type for FY2017

U.S. Federal Gov. 2017			State and Local Gov. 2017		
		Ranking			Ranking
Johns Hopkins U.	\$2,178.61M	1	U. Texas Anderson Cancer Cente	\$255.96M	1
U. Washington, Seattle	\$952.74M	2	Texas A&M U.	\$207.33M	2
U. Michigan, Ann Arbor	\$829.70M	3	U. Florida	\$142.48M	3
Stanford U.	\$710.70M	4	Purdue U., West Lafayette	\$111.59M	4
U. North Carolina, Chapel Hill	\$676.28M	5	Cornell U.	\$88.96M	7
U. Pennsylvania	\$669.91M	6	<b>Georgia Institute of Tech.</b>	<b>\$85.67M</b>	<b>8</b>
Columbia U., New York	\$647.84M	7	U. Minnesota, Twin Cities	\$71.70M	11
U. California, San Diego	\$641.47M	8	U. Wisconsin-Madison	\$57.53M	14
Duke U.	\$623.57M	9	Ohio State U.	\$56.44M	16
U. Pittsburgh, Pittsburgh	\$617.88M	10	Pennsylvania State U.	\$54.34M	19
U. California, San Francisco	\$606.77M	11	U. California, Berkeley	\$49.87M	23
<b>Georgia Institute of Tech.</b>	<b>\$584.89M</b>	<b>12</b>	U. California, Los Angeles	\$47.10M	24
Harvard U.	\$573.16M	13	U. California, San Diego	\$34.59M	34
U. Wisconsin-Madison	\$570.80M	14	U. California, San Francisco	\$32.95M	37
Yale U.	\$541.61M	15	Stanford U.	\$30.36M	41
Pennsylvania State U.	\$538.16M	16	U. Illinois, Urbana-Champaign	\$30.13M	42
U. California, Los Angeles	\$487.85M	17	U. Washington, Seattle	\$27.95M	45
Massachusetts Institute of Tech	\$487.43M	18	U. Texas, Austin	\$27.37M	46
Ohio State U.	\$464.31M	20	U. North Carolina, Chapel Hill	\$17.81M	66
U. Minnesota, Twin Cities	\$456.44M	21	New York U.	\$17.12M	67
Cornell U.	\$438.18M	25	U. Pennsylvania	\$16.70M	72
U. Texas, Austin	\$396.45M	26	U. Pittsburgh, Pittsburgh	\$9.21M	96
New York U.	\$391.14M	27	Columbia U., New York	\$5.76M	117
U. Illinois, Urbana-Champaign	\$358.91M	33	Johns Hopkins U.	\$5.33M	125
U. California, Berkeley	\$330.34M	37	U. Michigan, Ann Arbor	\$2.70M	177
U. Florida	\$327.29M	38	Carnegie Mellon U.	\$2.36M	191
Texas A&M U.	\$307.66M	42	Harvard U.	\$2.34M	193
California Institute of Tech.	\$277.36M	44	Massachusetts Institute of Tech	\$1.80M	214
Purdue U., West Lafayette	\$245.11M	53	California Institute of Tech.	\$1.68M	218
Carnegie Mellon U.	\$189.97M	66	Yale U.	\$1.48M	231
U. Texas Anderson Cancer Cente	\$166.55M	74	Duke U.	\$0.12M	422

Table 5 (Continued): Top Research Institutions by R&D Funding Type for FY2017

Business 2017			Ranking	Institutional Funds 2017			Ranking
Duke U.	\$234.80M		<b>1</b>	U. Michigan, Ann Arbor	\$537.18M		<b>1</b>
Massachusetts Institute of Tech	\$171.32M		<b>2</b>	U. Pennsylvania	\$445.52M		<b>2</b>
Ohio State U.	\$146.32M		<b>3</b>	U. Wisconsin-Madison	\$394.36M		<b>3</b>
U. Pennsylvania	\$140.20M		<b>4</b>	Harvard U.	\$334.02M		<b>4</b>
U. Texas Anderson Cancer Center	\$127.76M		<b>5</b>	U. California, San Francisco	\$333.96M		<b>5</b>
Stanford U.	\$114.79M		<b>7</b>	U. Minnesota, Twin Cities	\$300.52M		<b>6</b>
U. California, San Francisco	\$96.90M		<b>8</b>	U. North Carolina, Chapel Hill	\$277.95M		<b>7</b>
Johns Hopkins U.	\$84.01M		<b>9</b>	Texas A&M U.	\$264.82M		<b>8</b>
U. Michigan, Ann Arbor	\$82.90M		<b>10</b>	Cornell U.	\$260.89M		<b>9</b>
U. California, San Diego	\$80.80M		<b>11</b>	Yale U.	\$253.06M		<b>11</b>
Yale U.	\$70.26M		<b>12</b>	New York U.	\$248.29M		<b>12</b>
U. California, Berkeley	\$66.12M		<b>13</b>	U. California, Los Angeles	\$246.40M		<b>13</b>
Columbia U., New York	\$62.75M		<b>15</b>	U. Florida	\$221.52M		<b>15</b>
U. California, Los Angeles	\$62.43M		<b>16</b>	U. California, San Diego	\$186.51M		<b>26</b>
U. Texas, Austin	\$60.28M		<b>18</b>	Pennsylvania State U.	\$178.48M		<b>28</b>
<b>Georgia Institute of Tech.</b>	<b>\$54.28M</b>		<b>22</b>	Purdue U., West Lafayette	\$173.48M		<b>30</b>
U. Washington, Seattle	\$53.75M		<b>23</b>	U. Texas Anderson Cancer Center	\$173.16M		<b>31</b>
Cornell U.	\$48.34M		<b>24</b>	U. Illinois, Urbana-Champaign	\$172.72M		<b>32</b>
Purdue U., West Lafayette	\$47.18M		<b>26</b>	U. California, Berkeley	\$168.11M		<b>33</b>
Harvard U.	\$46.99M		<b>27</b>	U. Pittsburgh, Pittsburgh	\$157.37M		<b>35</b>
Texas A&M U.	\$39.93M		<b>33</b>	Duke U.	\$151.24M		<b>36</b>
U. North Carolina, Chapel Hill	\$39.27M		<b>34</b>	Johns Hopkins U.	\$138.01M		<b>38</b>
U. Illinois, Urbana-Champaign	\$37.71M		<b>36</b>	U. Washington, Seattle	\$127.96M		<b>43</b>
Pennsylvania State U.	\$36.76M		<b>38</b>	Ohio State U.	\$127.30M		<b>44</b>
U. Florida	\$36.21M		<b>39</b>	U. Texas, Austin	\$124.04M		<b>47</b>
U. Minnesota, Twin Cities	\$35.70M		<b>40</b>	Stanford U.	\$106.50M		<b>62</b>
New York U.	\$34.05M		<b>42</b>	Massachusetts Institute of Tech	\$101.16M		<b>63</b>
U. Wisconsin-Madison	\$25.68M		<b>50</b>	Carnegie Mellon U.	\$100.56M		<b>64</b>
Carnegie Mellon U.	\$23.59M		<b>52</b>	Columbia U., New York	\$71.31M		<b>88</b>
U. Pittsburgh, Pittsburgh	\$18.67M		<b>63</b>	<b>Georgia Institute of Tech.</b>	<b>\$60.99M</b>		<b>99</b>
California Institute of Tech.	\$12.52M		<b>77</b>	California Institute of Tech.	\$39.62M		<b>131</b>

