







TABLE 67

## Higher education R&amp;D expenditures, by state, institutional control, and institution: FYs 2010–19

(Dollars in thousands)

State, institutional control, and institution	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019
Colorado C.	671	1,198	1,248	1,229	1,823	2,247	1,775	2,215	2,560	2,233
U. Denver	15,748	17,004	15,237	19,262	18,183	16,116	21,326	22,289	27,270	36,551
Connecticut										
Public										
Central Connecticut State U.	776	1,451	1,506	1,574	1,185	1,259	1,322	995	ne	1,381
Eastern Connecticut State U.	ne	216	ne	ne	1,459	1,149	1,209	1,228	1,100	1,659
Southern Connecticut State U.	3,840	4,083	3,526	2,012	5,465	5,482	3,243	2,493	2,763	4,627
U. Connecticut	237,908	253,792	256,854	242,251	258,056	259,397	265,522	267,647	269,685	285,764
Private										
Connecticut C.	1,532	1,801	1,740	1,842	1,966	1,900	1,972	1,875	1,349	1,894
Fairfield U.	9,294	9,892	9,331	8,769	9,155	5,750	6,174	8,749	1,742	1,279
Trinity C., Hartford	1,875	1,934	2,102	1,786	2,131	1,717	1,598	2,856	1,672	1,858
U. Hartford	1,137	2,419	2,007	1,807	1,606	1,701	1,803	1,801	1,073	1,528
U. New Haven	ne	2,009	2,723	1,400	1,616	1,832	3,822	5,005	5,585	5,062
Wesleyan U.	8,397	10,367	8,945	8,120	7,262	7,223	7,740	8,945	10,662	9,958
Yale U.	623,510	656,967	656,555	788,784	772,840	803,004	881,765	951,084	990,399	1,072,309
Delaware										
Public										
Delaware State U.	15,200	19,019	15,668	17,295	17,679	15,980	21,320	20,793	21,377	23,017
U. Delaware	153,311	169,746	170,174	179,967	175,563	175,724	176,295	183,428	186,192	206,270
District of Columbia										
Public										
National Defense U.	ne	ne	ne	5,865	7,682	5,542	6,447	6,293	4,276	4,231
U. of the District of Columbia	5,012	4,422	4,030	3,073	2,361	2,043	3,469	3,733	2,960	4,800
Private										
American U.	39,747	46,611	43,526	61,087	63,628	58,325	57,064	56,034	61,741	71,053
Catholic U. of America	21,454	25,397	24,971	23,235	22,331	24,265	25,139	24,282	25,497	24,484
Gallaudet U.	7,652	7,161	6,765	6,769	5,655	4,477	6,947	7,603	7,617	5,382
George Washington U.	196,917	197,621	196,448	202,428	227,995	241,117	231,829	245,519	260,656	269,799
Georgetown U.	159,355	169,916	180,308	178,995	172,726	176,131	183,788	212,319	221,449	240,960
Howard U.	40,080	42,341	45,486	42,789	40,771	47,322	41,038	45,768	45,965	44,163
Florida										
Public										
Florida A&M U.	53,474	53,326	52,263	51,149	46,367	46,522	45,390	37,578	39,682	42,470
Florida Atlantic U.	56,472	62,024	65,377	23,967	22,997	21,214	26,750	46,025	48,024	51,085
Florida Gulf Coast U.	13,906	17,051	14,393	14,204	9,626	8,992	7,335	6,025	5,115	5,907
Florida International U.	110,271	110,006	118,058	128,070	132,531	163,033	170,846	177,292	196,180	225,864

TABLE 67

## Higher education R&amp;D expenditures, by state, institutional control, and institution: FYs 2010–19

(Dollars in thousands)

State, institutional control, and institution	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019
Florida Polytechnic U.	na	na	na	na	na	212	ne	ne	ne	2,006
Florida State U.	227,329	230,411	225,378	250,877	252,548	256,449	268,288	282,901	297,661	329,205
U. Central Florida	117,985	109,190	116,891	126,681	185,555	215,519	198,211	200,387	215,332	225,085
U. Florida	681,548	739,931	696,985	695,063	708,526	739,522	791,294	801,418	865,093	928,639
U. North Florida	8,041	9,379	7,031	4,480	3,674	3,689	5,141	6,476	9,994	12,341
U. South Florida, Saint Petersburg	4,425	3,978	5,488	6,905	6,908	7,292	7,116	8,661	8,478	11,686
U. South Florida, Sarasota-Manatee	732	914	ne	ne	1,026	1,595	1,827	1,883	1,934	1,872
U. South Florida, Tampa	385,029	394,963	443,206	459,409	488,641	485,354	505,965	557,889	385,686	391,325
U. West Florida	17,757	21,710	16,221	19,332	19,579	31,232	40,815	35,054	41,035	41,977
Private										
Bethune-Cookman U.	ne	ne	ne	ne	ne	ne	ne	ne	1,137	735
Embry-Riddle Aeronautical U.	12,189	16,289	19,376	16,484	15,393	11,942	16,761	13,335	16,767	12,478
Florida Institute of Technology	12,054	14,523	17,100	13,298	14,255	14,282	18,860	18,180	17,378	17,876
Nova Southeastern U.	10,116	12,322	12,908	12,712	13,716	14,775	19,559	22,508	23,296	24,567
U. Miami	280,671	323,486	365,301	344,757	345,805	331,036	358,441	367,877	357,104	360,716
Georgia										
Public										
Albany State U.	740	1,416	2,225	1,658	1,549	1,356	1,496	1,393	1,301	1,491
Augusta U.	na	na	na	64,033	64,118	67,737	71,338	99,661	99,081	96,502
Fort Valley State U.	5,310	3,850	3,665	3,688	4,547	4,320	5,138	5,374	3,916	4,563
Georgia Institute of Technology	615,833	655,375	688,905	730,488	725,550	765,370	790,706	804,301	891,728	960,167
Georgia Southern U.	3,704	3,912	5,719	18,069	20,245	17,152	17,395	16,084	12,978	11,166
Georgia State U.	81,015	92,725	91,148	111,999	123,915	139,596	161,314	200,171	201,235	195,572
Kennesaw State U.	1,854	1,961	3,511	5,062	2,192	4,762	8,279	9,510	11,214	30,381
Savannah State U.	1,874	2,700	1,996	2,613	2,210	1,801	2,267	1,407	1,793	1,720
U. Georgia	295,339	335,901	351,395	350,225	355,471	374,264	410,345	455,432	453,249	477,536
U. North Georgia	ne	ne	ne	ne	ne	ne	ne	2,064	2,465	2,068
Private										
Clark Atlanta U.	8,515	8,245	10,406	9,159	9,192	9,945	8,513	8,007	7,833	9,048
Emory U.	529,453	547,316	565,766	575,943	558,600	585,210	614,527	664,888	712,417	794,928
Mercer U.	27,298	29,039	31,376	28,892	30,209	32,838	31,735	29,447	34,197	44,128
Morehouse C.	7,857	8,485	9,113	9,581	7,349	6,180	4,315	3,667	4,531	4,564
Morehouse School of Medicine	30,669	33,946	37,586	36,638	41,858	33,367	38,774	36,925	33,215	31,289
Spelman C.	3,181	2,273	2,148	1,602	1,595	1,524	1,929	2,079	2,350	2,751
Hawaii										
Public										
U. Hawaii, Hilo	14,857	9,934	22,003	16,009	9,323	14,495	11,287	7,008	7,133	6,864

