

TABLE 68

Higher education R&D expenditures, by state, institutional control, and institution: FYs 2010–23

(Dollars in thousands)

State, institutional control, and institution	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023
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	9,180	i 9,611	15,588
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	2,631	3,178	3,229
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	266,374	304,439	349,273
Troy U.	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	1,692	1,548	2,517	3,785
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	644,330	713,480	780,479
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	149,792	169,532	163,428
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	129,509	163,204	184,880
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	47,610	43,491	53,182
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	21,355	21,941	25,625
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	21,332	21,024	19,850
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	172,957	202,516	218,041
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	1,176	1,570	1,822
Private														
Alaska Pacific U.	434	518	ne	ne	ne	1,246	1,358	1,248	1,544	1,774	1,261	1,036	1,607	1,823
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	677,303	797,224	903,779
Dine C.	ne	959	i ne	ne	ne	ne	ne	ne	1,238	1,126	347	ne	2,091	3,054
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	69,129	66,729	77,533
U. Arizona	586,647	610,565	625,365	629,466	588,088	606,219	604,464	622,200	687,066	734,270	760,975	770,031	824,340	955,424
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	8,422	8,214	7,323
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	194,709	205,493	209,409
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	164,443	184,080	221,525
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	7,397	7,530	8,685
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	8,713	7,506	7,766
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	3,990	3,684	3,092
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	25,953	33,155	35,830

TABLE 68

Higher education R&D expenditures, by state, institutional control, and institution: FYs 2010–23

(Dollars in thousands)

State, institutional control, and institution	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023
California State Polytechnic U., Humboldt	9,845	9,570	9,510	8,025	8,306	11,218	16,143	15,969	15,044	15,076	14,236	14,103	15,612	18,800
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	7,011	7,909	10,722
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	6,253	4,815	6,409
California State U., Channel Islands	ne	524	ne	1,236	3,862	1,949	1,383	1,096	1,248	1,572	1,497	2,341	3,377	3,992
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	4,209	4,177	5,984
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	2,065	2,690	4,230	5,558
California State U., East Bay	1,312	1,644	1,039	934	ne	ne	837	ne	ne	ne	9,072	10,852	19,035	21,312
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	9,213	12,603	11,411
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	9,006	16,642	25,811
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	18,664	16,684	15,134	17,807	21,458
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	9,382	9,839	10,186
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	6,882	8,975	10,678
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	16,573	19,638	23,093
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	23,699	23,795	28,027
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	11,607	11,929	13,152
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	10,595	13,250	10,213	9,238	11,443
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	2,085	1,966	2,305
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	65,101	64,055	77,364
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	107,681	129,762	158,013
San Francisco State U.	25,615	26,198	30,291	33,885	29,457	26,345	28,273	29,940	30,903	31,888	33,828	i 35,768	36,617	34,466
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	60,100	71,695	83,406
Sonoma State U.	858	825	ne	1,938	1,714	1,163	693	ne	ne	ne	1,545	2,957	3,774	4,625
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	846,872	981,035	1,076,754
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	817,409	883,807	962,399
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	523,752	534,947	609,614
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	1,454,880	1,536,197	1,721,665
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	45,964	48,147	62,279
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	50,848	54,640	63,629
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	189,600	199,135	214,802
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	1,425,499	1,533,357	1,705,410
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	1,710,036	1,805,950	2,046,539
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	248,961	278,897	305,483
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	160,615	176,760	203,883
Private														
Azusa Pacific U.	ne	3,620	2,056	i ne	ne	7,521	8,898	8,430	8,380	5,598	7,068	5,318	3,389	6,097
Biola U.	ne	ne	ne	ne	ne	ne	2,418	i 2,499	i 2,622	i 2,792	i 2,868	i 3,003	i 3,260	1,461

TABLE 68

Higher education R&D expenditures, by state, institutional control, and institution: FYs 2010–23

(Dollars in thousands)

State, institutional control, and institution	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023
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	438,624	478,142	490,672
Chapman U.	3,830	3,547	3,314	4,463	4,794	5,353	6,554	10,626	14,141	19,592	26,660	25,820	34,212	41,791
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	13,228	14,581	19,551
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	7,235	8,382	7,262
Claremont McKenna C.	5,725	5,316	5,365	i 5,414	i 5,463	ne	6,094	5,818	5,693	6,214	5,846	4,515	5,893	6,925
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	2,359	3,350	3,682
High Tech High Graduate School of Ed.	ne	ne	ne	ne	ne	ne	ne	ne	861	ne	3,304	5,032	6,203	5,939
Keck Graduate Institute	ne	2,313	1,920	2,357	2,132	1,722	1,660	i 1,598	i 1,536	i 1,474	i 1,412	i 1,350	i 1,282	4,059
La Sierra U.	ne	732	ne	ne	1,057	1,165	1,255	2,202	2,227	1,581	1,647	1,517	2,246	2,496
Loma Linda U.	35,990	39,409	31,772	31,715	23,375	25,519	22,977	21,846	19,892	i 17,938	i 15,984	i 14,029	15,517	22,262
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	12,819	12,773	14,086
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	i 1,351	i 1,559	i 1,777
Occidental C.	2,289	1,809	1,592	1,634	2,177	1,544	2,008	1,764	1,445	2,458	2,657	3,587	4,139	i 4,718
Pepperdine U.	2,672	1,924	2,571	2,400	2,401	2,714	3,178	2,396	1,954	2,170	2,006	2,655	3,775	10,632
Pomona C.	2,924	3,640	3,259	3,679	3,818	3,538	3,691	3,205	2,983	2,985	2,855	2,146	2,589	4,149
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	3,142	4,225	5,679
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	485,435	492,639	494,946
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	1,274,483	1,384,555	1,537,846
Touro U., California	1,221	1,779	2,237	2,155	3,067	3,106	3,466	3,122	3,233	3,543	3,551	3,489	2,561	2,877
U. of the Pacific	6,120	4,704	5,291	4,563	4,088	2,734	3,013	2,155	3,014	3,078	1,713	1,371	1,835	1,972
U. San Diego	2,934	3,483	4,275	4,554	5,146	4,476	4,734	5,089	5,642	6,036	8,607	7,580	10,143	12,902
U. San Francisco	2,124	2,668	4,301	2,663	2,764	2,599	2,365	2,602	2,741	2,712	2,161	1,375	2,657	9,633
U. Southern California	592,791	603,294	623,544	645,636	687,222	691,031	702,866	764,322	891,625	909,683	941,198	955,565	1,039,905	1,154,804
Western U. of Health Sciences	1,786	1,768	3,005	3,721	5,474	4,904	6,895	6,187	5,140	4,951	5,899	6,688	9,029	8,929
Colorado														
Public														
Colorado School of Mines	44,879	48,704	58,836	59,091	59,695	58,349	60,931	59,477	60,372	70,397	78,517	81,443	98,404	104,297
Colorado State U., Fort Collins	302,896	330,784	375,919	313,238	307,978	317,219	331,862	338,404	374,955	398,477	407,302	447,197	456,911	498,073
Colorado State U., Pueblo	413	364	ne	ne	ne	ne	ne	ne	ne	3,107	3,104	2,990	3,117	1,624
Fort Lewis C.	392	606	ne	ne	ne	ne	ne	ne	ne	1,460	1,370	1,926	2,765	3,372
U. Colorado Anschutz Medical Campus ^a	na	na	na	na	na	na	na	na	na	na	na	562,855	611,358	686,026
U. Colorado Boulder	349,449	390,677	392,004	385,849	379,475	420,775	453,123	499,389	514,573	513,822	525,674	547,724	611,380	651,924
U. Colorado Colorado Springs	9,088	7,425	4,727	4,721	5,363	6,988	6,812	6,680	5,976	4,720	5,557	5,338	7,761	7,012
U. Colorado Denver ^a	na	na	na	na	na	na	na	na	na	na	na	18,039	18,080	22,530
U. Northern Colorado	2,607	2,078	2,896	3,034	4,176	3,652	4,028	4,538	5,089	4,571	3,738	3,159	3,308	9,064
U.S. Air Force Academy	62,097	73,607	56,044	57,164	44,663	38,326	55,358	48,287	35,925	43,941	42,197	32,086	36,506	44,880