Table 5 (Continued): Top Research Institutions by R&D Funding Type for FY2017

Nonprofit Org. 2017		Ranking	All Other Sources 2017		Ranking
U. California, San Francisco	\$221.43M	1	New York U.	\$149.17M	1
U. California, Los Angeles	\$162.22M	2	U. Texas Anderson Cancer Center	\$134.13M	2
U. Washington, Seattle	\$153.09M	3	U. California, San Francisco	\$117.39M	3
Harvard U.	\$149.98M	4	U. California, San Diego	\$106.10M	4
Johns Hopkins U.	\$148.98M	5	Massachusetts Institute of Tech.	\$93.03M	6
Stanford U.	\$142.61M	6	U. Pittsburgh, Pittsburgh	\$87.07M	7
Cornell U.	\$116.51M	7	U. California, Los Angeles	\$70.93M	8
U. California, Berkeley	\$106.89M	8	U. California, Berkeley	\$49.48M	11
U. Wisconsin-Madison	\$104.00M	9	U. Wisconsin-Madison	\$41.05M	13
U. Pennsylvania	\$99.16M	10	U. Minnesota, Twin Cities	\$33.29M	15
Duke U.	\$98.20M	11	California Institute of Tech.	\$32.98M	17
Massachusetts Institute of Tech.	\$97.28M	12	U. Washington, Seattle	\$32.74M	18
U. California, San Diego	\$83.99M	13	U. Florida	\$31.66M	19
Columbia U., New York	\$81.55M	14	Cornell U.	\$31.59M	20
Yale U.	\$78.67M	15	Texas A&M U.	\$28.11M	22
New York U.	\$77.97M	16	Ohio State U.	\$26.28M	23
U. North Carolina, Chapel Hill	\$70.19M	20	Columbia U., New York	\$23.86M	24
U. Michigan, Ann Arbor	\$64.65M	22	U. Illinois, Urbana-Champaign	\$22.21M	27
Texas A&M U.	\$57.63M	25	U. North Carolina, Chapel Hill	\$20.55M	28
U. Pittsburgh, Pittsburgh	\$49.50M	29	Duke U.	\$18.99M	31
Pennsylvania State U.	\$46.13M	30	Harvard U.	\$16.67M	33
Ohio State U.	\$43.69M	34	U. Michigan, Ann Arbor	\$13.03M	40
U. Florida	\$42.27M	37	Purdue U., West Lafayette	\$11.27M	42
U. Texas, Austin	\$37.78M	40	Johns Hopkins U.	\$7.39M	56
California Institute of Tech.	\$36.15M	41	U. Texas, Austin	\$6.28M	63
Purdue U., West Lafayette	\$34.19M	45	<b>Georgia Institute of Tech.</b>	<b>\$6.03M</b>	<b>65</b>
U. Texas Anderson Cancer Center	\$30.47M	49	Yale U.	\$6.01M	67
U. Minnesota, Twin Cities	\$24.03M	60	Carnegie Mellon U.	\$5.50M	72
U. Illinois, Urbana-Champaign	\$20.42M	71	Stanford U.	\$4.76M	79
<b>Georgia Institute of Tech.</b>	<b>\$12.45M</b>	<b>97</b>	U. Pennsylvania	\$2.81M	108
Carnegie Mellon U.	\$6.13M	129	Pennsylvania State U.	\$0.94M	162

## Sources of Funding among Top Research Institutions

- For FY2017 Georgia Tech ranked 2<sup>nd</sup> in R&D expenditures funded by the U.S. Department of Defense (DoD), which is also the institution's largest source of federal funds.
- Other sources of funding and Georgia Tech's rank among its peer institutions include:
  - Other (Federal) Sources (\$72.94M) – 5<sup>th</sup>
  - NSF (\$62.59M) – 21<sup>st</sup>
  - NASA (\$12.85M) – 21<sup>st</sup>
  - ENERGY (\$13.96M) – 37<sup>th</sup>
  - Nonfederal (\$219.41M) – 50<sup>th</sup>
  - USDA (\$0.90M) – 106<sup>th</sup>
  - HHS (\$31.55M) – 115<sup>th</sup>