TABLE 67

## Higher education R&amp;D expenditures, by state, institutional control, and institution: FYs 2010–19

(Dollars in thousands)

State, institutional control, and institution	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019
U. Hawaii, Manoa	303,085	318,316	312,311	326,750	324,342	316,497	304,476	292,021	276,388	280,416
U. Hawaii, system office	ne	ne	ne	ne	ne	ne	ne	ne	12,340	12,159
Private										
Hawaii Pacific U.	ne	1,436	1,390	1,043	1,524	1,241	2,371	2,175	2,114	1,980
Idaho										
Public										
Boise State U.	18,731	24,204	27,920	25,690	26,568	31,341	32,085	34,992	41,382	39,824
Idaho State U.	20,495	21,450	21,179	22,147	20,610	17,866	20,447	18,564	18,081	14,972
U. Idaho	87,207	96,229	97,227	95,891	95,594	97,493	102,457	109,537	111,590	113,107
Illinois										
Public										
Chicago State U.	1,598	2,014	565	ne	ne	ne	910	ne	1,154	898
Illinois State U.	18,417	17,833	17,760	17,589	19,159	18,742	20,408	20,080	21,055	27,082
Northeastern Illinois U.	711	533	ne	ne	703	ne	ne	1,403	2,442	2,478
Northern Illinois U.	27,036	21,748	21,823	23,027	16,427	17,722	21,225	19,150	23,280	26,570
Southern Illinois U., Carbondale	69,924	71,130	71,097	70,854	65,256	57,509	53,172	48,416	49,636	41,729
Southern Illinois U., Edwardsville	31,781	33,736	26,992	25,807	18,915	19,051	18,780	17,393	18,420	18,088
U. Illinois, Chicago	362,939	380,828	388,625	367,848	347,888	354,560	337,296	372,619	361,690	382,949
U. Illinois, Springfield	2,096	2,002	2,370	2,276	1,916	2,070	1,683	2,900	2,164	1,876
U. Illinois, Urbana-Champaign	515,133	545,669	583,754	743,487	621,733	639,817	625,180	642,084	652,709	677,523
Western Illinois U.	1,221	1,528	4,514	1,983	1,349	860	ne	2,006	2,466	2,373
Private										
Bradley U.	1,151	1,910	2,392	2,860	1,514	1,499	2,122	1,839	1,274	1,357
DePaul U.	4,889	5,798	5,706	5,524	6,415	9,479	9,558	8,561	7,079	6,144
Erikson Institute	ne	1,212	2,511	2,001	1,321	2,397	3,117	3,965	3,583	2,279
Illinois Institute of Technology	36,554	44,463	32,576	36,722	31,356	34,336	29,826	32,659	33,280	34,334
Loyola U., Chicago	43,903	42,708	45,903	51,676	50,774	48,664	42,672	39,738	39,332	39,223
Midwestern U.	3,626	4,022	5,200	6,292	7,310	8,560	7,732	9,207	10,173	10,343
Northwestern U.	575,078	618,980	631,078	639,781	645,333	656,167	713,491	751,809	805,672	857,069
Rosalind Franklin U. of Medicine and Science	12,426	14,261	15,587	17,401	17,794	16,604	16,760	17,006	16,765	16,126
Rush U.	73,398	79,212	80,300	81,770	80,551	79,048	73,351	74,062	89,101	96,267
Toyota Technological Institute, Chicago	ne	746	ne	ne	ne	2,543	2,710	2,880	3,251	3,681
U. Chicago	437,721	453,562	419,631	402,621	390,082	412,536	420,997	433,328	423,993	459,171
Wheaton C., Wheaton	ne	1,187	844	ne	1,302	783	ne	1,270	1,751	2,173
Indiana										
Public										
Ball State U.	20,477	18,765	11,740	10,357	9,209	10,548	11,763	8,797	11,163	12,145









TABLE 67

## Higher education R&amp;D expenditures, by state, institutional control, and institution: FYs 2010–19

(Dollars in thousands)