TABLE 68

Higher education R&D expenditures, by state, institutional control, and institution: FYs 2010–23

(Dollars in thousands)

State, institutional control, and institution	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023
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	47,124	50,636	65,159
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	58,471	61,748	77,593
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	8,197	9,896	24,899
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	246,075	281,665	306,434
Florida Polytechnic U.	na	na	na	na	na	212	ne	ne	ne	2,006	1,091	1,269	1,725	2,260
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	328,604	355,986	414,463
New C. Florida	660	1,046	945	ne	897	ne	ne	998	ne	ne	ne	ne	ne	1,080
U. Central Florida	117,985	109,190	116,891	126,681	185,555	215,519	198,211	200,387	215,332	225,085	213,757	218,596	221,488	247,259
U. Florida	681,548	739,931	696,985	695,063	708,526	739,522	791,294	801,418	865,093	928,639	942,223	959,965	1,085,834	1,250,201
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	15,782	18,394	23,269
U. South Florida ^b	385,029	394,963	443,206	459,409	488,641	485,354	505,965	557,889	385,686	391,325	333,344	385,965	405,166	461,390
U. West Florida	17,757	21,710	16,221	19,332	19,579	31,232	40,815	35,054	41,035	38,555	37,397	36,837	38,870	40,454
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	19,830	28,650	27,451
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	23,195	17,706	16,859
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	24,513	31,189	50,173
U. Miami	280,671	323,486	365,301	344,757	345,805	331,036	358,441	367,877	357,104	360,716	381,410	375,841	439,300	509,951
Georgia														
Public														
Albany State U.	740	1,416	2,225	1,658	1,549	1,356	1,496	1,393	1,301	1,491	1,060	880	ne	1,932
Augusta U.	na	na	na	64,033	64,118	67,737	71,338	99,661	99,081	96,502	103,961	116,480	127,313	139,121
Fort Valley State U.	5,310	3,850	3,665	3,688	4,547	4,320	5,138	5,374	3,916	4,563	4,921	4,842	9,969	15,536
Georgia Institute of Technology	615,833	655,375	688,905	730,488	725,550	765,370	790,706	804,301	891,728	960,167	1,048,988	1,114,481	1,231,485	1,405,080
Georgia Southern U.	3,704	3,912	5,719	18,069	20,245	17,152	17,395	16,084	12,978	11,166	12,166	37,201	36,362	40,026
Georgia State U.	81,015	92,725	91,148	111,999	123,915	139,596	161,314	200,171	201,235	195,572	202,451	206,472	215,908	237,493
Kennesaw State U.	1,854	1,961	3,511	5,062	2,192	4,762	8,279	9,510	11,214	12,850	17,954	18,880	21,705	32,497
Savannah State U.	1,874	2,700	1,996	2,613	2,210	1,801	2,267	1,407	1,793	1,720	1,804	1,804	1,888	1,706
U. Georgia	295,339	335,901	351,395	350,225	355,471	374,264	410,345	455,432	453,249	477,536	482,786	493,944	545,631	570,956
U. North Georgia	ne	ne	ne	ne	ne	ne	ne	2,064	2,465	2,068	1,905	1,415	1,734	1,643
Private														
Clark Atlanta U.	8,515	8,245	10,406	9,159	9,192	9,945	8,513	8,007	7,833	9,048	8,452	8,892	8,791	10,320
Emory U.	529,453	547,316	565,766	575,943	558,600	585,210	614,527	664,888	712,417	794,928	808,792	852,922	958,281	1,094,328
Mercer U.	27,298	29,039	31,376	28,892	30,209	32,838	31,735	29,447	34,197	44,128	49,116	51,989	50,222	45,247
Morehouse C.	7,857	8,485	9,113	9,581	7,349	6,180	4,315	3,667	4,531	4,564	4,825	4,533	5,664	5,750
Morehouse School of Medicine	30,669	33,946	37,586	36,638	41,858	33,367	38,774	36,925	33,215	31,289	29,813	32,637	42,489	57,125

TABLE 68

Higher education R&D expenditures, by state, institutional control, and institution: FYs 2010–23

(Dollars in thousands)

