

TABLE 81

Higher education R&D expenditures in science and engineering fields, by state: FYs 2010–21

(Dollars in thousands)

State	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021
United States	58,387,551	61,988,017	62,198,981	63,354,270	63,766,035	64,935,455	67,634,588	70,846,590	74,381,325	78,633,170	81,277,287	84,610,017
Alabama	829,363	878,622	804,713	807,180	784,855	868,160	912,302	942,186	986,864	1,055,431	1,110,640	1,187,925
Alaska	141,190	140,736	135,751	133,170	168,948	157,565	163,092	171,166	161,208	165,930	174,978	193,723
Arizona	901,697	951,223	987,123	1,013,898	987,348	1,031,313	1,072,623	1,139,852	1,284,772	1,346,997	1,401,055	1,404,585
Arkansas	255,537	270,576	275,503	278,640	268,551	278,259	284,160	288,722	311,100	331,290	343,986	362,908
California	7,579,752	7,927,260	8,102,898	8,056,392	8,121,682	8,330,954	8,558,740	8,886,352	9,768,093	10,105,065	10,513,407	10,785,540
Colorado	1,128,509	1,240,906	1,249,413	1,200,521	1,184,397	1,226,205	1,326,252	1,402,890	1,486,702	1,539,154	1,569,639	1,670,248
Connecticut	866,600	922,694	924,773	1,041,810	1,029,748	1,062,809	1,143,663	1,210,466	1,251,620	1,352,731	1,370,202	1,463,045
Delaware	161,927	178,496	176,743	187,730	187,295	183,868	189,768	195,591	198,476	223,447	234,144	243,849
District of Columbia	430,944	446,448	455,063	463,042	487,260	488,789	483,863	524,970	547,181	575,707	590,359	621,093
Florida	1,778,300	1,896,576	1,930,189	1,921,895	2,019,460	2,080,940	2,217,780	2,348,688	2,285,505	2,366,988	2,385,208	2,462,671
Georgia	1,611,447	1,657,919	1,711,596	1,789,112	1,850,346	1,918,019	2,029,544	2,177,129	2,283,980	2,460,830	2,574,883	2,756,632
Hawaii	314,652	325,915	328,168	338,992	330,584	328,698	314,431	297,425	294,453	298,641	295,641	291,663
Idaho	122,754	139,392	142,976	139,444	137,825	142,954	150,043	156,152	161,196	157,439	162,335	159,549
Illinois	2,146,061	2,264,226	2,269,727	2,407,183	2,238,266	2,284,059	2,265,419	2,369,632	2,438,295	2,577,826	2,637,429	2,794,799
Indiana	1,048,218	1,141,830	1,150,327	1,200,697	1,169,076	1,191,841	1,235,217	1,294,203	1,331,646	1,511,310	1,592,757	1,569,076
Iowa	689,831	705,684	695,465	693,052	743,656	726,233	774,017	786,287	838,401	837,341	829,217	870,426
Kansas	460,629	466,851	479,721	499,788	485,562	489,955	478,843	502,399	540,529	601,894	635,019	673,119
Kentucky	538,189	555,579	546,893	515,406	505,815	499,960	526,377	561,729	576,050	589,110	614,163	631,075
Louisiana	657,569	667,523	653,885	632,537	627,547	609,102	630,012	633,514	687,619	728,488	737,195	757,416
Maine	118,832	129,236	118,589	103,373	120,628	98,607	97,680	120,471	126,229	141,775	143,241	154,111
Maryland	3,094,055	3,366,663	3,308,014	3,376,440	3,514,719	3,704,962	3,744,025	3,967,074	4,112,572	4,555,760	4,660,788	4,829,448
Massachusetts	2,628,804	2,806,845	3,010,696	3,246,125	3,218,358	3,406,239	3,521,012	3,631,981	3,717,256	3,986,389	4,059,512	4,270,733
Michigan	1,903,476	2,029,656	2,076,947	2,134,096	2,115,363	2,202,000	2,320,601	2,497,196	2,604,342	2,712,101	2,694,168	2,654,344
Minnesota	802,840	866,304	840,731	869,824	885,306	882,516	912,843	917,633	951,455	1,011,132	1,037,129	1,072,582
Mississippi	418,235	431,365	437,775	385,916	378,750	381,383	412,153	437,120	438,422	493,183	475,626	453,990
Missouri	964,192	984,357	1,055,960	1,028,703	1,014,509	1,046,359	1,112,509	1,146,069	1,213,421	1,318,262	1,383,261	1,508,463
Montana	195,619	182,326	184,754	175,054	172,201	171,530	184,756	216,170	214,221	250,102	262,328	301,966
Nebraska	383,260	393,395	419,164	419,565	428,017	435,767	447,703	478,198	498,045	534,272	545,367	537,664
Nevada	170,989	160,254	149,323	147,079	146,056	148,339	172,933	185,836	221,608	241,651	252,741	264,939
New Hampshire	298,650	341,848	349,891	335,518	337,909	336,857	361,834	413,173	422,319	423,530	432,458	446,698
New Jersey	1,022,690	1,091,890	1,060,469	1,120,119	1,081,018	1,048,622	1,067,318	1,137,993	1,231,456	1,227,813	1,308,824	1,261,263
New Mexico	407,429	400,121	390,548	390,745	400,180	377,543	352,296	358,025	361,605	357,866	368,423	466,518
New York	4,782,174	5,105,083	5,157,872	5,327,470	5,450,410	5,449,862	5,817,824	6,048,744	6,271,932	6,714,700	6,793,694	7,211,185
North Carolina	2,422,947	2,603,702	2,618,572	2,669,329	2,741,270	2,744,906	2,847,296	2,991,666	3,104,305	3,275,092	3,257,648	3,369,741
North Dakota	202,626	209,430	213,666	212,705	215,551	212,524	221,251	241,188	240,568	246,564	251,914	282,924