State, institutional control, and institution	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019
Public										
Central Michigan U.	7,483	8,671	10,907	12,879	15,015	12,880	14,166	14,652	15,616	17,102
Eastern Michigan U.	14,133	11,643	12,437	3,128	1,428	1,761	3,815	6,281	6,600	7,175
Grand Valley State U.	5,044	6,429	7,814	9,202	8,198	7,453	6,764	6,917	6,968	6,592
Michigan State U.	431,373	454,248	507,061	515,707	526,906	558,248	613,369	694,917	715,290	725,708
Michigan Technological U.	63,471	70,089	71,989	70,689	68,526	69,607	72,536	71,629	78,678	80,443
Northern Michigan U.	910	841	ne	ne	ne	ne	1,118	1,339	1,728	1,520
Oakland U.	12,856	15,868	18,194	16,767	15,196	17,108	16,001	14,561	13,817	18,002
Saginaw Valley State U.	873	1,249	1,094	939	ne	1,220	1,190	1,406	1,640	2,818
U. Michigan, Ann Arbor	1,184,445	1,279,123	1,322,711	1,375,117	1,349,262	1,369,278	1,436,448	1,530,139	1,600,869	1,675,805
U. Michigan, Dearborn	6,779	7,554	6,015	6,846	8,176	7,802	7,904	8,315	8,094	8,813
U. Michigan, Flint	693	767	ne	ne	ne	ne	ne	1,466	1,237	1,448
Wayne State U.	254,492	259,895	227,070	224,331	218,435	213,878	221,537	227,728	238,859	244,217
Western Michigan U. and Homer Stryker M.D. School of Medicine	26,391	25,051	21,073	18,979	18,942	19,679	18,927	22,372	21,184	25,071
Private										
Albion C.	ne	799	ne	ne	ne	ne	ne	1,074	1,055	1,040
Andrews U.	1,195	854	ne	ne	ne	ne	ne	ne	ne	1,126
Calvin U.	5,010	3,113	3,252	3,466	3,051	2,430	1,809	1,456	1,937	1,577
Hope C.	3,596	4,185	3,376	3,559	3,016	2,932	2,811	3,225	3,179	2,745
Kettering U.	6,880	5,087	4,059	3,449	3,517	3,673	3,463	4,233	2,531	1,765
Lawrence Technological U.	3,952	3,348	1,483	2,022	1,876	2,528	1,907	1,942	1,668	1,352
U. Detroit Mercy	1,148	1,462	970	ne	1,320	1,882	3,654	2,748	4,605	5,210
Van Andel Research Institute	ne	ne	ne	ne	ne	40,502	40,040	44,578	55,171	61,738
Minnesota										
Public										
Minnesota State U., Mankato	3,837	2,654	2,082	2,640	3,310	2,294	4,034	2,471	2,943	3,392
St. Cloud State U.	4,184	3,404	2,932	2,912	3,380	4,192	3,497	3,588	3,725	3,275
U. Minnesota, Duluth	21,150	23,400	21,530	21,383	21,904	27,550	27,528	24,956	25,189	27,530
U. Minnesota, Morris	672	899	ne	1,534	1,338	1,223	1,029	974	ne	1,234
U. Minnesota, Twin Cities	786,074	847,419	826,173	858,378	876,870	880,618	910,181	921,681	954,683	1,013,112
Private										
Augsburg U.	ne	1,179	1,144	915	ne	1,193	1,189	1,141	1,051	991
C. of Saint Benedict	ne	867	ne	1,347	1,451	1,179	1,305	1,122	1,142	1,126
Carleton C.	4,575	5,382	4,957	5,848	5,657	6,746	6,385	6,888	5,515	4,388
Macalester C.	4,389	4,653	1,721	1,457	1,455	1,286	1,562	1,916	1,404	1,808
Saint John's U., Collegeville	640	891	ne	1,444	1,623	1,372	1,459	1,267	1,208	1,191

TABLE 67

## Higher education R&amp;D expenditures, by state, institutional control, and institution: FYs 2010–19

(Dollars in thousands)

State, institutional control, and institution	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019
St. Olaf C.	1,574	1,130	1,518	1,242	1,353	1,346	1,605	1,539	1,155	1,010
U. of St. Thomas (MN)	1,330	1,316	1,030	1,424	916	ne	1,266	1,241	1,645	1,870
Mississippi										
Public										
Alcorn State U.	10,280	11,397	11,515	11,315	10,060	9,396	8,204	16,129	13,834	14,435
Jackson State U.	44,862	49,998	46,943	36,264	26,609	23,908	23,832	22,790	19,465	18,160
Mississippi State U.	231,675	226,070	233,197	206,424	209,729	226,359	239,446	240,972	244,102	264,526
U. Mississippi	110,020	122,765	121,731	108,168	109,922	94,040	121,665	134,542	137,521	158,809
U. Southern Mississippi	42,059	46,591	60,079	51,962	51,938	51,840	59,363	61,659	61,336	76,464
Private										
Tougaloo C.	2,978	2,753	2,613	2,639	2,285	2,689	2,473	3,030	3,173	3,380
Missouri										
Public										
Lincoln U., Jefferson City	8,475	8,518	7,899	6,585	6,742	6,296	5,826	5,164	4,215	4,581
Missouri State U.	7,770	5,584	4,340	3,882	3,782	3,540	3,069	3,215	4,409	5,910
Missouri U. of Science and Technology	42,263	41,581	38,588	40,397	39,065	35,842	35,756	38,243	42,986	41,939
U. Missouri, Columbia	238,500	230,957	239,810	236,423	237,266	246,684	248,300	253,952	256,183	278,793
U. Missouri, Kansas City	30,163	32,769	29,227	28,829	29,164	26,595	26,292	25,123	25,136	26,708
U. Missouri, Saint Louis	14,628	18,461	19,356	20,869	18,618	12,061	13,460	12,042	12,266	13,697
Private										
A. T. Still U.	1,253	1,925	3,247	4,569	5,892	4,571	2,873	782	ne	644
Saint Louis U.	46,839	53,179	49,086	48,231	44,481	44,457	42,151	56,402	60,380	66,103
Washington U., Saint Louis	695,974	725,039	706,410	684,847	664,752	694,069	741,115	754,462	816,139	887,088
Montana										
Public										
Montana State U., Bozeman	135,084	125,966	124,228	113,136	113,348	108,414	112,073	129,622	125,129	154,811
Montana Technological U.	7,424	6,705	11,765	11,059	11,348	11,595	11,851	13,059	12,666	12,731
U. Montana, Missoula	63,540	60,159	59,313	60,189	55,032	60,485	70,059	85,044	90,563	104,665
Private										
Salish Kootenai C.	880	1,153	1,415	1,612	1,399	1,186	1,142	1,481	1,741	1,252
Nebraska										
Public										
U. Nebraska, central administration	ne	ne	ne	ne	ne	ne	ne	ne	13,352	18,860
U. Nebraska, Kearney	1,655	2,199	1,715	1,761	1,504	1,496	1,864	3,510	2,639	2,919
U. Nebraska, Lincoln	224,135	235,296	253,321	266,507	278,299	284,438	294,856	302,204	308,053	316,820
U. Nebraska, Medical Center	138,219	133,036	141,619	137,485	139,126	145,009	150,694	171,491	177,245	194,455
U. Nebraska, Omaha	8,951	9,509	8,376	9,181	9,222	9,422	10,459	12,061	12,943	14,302

TABLE 67

## Higher education R&amp;D expenditures, by state, institutional control, and institution: FYs 2010–19

(Dollars in thousands)