State, institutional control, and institution	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023
Spelman C.	3,181	2,273	2,148	1,602	1,595	1,524	1,929	2,079	2,350	2,751	2,750	2,282	2,686	4,877
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	6,992	7,411	8,001	8,112
U. Hawaii, Manoa	303,085	318,316	312,311	326,750	324,342	316,497	304,476	292,021	276,388	280,416	275,929	271,768	277,323	313,143
U. Hawaii, Maui C.	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	967	ne	1,376
U. Hawaii, system office	ne	ne	ne	ne	ne	ne	ne	ne	12,340	12,159	13,568	12,918	12,646	14,172
Private														
Hawaii Pacific U.	ne	1,436	1,390	1,043	1,524	1,241	2,371	2,175	2,114	1,980	1,796	1,849	3,302	2,913
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	43,307	46,065	47,617	52,989
Idaho State U.	20,495	21,450	21,179	22,147	20,610	17,866	20,447	18,564	18,081	14,972	14,478	13,953	16,615	17,548
U. Idaho	87,207	96,229	97,227	95,891	95,594	97,493	102,457	109,537	111,590	113,107	112,810	105,895	115,603	135,901
Illinois														
Public														
Chicago State U.	1,598	2,014	565	ne	ne	ne	910	ne	1,154	898	ne	ne	3,701	3,756
Illinois State U.	18,417	17,833	17,760	17,589	19,159	18,742	20,408	20,080	21,055	27,082	31,539	24,152	25,510	32,961
Northeastern Illinois U.	711	533	ne	ne	703	ne	ne	1,403	2,442	2,478	2,018	1,913	2,224	2,262
Northern Illinois U.	27,036	21,748	21,823	23,027	16,427	17,722	21,225	19,150	23,280	26,570	25,420	25,261	27,068	29,134
Southern Illinois U., Carbondale	69,924	71,130	71,097	70,854	65,256	57,509	53,172	48,416	49,636	41,729	41,617	47,210	46,967	58,291
Southern Illinois U., Edwardsville	31,781	33,736	26,992	25,807	18,915	19,051	18,780	17,393	18,420	18,088	18,273	18,044	19,152	21,927
U. Illinois, Chicago	362,939	380,828	388,625	367,848	347,888	354,560	337,296	372,619	361,690	382,949	412,147	429,585	440,573	492,936
U. Illinois, Springfield	2,096	2,002	2,370	2,276	1,916	2,070	1,683	2,900	2,164	1,876	3,406	2,612	2,881	2,508
U. Illinois, Urbana-Champaign	515,133	545,669	583,754	743,487	621,733	639,817	625,180	642,084	652,709	677,523	689,176	731,268	765,909	821,023
Western Illinois U.	1,221	1,528	4,514	1,983	1,349	860	ne	2,006	2,466	2,373	2,461	3,532	4,311	3,824
Private														
DePaul U.	4,889	5,798	5,706	5,524	6,415	9,479	9,558	8,561	7,079	6,144	6,557	6,675	8,362	13,267
Erikson Institute	ne	1,212	2,511	2,001	1,321	2,397	3,117	3,965	3,583	2,279	1,992	1,723	2,068	2,414
Illinois Institute of Technology	36,554	44,463	32,576	36,722	31,356	34,336	29,826	32,659	33,280	34,334	29,122	29,698	29,791	33,021
Loyola U., Chicago	43,903	42,708	45,903	51,676	50,774	48,664	42,672	39,738	39,332	39,223	39,365	44,036	46,169	52,445
Midwestern U.	3,626	4,022	5,200	6,292	7,310	8,560	7,732	9,207	10,173	10,343	10,479	10,961	11,069	12,725
Northwestern U.	575,078	618,980	631,078	639,781	645,333	656,167	713,491	751,809	805,672	857,069	874,671	913,178	1,000,695	1,114,269
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	14,601	13,805	12,988	11,629
Rush U.	73,398	79,212	80,300	81,770	80,551	79,048	73,351	74,062	89,101	96,267	94,438	107,398	114,874	132,394
Toyota Technological Institute, Chicago	ne	746	ne	ne	ne	2,543	2,710	2,880	3,251	3,681	5,887	4,967	4,470	4,636

TABLE 68

Higher education R&D expenditures, by state, institutional control, and institution: FYs 2010–23

(Dollars in thousands)

State, institutional control, and institution	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023
U. Chicago	437,721	453,562	419,631	402,621	390,082	412,536	420,997	433,328	423,993	459,171	458,891	497,651	591,805	628,302
Wheaton C., Wheaton	ne	1,187	844	ne	1,302	783	ne	1,270	1,751	2,173	1,322	729	ne	2,403
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	9,429	8,826	9,932	11,650
Indiana State U.	1,541	1,980	1,857	1,238	1,436	1,541	1,763	1,284	1,323	1,682	1,471	1,042	1,354	1,327
Indiana U., Bloomington	177,520	184,096	184,486	197,897	206,039	485,076	508,766	540,421	566,907	668,157	710,850	695,258	751,309	853,056
Indiana U., South Bend	1,070	1,099	1,219	1,410	1,565	1,619	1,474	1,039	958	ne	ne	898	ne	1,593
Indiana U.-Purdue U., Indianapolis	296,194	322,617	316,914	332,760	324,261	55,973	57,853	58,056	60,501	67,635	70,778	65,330	64,162	87,648
Purdue U., Fort Wayne	8,523	8,864	8,570	8,128	7,882	7,052	5,952	5,254	4,945	2,416	2,264	2,495	2,134	2,804
Purdue U., Northwest	na	na	na	na	na	na	na	8,924	8,062	5,272	5,839	5,647	6,387	7,504
Purdue U., West Lafayette	548,980	578,231	602,501	595,739	564,923	558,611	606,302	622,813	631,574	663,927	687,144	679,482	754,627	844,570
Private														
Butler U.	ne	610	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	1,691	1,396
Marian U., Indianapolis	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	3,009
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	240,324	280,604	331,943
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	360,275	393,184	420,823
U. Iowa	444,034	443,893	446,429	435,377	449,147	443,218	473,362	494,280	511,973	508,353	538,583	553,876	594,215	662,134
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	3,259	3,486	4,564
Private														
Des Moines U.	855	924	ne	ne	929	ne	1,401	1,416	1,423	1,954	5,021	5,164	i	5,307
Drake U.	1,033	966	ne	918	ne	ne	1,558	1,215	1,103	865	ne	1,488	1,691	1,724
Grinnell C.	2,069	1,340	2,735	4,023	3,974	3,723	4,183	4,953	5,573	5,500	5,826	4,122	5,867	7,597
Palmer C. of Chiropractic, Davenport	4,693	4,861	4,507	3,774	2,736	i	1,698	1,510	1,836	1,600	1,650	1,900	2,233	1,725
Kansas														
Public														
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	203,846	212,974	217,992
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	2,730	2,884	2,979
U. Kansas	267,961	274,727	286,262	298,498	301,534	311,383	297,933	300,319	339,046	352,643	368,811	385,637	405,267	466,222
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	192,042	261,519	366,848
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	986	ne	1,446
Kentucky State U.	4,912	4,562	6,859	5,605	5,694	6,017	7,178	8,151	i	9,125	8,433	7,963	8,756	9,284

TABLE 68

Higher education R&D expenditures, by state, institutional control, and institution: FYs 2010–23

(Dollars in thousands)