Table 6: Top Research Institutions by R&D Funding Source for FY2017

Dept. of Agriculture (USDA) 2017			Ranking	Dept. of Defense (DoD) 2017			Ranking
Cornell U.	\$35.44M	5	Johns Hopkins U.	\$1,097.14M	1		
U. Florida	\$33.37M	7	<b>Georgia Institute of Tech.</b>	<b>\$390.10M</b>	<b>2</b>		
Pennsylvania State U.	\$32.85M	8	Pennsylvania State U.	\$213.10M	3		
Ohio State U.	\$32.14M	9	U. Texas, Austin	\$139.46M	5		
Texas A&M U.	\$31.43M	11	Massachusetts Institute of Tech.	\$134.22M	6		
U. Minnesota, Twin Cities	\$28.36M	13	U. California, San Diego	\$92.17M	7		
Purdue U., West Lafayette	\$28.10M	14	U. Washington, Seattle	\$91.51M	8		
U. Wisconsin-Madison	\$27.37M	16	Stanford U.	\$85.21M	10		
U. Illinois, Urbana-Champaign	\$19.42M	21	U. Michigan, Ann Arbor	\$80.93M	12		
U. Washington, Seattle	\$14.65M	28	Harvard U.	\$76.39M	13		
U. California, Berkeley	\$4.76M	62	Carnegie Mellon U.	\$62.67M	16		
U. Michigan, Ann Arbor	\$2.76M	76	Duke U.	\$59.60M	17		
U. North Carolina, Chapel Hill	\$1.87M	88	U. Pennsylvania	\$55.37M	19		
Yale U.	\$1.61M	89	U. Illinois, Urbana-Champaign	\$49.46M	20		
Duke U.	\$1.10M	103	U. Pittsburgh, Pittsburgh	\$46.57M	21		
<b>Georgia Institute of Tech.</b>	<b>\$0.90M</b>	<b>106</b>	Columbia U. New York	\$43.57M	24		
Columbia U. New York	\$0.86M	112	Purdue U., West Lafayette	\$40.47M	26		
U. Pennsylvania	\$0.85M	114	U. California, Berkeley	\$38.49M	29		
Johns Hopkins U.	\$0.83M	117	U. California, Los Angeles	\$36.96M	31		
U. California, San Diego	\$0.77M	119	Cornell U.	\$34.49M	32		
California Institute of Tech.	\$0.70M	123	California Institute of Tech.	\$33.05M	35		
Carnegie Mellon U.	\$0.69M	127	Ohio State U.	\$31.14M	39		
U. Texas, Austin	\$0.58M	134	Yale U.	\$28.10M	43		
New York U.	\$0.54M	139	U. Wisconsin-Madison	\$26.67M	46		
Harvard U.	\$0.23M	197	U. Florida	\$26.46M	47		
U. California, Los Angeles	\$0.21M	200	U. Minnesota, Twin Cities	\$23.94M	53		
Stanford U.	\$0.15M	219	U. California, San Francisco	\$21.52M	58		
U. Pittsburgh, Pittsburgh	\$0.14M	223	Texas A&M U.	\$18.92M	65		
U. California, San Francisco	\$0.09M	245	U. North Carolina, Chapel Hill	\$16.50M	74		
Massachusetts Institute of Tech.	--	--	New York U.	\$16.22M	75		
U. Texas Anderson Cancer Center	--	--	U. Texas Anderson Cancer Center	\$4.44M	155		

Table 6 (Continued): Top Research Institutions by R&D Funding Source for FY2017

Dept. of Energy (ENERGY) 2017			Ranking	Dept. Humn. Hlth Serv. (HHS) 2017			Ranking
Massachusetts Institute of Tech.	\$82.57M	2	Johns Hopkins U.	\$626.05M	1		
U. Wisconsin-Madison	\$60.77M	4	U. Washington, Seattle	\$615.07M	2		
U. Illinois, Urbana-Champaign	\$51.06M	6	U. California, San Francisco	\$547.78M	3		
U. Texas, Austin	\$47.75M	7	U. Michigan, Ann Arbor	\$544.66M	4		
U. Michigan, Ann Arbor	\$42.09M	8	U. Pennsylvania	\$543.96M	5		
U. California, Berkeley	\$32.55M	10	U. Pittsburgh, Pittsburgh	\$521.40M	6		
U. Washington, Seattle	\$29.48M	11	U. North Carolina, Chapel Hill	\$499.03M	7		
Pennsylvania State U.	\$27.25M	12	Stanford U.	\$493.26M	8		
Texas A&M U.	\$26.79M	13	Duke U.	\$492.74M	9		
Purdue U., West Lafayette	\$23.92M	14	Yale U.	\$454.65M	10		
Stanford U.	\$23.83M	15	Columbia U. New York	\$444.91M	11		
California Institute of Tech.	\$23.71M	16	Harvard U.	\$407.13M	13		
U. California, Los Angeles	\$23.09M	17	U. California, San Diego	\$399.29M	14		
U. California, San Diego	\$22.28M	19	U. California, Los Angeles	\$335.89M	18		
Ohio State U.	\$21.56M	21	New York U.	\$317.44M	20		
Cornell U.	\$18.75M	24	U. Wisconsin-Madison	\$314.83M	21		
U. Minnesota, Twin Cities	\$17.77M	27	U. Minnesota, Twin Cities	\$288.95M	24		
Harvard U.	\$15.99M	31	Ohio State U.	\$256.27M	27		
Columbia U. New York	\$14.51M	34	Cornell U.	\$217.55M	31		
Duke U.	\$14.46M	35	U. Florida	\$182.40M	42		
<b>Georgia Institute of Tech.</b>	<b>\$13.96M</b>	<b>37</b>	U. Texas Anderson Cancer Center	\$160.86M	46		
U. Florida	\$11.69M	43	Pennsylvania State U.	\$126.63M	51		
Yale U.	\$11.57M	44	U. California, Berkeley	\$116.73M	55		
Carnegie Mellon U.	\$10.98M	47	Massachusetts Institute of Tech.	\$113.43M	58		
U. Pennsylvania	\$9.67M	52	U. Texas, Austin	\$74.42M	75		
Johns Hopkins U.	\$8.91M	57	California Institute of Tech.	\$70.26M	78		
U. Pittsburgh, Pittsburgh	\$8.64M	59	Texas A&M U.	\$63.92M	82		
U. North Carolina, Chapel Hill	\$6.96M	74	U. Illinois, Urbana-Champaign	\$60.89M	85		
New York U.	\$4.65M	91	Purdue U., West Lafayette	\$51.44M	92		
U. California, San Francisco	\$0.34M	212	<b>Georgia Institute of Tech.</b>	<b>\$31.55M</b>	<b>115</b>		
U. Texas Anderson Cancer Center	--	--	Carnegie Mellon U.	\$27.09M	121		