State, institutional control, and institution	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019
Private										
Creighton U.	27,700	31,443	32,594	29,983	25,560	23,825	23,510	24,315	20,587	24,039
Doane U.	ne	1,022	678	ne	1,033	474	ne	ne	1,092	1,093
Nevada										
Public										
Desert Research Institute	34,367	35,331	33,056	27,695	23,778	22,103	29,422	29,440	27,875	26,991
U. Nevada, Las Vegas	44,457	39,526	34,543	35,935	39,448	42,000	62,825	66,285	83,800	99,445
U. Nevada, Reno	95,423	89,740	85,726	89,797	87,324	90,138	95,475	105,869	144,426	152,128
Private										
Roseman U. of Health Sciences	ne	840	ne	ne	3,021	3,287	3,433	4,167	3,973	3,916
New Hampshire										
Public										
Keene State C.	ne	2,290	2,338	i	2,387	2,601	966	ne	908	ne
U. New Hampshire	115,562	143,002	165,156	147,446	147,544	144,735	145,015	145,375	146,430	148,980
Private										
Dartmouth C. and Dartmouth Hitchcock Medical Center	194,141	210,631	195,930	201,591	212,606	209,646	233,636	308,445	323,927	342,142
New Jersey										
Public										
Montclair State U.	2,255	3,621	5,123	4,568	4,266	4,274	5,207	5,796	7,980	10,225
New Jersey City U.	188	ne	ne	ne	ne	ne	ne	5,442	8,211	5,961
New Jersey Institute of Technology	92,318	100,491	102,851	107,310	106,081	110,512	130,812	142,164	162,349	161,232
Rowan U.	2,987	3,247	3,783	3,407	8,202	8,044	10,212	12,856	16,247	22,892
Rutgers, State U. New Jersey, Camden	3,574	5,079	3,810	5,722	4,919	5,123	4,250	5,103	3,264	3,211
Rutgers, State U. New Jersey, New Brunswick	428,432	432,306	434,901	493,320	644,116	628,613	630,212	681,719	706,282	657,249
Rutgers, State U. New Jersey, Newark	27,745	35,774	34,797	37,134	28,083	24,387	21,492	25,898	27,206	26,661
Stockton U.	ne	1,455	927	ne	1,374	1,452	807	ne	2,560	2,634
William Paterson U.	1,051	1,452	ne	ne	ne	ne	1,919	3,012	9,456	10,122
Private										
Monmouth U.	2,195	1,956	904	ne	865	ne	900	ne	ne	1,294
Princeton U.	242,570	263,335	275,666	269,908	293,274	279,851	307,653	334,125	365,007	385,739
Rider U.	1,671	1,672	1,890	1,648	1,793	1,726	1,617	1,565	1,363	228
Seton Hall U.	4,003	7,701	6,398	6,489	6,675	7,058	7,244	7,272	6,536	7,056
Stevens Institute of Technology	35,544	41,622	31,929	28,908	30,826	34,082	35,765	35,144	33,060	36,695
New Mexico										
Public										
New Mexico Institute of Mining and Technology	51,696	43,857	37,875	32,499	48,338	26,265	19,598	20,491	21,383	24,616

TABLE 67

## Higher education R&amp;D expenditures, by state, institutional control, and institution: FYs 2010–19

(Dollars in thousands)

State, institutional control, and institution	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019
New Mexico State U.	157,872	139,062	141,151	142,365	134,262	132,377	106,282	102,218	96,270	101,457
U. New Mexico	211,771	220,565	220,360	227,703	228,849	232,271	239,550	246,597	251,322	239,696
New York										
Public										
CUNY, Advanced Science Research Center	na	na	na	na	na	569	ne	3,541	5,666	8,310
CUNY, Baruch C.	2,616	2,645	3,605	2,264	2,183	2,451	2,998	2,543	2,817	2,387
CUNY, Brooklyn C.	6,846	9,306	9,216	8,064	9,407	9,091	9,602	7,393	6,600	7,064 i
CUNY, C. Staten Island	3,290	4,188	4,955	3,691	3,731	3,060	3,511	4,250	4,118 i	3,986
CUNY, City C.	46,699	60,648	57,982	55,138	52,654	53,223	62,484	54,627	53,979	52,738
CUNY, Graduate Center	11,562	11,974	9,173	11,982	7,797	6,175	7,093 i	8,011	4,781	5,399
CUNY, Graduate School of Public Health and Health Policy	na	na	na	na	na	na	na	na	9,751	9,521
CUNY, Hunter C.	38,900	39,772	41,022	40,059	38,879	36,368	37,094	31,273	33,702	37,478
CUNY, John Jay C. of Criminal Justice	5,916	6,205	9,319	7,355	8,633	8,689	9,688	11,934	14,310	12,295
CUNY, Lehman C.	3,593 i	3,762	3,228	2,904	3,265	3,130	5,347	4,979	5,556	4,690
CUNY, Medgar Evers C.	658	2,065	1,635	1,241	1,083	970	ne	2,046	2,062	1,397
CUNY, New York City C. of Technology	231	343	ne	ne	ne	ne	ne	ne	2,418	2,711
CUNY, Queens C.	16,845	23,219	22,399	19,762	23,434	19,092	19,168	15,936	16,676	18,391
CUNY, system office	ne	ne	1,817	1,210	1,088	1,782	1,655	1,114	3,253	2,619
CUNY, York C.	ne	2,180	1,544	999	ne	716	ne	ne	ne	1,621
SUNY, Binghamton U.	72,057	72,539	81,000	76,005	71,382	79,895	85,192	98,089	113,851	104,297
SUNY, Buffalo State	1,935	2,539	2,970	2,106	1,996	2,366	2,221	1,887	1,928	2,124
SUNY, C. Brockport	831	1,248	1,487	1,321	1,192	1,367	1,335	1,289	1,293	1,390
SUNY, C. of Environmental Science and Forestry	26,916	25,024 i	23,132 i	21,239	19,027	22,051	24,504	27,923	26,610	29,137
SUNY, C. of Optometry	3,529	3,738	3,466	3,637	3,481	3,906	4,169	3,304	3,120	2,968
SUNY, C. Plattsburgh	1,664	1,098	913	ne	1,008	1,135	1,020	1,003	1,604	1,729
SUNY, Downstate Medical Center	32,512	41,993	43,257	39,354	33,331	28,652	33,735	31,873	34,661	36,015
SUNY, Geneseo	1,373	2,677	2,132	1,201	1,084	1,314	1,750	1,758	1,939	2,139
SUNY, Oswego	783	977	ne	725	ne	ne	ne	1,658	1,982	1,781
SUNY, Polytechnic Institute	na	na	na	na	412,851	295,313	316,680	308,861	257,358	352,889
SUNY, Stony Brook U.	204,728	211,356	219,744	225,712	211,631	220,580	230,621	238,612	245,016	260,813
SUNY, U. Albany	359,364	148,625	137,758	137,759	130,955	111,705	120,232	156,386	173,031	181,531
SUNY, U. Buffalo	349,670	353,172	360,226	387,863	386,562	382,935	389,569	401,591	410,220	413,817
SUNY, Upstate Medical U.	43,824	39,988	35,897	34,286	33,460	32,453	31,892	35,551	36,674	38,091
U.S. Military Academy	22,171	13,799	12,227	11,630	14,819	15,312	13,500	13,617	13,582	10,765
Private										
Albany C. of Pharmacy and Health Sciences	3,074	3,496	2,639	2,637	3,200	2,533	1,789	2,567	2,732	3,383