State, institutional control, and institution	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023
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	1,754	2,880	2,658
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	3,844	3,371	3,193
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	3,403	3,888	3,790
U. Kentucky	359,944	372,932	360,776	339,764	328,239	331,705	349,661	378,374	393,034	410,581	417,674	429,241	476,517	504,005
U. Louisville	189,090	197,438	196,842	186,772	183,376	163,262	172,907	177,588	176,655	177,862	198,818	200,362	229,582	220,568
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	6,944	7,720	9,298
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	2,124	1,287	449
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	296,673	344,556	384,268
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	44,370	53,995	68,707
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	24,600	29,502	35,624
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	27,417	26,591	31,676
Northwestern State U. Louisiana	1,464	1,189	1,102	1,022	792	ne	1,628	1,373	1,623	2,058	1,940	1,663	1,848	2,057
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	1,723	2,407	2,858
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	5,296	5,448	4,475	6,164	7,048	7,764
Southern U. and A&M C., Baton Rouge	6,865	6,819	6,773	4,920	4,812	4,766	4,322	4,043	4,171	4,492	3,849	4,943	4,344	5,201
Southern U., New Orleans	402	706	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	1,004
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	181,400	205,201	225,924
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	2,198	3,128	2,203
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	16,979	21,911	20,396
Private														
Dillard U.	8,425	7,936	7,448	7,741	6,939	9,387	9,566	7,095	6,573	2,772	2,523	2,528	2,270	2,296
Tulane U.	165,513	171,703	164,373	160,414	157,825	152,658	165,438	180,993	193,294	196,933	204,430	205,206	222,605	258,439
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	12,799	14,156	15,519
Maine														
Public														
U. Maine	111,282	111,600	92,135	77,583	101,247	79,500	79,222	99,502	106,694	129,913	134,183	146,801	171,931	188,690
U. Southern Maine	16,358	16,938	13,915	11,725	9,408	7,091	4,773	7,147	7,414	6,654	5,635	5,480	5,498	5,930
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	2,620	2,468	2,118
Bowdoin C.	2,627	2,877	4,732	4,292	3,126	2,991	3,204	2,340	2,724	2,991	2,719	2,417	2,648	3,339
Colby C.	1,782	1,772	1,996	1,822	1,673	1,748	1,903	2,071	2,240	1,852	1,536	1,672	2,530	4,454
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	6,234	6,664	6,756

TABLE 68

Higher education R&D expenditures, by state, institutional control, and institution: FYs 2010–23

(Dollars in thousands)

State, institutional control, and institution	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023
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	1,398	3,351	2,612
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	20,628	29,482	43,868
Salisbury U.	3,503	1,852	6,891	6,959	7,923	7,960	8,473	7,731	9,119	9,368	9,496	10,552	10,614	14,557
St. Mary's C. Maryland	342	427	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	205
Towson U.	3,052	3,574	2,599	2,800	2,997	3,153	2,303	2,834	3,194	3,423	3,612	3,794	8,788	17,198
U. Baltimore	4,229	5,944	5,556	5,448	4,990	5,022	5,798	6,851	10,556	12,451	15,054	14,672	6,646	6,615
U. Maryland ^c	na	na	na	na	na	na	na	na	na	1,096,600	1,103,062	1,142,264	1,228,550	1,385,302
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	51,201	53,718	53,233
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	84,418	110,319	144,262
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	8,636	9,274	10,730
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	10,818	10,664	10,920
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	384,490	277,240	496,441
Private														
Johns Hopkins U. ^d	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	3,181,385	3,420,312	3,801,585
Massachusetts														
Public														
Framingham State U.	ne	ne	ne	ne	ne	ne	ne	1,901	164	ne	2,317	1,790	1,263	735
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	213,824	245,158	268,657
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	63,723	65,215	70,978
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	28,729	33,136	42,018
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	94,708	111,144	117,336
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	347,337	358,204	326,731
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	4,636	7,177	8,152
Babson C.	ne	696	ne	ne	ne	ne	2,108	1,849	1,917	1,845	2,352	1,286	1,825	1,957
Bentley U.	ne	ne	ne	ne	ne	ne	ne	562	ne	ne	ne	ne	1,161	1,589
Boston C.	50,537	52,253	51,442	50,702	49,724	47,761	54,469	58,088	57,030	61,956	63,063	65,156	68,958	81,425
Boston U.	352,817	355,916	334,496	368,281	367,328	388,336	395,921	421,360	484,205	534,205	583,267	652,096	725,402	773,200
Brandeis U.	71,006	74,889	74,660	76,060	74,992	74,700	73,435	68,437	61,639	60,825	91,355	95,001	102,378	103,653
Clark U.	7,111	6,861	7,260	5,693	6,168	7,050	6,970	8,453	8,318	10,193	10,277	7,931	8,813	11,539
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	1,627	2,554	2,450
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	1,254,008	1,308,458	1,435,218
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	949,076	989,166	1,000,081
Merrimack C.	ne	ne	ne	ne	ne	ne	ne	ne	796	ne	503	ne	ne	1,560

TABLE 68

Higher education R&D expenditures, by state, institutional control, and institution: FYs 2010–23

(Dollars in thousands)

State, institutional control, and institution	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023
MGH Institute of Health Professions	ne	607	ne	ne	ne	3,931	2,548	2,282	3,328	4,130	3,549	3,037	5,805	7,426
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	2,026	2,112	2,533
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	1,978	1,868	2,491
Northeastern U.	79,949	86,783	107,862	116,088	116,245	122,915	129,040	142,349	166,711	183,998	200,068	211,342	231,607	288,558
Smith C.	4,613	4,529	4,246	4,234	4,283	5,268	4,466	6,055	5,954	6,041	4,685	4,085	5,831	5,954
Suffolk U.	ne	1,624	1,303	1,551	1,534	1,305	1,492	i 1,679	i ne	ne	2,106	2,043	1,401	5,164
Tufts U.	156,106	156,395	160,922	156,525	160,825	168,314	189,085	223,409	213,457	213,285	216,241	224,956	231,224	247,276
Wellesley C.	8,422	7,242	8,439	9,113	10,127	9,595	11,664	10,326	11,530	8,810	8,088	6,252	6,326	6,320
Western New England U.	ne	1,111	483	ne	ne	ne	1,291	610	ne	ne	ne	ne	2,052	1,115
Williams C.	4,691	4,513	4,518	3,857	4,440	5,679	5,747	5,227	5,506	5,188	4,924	i 4,902	i 5,657	i 6,448
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	262,048	255,017	287,825
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	48,702	56,904	66,353
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	21,726	25,105	25,363
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	7,233	8,025	8,363
Ferris State U.	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	1,915
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	6,809	6,695	6,231
Lake Superior State U.	ne	752	ne	ne	ne	1,170	1,039	1,067	633	ne	ne	ne	2,056	2,545
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	710,178	759,229	844,076
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	81,715	91,084	103,819
Northern Michigan U.	910	841	ne	ne	ne	ne	1,118	1,339	1,728	1,520	1,523	1,364	1,888	1,871
Oakland U.	12,856	15,868	18,194	16,767	15,196	17,108	16,001	14,561	13,817	18,002	12,949	20,261	38,061	37,263
Saginaw Valley State U.	873	1,249	1,094	939	ne	1,220	1,190	1,406	1,640	2,818	2,343	2,428	i 2,862	i 3,143
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	1,639,645	1,770,708	1,925,875
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	7,472	8,180	10,839
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	235,519	242,247	250,911
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	25,314	27,768	45,157
Private														
Albion C.	ne	799	ne	ne	ne	ne	ne	1,074	1,055	1,040	1,132	847	i 562	i 276
Andrews U.	1,195	854	ne	ne	ne	ne	ne	ne	ne	1,126	1,033	802	ne	1,255
Calvin U.	5,010	3,113	3,252	3,466	3,051	2,430	i 1,809	1,456	1,937	1,577	2,107	i 2,637	i 3,169	2,555
Hope C.	3,596	4,185	3,376	3,559	3,016	2,932	2,811	3,225	3,179	2,745	3,822	5,211	6,355	6,910
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	1,764	3,050	4,632
U. Detroit Mercy	1,148	1,462	970	ne	1,320	1,882	3,654	2,748	4,605	5,210	4,786	4,578	5,186	5,142
Van Andel Research Institute	ne	ne	ne	ne	ne	40,502	40,040	44,578	55,171	61,738	58,982	65,789	78,626	80,748

