

TABLE 67

Higher education R&D expenditures, by state, institutional control, and institution: FYs 2010–20

(Dollars in thousands)

State, institutional control, and institution	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
Alabama											
Public											
Alabama A&M U.	30,497	30,238 i	29,979 i	29,720 i	29,461 i	29,202	25,112 i	21,022 i	16,932 i	12,840	8,749
Alabama State U.	13,340	12,340	13,607	1,927	2,236	2,303	2,372	2,253	2,434	2,577	2,582
Auburn U., Auburn	145,115	163,335	133,013	147,229	142,487	135,899	152,381	190,340	212,925	231,619	255,281
Jacksonville State U.	398	624	ne	ne	ne	3,242	3,231	3,120 i	3,008	2,429	1,244
Troy U.	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	1,692
U. Alabama, Birmingham	489,845	503,698	453,779	440,796	428,563	516,229	537,825	561,851	588,207	607,863	618,226
U. Alabama, Huntsville	75,683	75,724	87,388	101,016	89,325	88,439	96,865	94,376	99,405	109,744	131,648
U. Alabama, Tuscaloosa	40,762	53,633	55,885	55,443	53,140	58,234	62,549	63,282	71,992	83,317	95,200
U. South Alabama	35,500	42,233	40,172	40,590	41,681	43,722	46,670	41,431	41,056	52,540	51,102
Private											
Tuskegee U.	15,581	15,685	15,991	21,150	24,945	20,740 i	16,535	16,535	16,535	20,562	20,973
Alaska											
Public											
U. Alaska, Anchorage	16,709	18,620	20,194	20,255	17,150	17,436	19,883	20,861	21,096	21,724	22,713
U. Alaska, Fairbanks	161,986	165,530	160,407	162,658	155,769	142,742	144,259	152,694	140,917	144,457	152,299
U. Alaska, Southeast	1,759	1,274	1,382	1,559	1,512	1,588	1,808	1,621	1,641	1,341	1,264
Private											
Alaska Pacific U.	434	518	ne	ne	ne	1,246	1,358	1,248	1,544	1,774	1,261
Arizona											
Public											
Arizona State U.	329,345	355,215	385,959	405,154	426,651	458,412	518,239	545,016	617,717	639,637	673,357
Dine C.	ne	959 i	ne	ne	ne	ne	ne	ne	1,238	1,126	347
Northern Arizona U.	28,803	30,785	28,100	30,516	31,590	35,206	39,580	46,253	52,899	58,914	64,456
U. Arizona	586,647	610,565	625,365	629,466	588,088	606,219	604,464	622,200	687,066	734,270	760,975
Arkansas											
Public											
Arkansas State U., Jonesboro	11,115	13,435	14,250	10,463	8,099	8,453	8,169	7,952	8,245	8,945	8,640
U. Arkansas for Medical Sciences	119,518	122,066	129,056	133,677	131,438	132,451	125,378	128,508	139,187	153,135	174,549
U. Arkansas, Fayetteville	113,909	120,007	123,199	125,501	125,824	133,660	145,020	157,791	175,498	180,225	165,887
U. Arkansas, Little Rock	11,007	12,039	10,500	13,107	8,068	7,003	7,604	6,833	8,167	9,975	9,711
U. Arkansas, Pine Bluff	8,343	9,415	9,082	8,911	8,198	8,425	8,873	8,136	8,349	9,024	8,540
U. Central Arkansas	2,670	2,821	3,277	2,913	4,064	3,502	3,453	3,313	3,620	3,477	3,455

TABLE 67

Higher education R&D expenditures, by state, institutional control, and institution: FYs 2010–20

(Dollars in thousands)

State, institutional control, and institution	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
California											
Public											
California Polytechnic State U., San Luis Obispo	19,732	16,532	17,412	16,067	15,096	16,312	18,081	17,979	16,352	25,249	26,605
California State Polytechnic U., Pomona	6,493	7,198	6,597	6,988	5,455	4,611	5,254	5,863	8,043	6,099	7,396
California State U., Bakersfield	2,083	3,162	1,241	2,602	2,432	3,192	3,161	4,652	5,577	7,591	7,053
California State U., Channel Islands	ne	524	ne	1,236	3,862	1,949	1,383	1,096	1,248	1,572	1,497
California State U., Chico	2,881	2,684	2,492	2,868	2,384	1,837	2,363	1,600	2,452	3,232	4,305
California State U., Dominguez Hills	2,743	2,780	2,894	4,671	3,614	i	2,557	2,790	1,858	2,043	1,957
California State U., East Bay	1,312	1,644	1,039	934	ne	ne	837	ne	ne	ne	9,072
California State U., Fresno	8,698	8,597	8,359	7,682	8,109	8,624	8,586	8,102	8,988	8,599	8,856
California State U., Fullerton	21,776	28,186	22,222	18,478	7,919	5,611	5,755	5,510	6,348	7,173	5,929
California State U., Long Beach	15,494	14,595	i	13,696	i	12,796	10,097	8,830	16,390	18,805	22,880
California State U., Los Angeles	7,714	8,823	7,192	7,659	5,172	5,010	5,371	8,274	9,594	12,476	10,590
California State U., Maritime Academy	ne	3,005	2,793	2,480	1,011	1,542	2,205	1,921	3,039	2,959	3,202
California State U., Monterey Bay	5,305	6,959	6,567	6,129	4,787	5,492	5,680	5,397	5,799	6,444	5,874
California State U., Northridge	29,469	25,654	29,491	9,640	12,991	13,333	16,330	17,979	19,618	21,095	21,228
California State U., Sacramento	15,207	16,344	14,053	15,564	13,136	17,930	20,676	21,106	21,429	23,544	24,939
California State U., San Bernardino	4,188	11,591	9,303	11,942	13,582	15,317	10,771	12,924	16,702	16,062	10,819
California State U., San Marcos	5,788	6,795	i	7,802	i	8,809	8,302	6,432	6,634	6,549	8,348
California State U., Stanislaus	ne	1,487	1,881	1,342	1,136	1,080	1,248	1,365	1,394	1,477	1,843
Humboldt State U.	9,845	9,570	9,510	8,025	8,306	11,218	16,143	15,969	15,044	15,076	14,236
Naval Postgraduate School	103,510	101,363	132,450	94,880	99,032	89,170	65,529	60,386	59,213	67,323	62,903
San Diego State U.	99,137	106,591	92,867	86,733	95,674	93,572	90,722	89,187	88,177	92,964	97,710
San Francisco State U.	25,615	26,198	30,291	33,885	29,457	26,345	28,273	29,940	30,903	31,888	33,078
San Jose State U.	38,241	40,149	34,727	38,326	43,509	45,037	41,662	39,192	41,366	44,309	47,301
Sonoma State U.	858	825	ne	1,938	1,714	1,163	693	ne	ne	ne	1,545
U. California, Berkeley	694,049	707,945	730,348	727,002	744,343	788,505	774,255	770,822	796,505	802,931	840,000
U. California, Davis	679,915	707,896	713,292	725,734	711,721	721,077	741,892	738,347	788,832	804,282	816,693
U. California, Irvine	327,594	344,678	350,030	347,773	340,056	329,798	345,319	361,414	426,610	448,967	490,597
U. California, Los Angeles	936,995	982,357	1,003,375	966,659	948,197	1,021,227	1,037,528	1,076,917	1,318,110	1,306,376	1,392,941

TABLE 67

Higher education R&D expenditures, by state, institutional control, and institution: FYs 2010–20

(Dollars in thousands)