TABLE 67

## Higher education R&amp;D expenditures, by state, institutional control, and institution: FYs 2010–19

(Dollars in thousands)

State, institutional control, and institution	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019
Public										
Appalachian State U.	2,898	3,835	4,438	3,051	4,289	3,878	3,146	4,475	3,631	3,268
East Carolina U.	23,995	28,114	31,990	38,271	29,925	26,549	25,273	26,117	39,074	55,611
Fayetteville State U.	11,865	14,618	15,719	16,698	14,732	13,746	15,725	5,105	4,980	4,695
North Carolina Agricultural and Technical State U.	35,297	34,930	35,103	33,994	35,047	35,172	33,759	37,379	38,140	37,339
North Carolina Central U.	6,870	9,496	11,076	8,979	11,537	12,448	12,463	14,119	14,942	16,227
North Carolina State U.	360,795	378,154	404,225	417,468	446,112	468,293	489,918	500,445	509,841	541,100
U. North Carolina, Asheville	2,671	3,157	3,068	2,647	2,150	2,384	3,348	2,863	3,414	4,602
U. North Carolina, Chapel Hill	755,284	869,174	884,791	973,007	989,766	966,781	1,045,338	1,102,063	1,136,158	1,153,773
U. North Carolina, Charlotte	31,814	27,533	25,141	24,764	23,342	24,870	27,815	26,097	39,888	47,187
U. North Carolina, general administration	ne	ne	ne	ne	ne	4,197	4,137	3,721	4,843	4,154
U. North Carolina, Greensboro	22,436	26,121	19,080	16,590	20,723	23,026	23,965	23,231	22,743	26,325
U. North Carolina, Wilmington	23,143	22,593	19,722	18,145	14,648	15,564	15,715	16,015	16,955	17,515
Western Carolina U.	2,376	1,451	1,811	1,028	1,048	1,145	1,305	1,474	1,507	2,633
Winston-Salem State U.	ne	1,179	1,977	841	ne	ne	1,356	1,575	1,629	2,011
Private										
Davidson C.	1,493	1,977	1,400	2,337	1,804	2,377	1,521	1,736	1,638	1,777
Duke U.	983,289	1,022,207	1,009,911	992,821	1,036,813	1,036,698	1,055,778	1,126,924	1,167,611	1,226,517
Elon U.	ne	1,523	1,658	2,043	2,184	2,608	2,606	2,407	2,486	2,545
Johnson C. Smith U.	ne	ne	ne	ne	ne	ne	2,094	2,255	2,468	2,148
Wake Forest U.	192,034	209,134	204,328	182,721	176,380	171,926	170,006	182,227	191,371	238,933
North Dakota										
Public										
North Dakota State U.	126,419	134,064	135,493	150,173	154,437	153,542	156,297	153,119	145,669	152,381
U. North Dakota	76,560	74,882	80,149	68,942	67,595	64,384	70,275	102,823	109,865	110,836
Ohio										
Public										
Air Force Institute of Technology	31,259	31,879	32,746	27,592	23,902	26,866	29,998	35,733	33,360	34,016
Bowling Green State U.	8,124	8,999	8,566	13,157	8,861	7,995	14,460	14,333	17,991	17,026
Central State U.	3,233	3,821	3,591	2,771	2,025	1,508	1,643	2,008	3,615	3,766
Cleveland State U.	34,235	55,502	61,111	67,378	61,783	57,662	77,720	83,762	83,641	80,077
Kent State U.	26,331	27,455	26,507	23,149	25,666	38,069	34,661	42,003	42,792	47,188
Miami U.	26,521	26,093	26,311	23,924	21,216	16,108	16,057	17,239	19,658	22,380
Northeast Ohio Medical U.	10,819	13,581	13,358	12,722	15,916	17,103	18,823	19,216	18,231	18,016
Ohio State U.	755,194	832,126	766,513	793,373	815,075	817,881	818,464	864,327	875,014	929,250
Ohio U.	50,440	57,643	57,203	59,734	60,800	61,078	59,117	61,092	53,303	53,735
U. Akron	52,884	60,352	66,413	69,640	69,528	58,512	58,817	41,326	32,582	30,020







TABLE 67

## Higher education R&amp;D expenditures, by state, institutional control, and institution: FYs 2010–19

(Dollars in thousands)