TABLE 81

Higher education R&D expenditures in science and engineering fields, by state: FYs 2010–21

(Dollars in thousands)

State	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021
Ohio	1,963,559	2,107,830	2,017,370	2,048,353	2,043,780	2,017,358	2,055,047	2,164,145	2,249,451	2,382,832	2,396,135	2,666,974
Oklahoma	383,110	418,373	412,978	384,729	391,926	392,480	428,939	440,486	455,130	472,673	538,006	520,445
Oregon	663,378	701,228	680,956	667,974	670,105	679,739	701,813	731,137	771,348	812,126	846,674	880,461
Pennsylvania	3,026,823	3,201,566	3,125,789	3,237,847	3,210,166	3,249,295	3,710,218	3,948,483	4,162,865	4,397,493	4,562,944	4,679,834
Rhode Island	287,708	330,272	335,689	320,663	379,144	376,956	330,514	304,898	341,552	357,966	364,094	389,299
South Carolina	616,972	576,881	563,599	567,300	565,820	571,747	605,162	617,864	618,354	615,442	653,027	647,829
South Dakota	126,562	132,295	123,383	113,284	100,343	97,179	102,269	108,230	111,203	113,692	105,707	95,252
Tennessee	879,994	952,398	968,317	973,486	1,079,491	1,022,308	1,037,952	1,133,255	1,209,155	1,244,917	1,307,526	1,520,037
Texas	4,220,820	4,427,560	4,413,601	4,585,482	4,658,686	4,794,484	4,994,430	5,192,867	5,312,828	5,600,114	6,186,567	6,433,519
Utah	551,607	614,316	608,199	673,095	674,070	715,106	537,012	540,493	784,478	862,465	912,369	959,210
Vermont	132,519	136,623	119,802	120,178	113,711	118,957	119,665	121,257	131,483	138,530	181,505	185,234
Virginia	1,134,387	1,300,258	1,283,852	1,323,095	1,287,075	1,302,589	1,356,482	1,436,045	1,540,781	1,665,152	1,763,756	1,752,594
Washington	1,304,992	1,438,349	1,376,467	1,402,118	1,399,577	1,431,158	1,525,348	1,578,678	1,654,786	1,674,824	1,690,536	1,763,887
West Virginia	178,435	195,952	189,225	184,992	184,291	187,867	188,571	198,131	200,660	202,161	206,447	220,189
Wisconsin	1,230,932	1,338,580	1,330,338	1,277,944	1,271,868	1,227,594	1,336,139	1,401,938	1,439,377	1,558,846	1,639,168	1,671,344
Wyoming	53,957	55,320	63,812	63,149	48,736	54,928	108,552	121,927	112,857	79,928	91,738	92,230
American Samoa	ne	ne	ne	ne	ne	1,337	793	ne	ne	860	ne	815
Guam	5,555	5,477	5,975	5,873	6,790	5,919	7,351	8,803	11,053	12,001	12,674	17,212
Puerto Rico	114,982	152,435	141,188	123,784	117,258	121,299	116,936	108,032	98,665	113,669	105,413	112,510
Virgin Islands	31,272	21,373	24,543	18,374	14,732	19,456	21,215	12,031	11,853	11,668	13,622	15,231

ne = not eligible; no institutions within the state met the criteria for inclusion.

Source(s):

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