State, institutional control, and institution	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
U. California, Merced	21,591	21,328	22,656	22,909	23,916	29,688	29,370	35,093	38,226	44,890	45,966
U. California, Office of the President	72,542	63,420	65,627	67,447	50,103	48,341	39,051	46,399	55,676	67,702	60,686
U. California, Riverside	130,288	132,238	135,494	132,617	133,558	144,511	152,233	163,632	167,847	177,655	184,894
U. California, San Diego	943,219	1,009,378	1,073,864	1,075,554	1,067,388	1,101,466	1,087,117	1,133,454	1,265,196	1,353,763	1,403,735
U. California, San Francisco	935,509	995,226	1,032,673	1,042,841	1,084,031	1,126,620	1,294,261	1,409,398	1,595,732	1,595,098	1,651,073
U. California, Santa Barbara	225,730	230,435	233,883	236,497	231,322	222,870	230,139	238,246	235,164	243,778	254,434
U. California, Santa Cruz	143,919	155,617	155,516	150,777	151,734	151,713	151,192	124,344	127,538	142,958	150,400
Private											
Azusa Pacific U.	ne	3,620	2,056	i ne	ne	7,521	8,898	8,430	8,380	5,598	7,068
Biola U.	ne	ne	ne	ne	ne	ne	1,000	i 1,034	i 1,085	i 1,155	i 1,187
California Institute of Technology	362,172	377,514	379,713	347,105	367,182	374,424	371,060	400,312	391,003	399,931	449,651
California Lutheran U.	ne	741	ne	ne	ne	ne	ne	ne	ne	1,143	630
Chapman U.	3,830	3,547	3,314	4,463	4,794	5,353	6,554	10,626	14,141	19,592	26,660
Charles R. Drew U. of Medicine and Science	22,152	22,150	20,580	18,547	20,686	14,128	13,360	15,652	11,490	13,739	13,682
Claremont Graduate U.	7,116	6,589	10,350	9,705	9,540	i 9,375	i 9,210	i 9,045	i 8,880	i 8,715	9,403
Claremont McKenna C.	5,725	5,316	5,365	i 5,414	i 5,463	i ne	6,094	5,818	5,693	6,214	5,846
Harvey Mudd C.	3,214	3,861	3,512	3,595	3,127	3,272	4,332	3,748	3,790	3,353	2,916
High Tech High Graduate School of Ed.	ne	ne	ne	ne	ne	ne	ne	ne	861	ne	3,304
Keck Graduate Institute	ne	2,313	1,920	2,357	2,132	1,722	1,814	i 1,875	i 1,967	i 2,095	i 2,152
La Sierra U.	ne	732	ne	ne	1,057	1,165	1,255	2,202	2,227	1,581	1,647
Loma Linda U.	35,990	39,409	31,772	31,715	23,375	25,519	22,977	21,846	22,922	i 24,408	i 25,077
Loyola Marymount U.	4,557	6,455	5,746	6,766	7,635	6,389	7,504	7,071	7,911	7,272	7,193
Marshall B. Ketchum U.	ne	ne	ne	ne	1,030	1,468	1,491	1,512	i 1,451	i 1,430	i 1,357
Mills C.	1,679	2,237	2,747	3,869	3,619	3,159	3,540	3,353	1,850	1,643	1,541
Occidental C.	2,289	1,809	1,592	1,634	2,177	1,544	2,008	1,764	1,445	2,458	2,657
Pepperdine U.	2,672	1,924	2,571	2,400	2,401	2,714	3,178	2,396	1,954	2,170	2,006
Pomona C.	2,924	3,640	3,259	3,679	3,818	3,538	3,691	3,205	2,983	2,985	2,855
Santa Clara U.	3,816	2,407	3,329	2,376	2,883	1,659	2,056	2,145	2,299	2,319	2,682
Scripps Research Institute	387,298	400,768	398,673	399,899	386,231	384,161	364,670	354,582	396,839	427,734	444,964
Stanford U.	839,839	907,971	903,238	945,450	959,247	1,022,551	1,066,269	1,109,708	1,157,597	1,204,116	1,203,950
Touro U.	1,221	1,779	2,237	2,155	3,067	3,106	3,466	3,122	3,233	3,543	3,551

TABLE 67

Higher education R&D expenditures, by state, institutional control, and institution: FYs 2010–20

(Dollars in thousands)

State, institutional control, and institution	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
Public											
Delaware State U.	15,200	19,019	15,668	17,295	17,679	15,980	21,320	20,793	21,377	23,017	23,876
U. Delaware	153,311	169,746	170,174	179,967	175,563	175,724	176,295	183,428	186,192	206,270	220,445
District of Columbia											
Public											
National Defense U.	ne	ne	ne	5,865	7,682	5,542	6,447	6,293	4,276	4,231	4,583
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	4,590
Private											
American U.	39,747	46,611	43,526	61,087	63,628	58,325	57,064	56,034	61,741	71,053	71,839
Catholic U. of America	21,454	25,397	24,971	23,235	22,331	24,265	25,139	24,282	25,497	24,484	25,221
Gallaudet U.	7,652	7,161	6,765	6,769	5,655	4,477	6,947	7,603	7,617	5,382	4,599
George Washington U.	196,917	197,621	196,448	202,428	227,995	241,117	231,829	245,519	260,656	269,799	270,369
Georgetown U.	159,355	169,916	180,308	178,995	172,726	176,131	183,788	212,319	221,449	240,960	258,659
Howard U.	40,080	42,341	45,486	42,789	40,771	47,322	41,038	45,768	45,965	44,163	44,933
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	41,319
Florida Atlantic U.	56,472	62,024	65,377	23,967	22,997	21,214	26,750	46,025	48,024	51,085	53,845
Florida Gulf Coast U.	13,906	17,051	14,393	14,204	9,626	8,992	7,335	6,025	5,115	5,907	6,671
Florida International U.	110,271	110,006	118,058	128,070	132,531	163,033	170,846	177,292	196,180	225,864	236,842
Florida Polytechnic U.	na	na	na	na	na	212	ne	ne	ne	2,006	1,091
Florida State U.	227,329	230,411	225,378	250,877	252,548	256,449	268,288	282,901	297,661	329,205	350,430
U. Central Florida	117,985	109,190	116,891	126,681	185,555	215,519	198,211	200,387	215,332	225,085	239,343
U. Florida	681,548	739,931	696,985	695,063	708,526	739,522	791,294	801,418	865,093	928,639	942,223
U. North Florida	8,041	9,379	7,031	4,480	3,674	3,689	5,141	6,476	9,994	12,341	13,573
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	18,243
U. South Florida, Sarasota-Manatee	732	914	ne	ne	1,026	1,595	1,827	1,883	1,934	1,872	2,150
U. South Florida, Tampa	385,029	394,963	443,206	459,409	488,641	485,354	505,965	557,889	385,686	391,325	333,344
U. West Florida	17,757	21,710	16,221	19,332	19,579	31,232	40,815	35,054	41,035	41,977	40,051
Private											
Embry-Riddle Aeronautical U.	12,189	16,289	19,376	16,484	15,393	11,942	16,761	13,335	16,767	12,478	17,786
Florida Institute of Technology	12,054	14,523	17,100	13,298	14,255	14,282	18,860	18,180	17,378	17,876	18,271
Nova Southeastern U.	10,116	12,322	12,908	12,712	13,716	14,775	19,559	22,508	23,296	24,567	26,035

TABLE 67

Higher education R&D expenditures, by state, institutional control, and institution: FYs 2010–20

(Dollars in thousands)