State, institutional control, and institution	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019
Brown U.	335,838	344,090	365,120	361,010	341,531	342,040	347,016	212,290	244,838	256,954
Providence C.	917	758	ne	983	ne	1,329	1,196	1,014	1,215	1,042
Rhode Island School of Design	ne	551	ne	ne	ne	1,013	1,071 i	1,086 i	1,042 i	1,027 i
Roger Williams U.	1,967	2,627	2,596	2,186	2,558	2,348	2,441	2,952	1,937	1,852
South Carolina										
Public										
C. Charleston	14,218	8,320	9,579	10,224	10,034	10,607	10,189	8,927	7,375	7,610
Clemson U.	174,693	166,350	142,096	152,444	161,070	171,215	183,965	193,268	213,458	218,760
Coastal Carolina U.	2,404	2,162	2,412	2,516	2,166	1,862	1,779	1,893	1,631	2,042
Medical U. South Carolina	224,632	213,346	236,586	245,451	242,594	243,534	260,098	262,267	282,253	295,600
South Carolina State U.	7,167	10,037 i	12,909	12,809 i	12,709 i	12,607	13,076 i	14,300	15,130 i	3,659
U. South Carolina, Aiken	337	750	ne	1,309	1,133	1,154	1,445	2,961	2,602	2,481
U. South Carolina, Columbia	229,145	201,592	214,901	203,365	206,173	208,736	209,271	208,670	206,355	205,940
Winthrop U.	ne	5,089	7,993	12,495	13,981	10,156	1,993	1,826	2,007	2,189
Private										
Benedict C.	1,533	3,009	2,754	2,664	2,479	1,373	1,653	1,676	1,934	1,269
Claffin U.	3,252	5,439	5,255	2,661	1,818	1,255	1,772	1,360	1,509	1,746
Furman U.	2,311	2,184	2,049	2,199	1,600	1,928	1,869	2,051	2,064	1,628
South Dakota										
Public										
Black Hills State U.	2,883	1,643	2,466	3,061	2,380	2,430	2,833	2,109	1,571	2,031
Dakota State U.	ne	1,015	5,709	1,574	1,446	1,152	2,171	2,284	3,619	3,710
South Dakota School of Mines and Technology	28,572	32,070	19,140	12,156	10,524	14,970	15,396	15,541	15,092	12,973
South Dakota State U.	67,552	69,680	68,743	63,843	58,334	58,373	60,677	63,412	63,465	66,794
U. South Dakota	30,616	28,959	31,982	33,187	30,700	25,661	25,864	28,358	30,943	32,028
Private										
Augustana U.	912	1,578	1,160	1,045	1,106	782	ne	1,212	1,170	841
Tennessee										
Public										
Austin Peay State U.	ne	2,180	2,124	2,067	2,002	2,113	1,823	2,134	2,644	2,285
East Tennessee State U.	9,869	10,249	11,213	8,919	7,836	6,930	7,982	9,493	14,043	14,197
Middle Tennessee State U.	4,793	4,969	7,108	5,718	4,334	4,350	6,164	4,714	7,132	7,673
Tennessee State U.	12,432	13,468	15,439	16,177	20,068	19,955	19,520	18,108	17,681	15,236
Tennessee Technological U.	16,754	13,247	10,233	9,715	10,097	11,082	11,528	12,079	12,765	13,801
U. Memphis	49,517	48,321	51,194	48,141	55,566	46,675	48,321	49,695	64,297	58,700
U. Tennessee, Chattanooga	10,749	9,251	10,896	7,844	6,239	6,817	5,600	6,352	7,585	9,280
U. Tennessee, Health Science Center	81,904	81,220	77,754	71,902	67,841	65,771	71,547	73,393	79,460	96,979

TABLE 67

## Higher education R&amp;D expenditures, by state, institutional control, and institution: FYs 2010–19

(Dollars in thousands)

State, institutional control, and institution	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019
U. Tennessee, Knoxville	150,671	167,456	179,252	193,054	179,041	173,533	183,268	203,800	259,607	247,693
U. Tennessee, Knoxville, Institute of Agriculture	59,212	62,786	68,480	67,887	67,171	67,059	69,136	70,192	70,305	71,396
Private										
Fisk U.	7,700	4,849	4,058	6,565	9,073	9,854	10,635	5,017	2,790	4,748
Meharry Medical C.	27,001	29,055	25,559	22,532	18,997	13,998	14,768	16,782	16,980	18,286
Vanderbilt U. and Vanderbilt U. Medical Center	504,959	566,031	560,466	571,603	683,890	647,816	640,842	712,036	738,620	776,937
Texas										
Public										
Lamar U.	5,829	4,762	3,589	2,605	2,447	2,824	2,783	3,883	3,595	4,848
Prairie View A&M U.	12,565	15,243	14,552	13,198	12,292	13,123	12,616	13,982	17,278	18,018
Sam Houston State U.	7,555	5,816	4,349	4,608	3,996	3,086	3,266	3,658	7,152	9,445
Stephen F. Austin State U.	9,127	6,046	5,495	4,612	4,298	5,170	4,749	3,677	3,336	3,679
Sul Ross State U.	3,039	3,183	2,375	2,159	2,528	2,204	2,015	2,500	2,934	2,352
Tarleton State U.	10,763	10,426	9,393	9,722	10,996	9,825	9,404	10,893	12,503	13,171
Texas A&M International U.	2,428	3,121	3,344	3,674	3,441	2,917	3,742	4,745	5,735	6,068
Texas A&M U., College Station and Health Science Center	689,624	705,720	693,421	820,015	854,214	866,678	892,718	905,474	922,178	952,156
Texas A&M U.-Central Texas	ne	ne	ne	ne	ne	ne	ne	ne	1,122	428
Texas A&M U.-Commerce	2,679	2,242	2,279	2,541	2,833	3,755	2,943	4,227	3,431	3,403
Texas A&M U.-Corpus Christi	17,266	17,509	15,776	17,418	21,321	24,507	24,786	27,993	30,253	32,944
Texas A&M U.-Kingsville	17,378	17,114	17,419	18,653	21,819	20,894	21,309	22,633	21,150	22,268
Texas Southern U.	7,003	6,318	6,380	6,548	6,038	5,005	4,495	4,722	3,740	4,893
Texas State U.	30,560	33,487	36,664	37,053	39,265	47,694	54,298	60,741	64,322	64,554
Texas Tech U.	133,360	149,399	138,026	142,676	159,308	163,897	172,521	191,482	185,742	193,923
Texas Tech U., Health Sciences Center	51,282	58,774	61,219	61,412	38,015	40,438	40,235	39,767	37,819	44,072
Texas Tech U., Health Sciences Center, El Paso	ne	ne	ne	ne	23,282	18,889	17,391	16,479	12,556	11,883
Texas Woman's U.	2,271	2,919	4,129	2,704	2,650	2,310	3,014	4,073	4,822	4,477
U. Houston	119,811	113,709	116,288	130,844	140,597	150,628	162,049	169,431	177,484	195,398
U. Houston-Clear Lake	1,279	1,746	1,769	1,542	1,716	1,535	1,578	1,779	1,251	1,370
U. Houston-Downtown	1,013	1,351	2,267	1,444	2,414	2,459	1,784	2,397	2,508	2,216
U. North Texas, Denton	31,496	42,475	46,943	49,518	44,180	43,628	37,106	43,789	44,025	78,691
U. North Texas, Health Science Center	38,862	45,943	46,865	44,904	47,002	46,335	50,567	48,476	49,503	50,124
U. Texas Health Science Center, Houston	240,772	261,172	236,250	233,256	233,737	234,299	237,016	246,060	258,411	271,525
U. Texas Health Science Center, San Antonio	207,115	198,655	184,298	175,983	172,716	170,277	194,885	169,200	179,219	188,483
U. Texas Health Science Center, Tyler	ne	ne	ne	ne	ne	12,191	11,799	16,292	15,451	16,538
U. Texas M. D. Anderson Cancer Center	599,529	663,279	685,814	718,096	794,980	833,406	852,095	888,029	929,710	969,496
U. Texas Medical Branch	188,399	193,555	180,888	180,198	178,014	173,506	179,541	185,106	181,831	175,372