TABLE 68

Higher education R&D expenditures, by state, institutional control, and institution: FYs 2010–23

(Dollars in thousands)

State, institutional control, and institution	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023
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	166,285	193,577	200,820	229,682
Montana Technological U.	7,424	6,705	11,765	11,059	11,348	11,595	11,851	13,059	12,666	12,731	12,987	14,933	14,188	18,375
U. Montana, Missoula	63,540	60,159	59,313	60,189	55,032	60,485	70,059	85,044	90,563	104,665	110,218	121,571	125,603	133,958
Nebraska														
Public														
U. Nebraska, Kearney	1,655	2,199	1,715	1,761	1,504	1,496	1,864	3,510	2,639	2,919	2,640	3,201	4,009	3,681
U. Nebraska, Lincoln and Medical Center ^e	na	na	na	na	na	na	na	na	na	na	na	na	na	617,372
U. Nebraska, Omaha	8,951	9,509	8,376	9,181	9,222	9,422	10,459	12,061	12,943	14,302	16,134	19,006	24,259	30,841
Private														
Creighton U.	27,700	31,443	32,594	29,983	25,560	23,825	23,510	24,315	20,587	24,039	20,339	23,251	27,609	28,443
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	26,428	26,365	28,478	30,716
Nevada State C.	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	1,191	1,744
U. Nevada, Las Vegas	44,457	39,526	34,543	35,935	39,448	42,000	62,825	66,285	83,800	99,445	105,872	101,009	94,967	98,751
U. Nevada, Reno	95,423	89,740	85,726	89,797	87,324	90,138	95,475	105,869	144,426	152,128	159,790	175,386	181,782	188,505
Private														
Roseman U. of Health Sciences	ne	840	ne	ne	3,021	3,287	3,433	4,167	3,973	4,176	4,380	5,985	6,296	6,065
New Hampshire														
Public														
U. New Hampshire	115,562	143,002	165,156	147,446	147,544	144,735	145,015	145,375	146,430	148,980	156,901	167,373	206,392	223,683
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	323,020	326,349	330,226	344,126	366,856
New Jersey														
Public														
C. New Jersey	850	486	ne	ne	ne	ne	ne	1,078	949	ne	1,464	1,912	3,464	2,641
Kean U.	ne	1,497	2,029	761	ne	1,064	908	ne	ne	ne	2,201	3,538	5,499	10,062
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	17,390	32,202	38,209
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	163,447	166,587	167,135	161,078
Rowan U.	2,987	3,247	3,783	3,407	8,202	8,044	10,212	12,856	16,247	22,892	26,018	26,458	29,949	47,810
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	5,142	6,480	9,527
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	643,955	712,231	831,719
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	23,854	28,345	29,787
Stockton U.	ne	1,455	927	ne	1,374	1,452	807	ne	2,560	2,634	4,236	1,246	1,657	2,386

TABLE 68

Higher education R&D expenditures, by state, institutional control, and institution: FYs 2010–23

(Dollars in thousands)

State, institutional control, and institution	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023
William Paterson U.	1,051	1,452	ne	ne	ne	ne	1,919	3,012	9,456	10,122	9,603	7,867	7,574	533
Private														
Monmouth U.	2,195	1,956	904	ne	865	ne	900	ne	ne	1,294	1,729	1,667	1,938	2,517
Princeton U.	242,570	263,335	275,666	269,908	293,274	279,851	307,653	334,125	365,007	385,739	396,502	404,448	461,185	513,365
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	5,320	5,741	7,068
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	43,386	53,563	60,685
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	1,882 i	2,674 i	3,468
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	28,745	89,900	118,735
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	110,580	121,472	126,337
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	332,566	331,164	316,026
New York														
Public														
CUNY, Advanced Science Research Center	na	na	na	na	na	569	ne	3,541	5,666	8,310	11,373	15,403	16,507	17,309
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	2,521	3,156	4,084
CUNY, Brooklyn C.	6,846	9,306	9,216	8,064	9,407	9,091	9,602	7,393	6,600	6,837 i	7,074	6,318	6,220	8,535
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	3,682	2,860	3,545	4,730
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	57,361	65,569	63,159
CUNY, Graduate Center	11,562	11,974	9,173	11,982	7,797	6,175	7,093 i	8,011	4,781	5,399	4,787	4,265	5,509	54,089
CUNY, Graduate School of Public Health and Health Policy	na	na	na	na	na	na	na	na	9,751	9,521	12,177	15,035	16,423	26,651
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	33,816	35,348	37,172
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	11,791	16,233	22,967
CUNY, Lehman C.	3,593 i	3,762	3,228	2,904	3,265	3,130	5,347	4,979	5,556	4,690	4,154	4,181	4,656	5,918
CUNY, New York City C. of Technology	231	343	ne	ne	ne	ne	ne	ne	2,418	2,711	2,130	1,367	1,955	2,819
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	16,063	21,434	25,492
CUNY, system office	ne	ne	1,817	1,210	1,088	1,782	1,655	1,114	3,253	2,619	1,704	1,664	2,900	4,296
CUNY, York C.	ne	2,180	1,544	999	ne	716	ne	ne	ne	1,621	1,691	1,133	1,912	1,711
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	124,565	130,882	141,685
SUNY, Buffalo State U.	1,935	2,539	2,970	2,106	1,996	2,366	2,221	1,887	1,928	2,124	2,253	1,962	2,172	2,636
SUNY, C. Brockport	831	1,248	1,487	1,321	1,192	1,367	1,335	1,289	1,293	1,390	1,719	1,114	1,500	1,877
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	29,296	28,440	32,904	32,682
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	3,460	4,497	4,423
SUNY, C. Plattsburgh	1,664	1,098	913	ne	1,008	1,135	1,020	1,003	1,604	1,729	1,452	1,280	1,043	1,722
SUNY, Cobleskill	1,414	938	ne	908	ne	ne	ne	ne	ne	ne	ne	ne	1,211	2,566
SUNY, Downstate Health Sciences U.	32,512	41,993	43,257	39,354	33,331	28,652	33,735	31,873	34,661	36,015	33,204	34,459	30,918	35,600