State, institutional control, and institution	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
U. Notre Dame	110,369	134,410	157,691	175,220	182,228	190,954	202,216	212,823	219,993	240,078	227,535
Iowa											
Public											
Iowa State U.	250,120	267,641	260,995	266,596	313,263	306,125	328,385	323,584	361,206	358,474	363,107
U. Iowa	444,034	443,893	446,429	435,377	449,147	443,218	473,362	494,280	511,973	508,353	538,583
U. Northern Iowa	3,064	4,248	3,615	3,678	3,711	4,032	3,632	3,303	2,983	3,628	2,970
Private											
Des Moines U.	855	924	ne	ne	929	ne	1,401	1,416	1,423	1,954	5,021
Grinnell C.	2,069	1,340	2,735	4,023	3,974	3,723	4,183	4,953	5,573	5,500	5,826
Palmer C. of Chiropractic, Davenport	4,693	4,861	4,507	3,774	2,736	i	1,698	1,836	1,600	1,650	1,900
Kansas											
Public											
Fort Hays State U.	ne	ne	ne	ne	ne	ne	ne	ne	ne	1,143	1,172
Kansas State U.	160,679	169,167	176,141	183,096	184,945	188,721	193,254	196,478	218,299	218,622	213,900
Pittsburg State U.	1,759	1,687	1,479	1,536	2,475	2,210	2,162	2,255	2,253	2,513	2,173
U. Kansas	267,961	274,727	286,262	298,498	301,534	311,383	297,933	300,319	339,046	352,643	368,811
Wichita State U.	51,524	63,538	61,279	61,388	58,859	59,940	65,930	78,514	81,137	128,795	153,816
Kentucky											
Public											
Eastern Kentucky U.	3,531	3,782	3,404	2,845	2,221	1,681	1,486	1,248	1,142	1,125	1,010
Kentucky State U.	4,912	4,562	6,859	5,605	5,694	6,017	7,178	8,151	i	9,125	8,433
Morehead State U.	2,145	2,018	2,174	2,631	1,892	1,838	2,399	2,860	2,434	2,028	1,883
Murray State U.	3,396	3,718	3,345	2,192	2,080	2,371	2,124	2,459	2,872	3,710	3,019
Northern Kentucky U.	2,316	2,397	2,201	1,810	2,052	2,026	1,846	1,649	1,653	2,363	2,693
U. Kentucky	359,944	372,932	360,776	339,764	328,239	331,705	349,661	378,374	393,034	410,581	417,674
U. Louisville	189,090	197,438	196,842	186,772	183,376	163,262	172,907	177,588	176,655	177,862	198,818
Western Kentucky U.	9,943	8,344	10,639	9,322	8,280	7,854	8,926	10,814	9,617	9,281	8,241
Louisiana											
Public											
Grambling State U.	993	2,135	2,179	1,695	1,469	1,863	1,570	5,911	2,981	2,836	2,427
Louisiana State U., Baton Rouge	289,872	287,841	285,395	283,400	290,076	281,154	291,972	265,168	286,726	296,497	286,733
Louisiana State U., Health Sciences Center, New Orleans	59,776	57,007	53,712	49,443	45,486	46,840	43,067	40,785	38,989	40,914	43,419

TABLE 67

Higher education R&D expenditures, by state, institutional control, and institution: FYs 2010–20

(Dollars in thousands)

State, institutional control, and institution	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020		
Louisiana State U., Health Sciences Center, Shreveport	30,817	31,021	29,365	28,266	25,004	24,069	23,353	22,560	24,463	26,262	25,321		
Louisiana Tech U.	26,020	27,583	26,546	24,949	22,942	23,827	23,104	22,741	24,655	26,143	26,585		
Northwestern State U. Louisiana	1,464	1,189	1,102	1,022	792	ne	1,628	1,373	1,623	2,058	1,940		
Southeastern Louisiana U.	2,561	1,952	2,121	2,067	1,503	2,670	2,128	2,206	2,039	1,971	2,258		
Southern U. and A&M C., Agricultural Research and Extension Center	ne	6,143	8,122	5,530	5,606	4,761	4,704	5,000	i	5,296	5,448	4,475	
Southern U. and A&M C., Baton Rouge	6,865	6,819	i	6,773	4,920	4,812	4,766	4,322	4,043	4,171	4,492	3,849	
U. Louisiana, Lafayette	69,412	69,978	65,275	61,887	67,580	77,300	80,099	100,956	124,713	144,187	164,070		
U. Louisiana, Monroe	2,884	2,812	2,469	2,781	2,267	1,672	2,441	2,297	2,123	2,364	2,362		
U. New Orleans	35,021	35,359	28,450	24,607	20,614	18,960	15,719	15,939	14,437	15,328	16,594		
Private													
Dillard U.	8,425	7,936	i	7,448	7,741	6,939	9,387	9,566	7,095	6,573	2,772	2,523	
Tulane U.	165,513	171,703	164,373	160,414	157,825	152,658	165,438	180,993	193,294	196,933	204,430		
Xavier U. Louisiana	8,029	9,849	10,606	8,789	9,346	9,588	12,084	12,424	11,784	10,152	11,387		
Maine													
Public													
U. Maine	111,282	111,600	92,135	77,583	101,247	79,500	79,222	99,502	106,694	129,913	132,184		
U. Southern Maine	16,358	16,938	13,915	11,725	9,408	i	7,091	i	4,773	7,147	7,414	6,654	5,635
Private													
Bates C.	1,590	1,897	2,070	2,514	1,584	2,791	1,781	1,853	1,635	2,135	2,303		
Bowdoin C.	2,627	2,877	4,732	4,292	3,126	2,991	3,204	2,340	2,724	2,991	2,719		
Colby C.	1,782	1,772	1,996	1,822	1,673	1,748	1,903	2,071	2,240	1,852	1,536		
U. New England	3,560	4,016	5,224	6,637	7,650	7,498	7,566	8,064	6,700	7,346	6,886		
Maryland													
Public													
Bowie State U.	ne	1,910	1,739	1,422	1,761	1,497	1,927	1,813	1,839	1,911	1,967		
Morgan State U.	12,804	12,803	17,751	15,475	15,720	13,577	15,727	14,978	12,993	13,253	17,193		
Salisbury U.	3,503	1,852	6,891	6,959	7,923	7,960	8,473	7,731	9,119	9,368	9,496		
Towson U.	3,052	3,574	2,599	2,800	2,997	3,153	2,303	2,834	3,194	3,423	3,612		
U. Baltimore	4,229	5,944	5,556	5,448	4,990	5,022	5,798	6,851	10,556	12,451	15,054		
U. Maryland ^a	na	na	na	na	na	na	na	na	na	1,096,600	1,103,062		

TABLE 67

Higher education R&D expenditures, by state, institutional control, and institution: FYs 2010–20

(Dollars in thousands)