TABLE 67

## Higher education R&amp;D expenditures, by state, institutional control, and institution: FYs 2010–19

(Dollars in thousands)

State, institutional control, and institution	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019
U. Texas Rio Grande Valley	na	na	na	na	na	na	31,007	29,500	27,125	52,016
U. Texas Southwestern Medical Center	419,220	431,883	435,085	440,620	434,627	438,824	442,666	461,797	474,260	496,697
U. Texas, Arlington	71,414	72,483	78,556	86,735	89,175	77,798	87,386	97,197	105,688	123,207
U. Texas, Austin	589,502	632,171	621,538	634,132	585,251	604,376	621,692	652,187	679,781	696,111
U. Texas, Dallas	82,044	93,230	90,700	98,842	99,727	98,551	106,205	113,205	113,315	126,661
U. Texas, El Paso	68,870	74,069	79,649	83,249	79,537	89,418	91,330	94,565	91,032	106,809
U. Texas, San Antonio	56,279	58,667	57,233	53,626	47,061	54,949	59,831	70,163	72,682	84,326
U. Texas, Tyler	5,679	2,766	8,520	5,317	6,894	4,610	2,844	1,837	1,828	2,063
West Texas A&M U.	7,346	5,847	6,937	5,510	5,407	4,513	4,048	4,943	4,797	5,437
Private										
Baylor C. of Medicine	447,874	466,061	474,700	508,799	496,314	520,220	572,527	604,952	623,396	651,920
Baylor U.	10,925	12,343	10,161	13,616	20,729	24,642	26,767	29,400	31,936	33,304
Rice U.	97,903	110,235	117,223	131,003	138,536	144,679	154,543	167,277	161,831	182,564
Southern Methodist U.	18,742	24,453	24,397	22,544	32,401	29,282	31,819	29,879	31,140	42,562
St. Edward's U.	ne	7,160	5,906	8,040	3,975	9,515	9,325	10,149	10,431	9,650
Texas Christian U.	5,306	5,595	7,775	8,574	7,872	8,007	6,589	7,255	5,808	6,552
Trinity U.	1,446	1,355	1,611	3,094	2,992	2,633	2,383	3,274	3,244	3,736
U. of the Incarnate Word	ne	667	ne	ne	ne	848	ne	ne	1,338	1,800
Utah										
Public										
U. Utah	379,200	414,316	430,056	494,058	486,140	518,928	350,212	380,295	552,306	601,133
Utah State U.	149,169	174,167	157,355	158,352	169,605	175,353	180,590	187,314	219,397	283,917
Private										
Brigham Young U., Provo	32,997	37,142	33,843	36,562	38,051	39,126	42,304	43,406	40,755	39,582
Vermont										
Public										
U. Vermont	129,856	132,356	115,697	115,486	109,701	114,547	115,611	117,667	128,293	135,859
Private										
Middlebury C.	2,292	2,408	3,031	2,179	1,450	1,599	1,822	2,043	1,895	1,657
Saint Michael's C.	644	734	ne	1,620	1,541	1,532	1,624	1,415	1,482	1,200
Virginia										
Public										
Christopher Newport U.	1,110	1,669	1,327	1,187	1,508	1,208	1,172	1,264	1,732	1,961
Eastern Virginia Medical School	44,420	36,569	37,745	44,183	43,917	42,296	32,550	28,671	30,010	27,064
George Mason U.	84,120	88,089	90,198	95,913	98,680	106,410	108,899	112,404	149,138	186,267
James Madison U.	7,038	7,303	8,891	5,835	4,628	3,712	3,303	3,248	4,191	8,726
Norfolk State U.	5,944	7,140	8,336	6,431	6,936	5,348	7,593	7,296	6,914	8,050

TABLE 67

## Higher education R&amp;D expenditures, by state, institutional control, and institution: FYs 2010–19

(Dollars in thousands)