Table 6 (Continued): Top Research Institutions by R&D Funding Source for FY2017

NASA 2017			Ranking	Nat'l Sci Found (NSF) 2017			Ranking
Johns Hopkins U.	\$234.45M	1		U. Illinois, Urbana-Champaign	\$136.24M	1	
California Institute of Tech.	\$54.91M	4		U. Washington, Seattle	\$110.88M	2	
Massachusetts Institute of Tech.	\$42.10M	6		Cornell U.	\$107.09M	3	
U. California, Berkeley	\$41.12M	7		Texas A&M U.	\$105.94M	4	
U. Michigan, Ann Arbor	\$31.48M	9		Columbia U. New York	\$105.69M	5	
U. California, Los Angeles	\$24.29M	10		Massachusetts Institute of Tech.	\$94.31M	6	
Columbia U. New York	\$20.68M	13		U. Texas, Austin	\$93.75M	7	
U. Washington, Seattle	\$19.87M	15		U. Michigan, Ann Arbor	\$90.78M	8	
Stanford U.	\$18.33M	17		California Institute of Tech.	\$88.37M	10	
Pennsylvania State U.	\$15.03M	19		U. California, San Diego	\$87.06M	11	
<b>Georgia Institute of Tech.</b>	<b>\$12.85M</b>	<b>21</b>		U. Wisconsin-Madison	\$84.37M	12	
U. Texas, Austin	\$12.60M	23		Stanford U.	\$76.87M	14	
U. Wisconsin-Madison	\$12.53M	24		U. California, Berkeley	\$75.05M	16	
Cornell U.	\$11.65M	26		Pennsylvania State U.	\$73.01M	17	
Texas A&M U.	\$10.19M	28		U. Minnesota, Twin Cities	\$71.05M	18	
U. Illinois, Urbana-Champaign	\$9.92M	30		Carnegie Mellon U.	\$68.70M	19	
Harvard U.	\$9.56M	32		Purdue U., West Lafayette	\$66.02M	20	
U. California, San Diego	\$9.31M	33		<b>Georgia Institute of Tech.</b>	<b>\$62.59M</b>	<b>21</b>	
U. Minnesota, Twin Cities	\$9.25M	34		U. California, Los Angeles	\$60.91M	23	
Ohio State U.	\$7.29M	39		Harvard U.	\$51.61M	30	
Purdue U., West Lafayette	\$7.18M	41		Ohio State U.	\$50.74M	32	
U. Florida	\$5.32M	47		U. Florida	\$46.57M	34	
U. Pennsylvania	\$5.04M	51		U. Pennsylvania	\$41.97M	38	
Carnegie Mellon U.	\$3.46M	70		U. North Carolina, Chapel Hill	\$38.44M	41	
Yale U.	\$3.35M	77		Duke U.	\$38.02M	43	
Duke U.	\$2.37M	93		Johns Hopkins U.	\$37.94M	44	
U. Pittsburgh, Pittsburgh	\$1.26M	131		New York U.	\$36.95M	46	
New York U.	\$1.01M	146		Yale U.	\$35.03M	50	
U. California, San Francisco	\$0.77M	166		U. Pittsburgh, Pittsburgh	\$25.70M	65	
U. North Carolina, Chapel Hill	\$0.71M	170		U. California, San Francisco	\$6.09M	156	
U. Texas Anderson Cancer Center	\$0.23M	238		U. Texas Anderson Cancer Center	\$1.00M	321	