State, institutional control, and institution	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
U. Maryland Center for Environmental Science	42,670	50,007	48,224	53,683	50,814	52,235	54,974	55,078	54,136	56,033	54,560
U. Maryland, Baltimore County	87,156	91,657	74,993	71,819	67,833	68,688	70,166	70,406	71,481	80,632	83,867
U. Maryland, Eastern Shore	8,692	8,664	7,309	8,826	8,982	9,700	8,250	7,403	4,941	7,133	8,092
U.S. Naval Academy	11,093	10,543	9,610	10,816	10,861	9,609	11,374	13,541	14,057	13,621	13,123
Uniformed Services U. of the Health Sciences	134,126	175,365	143,250	164,232	262,489	361,173	256,203	298,370	308,326	417,300	324,510
Private											
Johns Hopkins U. ^b	2,004,482	2,145,308	2,106,185	2,168,568	2,242,478	2,305,679	2,431,180	2,562,307	2,661,033	2,917,436	3,110,494
Massachusetts											
Public											
Framingham State U.	ne	ne	ne	ne	ne	ne	ne	1,901	164	ne	2,317
U. Massachusetts, Amherst	169,141	181,297	194,775	190,739	200,199	213,902	214,576	210,416	211,140	223,177	219,389
U. Massachusetts, Boston	56,416	57,040	60,086	60,380	61,186	62,374	64,223	70,019	61,473	62,018	64,219
U. Massachusetts, central office	ne	ne	3,173	3,617	5,875	5,056	5,219	4,394	5,298	4,916	5,225
U. Massachusetts, Dartmouth	25,725	25,644	22,732	27,326	28,219	26,776	26,824	26,102	26,626	28,036	26,836
U. Massachusetts, Lowell	59,345	60,013	60,624	63,136	64,591	70,384	68,494	69,677	72,266	83,996	92,216
U. Massachusetts, Medical School	232,039	262,714	256,090	245,923	241,869	250,338	253,099	279,884	274,211	281,507	279,096
Private											
Amherst C.	3,628	4,623	5,448	6,275	4,308	4,412	4,260	4,070	4,849	6,325	4,906
Babson C.	ne	696	ne	ne	ne	ne	2,108	1,849	1,917	1,845	2,352
Boston C.	50,537	52,253	51,442	50,702	49,724	47,761	54,469	58,088	57,030	61,956	63,063
Boston U.	352,817	355,916	334,496	368,281	367,328	388,336	395,921	421,360	484,205	534,205	583,267
Brandeis U.	71,006	74,889	74,660	76,060	74,992	74,700	73,435	68,437	61,639	60,825	63,201
Clark U.	7,111	6,861	7,260	5,693	6,168	7,050	6,970	8,453	8,318	10,193	10,277
Emerson C.	ne	ne	ne	ne	ne	1,291	1,114	1,488	2,059	1,145	919
Franklin W. Olin C. of Engineering	ne	1,016	1,777	1,157	1,561	2,136	1,762	1,553	1,254	1,655	1,404
Harvard U.	583,361	649,774	799,432	1,012,766	933,975	1,013,753	1,077,253	1,123,160	1,173,371	1,239,736	1,239,983
Massachusetts Institute of Technology	677,138	723,610	824,130	900,524	908,017	930,719	946,159	952,017	964,336	1,009,466	987,968
Merrimack C.	ne	ne	ne	ne	ne	ne	ne	ne	796	ne	503
MGH Institute of Health Professions	ne	607	ne	ne	ne	3,931	2,548	2,282	3,328	4,130	3,549
Mount Holyoke C.	2,788	3,317	3,323	3,118	3,871	3,826	3,403	3,635	3,027	2,979	2,016

TABLE 67

Higher education R&D expenditures, by state, institutional control, and institution: FYs 2010–20

(Dollars in thousands)

State, institutional control, and institution	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
New England C. of Optometry	1,457	1,751	2,237	2,172	1,234	1,077	980	ne	1,026	1,223	1,150
Northeastern U.	79,949	86,783	107,862	116,088	116,245	122,915	129,040	142,349	166,711	183,998	200,068
Smith C.	4,613	4,529	4,246	4,234	4,283	5,268	4,466	6,055	5,954	6,041	4,685
Stonehill C.	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	833
Suffolk U.	ne	1,624	1,303	1,551	1,534	1,305	1,492	i 1,679	i ne	ne	2,106
Tufts U.	156,106	156,395	160,922	156,525	160,825	168,314	189,085	223,409	213,457	213,285	216,241
Wellesley C.	8,422	7,242	8,439	9,113	10,127	9,595	11,664	10,326	11,530	8,810	8,088
Williams C.	4,691	4,513	4,518	3,857	4,440	5,679	5,747	5,227	5,506	5,188	4,924
Woods Hole Oceanographic Institution	181,746	198,775	204,352	198,232	220,016	216,592	212,374	194,088	204,400	229,143	227,573
Worcester Polytechnic Institute	18,613	22,137	20,232	25,298	29,929	36,130	37,822	33,368	33,067	39,878	43,092
Michigan											
Public											
Central Michigan U.	7,483	8,671	10,907	12,879	15,015	12,880	14,166	14,652	15,616	17,102	17,448
Eastern Michigan U.	14,133	11,643	12,437	3,128	1,428	1,761	3,815	6,281	6,600	7,175	9,088
Grand Valley State U.	5,044	6,429	i 7,814	i 9,202	8,198	7,453	6,764	6,917	6,968	6,592	6,792
Michigan State U.	431,373	454,248	507,061	515,707	526,906	558,248	613,369	694,917	715,290	725,708	713,197
Michigan Technological U.	63,471	70,089	71,989	70,689	68,526	69,607	72,536	71,629	78,678	80,443	77,927
Northern Michigan U.	910	841	ne	ne	ne	ne	1,118	1,339	1,728	1,520	1,523
Oakland U.	12,856	15,868	18,194	16,767	15,196	17,108	16,001	14,561	13,817	18,002	12,949
Saginaw Valley State U.	873	1,249	1,094	939	ne	1,220	1,190	1,406	1,640	2,818	2,343
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	1,673,862
U. Michigan, Dearborn	6,779	7,554	6,015	6,846	8,176	7,802	7,904	8,315	8,094	8,813	8,777
U. Michigan, Flint	693	767	ne	ne	ne	ne	ne	1,466	1,237	1,448	1,247
Wayne State U.	254,492	259,895	227,070	224,331	218,435	213,878	221,537	227,728	238,859	244,217	243,259
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	24,541
Private											
Albion C.	ne	799	ne	ne	ne	ne	ne	1,074	1,055	1,040	1,132
Andrews U.	1,195	854	ne	ne	ne	ne	ne	ne	ne	1,126	1,033
Calvin U.	5,010	3,113	3,252	3,466	3,051	2,430	i 1,809	1,456	1,937	1,577	1,497
Hope C.	3,596	4,185	3,376	3,559	3,016	2,932	2,811	3,225	3,179	2,745	3,822
Kettering U.	6,880	5,087	4,059	3,449	3,517	3,673	3,463	4,233	2,531	1,765	2,081
Lawrence Technological U.	3,952	3,348	1,483	2,022	1,876	2,528	1,907	1,942	1,668	1,352	1,521
U. Detroit Mercy	1,148	1,462	970	ne	1,320	1,882	3,654	2,748	4,605	5,210	4,786

TABLE 67

Higher education R&D expenditures, by state, institutional control, and institution: FYs 2010–20

(Dollars in thousands)

State, institutional control, and institution	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
Van Andel Research Institute	ne	ne	ne	ne	ne	40,502	40,040	44,578	55,171	61,738	58,982
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	2,754
St. Cloud State U.	4,184	3,404	2,932	2,912	3,380	4,192	3,497	3,588	3,725	3,275	3,056
U. Minnesota, Duluth	21,150	23,400	21,530	21,383	21,904	27,550	27,528	24,956	25,189	27,530	26,137
U. Minnesota, Morris	672	899	ne	1,534	1,338	1,223	1,029	974	ne	1,234	1,004
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	1,042,382
Private											
C. of Saint Benedict	ne	867	ne	1,347	1,451	1,179	1,305	1,122	1,142	1,126	i 1,069
Carleton C.	4,575	5,382	4,957	5,848	5,657	6,746	6,385	6,888	5,515	4,388	3,732
Macalester C.	4,389	4,653	1,721	1,457	1,455	1,286	1,562	1,916	1,404	1,808	1,755
Saint John's U., Collegeville	640	891	ne	1,444	1,623	1,372	1,459	1,267	1,208	1,191	i 1,130
St. Olaf C.	1,574	1,130	1,518	1,242	1,353	1,346	1,605	1,539	1,155	1,010	1,032
U. of St. Thomas (MN)	1,330	1,316	1,030	1,424	916	ne	1,266	1,241	1,645	1,870	2,679
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	13,710
Jackson State U.	44,862	49,998	46,943	36,264	26,609	23,908	23,832	22,790	19,465	18,160	15,081
Mississippi State U.	231,675	226,070	233,197	206,424	209,729	226,359	239,446	240,972	244,102	264,526	280,485
U. Mississippi	110,020	122,765	121,731	108,168	109,922	94,040	121,665	134,542	137,521	158,809	122,960
U. Southern Mississippi	42,059	46,591	60,079	51,962	51,938	51,840	59,363	61,659	61,336	76,464	72,322
Private											
Tougaloo C.	2,978	2,753	2,613	2,639	2,285	2,689	2,473	3,030	3,173	3,380	2,102
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	5,777
Missouri State U.	7,770	5,584	4,340	3,882	3,782	3,540	3,069	3,215	4,409	5,910	13,131
Missouri U. of Science and Technology	42,263	41,581	38,588	40,397	39,065	35,842	35,756	38,243	42,986	47,807	47,001
U. Missouri, Columbia	238,500	230,957	239,810	236,423	237,266	246,684	280,051	293,006	294,686	310,421	332,180
U. Missouri, Kansas City	30,163	32,769	29,227	28,829	29,164	26,595	26,292	25,123	25,136	31,956	36,356
U. Missouri, Saint Louis	14,628	18,461	19,356	20,869	18,618	12,061	13,460	12,042	12,266	14,432	15,352
Private											
Saint Louis U.	46,839	53,179	49,086	48,231	44,481	44,457	42,151	56,402	60,380	66,103	69,528