State, institutional control, and institution	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019
Old Dominion U.	97,176	102,192	104,579	99,138	67,037	65,092	70,054	67,990	60,321	67,425
U. of Mary Washington	ne	1,374	907	ne	ne	690	ne	ne	1,242	1,315
U. Virginia, Charlottesville	276,308	398,096	383,359	385,828	358,576	373,218	397,458	469,682	551,761	613,938
Virginia Commonwealth U.	197,709	207,756	201,366	196,015	201,858	218,925	225,999	235,464	246,190	255,648
Virginia Polytechnic Institute and State U.	398,169	450,058	454,417	496,169	513,149	504,282	521,773	522,425	531,636	541,969
Virginia State U.	7,466	8,562	10,296	9,535	8,374	7,808	8,147	10,725	10,673	11,457
William & Mary	57,461	58,919	55,805	57,940	59,015	61,554	63,027	64,127	65,269	64,835
Private										
Edward Via C. of Osteopathic Medicine	ne	2,453	2,576	4,992	2,633	2,237	5,692	8,119	7,601	7,225
Hampton U.	14,455	12,414	15,356	12,641	11,169	14,895	14,225	16,482	14,424	13,605
Liberty U.	ne	ne	ne	ne	ne	ne	ne	ne	ne	1,780
U. Richmond	4,052	4,064	4,282	3,351	3,598	3,069	3,047	3,106	2,784	2,783
Washington										
Public										
Central Washington U.	5,159	2,858	2,753	2,122	2,124	2,581	2,751	3,798	3,066	3,223
Eastern Washington U.	3,266	3,910	2,700	2,115	1,867	2,973	3,368	2,000	2,590	2,024
Northwest Indian C.	2,426	2,744	2,847	3,247	2,609	1,631	ne	ne	2,154	2,659
U. Washington, Bothell	630	2,857	4,285	4,704	7,550	7,657	8,406	10,219	8,097	7,950
U. Washington, Seattle	1,022,740	1,148,533	1,109,008	1,192,513	1,176,340	1,180,563	1,277,679	1,348,220	1,413,902	1,425,601
U. Washington, Tacoma	872	1,359	1,845	2,203	2,938	3,618	3,957	3,246	3,006	3,471
Washington State U.	304,352	320,510	335,930	341,082	326,414	333,134	334,082	356,901	360,522	369,333
Western Washington U.	10,571	9,498	7,597	8,157	8,567	9,921	10,743	13,014	13,075	11,983
Private										
Seattle U.	1,337	1,274	642	ne	2,692	2,847	2,050	1,623	2,535	2,223
Whitman C.	1,415	1,142	849	ne	ne	ne	ne	ne	ne	1,083
West Virginia										
Public										
Marshall U.	24,501	26,723	18,998	19,617	20,382	19,936	20,687	18,348	20,050	19,622
West Virginia State U.	3,770	4,176	5,087	4,491	7,221	7,365	5,224	6,305	6,535	5,829
West Virginia U.	154,926	166,420	169,303	167,144	164,454	170,145	172,477	185,606	185,110	187,512
Wisconsin										
Public										
U. Wisconsin-Eau Claire	1,950	1,406	1,362	1,235	915	ne	1,238	1,641	1,227	1,530
U. Wisconsin-Green Bay	1,219	1,239	1,259	1,279	1,299	1,320	1,599	1,510	1,454	2,083
U. Wisconsin-La Crosse	4,141	3,862	3,583	3,796	3,424	3,615	3,211	3,187	3,569	2,692
U. Wisconsin-Madison	1,029,295	1,111,642	1,169,779	1,123,501	1,108,564	1,069,077	1,157,680	1,193,413	1,205,518	1,297,331
U. Wisconsin-Milwaukee	71,181	65,648	61,771	56,587	60,752	63,414	59,813	54,181	55,771	53,773

TABLE 67

## Higher education R&amp;D expenditures, by state, institutional control, and institution: FYs 2010–19

(Dollars in thousands)

State, institutional control, and institution	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019
U. Wisconsin-Oshkosh	1,556	2,384	2,331	2,167	1,935 i	1,703 i	ne	1,538 i	1,627 i	1,713 i
U. Wisconsin-Platteville	681	715 i	ne	ne	1,000 i	970 i	ne	1,068 i	ne	1,084 i
U. Wisconsin-Stevens Point	6,766	6,171 i	5,576	4,392	3,919 i	3,446 i	2,973	3,110 i	3,291 i	3,464 i
U. Wisconsin-Superior	5,890	6,187 i	6,041 i	ne	3,030 i	ne	ne	ne	3,068	2,250
Private										
Marquette U.	14,310	19,876	18,606	20,856	23,633	24,816	28,422	30,034	32,471	37,777
Medical C. Wisconsin	191,816	215,358	209,040	201,237	199,713	199,283	199,925	209,618	229,436	244,752
Milwaukee School of Engineering	3,944	4,472	4,635	4,376	4,410	4,524	3,930	3,374	3,232	4,026
Wyoming										
Public										
U. Wyoming	55,319	57,549	65,611	65,490	51,422	56,996	112,056	125,032	113,063	80,353
American Samoa										
Public										
American Samoa Community C.	ne	ne	ne	ne	ne	1,337	793	ne	ne	860
Guam										
Public										
U. Guam	5,555	5,626	6,131	6,043	7,075	6,062	7,402	8,842	11,225	12,249
Puerto Rico										
Public										
U. Puerto Rico, Cayey	927	1,474	1,916	1,726	1,795	1,521	1,415	1,109	1,359	1,870
U. Puerto Rico, Humacao	1,971 i	1,976	1,949	1,455	1,145	784	ne	ne	1,168	1,195
U. Puerto Rico, Mayaguez	26,475	34,424	32,115	29,225	27,152	28,100	25,491	26,130	24,769	26,877
U. Puerto Rico, Medical Sciences Campus	39,134	64,017	45,649	43,374	40,444	43,316	46,232	42,423	41,216	45,014
U. Puerto Rico, Rio Piedras	30,515	32,582	33,099	29,234	28,793	28,579	23,491	21,204	17,085	24,088
Private										
Polytechnic U. Puerto Rico	ne	360	ne	ne	ne	ne	ne	ne	ne	2,118
Ponce Health Sciences U.	8,934	10,502	11,586	7,241	5,710	7,520	7,992	8,664	7,857	11,390
U. Ana G. Mendez, Cupey	1,888	2,387	9,472	7,835	6,997	6,361	5,183	5,568	3,926	624
U. Ana G. Mendez, Gurabo	6,620	7,098	6,953	6,916	2,694	2,473	2,518	1,777	1,579	3,945
U. Central del Caribe	7,122	7,515	7,313	7,095	7,181	6,964	7,090	5,634	4,111	3,953
Virgin Islands										
Public										
U. of the Virgin Islands	32,350	21,994	25,719	20,041	20,371	20,630	21,215	12,298	11,957	12,236

i = imputed. na = not applicable; institution did not exist or did not exist as a separate entity. ne = not eligible; institution did not meet the criteria for inclusion.

<sup>a</sup> The University of Maryland includes expenditures from the University of Maryland, Baltimore and University of Maryland, College Park campuses. In FY 2019, the two campuses began reporting as one research unit to reflect their new strategic partnership. This relationship was codified through the University of Maryland Strategic Partnership Act passed by the Maryland General Assembly in 2016. Prior to FY 2019, both campuses reported to the survey as separate institutions.

<sup>b</sup> Johns Hopkins University includes the Applied Physics Laboratory, with \$1,725,018 thousand in total R&D expenditures in FY 2019.

**Source(s):**

National Center for Science and Engineering Statistics, Higher Education Research and Development Survey.