Table 6 (Continued): Top Research Institutions by R&D Funding Source for FY2017

Nonfederal 2017			Ranking	Other Federal 2017			Ranking
U. California, San Francisco	\$802.63M	1	Johns Hopkins U.	\$173.29M	1		
U. Texas Anderson Cancer Center	\$721.48M	2	U. North Carolina, Chapel Hill	\$112.78M	2		
U. Pennsylvania	\$704.38M	3	<b>Georgia Institute of Tech.</b>	<b>\$72.94M</b>	<b>5</b>		
U. Michigan, Ann Arbor	\$700.44M	4	U. Washington, Seattle	\$71.28M	6		
U. Wisconsin-Madison	\$622.62M	5	Ohio State U.	\$65.18M	7		
Texas A&M U.	\$597.82M	6	Texas A&M U.	\$50.46M	9		
U. California, Los Angeles	\$589.07M	7	Pennsylvania State U.	\$50.29M	10		
Harvard U.	\$550.00M	8	U. Wisconsin-Madison	\$44.27M	15		
Cornell U.	\$546.30M	9	U. Michigan, Ann Arbor	\$37.00M	18		
New York U.	\$526.60M	10	U. Illinois, Urbana-Champaign	\$31.92M	22		
Duke U.	\$503.35M	11	U. California, San Diego	\$30.58M	24		
U. California, San Diego	\$491.99M	12	U. California, San Francisco	\$30.19M	25		
U. Florida	\$474.13M	13	Purdue U., West Lafayette	\$27.99M	28		
U. Minnesota, Twin Cities	\$465.24M	14	U. Texas, Austin	\$27.88M	29		
Massachusetts Institute of Tech.	\$464.58M	15	U. California, Berkeley	\$21.64M	39		
U. California, Berkeley	\$440.48M	16	U. Florida	\$21.48M	40		
U. North Carolina, Chapel Hill	\$425.78M	17	Massachusetts Institute of Tech.	\$20.82M	43		
Yale U.	\$409.48M	18	Columbia U. New York	\$17.62M	53		
Ohio State U.	\$400.02M	19	U. Minnesota, Twin Cities	\$17.13M	56		
Stanford U.	\$399.01M	20	Carnegie Mellon U.	\$16.38M	61		
U. Washington, Seattle	\$395.48M	22	Duke U.	\$15.29M	63		
Johns Hopkins U.	\$383.70M	23	New York U.	\$14.34M	67		
Purdue U., West Lafayette	\$377.70M	24	U. Pittsburgh, Pittsburgh	\$14.18M	68		
U. Pittsburgh, Pittsburgh	\$321.82M	29	Cornell U.	\$13.21M	74		
Pennsylvania State U.	\$316.65M	31	Stanford U.	\$13.05M	76		
U. Illinois, Urbana-Champaign	\$283.18M	38	U. Pennsylvania	\$13.05M	77		
U. Texas, Austin	\$255.74M	45	Harvard U.	\$12.26M	81		
Columbia U. New York	\$245.22M	47	Yale U.	\$7.30M	121		
<b>Georgia Institute of Tech.</b>	<b>\$219.41M</b>	<b>50</b>	U. California, Los Angeles	\$6.50M	129		
Carnegie Mellon U.	\$138.13M	77	California Institute of Tech.	\$6.37M	130		
California Institute of Tech.	\$122.95M	85	U. Texas Anderson Cancer Center	\$0.03M	523		

### Expenditures by Discipline among Top Research Institutions

- For FY2017 Georgia Tech ranked 2<sup>nd</sup> in Engineering expenditures (\$578.66M) and 3<sup>rd</sup> in Computer and Information Sciences expenditures (\$115.72M).
- Below are Georgia Tech's R&D expenditures by discipline, as well as Georgia Tech's ranking amount its peer institutions.
  - Mathematics & Statistics (\$7.11M) – 27th
  - Physical Sciences (\$37.00M) – 35th
  - Psychology (\$7.91M) – 53rd
  - Geo, Atmos, and Ocean Sciences (\$11.94M) – 58th
  - Non-S&E Fields (\$18.70) – 74th
  - Social Sciences (\$4.87M) – 116th
  - Life Sciences (\$22.39M) – 176th

Table 7: Top Research Institutions by R&D Discipline for FY2017

Computer & Information Sciences			Engineering		
		Ranking			Ranking
Johns Hopkins U.	\$154.96M	1	Johns Hopkins U.	\$1,080.02M	1
Carnegie Mellon U.	\$136.93M	2	<b>Georgia Institute of Tech.</b>	<b>\$578.66M</b>	<b>2</b>
<b>Georgia Institute of Tech.</b>	<b>\$115.72M</b>	<b>3</b>	Massachusetts Institute of Tech.	\$432.45M	3
U. Illinois, Urbana-Champaign	\$102.61M	5	Pennsylvania State U.	\$312.34M	4
U. Texas, Austin	\$82.10M	6	Texas A&M U.	\$287.62M	6
Massachusetts Institute of Tech.	\$78.62M	7	U. Michigan, Ann Arbor	\$286.09M	7
Pennsylvania State U.	\$36.68M	9	U. Texas, Austin	\$239.50M	8
Stanford U.	\$29.28M	11	Purdue U., West Lafayette	\$230.68M	9
U. Washington, Seattle	\$29.08M	12	U. Illinois, Urbana-Champaign	\$192.88M	11
U. California, San Diego	\$28.22M	13	U. California, Berkeley	\$189.55M	12
Cornell U.	\$23.22M	18	Ohio State U.	\$178.03M	13
Ohio State U.	\$21.78M	19	U. Wisconsin-Madison	\$148.95M	16
U. Minnesota, Twin Cities	\$21.51M	20	U. Washington, Seattle	\$136.32M	17
Purdue U., West Lafayette	\$21.38M	21	Stanford U.	\$125.63M	20
New York U.	\$20.89M	23	U. California, San Diego	\$125.03M	21
Columbia U. in the City of New York	\$20.48M	24	U. Minnesota, Twin Cities	\$123.84M	22
U. Wisconsin-Madison	\$20.16M	25	Harvard U.	\$105.23M	26
U. Pennsylvania	\$20.15M	26	Carnegie Mellon U.	\$98.78M	27
Texas A&M U.	\$19.01M	27	U. Florida	\$97.83M	28
U. North Carolina, Chapel Hill	\$14.47M	35	Cornell U.	\$85.16M	32
U. California, Los Angeles	\$13.66M	37	Duke U.	\$80.55M	35
Harvard U.	\$13.53M	38	U. California, Los Angeles	\$80.15M	36
U. Florida	\$12.61M	40	New York U.	\$79.80M	37
Yale U.	\$11.38M	47	Columbia U. in the City of New York	\$68.00M	43
U. Michigan, Ann Arbor	\$10.72M	50	U. Pennsylvania	\$64.28M	45
U. California, Berkeley	\$10.34M	53	California Institute of Tech.	\$61.77M	51
California Institute of Tech.	\$9.58M	56	U. Pittsburgh, Pittsburgh	\$43.80M	73
U. Pittsburgh, Pittsburgh	\$9.03M	62	Yale U.	\$30.91M	98
Duke U.	\$5.61M	84	U. North Carolina, Chapel Hill	\$29.93M	101
Univ. Texas Anderson Cancer Center	--	--	Univ. Texas Anderson Cancer Center	--	--
Univ. California, San Francisco	--	--	Univ. California, San Francisco	--	--