TABLE 67

Higher education R&D expenditures, by state, institutional control, and institution: FYs 2010–20

(Dollars in thousands)

State, institutional control, and institution	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
Public											
C. New Jersey	850	486	ne	ne	ne	ne	ne	1,078	949	ne	1,464
Kean U.	ne	1,497	2,029	761	ne	1,064	908	ne	ne	ne	2,201
Montclair State U.	2,255	3,621	5,123	4,568	4,266	4,274	5,207	5,796	7,980	15,588	17,636
New Jersey City U.	188	ne	ne	ne	ne	ne	ne	5,442	8,211	5,961	262
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	155,715
Rowan U.	2,987	3,247	3,783	3,407	8,202	8,044	10,212	12,856	16,247	22,892	26,018
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	3,950
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	688,077
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	28,006
Stockton U.	ne	1,455	927	ne	1,374	1,452	807	ne	2,560	2,634	4,236
William Paterson U.	1,051	1,452	ne	ne	ne	ne	1,919	3,012	9,456	10,122	9,603
Private											
Monmouth U.	2,195	1,956	904	ne	865	ne	900	ne	ne	1,294	1,729
Princeton U.	242,570	263,335	275,666	269,908	293,274	279,851	307,653	334,125	365,007	385,739	396,502
Seton Hall U.	4,003	7,701	6,398	6,489	6,675	7,058	7,244	7,272	6,536	7,056	5,718
Stevens Institute of Technology	35,544	41,622	31,929	28,908	30,826	34,082	35,765	35,144	33,060	36,695	44,747
New Mexico											
Public											
New Mexico Highlands U.	1,529	1,498	1,566	1,209	979	ne	1,111	1,023	952	ne	1,090
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	24,591
New Mexico State U.	157,872	139,062	141,151	142,365	134,262	132,377	106,282	102,218	96,270	101,457	107,275
U. New Mexico	211,771	220,565	220,360	227,703	228,849	232,271	239,550	246,597	251,322	239,696	243,375
New York											
Public											
CUNY, Advanced Science Research Center	na	na	na	na	na	569	ne	3,541	5,666	8,310	11,373
CUNY, Baruch C.	2,616	2,645	3,605	2,264	2,183	2,451	2,998	2,543	2,817	2,387	2,396
CUNY, Brooklyn C.	6,846	9,306	9,216	8,064	9,407	9,091	9,602	7,393	6,600	6,837	7,074
CUNY, C. Staten Island	3,290	4,188	4,955	3,691	3,731	3,060	3,511	4,250	4,118	3,986	3,682
CUNY, City C.	46,699	60,648	57,982	55,138	52,654	53,223	62,484	54,627	53,979	52,738	45,632

TABLE 67

Higher education R&D expenditures, by state, institutional control, and institution: FYs 2010–20

(Dollars in thousands)

State, institutional control, and institution	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
CUNY, Graduate Center	11,562	11,974	9,173	11,982	7,797	6,175	7,093	8,011	4,781	5,399	4,787
CUNY, Graduate School of Public Health and Health Policy	na	na	na	na	na	na	na	ne	9,751	9,521	12,177
CUNY, Hunter C.	38,900	39,772	41,022	40,059	38,879	36,368	37,094	31,273	33,702	37,478	38,345
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	13,939
CUNY, Lehman C.	3,593	3,762	3,228	2,904	3,265	3,130	5,347	4,979	5,556	4,690	4,154
CUNY, Medgar Evers C.	658	2,065	1,635	1,241	1,083	970	ne	2,046	2,062	1,397	882
CUNY, New York City C. of Technology	231	343	ne	ne	ne	ne	ne	ne	2,418	2,711	2,130
CUNY, Queens C.	16,845	23,219	22,399	19,762	23,434	19,092	19,168	15,936	16,676	18,391	16,470
CUNY, system office	ne	ne	1,817	1,210	1,088	1,782	1,655	1,114	3,253	2,619	1,704
CUNY, York C.	ne	2,180	1,544	999	ne	716	ne	ne	ne	1,621	1,691
SUNY, Binghamton U.	72,057	72,539	81,000	76,005	71,382	79,895	85,192	98,089	113,851	104,297	117,870
SUNY, Buffalo State	1,935	2,539	2,970	2,106	1,996	2,366	2,221	1,887	1,928	2,124	2,253
SUNY, C. Brockport	831	1,248	1,487	1,321	1,192	1,367	1,335	1,289	1,293	1,390	1,719
SUNY, C. of Environmental Science and Forestry	26,916	25,024	23,132	21,239	19,027	22,051	24,504	27,923	26,610	29,137	29,296
SUNY, C. of Optometry	3,529	3,738	3,466	3,637	3,481	3,906	4,169	3,304	3,120	2,968	3,477
SUNY, C. Plattsburgh	1,664	1,098	913	ne	1,008	1,135	1,020	1,003	1,604	1,729	1,452
SUNY, Downstate Medical Center	32,512	41,993	43,257	39,354	33,331	28,652	33,735	31,873	34,661	36,015	33,204
SUNY, Geneseo	1,373	2,677	2,132	1,201	1,084	1,314	1,750	1,758	1,939	2,139	1,642
SUNY, Oswego	783	977	ne	725	ne	ne	ne	1,658	1,982	1,781	1,534
SUNY, Polytechnic Institute	na	na	na	na	412,851	295,313	316,680	308,861	257,358	352,889	355,651
SUNY, Stony Brook U.	204,728	211,356	219,744	225,712	211,631	220,580	230,621	238,612	245,016	260,813	263,470
SUNY, U. Albany	359,364	148,625	137,758	137,759	130,955	111,705	120,232	156,386	173,031	181,531	138,088
SUNY, U. Buffalo	349,670	353,172	360,226	387,863	386,562	382,935	389,569	401,591	410,220	413,817	422,038
SUNY, Upstate Medical U.	43,824	39,988	35,897	34,286	33,460	32,453	31,892	35,551	36,674	38,091	41,557
U.S. Military Academy	22,171	13,799	12,227	11,630	14,819	15,312	13,500	13,617	13,582	10,765	12,473
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	3,765
Albany Medical C.	22,953	20,876	17,735	15,093	16,093	18,043	20,166	20,443	21,187	23,028	23,510
Albert Einstein C. of Medicine	na	na	na	na	na	na	289,660	289,685	297,328	298,824	288,654
Alfred U.	4,524	6,084	5,451	6,731	4,655	5,193	3,975	3,231	3,641	5,153	2,780

TABLE 67

Higher education R&D expenditures, by state, institutional control, and institution: FYs 2010–20