TABLE 68

Higher education R&D expenditures, by state, institutional control, and institution: FYs 2010–23

(Dollars in thousands)

State, institutional control, and institution	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023
SUNY, Geneseo	1,373	2,677	2,132	1,201	1,084	1,314	1,750	1,758	1,939	2,139	1,642	2,070	2,091	1,958
SUNY, Oswego	783	977	ne	725	ne	ne	ne	1,658	1,982	1,781	1,534	1,003	1,209	1,595
SUNY, Polytechnic Institute	na	na	na	na	412,851	295,313	316,680	308,861	257,358	352,889	355,651	465,273	413,763	284,677
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	274,516	312,698	324,531
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	114,501	129,796	141,671
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	425,349	439,709	471,569
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	44,870	50,586	53,219
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	19,696	20,841	20,493
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	3,687	2,276	2,594
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	22,443	22,297	23,259
Albert Einstein C. of Medicine	na	na	na	na	na	na	289,660	289,685	297,328	298,824	288,654	301,715	318,314	336,238
Alfred U.	4,524	6,084	5,451	6,731	4,655	5,193	3,975	3,231	3,641	5,153	2,780	2,660	3,477	4,154
Barnard C.	3,353	4,046	3,684	2,931	2,738	2,916	3,534	3,730	3,458	4,010	3,748	4,632	4,988	6,320
Canisius U.	221	205	ne	ne	ne	ne	ne	1,546	1,069	950	ne	1,036	1,160	905
Clarkson U.	18,584	17,951	14,809	12,061	13,750	13,406	12,983	15,148	16,927	17,147	15,104	16,765	21,703	25,399
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	114,903	118,034	117,483
Colgate U.	2,851	2,291	3,268	2,704	2,444	2,721	3,219	3,414	3,823	3,756	2,913	3,306	4,343	4,930
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	1,098,570	1,230,924	1,341,952
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	1,183,524	1,300,357	1,451,971
Fordham U.	19,289	18,350	19,311	18,822	17,961	20,939	25,374	20,807	20,644	20,287	20,456	16,731	20,432	23,832
Hamilton C.	3,192	3,109	3,069	2,942	2,846	2,291	2,662	2,354	1,796	2,050	1,869	1,747	1,879	3,285
Hobart and William Smith Colleges	1,434	1,566	1,516	2,238	1,221	946	ne	952	ne	1,919	2,114	1,941	3,228	2,373
Hofstra U.	2,552	2,472	3,237	2,394	3,102	2,585	2,440	1,702	1,662	1,744	1,445	5,545	6,939	8,162
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	820,260	893,968	972,476
Ithaca C.	1,077	1,025	1,132	1,245	1,248	972	ne	ne	ne	ne	1,199	1,030	1,000	861
Long Island U.	832	877	890	915	ne	ne	1,420	2,290	2,405	5,113	13,997	15,059	17,183	16,612
Manhattan C.	498	638	ne	ne	ne	ne	ne	ne	ne	1,190	1,307	1,864	1,641	1,250
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	3,776	4,954	5,324
New School	5,178	6,420	7,568	9,219	7,160	8,978	17,425	12,740	13,606	13,421	13,186	14,281	19,218	22,680
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	4,465	5,555	5,790
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	18,872	16,461	17,113
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	1,063,704	1,276,038	1,457,424
Pace U.	3,085	3,732	4,214	3,611	4,373	4,647	5,359	5,028	4,282	3,855	4,272	3,649	3,524	4,056
Pratt Institute	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	2,547	2,325	1,558

TABLE 68

Higher education R&D expenditures, by state, institutional control, and institution: FYs 2010–23

(Dollars in thousands)

State, institutional control, and institution	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023
U. Tulsa	23,387	19,489	20,270	21,757	27,077	25,066	22,347	20,879	20,072	18,648	18,787	17,187	17,416	24,845
Oregon														
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	452,812	479,226	517,742
Oregon Institute of Technology	ne	258	ne	ne	ne	2,056	4,027	3,595 i	3,163	4,793	4,267	4,314	5,086 i	5,585 i
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	276,955	297,934	337,985
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	41,311	41,483	46,324
U. Oregon	94,107	103,019	105,030	94,522	91,203	79,698	100,754	95,974	111,896	110,664	114,259	139,193	160,500	164,500
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	2,281	2,566	2,686
National U. of Natural Medicine	ne	791	ne	ne	ne	ne	ne	921	ne	1,245	1,428	850	ne	1,336
Pacific U.	1,849	1,129	2,110	2,535	2,122	2,016	2,508	7,770	6,264	8,753	5,842	4,690	6,128	10,719
Reed C.	1,904	1,839	1,837	2,395	3,124	3,050	3,213	1,415	2,607	3,240	5,155	5,132 i	5,922 i	6,750 i
Willamette U.	2,059	1,940	2,652	1,960	1,698	2,007	2,459	3,147	2,723	1,953	1,546	1,817	2,183	1,542
Pennsylvania														
Public														
East Stroudsburg U. Pennsylvania	ne	250	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	1,410	2,928
Indiana U. Pennsylvania	1,376	1,736	1,809	1,280	938	ne	1,241	2,291	6,450	8,119	6,531	6,180	6,313	6,052
Lincoln U.	1,425	1,336	1,622	965	ne	ne	ne	ne	645	ne	ne	ne	ne	628
Pennsylvania State U., Altoona	671	773	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	1,215
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	5,509	6,384	7,614
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	2,938	2,927	5,159
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	970,544	1,019,940	1,206,793
Temple U.	124,528	134,533	138,318	224,087	224,101	227,468	246,392	268,385	276,011	284,301	299,707	299,778	301,395	292,029
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	1,135,416	1,251,998	1,398,078
U.S. Army War C.	ne	ne	ne	ne	ne	ne	ne	ne	ne	4,418 i	ne	4,662 i	5,496 i	6,035 i
West Chester U. Pennsylvania	5,584 i	8,103	4,591	1,635	2,793	5,009	5,895	7,293	6,340	6,777	6,414	4,433	5,903	6,132
Private														
Arcadia U.	1,649	1,888	956	ne	ne	ne	ne	ne	ne	ne	ne	889	ne	1,321
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	8,987	9,123	9,039
Bucknell U.	5,456	5,043	4,009	4,297	4,464	4,140	4,516 i	4,892 i	5,269	5,625	5,051 i	4,476	5,259	5,887
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	402,376	449,707	484,757
Drexel U.	118,349	115,020	116,768	123,813	131,170	128,027	127,909	138,577	155,908	149,481	143,123	152,752	151,903	169,583
Duquesne U.	15,804	16,814	15,547	15,661	15,025	16,159	17,089	17,197	17,420	16,947	17,485	10,521	13,944	14,989
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	3,722	4,440	4,111
Gettysburg C.	814	669	ne	ne	ne	ne	ne	1,318	1,539	1,664	913	ne	ne	1,099