Table 7 (Continued): Top Research Institutions by R&D Discipline for FY2017

Mathematics & Statistics			Ranking	Non-S&E Fields		Ranking
Johns Hopkins U.	\$59.51M	<b>1</b>	U. Pennsylvania	\$126.61M	<b>1</b>	
U. Texas M. D. Anderson Cancer Cer	\$23.33M	<b>2</b>	U. Michigan, Ann Arbor	\$95.60M	<b>2</b>	
Harvard U.	\$20.68M	<b>4</b>	New York U.	\$95.42M	<b>3</b>	
U. Michigan, Ann Arbor	\$20.52M	<b>5</b>	Harvard U.	\$90.57M	<b>4</b>	
Pennsylvania State U.	\$16.45M	<b>7</b>	U. Wisconsin-Madison	\$88.15M	<b>5</b>	
U. Texas, Austin	\$11.70M	<b>10</b>	Purdue U., West Lafayette	\$86.60M	<b>6</b>	
Carnegie Mellon U.	\$11.32M	<b>11</b>	U. Washington, Seattle	\$77.58M	<b>8</b>	
U. California, Los Angeles	\$10.57M	<b>12</b>	Massachusetts Institute of Tech.	\$73.05M	<b>9</b>	
New York U.	\$9.95M	<b>15</b>	Ohio State U.	\$59.63M	<b>14</b>	
Duke U.	\$9.31M	<b>17</b>	Stanford U.	\$54.29M	<b>16</b>	
Texas A&M U.	\$8.88M	<b>20</b>	U. Texas, Austin	\$53.59M	<b>17</b>	
Massachusetts Institute of Tech.	\$7.67M	<b>22</b>	U. California, Berkeley	\$46.01M	<b>25</b>	
U. Minnesota, Twin Cities	\$7.46M	<b>24</b>	Columbia U. in the City of New York	\$44.33M	<b>26</b>	
U. Pennsylvania	\$7.37M	<b>26</b>	U. North Carolina, Chapel Hill	\$40.53M	<b>28</b>	
<b>Georgia Institute of Tech.</b>	<b>\$7.11M</b>	<b>27</b>	U. Minnesota, Twin Cities	\$40.40M	<b>29</b>	
Ohio State U.	\$6.58M	<b>29</b>	U. Illinois, Urbana-Champaign	\$39.44M	<b>30</b>	
U. Washington, Seattle	\$6.42M	<b>30</b>	U. California, Los Angeles	\$39.14M	<b>31</b>	
U. California, Berkeley	\$6.40M	<b>31</b>	Texas A&M U.	\$36.37M	<b>35</b>	
Stanford U.	\$6.11M	<b>32</b>	U. Florida	\$34.95M	<b>37</b>	
U. Wisconsin-Madison	\$5.98M	<b>33</b>	Pennsylvania State U.	\$28.13M	<b>48</b>	
Purdue U., West Lafayette	\$5.67M	<b>37</b>	Cornell U.	\$21.31M	<b>64</b>	
U. Illinois, Urbana-Champaign	\$5.39M	<b>38</b>	Yale U.	\$20.52M	<b>65</b>	
U. California, San Diego	\$5.33M	<b>39</b>	California Institute of Tech.	\$19.60M	<b>70</b>	
Columbia U. in the City of New York	\$4.60M	<b>41</b>	<b>Georgia Institute of Tech.</b>	<b>\$18.70M</b>	<b>74</b>	
U. North Carolina, Chapel Hill	\$4.37M	<b>43</b>	Carnegie Mellon U.	\$14.96M	<b>81</b>	
U. Pittsburgh, Pittsburgh	\$3.32M	<b>54</b>	Duke U.	\$13.00M	<b>92</b>	
Cornell U.	\$2.80M	<b>61</b>	U. Pittsburgh, Pittsburgh	\$9.51M	<b>115</b>	
Yale U.	\$2.38M	<b>69</b>	U. California, San Diego	\$7.19M	<b>136</b>	
California Institute of Tech.	\$1.64M	<b>89</b>	Johns Hopkins U.	\$5.67M	<b>157</b>	
U. Florida	\$1.20M	<b>113</b>	Univ. Texas Anderson Cancer Center	--	--	
Univ. California, San Francisco	--	--	Univ. California, San Francisco	--	--	