(Dollars in thousands)

State, institutional control, and institution	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
Barnard C.	3,353	4,046	3,684	2,931	2,738	2,916	3,534	3,730	3,458	4,010	3,748
Clarkson U.	18,584	17,951	14,809	12,061	13,750	13,406	12,983	15,148	16,927	17,147	15,104
Cold Spring Harbor Laboratory	ne	89,913	84,072	78,236	76,733	84,653	88,943	97,288	115,870	126,773	115,198
Colgate U.	2,851	2,291	3,268	2,704	2,444	2,721	3,219	3,414	3,823	3,756	2,913
Columbia U. in the City of New York	807,235	878,900	889,487	889,188	890,642	868,159	837,312	893,062	947,504	1,003,615	1,032,909
Cornell U.	749,721	781,651	802,387	845,184	883,292	954,412	974,199	984,478	1,071,621	1,144,534	1,190,063
Fordham U.	19,289	18,350	19,311	18,822	17,961	20,939	25,374	20,807	20,644	20,287	20,456
Hamilton C.	3,192	3,109	3,069	2,942	2,846	2,291	2,662	2,354	1,796	2,050	1,869
Hobart and William Smith Colleges	1,434	1,566	1,516	2,238	1,221	946	ne	952	ne	1,919	2,114
Hofstra U.	2,552	2,472	3,237	2,394	3,102	2,585	2,440	1,702	1,662	1,744	1,445
Icahn School of Medicine at Mount Sinai	370,666	405,527	400,680	428,654	463,429	508,353	540,296	575,448	640,141	722,241	747,014
Ithaca C.	1,077	1,025	1,132	1,245	1,248	972	ne	ne	ne	ne	1,199
Long Island U.	832 i	877 i	890 i	915	ne	ne	1,420	2,290	2,405	5,113	13,997
Manhattan C.	498	638	ne	ne	ne	ne	ne	ne	ne	1,190	1,307
Memorial Sloan Kettering Cancer Center, Louis V. Gerstner Jr. Graduate S. of Biomedical Sciences	ne	2,342	2,562	2,979	3,356	3,089	3,177	3,285	3,502	3,769	3,737
New School	5,178	6,420	7,568	9,219	7,160	8,978	17,425	12,740	13,606	13,421	13,186
New York Institute of Technology	1,785	2,059	3,013	4,007	5,761	4,169	4,114	3,236	3,832	5,820	3,580
New York Medical C.	28,400	27,316	23,277	20,243	17,908	17,653	17,311	15,637	16,226	19,398	20,137
New York U.	365,944	430,752	458,645	471,909	523,623	602,041	809,739	917,744	887,558	934,720	947,293
Niagara U.	1,090	1,656	2,475	2,193	1,946	1,828	1,505	1,823	2,523	2,057	1,124
Pace U.	3,085	3,732	4,214	3,611	4,373	4,647	5,359	5,028	4,282	3,855	4,272
Rensselaer Polytechnic Institute	83,952	84,834	92,720	92,495	105,608	102,841	101,127	104,797	100,856	103,739	107,623
Rochester Institute of Technology	38,663	34,889	36,935	36,613	35,945	40,442	45,518	51,263	49,413	58,175	57,777
Rockefeller U.	265,750	272,491	292,896	298,474	316,368	323,932	335,136	348,845	353,142	351,089	356,217
Skidmore C.	2,850	2,113	1,885	1,903	1,811	1,772	1,327	1,859	2,584	3,012	2,412
St. Bonaventure U.	1,727	1,936	986	ne	ne	ne	731	ne	ne	ne	585
St. John's U., New York	1,643	1,786	2,161	2,401	2,507	2,558	2,307	2,542	2,903	2,352	3,282
Syracuse U.	107,024	83,686	85,649	70,967	66,321	69,896	84,651	145,705	147,751	154,366	149,652

TABLE 67

Higher education R&D expenditures, by state, institutional control, and institution: FYs 2010–20

(Dollars in thousands)

State, institutional control, and institution	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
Public											
Oregon Health and Science U.	314,990	334,324	305,530	308,767	314,802	326,915	331,524	348,449	372,180	415,629	446,890
Oregon Institute of Technology	ne	258	ne	ne	ne	2,056	4,027	3,595	3,163	4,793	4,267
Oregon State U.	216,595	228,814	240,507	232,677	230,963	245,317	254,275	267,068	272,433	263,830	268,385
Portland State U.	56,533	58,975	58,489	55,435	54,787	53,872	56,572	48,964	46,911	50,045	43,667
U. Oregon	94,107	103,019	105,030	94,522	91,203	79,698	100,754	95,974	111,896	110,664	114,259
Private											
Lewis and Clark C.	2,753	2,778	2,246	3,628	4,713	3,873	3,267	3,438	2,811	2,750	3,350
National U. of Natural Medicine	ne	791	ne	ne	ne	ne	ne	921	ne	1,245	1,428
Pacific U.	1,849	1,129	2,110	2,535	2,122	2,016	2,508	7,770	6,264	8,753	5,842
Reed C.	1,904	1,839	1,837	2,395	3,124	3,050	3,213	1,415	2,607	3,240	5,155
Willamette U.	2,059	1,940	2,652	1,960	1,698	2,007	2,459	3,147	2,723	1,953	1,546
Pennsylvania											
Public											
Indiana U. Pennsylvania	1,376	1,736	1,809	1,280	938	ne	1,241	2,291	6,450	8,119	6,531
Pennsylvania State U., Behrend	3,265	3,183	3,374	3,203	4,282	3,737	5,382	3,804	2,760	3,414	1,743
Pennsylvania State U., Harrisburg	2,734	3,460	2,903	2,230	2,557	3,379	2,558	1,654	2,119	2,805	1,866
Pennsylvania State U., University Park and Hershey Medical Center	770,449	794,846	797,679	837,880	800,773	791,031	825,561	854,815	908,708	949,679	991,923
Temple U.	124,528	134,533	138,318	224,087	224,101	227,468	246,392	268,385	276,011	284,301	299,707
U. Pittsburgh, Pittsburgh	822,491	899,386	866,638	872,736	856,806	861,205	889,793	939,706	1,006,513	1,080,951	1,105,532
West Chester U. Pennsylvania	5,584	8,103	4,591	1,635	2,793	5,009	5,895	7,293	6,340	6,777	6,414
Private											
Bryn Mawr C.	7,476	8,388	9,837	9,452	9,143	11,692	10,867	11,146	10,282	9,846	11,575
Bucknell U.	5,456	5,043	4,009	4,297	4,464	4,140	4,516	4,892	5,269	5,625	5,339
Carnegie Mellon U.	222,790	242,882	255,933	271,277	251,222	242,004	319,168	328,100	331,383	359,720	386,996
Dickinson C.	2,109	2,050	2,167	1,570	1,612	1,492	1,332	869	ne	1,037	929
Drexel U.	118,349	115,020	116,768	123,813	131,170	128,027	127,909	138,577	155,908	149,481	143,123
Duquesne U.	15,804	16,814	15,547	15,661	15,025	16,159	17,089	17,197	17,420	16,947	17,485
Franklin and Marshall C.	3,770	3,439	2,997	3,475	3,105	3,888	3,772	4,385	4,769	5,041	3,623
Gettysburg C.	814	669	ne	ne	ne	ne	ne	1,318	1,539	1,664	913
Haverford C.	3,620	2,765	2,588	2,769	2,546	2,633	2,173	2,442	3,041	3,752	4,473
La Salle U.	1,298	1,460	1,156	1,139	1,039	1,079	989	ne	ne	ne	818

TABLE 67

Higher education R&D expenditures, by state, institutional control, and institution: FYs 2010–20

(Dollars in thousands)