TABLE 68

Higher education R&D expenditures, by state, institutional control, and institution: FYs 2010–23

(Dollars in thousands)

State, institutional control, and institution	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023
Haverford C.	3,620	2,765	2,588	2,769	2,546	2,633	2,173	2,442	3,041	3,752	4,473	3,835	4,487	4,088
Lafayette C.	2,089	2,426	1,864	1,947	1,915	1,693	1,553	1,831	1,815	1,554	1,390	1,015	2,059	1,991
Lehigh U.	37,332	32,086	31,992	35,220	37,066	36,788	32,941	36,969	38,674	38,185	38,064	41,279	51,769	56,301
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	6,186	6,667	7,459
Robert Morris U.	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	1,277	1,419
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	2,922	9,041	8,675
Swarthmore C.	2,984	2,994	3,281	3,415	3,528	2,943	3,211	3,569	3,921	4,203	3,544	3,296	4,225	5,620
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	200,393	246,212	258,345
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	1,631,950	1,791,311	1,953,617
U. Scranton	240	221	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	1,169
Ursinus C.	540	594	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	1,150
Villanova U.	10,066	10,044	8,547	7,049	13,700	14,512	14,903	19,037	20,730	22,837	25,505	24,723	25,955	31,513
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	5,542	5,529	5,819
Rhode Island C.	ne	8,027	10,389	10,385	8,938	10,080	9,943	9,030	9,287	9,480	10,094	10,990	11,127	839
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	129,296	129,102	144,013
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	276,331	310,780	353,591
Bryant U.	ne	316	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	558
Providence C.	917	758	ne	983	ne	1,329	1,196	1,014	1,215	1,042	1,092	766	ne	5,533
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	1,854	2,156	3,465
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	6,361	6,421	7,231
Citadel Military C. South Carolina	ne	415	ne	ne	ne	ne	ne	ne	ne	ne	1,012	2,054	4,993	3,757
Clemson U.	174,693	166,350	142,096	152,444	161,070	171,215	183,965	193,268	213,458	218,760	228,597	237,485	263,158	286,503
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	2,245	3,724	4,729
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	277,761	284,553	333,826
South Carolina State U.	7,167	10,037	12,909	12,809	12,709	12,607	13,076	14,300	15,130	3,659	4,697	5,735	6,773	7,814
U. South Carolina, Aiken	337	750	ne	1,309	1,133	1,154	1,445	2,961	2,602	2,481	2,590	2,042	2,595	2,250
U. South Carolina, Beaufort	462	882	ne	ne	ne	892	ne	ne	ne	ne	ne	ne	ne	1,466
U. South Carolina, Columbia	229,145	201,592	214,901	203,365	206,173	208,736	209,271	208,670	206,355	205,940	219,734	215,374	229,162	262,207
Winthrop U.	ne	5,089	7,993	12,495	13,981	10,156	1,993	1,826	2,007	2,189	2,217	2,586	3,424	3,189
Private														
Benedict C.	1,533	3,009	2,754	2,664	2,479	1,373	1,653	1,676	1,934	1,269	649	ne	ne	2,307

TABLE 68

Higher education R&D expenditures, by state, institutional control, and institution: FYs 2010–23

(Dollars in thousands)

State, institutional control, and institution	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023
Claflin U.	3,252	5,439	5,255	2,661	1,818	1,255	1,772	1,360	1,509	1,746	1,910	1,015	1,179	1,418
Furman U.	2,311	2,184	2,049	2,199	1,600	1,928	1,869	2,051	2,064	1,628	2,101	2,431	2,650	2,267
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	1,280	1,987	2,260
Dakota State U.	ne	1,015	5,709	1,574	1,446	1,152	2,171	2,284	3,619	3,710	4,412	3,416	4,684	5,253
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	15,746	20,061	20,337
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	51,542	59,590	71,340
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	27,537	30,322	29,855
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	2,740	3,149	3,950
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	18,449	23,420	42,335
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	22,531	22,631	9,577
Tennessee State U.	12,432	13,468	15,439	16,177	20,068	19,955	19,520	18,108	17,681	15,236	25,942	21,977	18,012	28,246
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	15,387	16,398	20,797
U. Memphis	49,517	48,321	51,194	48,141	55,566	46,675	48,321	49,695	64,297	58,700	69,463	67,092	71,271	100,042
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	11,192	12,808	14,671
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	109,562	115,161	130,472
U. Tennessee, Knoxville ^g	150,671	167,456	179,252	193,054	179,041	173,533	183,268	203,800	259,607	247,693	320,407	316,273	324,435	338,847
Private														
Fisk U.	7,700	4,849	4,058	6,565	9,073	9,854	10,635	5,017	2,790	4,748	3,904	4,320	4,000	4,867
Lincoln Memorial U.	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	1,641
Lipscomb U.	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	307	321	ne	1,946
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	15,840	17,960	22,002
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	1,019,273	1,086,223	1,253,156
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	4,734	5,304	9,168
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	17,582	20,429	21,791
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	13,315	12,009	11,760
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	3,204	3,184	3,661
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	3,004	3,940	4,878
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	17,729	20,056	23,345
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	3,740	4,486	5,602

TABLE 68

Higher education R&D expenditures, by state, institutional control, and institution: FYs 2010–23

(Dollars in thousands)

State, institutional control, and institution	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023
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	1,147,720	1,152,666	1,277,814
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	3,827	4,955	7,029
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	30,500	36,014	39,305
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	23,578	23,451	26,401
Texas A&M U.-San Antonio	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	1,242	1,593
Texas Southern U.	7,003	6,318	6,380	6,548	6,038	5,005	4,495	4,722	3,740	4,893	10,138	9,128	12,120	16,287
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	72,510	110,102	141,291
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	197,739	226,729	240,107
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	41,583	46,574	48,638
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	11,360	14,206	13,189
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	4,943	6,029	6,922
U. Houston	119,811	113,709	116,288	130,844	140,597	150,628	162,049	169,431	177,484	195,398	200,428	202,536	240,126	231,942
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	1,716	1,800	2,127
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	1,828	1,485	1,967
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	81,252	93,538	106,665
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	42,766	50,698	72,675	94,652
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	308,823	342,633	374,105
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	219,734	238,510	281,078
U. Texas Health Science Center, Tyler	ne	ne	ne	ne	ne	12,191	11,799	16,292	17,949	19,606	21,265	27,928	33,872	32,077
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	1,124,971	1,182,536	1,255,190
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	185,759	204,518	233,192
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	3,504	3,577	2,769
U. Texas Rio Grande Valley	na	na	na	na	na	na	31,007	29,500	27,125	52,016	56,702	58,187	64,401	82,444
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	632,134	719,002	800,391
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	126,477	133,770	147,265
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	779,348	845,896	1,035,838
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	122,825	130,914	146,779
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	109,410	130,501	145,724
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	145,362	147,629	158,453
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	2,279	3,246	3,487
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	9,920	9,438	10,302
Private														
Abilene Christian U.	662	487	ne	ne	ne	ne	ne	ne	ne	ne	ne	4,597	6,310	8,182
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	716,976	827,005	847,305
Baylor U.	10,925	12,343	10,161	13,616	20,729	24,642	26,767	29,400	31,936	33,304	39,765	48,809	66,014	82,074
Rice U.	97,903	110,235	117,223	131,003	138,536	144,679	154,543	167,277	161,831	182,564	198,681	207,404	216,202	255,115