Table 7 (Continued): Top Research Institutions by R&D Discipline for FY2017

Geo, Atmos, and Ocean Sciences			Ranking	Life Sciences			Ranking
U. California, San Diego	\$186.83M	<b>1</b>	U. California, San Francisco	\$1,346.38M	<b>1</b>		
U. Washington, Seattle	\$118.76M	<b>5</b>	U. Pennsylvania	\$1,022.47M	<b>2</b>		
Texas A&M U.	\$115.18M	<b>6</b>	Johns Hopkins U.	\$954.19M	<b>3</b>		
Columbia U. in the City of New York	\$84.75M	<b>8</b>	Duke U.	\$950.25M	<b>4</b>		
U. Texas, Austin	\$64.05M	<b>10</b>	U. Washington, Seattle	\$891.56M	<b>5</b>		
U. Wisconsin-Madison	\$52.11M	<b>13</b>	U. Michigan, Ann Arbor	\$826.51M	<b>6</b>		
Massachusetts Institute of Tech.	\$47.80M	<b>17</b>	U. Texas M. D. Anderson Cancer Cente	\$825.10M	<b>7</b>		
Pennsylvania State U.	\$44.38M	<b>21</b>	U. North Carolina, Chapel Hill	\$798.65M	<b>8</b>		
Harvard U.	\$37.41M	<b>22</b>	Yale U.	\$796.67M	<b>9</b>		
Johns Hopkins U.	\$35.62M	<b>23</b>	U. Pittsburgh, Pittsburgh	\$789.05M	<b>10</b>		
U. California, Los Angeles	\$35.27M	<b>24</b>	U. California, Los Angeles	\$761.82M	<b>11</b>		
California Institute of Tech.	\$33.14M	<b>26</b>	Stanford U.	\$745.12M	<b>12</b>		
U. North Carolina, Chapel Hill	\$19.99M	<b>43</b>	U. Wisconsin-Madison	\$707.67M	<b>13</b>		
Stanford U.	\$16.08M	<b>46</b>	Cornell U.	\$678.25M	<b>14</b>		
U. Florida	\$15.35M	<b>49</b>	U. California, San Diego	\$667.48M	<b>16</b>		
U. Michigan, Ann Arbor	\$14.45M	<b>50</b>	New York U.	\$633.75M	<b>17</b>		
U. Minnesota, Twin Cities	\$14.20M	<b>51</b>	Harvard U.	\$633.46M	<b>18</b>		
U. Pittsburgh, Pittsburgh	\$13.12M	<b>54</b>	Columbia U. in the City of New York	\$608.05M	<b>20</b>		
<b>Georgia Institute of Tech.</b>	<b>\$11.94M</b>	<b>58</b>	U. Minnesota, Twin Cities	\$607.86M	<b>21</b>		
Duke U.	\$11.05M	<b>62</b>	U. Florida	\$589.76M	<b>23</b>		
U. California, Berkeley	\$9.78M	<b>68</b>	Ohio State U.	\$503.65M	<b>28</b>		
Ohio State U.	\$9.09M	<b>71</b>	Texas A&M U.	\$349.57M	<b>39</b>		
Yale U.	\$6.45M	<b>86</b>	Pennsylvania State U.	\$260.63M	<b>57</b>		
Purdue U., West Lafayette	\$6.38M	<b>88</b>	U. California, Berkeley	\$224.60M	<b>63</b>		
U. Illinois, Urbana-Champaign	\$6.30M	<b>89</b>	Purdue U., West Lafayette	\$214.76M	<b>64</b>		
Cornell U.	\$5.15M	<b>103</b>	U. Illinois, Urbana-Champaign	\$199.92M	<b>68</b>		
U. Pennsylvania	\$1.94M	<b>163</b>	Massachusetts Institute of Tech.	\$129.74M	<b>95</b>		
Carnegie Mellon U.	\$1.23M	<b>190</b>	U. Texas, Austin	\$94.33M	<b>109</b>		
New York U.	\$0.47M	<b>257</b>	California Institute of Tech.	\$77.96M	<b>115</b>		
Univ. Texas Anderson Cancer Center	--	--	<b>Georgia Institute of Tech.</b>	<b>\$22.39M</b>	<b>176</b>		
Univ. California, San Francisco	--	--	Carnegie Mellon U.	\$13.13M	<b>208</b>		