State, institutional control, and institution	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
Lafayette C.	2,089	2,426	1,864	1,947	1,915	1,693	1,553	1,831	1,815	1,554	1,390
Lehigh U.	37,332	32,086	31,992	35,220	37,066	36,788	32,941	36,969	38,674	38,185	38,064
Mercyhurst U.	2,040	1,206	1,539	1,414	1,914	1,987	1,647	1,669	ne	1,801	1,850
Philadelphia C. of Osteopathic Medicine	1,278	2,401	1,898	2,614	2,209	2,561	2,458	2,969	3,059	3,162	3,360
Saint Joseph's U.	2,918	3,073	2,955	2,921	1,988	2,093	2,171	2,409	2,151	2,851	3,150
Swarthmore C.	2,984	2,994	3,281	3,415	3,528	2,943	3,211	3,569	3,921	4,203	3,544
Thomas Jefferson U.	103,064	104,923	100,506	89,273	118,378	119,631	122,396	142,569	148,573	170,458	171,377
U. of the Sciences Philadelphia	1,964	3,504	3,610	3,765	2,922	4,076	3,308	3,980	3,671	3,740	3,761
U. Pennsylvania	836,322	886,036	847,077	828,422	828,350	864,068	1,296,429	1,374,293	1,441,931	1,506,285	1,579,364
Villanova U.	10,066	10,044	8,547	7,049	13,700	14,512	14,903	19,037	20,730	22,837	25,505
Rhode Island											
Public											
Naval War C.	ne	ne	2,938	2,700	2,736	2,653	3,210	4,240	5,270	5,060	5,944
Rhode Island C.	ne	8,027	10,389	10,385	8,938	10,080	9,943	9,030	9,287	9,480	10,094
U. Rhode Island	90,016	102,630	114,323	101,898	91,706	93,828	97,900	101,871	104,490	115,160	109,967
Private											
Brown U.	335,838	344,090	365,120	361,010	341,531	342,040	347,016	212,290	244,838	256,954	266,127
Providence C.	917	758	ne	983	ne	1,329	1,196	1,014	1,215	1,042	1,092
Rhode Island School of Design	ne	551	ne	ne	ne	1,013	1,071	1,086	1,042	1,027	975
Roger Williams U.	1,967	2,627	2,596	2,186	2,558	2,348	2,441	2,952	1,937	1,852	1,531
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	5,728
Citadel Military C. South Carolina	ne	415	ne	ne	ne	ne	ne	ne	ne	ne	1,012
Clemson U.	174,693	166,350	142,096	152,444	161,070	171,215	183,965	193,268	213,458	218,760	228,597
Coastal Carolina U.	2,404	2,162	2,412	2,516	2,166	1,862	1,779	1,893	1,631	2,042	1,903
Medical U. South Carolina	224,632	213,346	236,586	245,451	242,594	243,534	260,098	262,267	282,253	295,600	272,590
South Carolina State U.	7,167	10,037	12,909	12,809	12,709	12,607	13,076	14,300	15,130	3,659	3,796
U. South Carolina, Aiken	337	750	ne	1,309	1,133	1,154	1,445	2,961	2,602	2,481	2,590
U. South Carolina, Columbia	229,145	201,592	214,901	203,365	206,173	208,736	209,271	208,670	206,355	205,940	219,464
Winthrop U.	ne	5,089	7,993	12,495	13,981	10,156	1,993	1,826	2,007	2,189	2,217
Private											
Benedict C.	1,533	3,009	2,754	2,664	2,479	1,373	1,653	1,676	1,934	1,269	649
Claflin U.	3,252	5,439	5,255	2,661	1,818	1,255	1,772	1,360	1,509	1,746	1,910

TABLE 67

Higher education R&D expenditures, by state, institutional control, and institution: FYs 2010–20

(Dollars in thousands)

State, institutional control, and institution	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
Furman U.	2,311	2,184	2,049	2,199	1,600	1,928	1,869	2,051	2,064	1,628	2,101
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	1,499
Dakota State U.	ne	1,015	5,709	1,574	1,446	1,152	2,171	2,284	3,619	3,710	4,412
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	14,490
South Dakota State U.	67,552	69,680	68,743	63,843	58,334	58,373	60,677	63,412	63,465	66,794	60,939
U. South Dakota	30,616	28,959	31,982	33,187	30,700	25,661	25,864	28,358	30,943	32,028	29,279
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	2,833
East Tennessee State U.	9,869	10,249	11,213	8,919	7,836	6,930	7,982	9,493	14,043	14,197	13,925
Middle Tennessee State U.	4,793	4,969	7,108	5,718	4,334	4,350	6,164	4,714	7,132	7,673	8,697
Tennessee State U.	12,432	13,468	15,439	16,177	20,068	19,955	19,520	18,108	17,681	15,236	15,377
Tennessee Technological U.	16,754	13,247	10,233	9,715	10,097	11,082	11,528	12,079	12,765	13,801	14,085
U. Memphis	49,517	48,321	51,194	48,141	55,566	46,675	48,321	49,695	64,297	58,700	69,463
U. Tennessee, Chattanooga	10,749	9,251	10,896	7,844	6,239	6,817	5,600	6,352	7,585	9,280	10,834
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	99,716
U. Tennessee, Knoxville ^c	150,671	167,456	179,252	193,054	179,041	173,533	183,268	203,800	259,607	247,693	320,407
Private											
Fisk U.	7,700	4,849	4,058	6,565 ⁱ	9,073	9,854 ⁱ	10,635	5,017	2,790	4,748	3,904
Lipscomb U.	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	1,000 ⁱ
Meharry Medical C.	27,001	29,055	25,559	22,532	18,997	13,998	14,768	16,782	16,980	18,286	13,870
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	824,803
Texas											
Public											
Lamar U.	5,829	4,762	3,589	2,605	2,447	2,824	2,783	3,883	3,595	4,848	4,327
Midwestern State U.	348	ne	ne	ne	ne	ne	ne	ne	ne	ne	891
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	18,723
Sam Houston State U.	7,555	5,816	4,349	4,608	3,996	3,086	3,266	3,658	7,152	9,445	12,437
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	3,672
Sul Ross State U.	3,039	3,183	2,375	2,159	2,528	2,204	2,015	2,500	2,934	2,352	2,068

TABLE 67

Higher education R&D expenditures, by state, institutional control, and institution: FYs 2010–20

(Dollars in thousands)

State, institutional control, and institution	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
Tarleton State U.	10,763	10,426	9,393	9,722	10,996	9,825	9,404	10,893	12,503	13,171	14,890
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	3,067
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	1,130,803
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	4,166
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	32,284
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	22,745
Texas Southern U.	7,003	6,318	6,380	6,548	6,038	5,005	4,495	4,722	3,740	4,893	4,782
Texas State U.	30,560	33,487	36,664	37,053	39,265	47,694	54,298	60,741	64,322	64,554	70,714
Texas Tech U.	133,360	149,399	138,026	142,676	159,308	163,897	172,521	191,482	185,742	193,923	199,643
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	44,135
Texas Tech U., Health Sciences Center, El Paso	ne	ne	ne	ne	23,282	18,889	17,391	16,479	12,556	11,883	10,421
Texas Woman's U.	2,271	2,919	4,129	2,704	2,650	2,310	3,014	4,073	4,822	4,477	4,135
U. Houston	119,811	113,709	116,288	130,844	140,597	150,628	162,049	169,431	177,484	195,398	200,428
U. Houston-Clear Lake	1,279	1,746	1,769	1,542	1,716	1,535	1,578	1,779	1,251	1,370	1,363
U. Houston-Downtown	1,013	1,351	2,267	1,444	2,414	2,459	1,784	2,397	2,508	2,216	2,299
U. North Texas, Denton	31,496	42,475	46,943	49,518	44,180	43,628	37,106	43,789	44,025	78,691	84,239
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	47,392
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	273,862
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	202,572
U. Texas Health Science Center, Tyler	ne	ne	ne	ne	ne	12,191	11,799	16,292	17,949	19,606	21,265
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	1,051,297
U. Texas Medical Branch	188,399	193,555	180,888	180,198	178,014	173,506	179,541	185,106	181,831	175,372	180,595
U. Texas of the Permian Basin	1,417	1,232	1,707	1,146	1,532	1,725	1,561	1,152	668	ne	2,105
U. Texas Rio Grande Valley	na	na	na	na	na	na	31,007	29,500	27,125	52,016	56,702
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	595,939
U. Texas, Arlington	71,414	72,483	78,556	86,735	89,175	77,798	87,386	97,197	105,688	123,858	133,793
U. Texas, Austin	589,502	632,171	621,538	634,132	585,251	604,376	621,692	652,187	679,781	696,111	797,199