TABLE 68

Higher education R&D expenditures, by state, institutional control, and institution: FYs 2010–23

(Dollars in thousands)

State, institutional control, and institution	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023									
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	7,475	6,629	7,121	7,597									
Hampton U.	14,455	12,414	15,356	12,641	11,169	14,895	14,225	16,482	14,424	13,605	11,402	11,669	11,462	9,769									
Liberty U.	ne	ne	ne	ne	ne	ne	ne	ne	ne	1,780	1,894	937	ne	1,900									
Marymount U.	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	2,307	1,298	2,601									
U. Richmond	4,052	4,064	4,282	3,351	3,598	3,069	3,047	3,106	2,784	2,783	2,469	2,294	2,670	3,058									
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	2,674	2,410	3,176	3,683									
Eastern Washington U.	3,266	3,910	2,700	2,115	1,867	2,973	3,368	2,000	2,590	2,024	2,282	1,921	2,437	2,546									
Northwest Indian C.	2,426	2,744	i	2,847	3,247	2,609	1,631	i	ne	ne	2,154	2,659	3,650	i	4,641	i	5,632	6,184	i				
U. Washington, Bothell	630	2,857	4,285	4,704	7,550	7,657	8,406	10,219	8,097	7,950	7,107	8,311	8,197	5,738									
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	1,456,902	1,488,645	1,559,708	1,734,091									
U. Washington, Tacoma	872	1,359	1,845	2,203	2,938	3,618	3,957	3,246	3,006	3,471	3,504	4,291	5,484	6,243									
Washington State U.	304,352	320,510	335,930	305,510	288,752	303,214	301,640	331,051	331,424	344,997	335,201	357,648	368,396	378,744									
Western Washington U.	10,571	9,498	7,597	8,157	8,567	9,921	10,743	13,014	13,075	11,983	12,823	13,450	15,081	15,874									
Private																							
Seattle U.	1,337	i	1,274	642	ne	2,692	2,847	2,050	1,623	2,535	2,223	2,060	1,562	1,894	3,949								
U. Puget Sound	461	530	ne	ne	ne	ne	ne	902	ne	ne	895	ne	1,051	1,613									
Whitman C.	1,415	1,142	849	ne	ne	ne	ne	ne	ne	1,083	865	ne	1,270	1,568									
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	22,250	23,620	25,692	33,693									
West Virginia School of Osteopathic Medicine	594	528	ne	ne	ne	ne	ne	ne	ne	ne	1,311	1,255	1,329	1,459	i								
West Virginia State U.	3,770	4,176	5,087	4,491	7,221	7,365	5,224	6,305	6,535	5,829	5,775	6,565	6,703	5,226									
West Virginia U.	154,926	166,420	169,303	167,144	164,454	170,145	172,477	185,606	185,110	187,512	188,452	199,907	214,081	246,173									
Wisconsin																							
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	1,852	1,628	2,191									
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	1,879	2,713	2,801					
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	3,001	2,942	2,921								
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	1,380,075	1,523,513	1,731,949									
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	55,664	56,822	60,712									
U. Wisconsin-Oshkosh	1,556	2,384	2,331	2,167	1,935	i	1,703	i	ne	1,507	i	1,544	i	1,581	i	1,618	i	1,656	1,990	2,087			
U. Wisconsin-Platteville	681	715	i	ne	ne	1,000	i	970	i	ne	1,068	i	ne	1,084	i	1,104	i	1,144	i	1,349	i	1,481	i
U. Wisconsin-River Falls	441	551	i	ne	ne	ne	ne	ne	ne	1,072	923	ne	1,107	999	ne	2,772							
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	4,401	3,740	4,589			

TABLE 68

Higher education R&D expenditures, by state, institutional control, and institution: FYs 2010–23

(Dollars in thousands)

State, institutional control, and institution	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023
U. Wisconsin-Superior	5,890	6,187	6,041	ne	3,030	ne	ne	ne	3,068	2,250	2,301	2,602	4,615	4,825
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	37,087	40,638	47,819
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	276,850	309,244	346,691
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	3,193	3,545	3,317
Northland C.	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	1,096	1,265	1,442
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	93,202	139,764	150,124
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	17,666	20,481	22,388
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	1,881	1,390	1,519
U. Puerto Rico, Humacao	1,971	1,976	1,949	1,455	1,145	784	ne	ne	1,168	1,195	1,456	1,321	1,448	2,074
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	18,368	18,274	13,989
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	44,111	47,578	61,235
U. Puerto Rico, Ponce	ne	160	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	659
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	28,896	28,083	29,202
Private														
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	1,574	1,419	2,132
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	3,831	5,053	4,878
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	15,231	20,259	20,259

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 Colorado Denver and University of Colorado Anschutz Medical Center report to the survey separately. Prior to FY 2021, expenditures were reported together under University of Colorado Denver and Anschutz Medical Campus.

^b The University of South Florida includes expenditures from the University of South Florida, Tampa; University of South Florida, Saint Petersburg; and University of South Florida, Sarasota-Manatee campuses. Due to the consolidation of the three campuses that occurred on 1 July 2020, University of South Florida, Saint Petersburg and University of South Florida, Sarasota-Manatee began reporting with the University of South Florida, Tampa as the University of South Florida. Prior to FY 2021, all three campuses reported to the survey as separate institutions.

^c 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.

^d Johns Hopkins University includes the Applied Physics Laboratory, with \$2,333,049 thousand in total R&D expenditures in FY 2023.

^e The University of Nebraska, Lincoln and Medical Center includes expenditures from the University of Nebraska, Lincoln; University of Nebraska, Medical Center; and University of Nebraska, Central Administration campuses. Due to a realignment within the

University of Nebraska system that occurred on 22 June 2023, the three campuses fall under the leadership of one president. Prior to FY 2023, these three campuses reported to the survey as separate institutions.

^f Touro University, New York includes the Lovelace Biomedical Research Institute. In FY 2023, the Lovelace Biomedical Research Institute joined the Touro University System.

^g 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.