Table 7 (Continued): Top Research Institutions by R&D Discipline for FY2017

Physical Sciences			Ranking	Social Sciences		Ranking
California Institute of Tech.	\$192.48M	<b>1</b>	U. Michigan, Ann Arbor	\$191.30M	<b>1</b>	
Johns Hopkins U.	\$189.42M	<b>3</b>	Harvard U.	\$124.97M	<b>2</b>	
U. California, Berkeley	\$143.10M	<b>4</b>	U. North Carolina, Chapel Hill	\$108.18M	<b>3</b>	
Massachusetts Institute of Tech.	\$127.86M	<b>5</b>	U. California, Berkeley	\$52.88M	<b>6</b>	
Cornell U.	\$112.26M	<b>7</b>	U. Pennsylvania	\$48.58M	<b>7</b>	
Stanford U.	\$92.06M	<b>9</b>	Cornell U.	\$44.77M	<b>8</b>	
Pennsylvania State U.	\$87.18M	<b>11</b>	U. Wisconsin-Madison	\$43.32M	<b>9</b>	
Harvard U.	\$84.68M	<b>12</b>	Pennsylvania State U.	\$41.31M	<b>10</b>	
U. Texas, Austin	\$76.29M	<b>13</b>	U. California, Los Angeles	\$41.19M	<b>11</b>	
U. Wisconsin-Madison	\$71.28M	<b>16</b>	U. Minnesota, Twin Cities	\$35.82M	<b>14</b>	
U. California, San Diego	\$67.38M	<b>18</b>	Duke U.	\$32.38M	<b>19</b>	
U. Illinois, Urbana-Champaign	\$65.58M	<b>19</b>	Massachusetts Institute of Tech.	\$32.08M	<b>20</b>	
U. California, San Francisco	\$63.02M	<b>21</b>	New York U.	\$31.21M	<b>22</b>	
Yale U.	\$61.51M	<b>22</b>	Texas A&M U.	\$26.01M	<b>25</b>	
U. Michigan, Ann Arbor	\$60.44M	<b>23</b>	Stanford U.	\$23.32M	<b>28</b>	
U. California, Los Angeles	\$57.00M	<b>25</b>	U. Washington, Seattle	\$21.85M	<b>31</b>	
U. Washington, Seattle	\$56.29M	<b>26</b>	U. Texas, Austin	\$18.83M	<b>36</b>	
Texas A&M U.	\$54.02M	<b>28</b>	U. California, San Diego	\$16.27M	<b>44</b>	
Columbia U. in the City of New York	\$46.45M	<b>29</b>	Carnegie Mellon U.	\$13.89M	<b>48</b>	
U. Pennsylvania	\$46.24M	<b>30</b>	U. Florida	\$13.49M	<b>49</b>	
U. Minnesota, Twin Cities	\$38.75M	<b>33</b>	Purdue U., West Lafayette	\$13.30M	<b>51</b>	
Ohio State U.	\$37.52M	<b>34</b>	Ohio State U.	\$12.78M	<b>53</b>	
<b>Georgia Institute of Tech.</b>	<b>\$37.00M</b>	<b>35</b>	Columbia U. in the City of New York	\$12.76M	<b>54</b>	
Purdue U., West Lafayette	\$34.51M	<b>39</b>	Johns Hopkins U.	\$10.37M	<b>66</b>	
U. North Carolina, Chapel Hill	\$33.81M	<b>40</b>	Yale U.	\$9.05M	<b>74</b>	
U. Pittsburgh, Pittsburgh	\$32.55M	<b>43</b>	U. Texas M. D. Anderson Cancer Cer	\$8.64M	<b>79</b>	
U. Florida	\$28.06M	<b>49</b>	U. Illinois, Urbana-Champaign	\$8.34M	<b>81</b>	
New York U.	\$20.63M	<b>64</b>	U. Pittsburgh, Pittsburgh	\$5.13M	<b>108</b>	
Carnegie Mellon U.	\$18.92M	<b>67</b>	<b>Georgia Institute of Tech.</b>	<b>\$4.87M</b>	<b>116</b>	
Duke U.	\$17.99M	<b>72</b>	Univ. California, San Francisco	--	--	
U. Texas M. D. Anderson Cancer Cer	\$12.76M	<b>99</b>	California Institute of Tech.	--	--	

Table 7 (Continued): Top Research Institutions by R&D Discipline for FY2017

Other Sciences			Ranking	Psychology			Ranking
U. California, Berkeley	\$74.15M	1	U. North Carolina, Chapel Hill	\$52.05M	1		
Johns Hopkins U.	\$68.80M	2	U. Minnesota, Twin Cities	\$31.84M	2		
U. Wisconsin-Madison	\$45.89M	4	Pennsylvania State U.	\$27.18M	3		
Ohio State U.	\$27.81M	5	New York U.	\$25.64M	4		
Massachusetts Institute of Tech.	\$20.84M	8	U. Michigan, Ann Arbor	\$21.64M	6		
U. California, Los Angeles	\$20.66M	9	U. Pennsylvania	\$21.40M	7		
U. Pennsylvania	\$15.26M	17	U. Pittsburgh, Pittsburgh	\$21.22M	8		
U. Pittsburgh, Pittsburgh	\$12.98M	19	U. Texas M. D. Anderson Cancer Cente	\$18.19M	14		
U. California, San Diego	\$11.90M	22	U. California, San Diego	\$17.84M	16		
Carnegie Mellon U.	\$9.59M	26	Stanford U.	\$17.83M	17		
U. Illinois, Urbana-Champaign	\$5.46M	47	U. California, Los Angeles	\$17.45M	19		
Texas A&M U.	\$5.31M	48	U. Illinois, Urbana-Champaign	\$16.17M	20		
California Institute of Tech.	\$4.09M	58	U. California, Berkeley	\$14.02M	24		
Harvard U.	\$3.92M	60	Yale U.	\$12.12M	29		
Purdue U., West Lafayette	\$3.40M	66	Cornell U.	\$11.56M	32		
U. Michigan, Ann Arbor	\$2.88M	73	U. Washington, Seattle	\$10.30M	38		
U. Texas, Austin	\$2.01M	81	U. Wisconsin-Madison	\$9.90M	41		
Pennsylvania State U.	\$0.54M	134	U. Texas, Austin	\$9.78M	42		
Yale U.	\$0.11M	209	Carnegie Mellon U.	\$9.36M	44		
U. Florida	\$0.09M	222	Harvard U.	\$8.71M	47		
U. North Carolina, Chapel Hill	\$0.09M	226	U. Florida	\$8.08M	52		
U. Washington, Seattle	\$0.07M	235	<b>Georgia Institute of Tech.</b>	<b>\$7.91M</b>	<b>53</b>		
Columbia U. New York	--	--	Ohio State U.	\$7.46M	56		
Cornell U.	--	--	Duke U.	\$6.78M	59		
Duke U.	--	--	Purdue U., West Lafayette	\$6.14M	62		
<b>Georgia Institute of Tech.</b>	--	--	Johns Hopkins U.	\$3.75M	95		
New York U.	--	--	Columbia U. in the City of New York	\$3.65M	98		
Stanford U.	--	--	Texas A&M U.	\$3.51M	102		
U. California, San Francisco	--	--	Massachusetts Institute of Tech.	\$1.91M	134		
U. Minnesota, Twin Cities	--	--	California Institute of Tech.	\$0.05M	372		
U. Texas Anderson Cancer Center	--	--	Univ. California, San Francisco	--	--		

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