TABLE 67

Higher education R&D expenditures, by state, institutional control, and institution: FYs 2010–20

(Dollars in thousands)

State, institutional control, and institution	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
U. Texas, Dallas	82,044	93,230	90,700	98,842	99,727	98,551	106,205	113,205	113,315	126,661	132,192
U. Texas, El Paso	68,870	74,069	79,649	83,249	79,537	89,418	91,330	94,565	91,032	106,809	108,628
U. Texas, San Antonio	56,279	58,667	57,233	53,626	47,061	54,949	59,831	70,163	72,682	84,326	138,586
U. Texas, Tyler	5,679	2,766	8,520	5,317	6,894	4,610	2,844	1,837	1,828	2,063	2,007
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	6,220
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	685,641
Baylor U.	10,925	12,343	10,161	13,616	20,729	24,642	26,767	29,400	31,936	33,304	39,765
Rice U.	97,903	110,235	117,223	131,003	138,536	144,679	154,543	167,277	161,831	182,564	198,681
Southern Methodist U.	18,742	24,453	24,397	22,544	32,401	29,282	31,819	29,879	31,140	42,562	43,081
St. Edward's U.	ne	7,160	5,906	8,040	3,975	9,515	9,325	10,149	10,431	9,650	9,619
Texas Christian U.	5,306	5,595	7,775	8,574	7,872	8,007	6,589	7,255	5,808	6,552	15,326
Trinity U.	1,446	1,355	1,611	3,094	2,992	2,633	2,383	3,274	3,244	3,736	3,472
U. of the Incarnate Word	ne	667	ne	ne	ne	848	ne	ne	1,338	1,800	1,469
Utah											
Public											
U. Utah	379,200	414,316	430,056	494,058	486,140	518,928	350,212	380,295	552,306	601,133	607,061
Utah State U.	149,169	174,167	157,355	158,352	169,605	175,353	180,590	187,314	219,397	283,917	304,256
Weber State U.	983	1,314	990	ne	ne	ne	ne	ne	ne	ne	676
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	38,569
Vermont											
Public											
U. Vermont	129,856	132,356	115,697	115,486	109,701	114,547	115,611	117,667	128,293	135,859	191,147
Private											
Middlebury C.	2,292	2,408	3,031	2,179	1,450	1,599	1,822	2,043	1,895	1,657	1,720
Saint Michael's C.	644	734	ne	1,620	1,541	1,532	1,624	1,415	1,482	1,200	957
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	2,608
Eastern Virginia Medical School	44,420	36,569	37,745	44,183	43,917	42,296	32,550	28,671	30,010	27,064	20,870
George Mason U.	84,120	88,089	90,198	95,913	98,680	106,410	108,899	112,404	149,138	186,267	221,006
James Madison U.	7,038	7,303	8,891	5,835	4,628	3,712	3,303	3,248	4,191	8,726	10,247
Norfolk State U.	5,944	7,140	8,336	6,431	6,936	5,348	7,593	7,296	6,914	8,050	7,153
Old Dominion U.	97,176	102,192	104,579	99,138	67,037	65,092	70,054	67,990	60,321	67,425	65,704

TABLE 67

Higher education R&D expenditures, by state, institutional control, and institution: FYs 2010–20

(Dollars in thousands)

State, institutional control, and institution	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
Public											
U. Wisconsin-Eau Claire	1,950	1,406	1,362	1,235	915	ne	1,238	1,641	1,227	1,530	1,318
U. Wisconsin-Green Bay	1,219	1,239 i	1,259 i	1,279 i	1,299 i	1,320	1,599	1,510	1,454	2,083	1,982
U. Wisconsin-La Crosse	4,141	3,862 i	3,583	3,796	3,424	3,615	3,211	3,187	3,569	2,692	2,795
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	1,363,931
U. Wisconsin-Milwaukee	71,181	65,648	61,771	56,587	60,752	63,414	59,813	54,181	55,771	53,773	61,069
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	1,777 i
U. Wisconsin-Platteville	681	715 i	ne	ne	1,000 i	970 i	ne	1,068 i	ne	1,084 i	1,104 i
U. Wisconsin-River Falls	441	551 i	ne	ne	ne	ne	ne	1,072	923	ne	1,107
U. Wisconsin-Stevens Point	6,766	6,171 i	5,576	4,392	3,919 i	3,446 i	2,973	3,420 i	3,867 i	4,314 i	4,764
U. Wisconsin-Superior	5,890	6,187 i	6,041 i	ne	3,030 i	ne	ne	ne	3,068	2,250	2,301
Private											
Marquette U.	14,310	19,876	18,606	20,856	23,633	24,816	28,422	30,034	32,471	37,777	37,136
Medical C. Wisconsin	191,816	215,358	209,040	201,237	199,713	199,283	199,925	209,618	229,436	251,300	264,325
Milwaukee School of Engineering	3,944	4,472	4,635	4,376	4,410	4,524	3,930	3,374	3,232	4,026	3,190
Wyoming											
Public											
U. Wyoming	55,319	57,549	65,611	65,490	51,422	56,996	112,056	125,032	113,063	80,353	93,061
Guam											
Public											
U. Guam	5,555	5,626	6,131	6,043	7,075	6,062	7,402	8,842	11,225	12,249	13,043
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	1,974
U. Puerto Rico, Humacao	1,971 i	1,976	1,949	1,455	1,145	784	ne	ne	1,168	1,195	1,456
U. Puerto Rico, Mayaguez	26,475	34,424	32,115	29,225	27,152	28,100	25,491	26,130	24,769	26,877	26,553
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	37,217
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	22,895
Private											
Polytechnic U. Puerto Rico	ne	360	ne	ne	ne	ne	ne	ne	ne	2,118	813
Ponce Health Sciences U.	8,934	10,502	11,586	7,241	5,710	7,520	7,992	8,664	7,857	11,390	13,566
U. Ana G. Mendez, Carolina	1,372	1,358	1,480	1,558	1,374	1,174	1,207	1,359	865	ne	647
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	2,049

TABLE 67

Higher education R&D expenditures, by state, institutional control, and institution: FYs 2010–20

(Dollars in thousands)

State, institutional control, and institution	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
U. Central del Caribe	7,122	7,515	7,313	7,095	7,181	6,964	7,090	5,634	4,111	3,953	3,931
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	13,631

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.

^a 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.

^b Johns Hopkins University includes the Applied Physics Laboratory, with \$1,909,094 thousand in total R&D expenditures in FY 2020.

^c The University of Tennessee, Knoxville includes expenditures from the University of Tennessee Institute of Agriculture. Due to a reorganization within the University of Tennessee system, the Institute of Agriculture now falls under the leadership of the University of Tennessee, Knoxville chancellor. Prior to FY 2020, the University of Tennessee, Knoxville, Institute of Agriculture reported to the survey separately.

Source(s):

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