

Table 21. Higher education R&D expenditures, ranked by all R&D expenditures, by source of funds: FY 2017
(Dollars in thousands)

Rank	Institution	All R&D expenditures	Source of funds					
			Federal government	State and local government	Institution funds	Business	Nonprofit organizations	All other sources
	All institutions	75,174,941	40,237,645	4,236,505	18,884,298	4,425,450	5,116,863	2,274,180
1	Johns Hopkins U. ^a	2,562,307	2,178,605	5,326	138,010	84,005	148,975	7,386
2	U. Michigan, Ann Arbor	1,530,139	829,695	2,698	537,176	82,898	64,646	13,026
3	U. California, San Francisco	1,409,398	606,768	32,952	333,955	96,903	221,430	117,390
4	U. Pennsylvania	1,374,293	669,911	16,697	445,519	140,197	99,155	2,814
5	U. Washington, Seattle	1,348,220	952,738	27,951	127,960	53,751	153,085	32,735
6	U. Wisconsin-Madison	1,193,413	570,796	57,525	394,364	25,683	103,996	41,049
7	U. California, San Diego	1,133,454	641,469	34,590	186,507	80,802	83,986	106,100
8	Duke U.	1,126,924	623,573	117	151,240	234,802	98,200	18,992
9	Harvard U.	1,123,160	573,157	2,336	334,024	46,993	149,979	16,671
10	Stanford U.	1,109,708	710,698	30,356	106,501	114,788	142,609	4,756
11	U. North Carolina, Chapel Hill	1,102,063	676,282	17,810	277,954	39,273	70,194	20,550
47	North Carolina State U.	500,445	218,274	102,200	120,027	56,418	2,939	587

i = imputed. NA = not available; data were not provided by institution.

^a Johns Hopkins University includes the Applied Physics Laboratory, with \$1,472,103 thousand in total R&D expenditures in FY 2017.

NOTES: Ranked institutions are geographically separate campuses headed by a campus-level president or chancellor. Some campuses are part of large, multi-campus universities; some are part of state university systems.

SOURCE: National Science Foundation, National Center for Science and Engineering Statistics, Higher Education Research and Development Survey, FY 2017.