

TABLE 16

Externally funded higher education R&D expenditures, by highest degree granted, institutional control, and type of agreement: FYs 2010–23

(Dollars in thousands)

Type of agreement, highest degree granted, and institutional control	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023
All institutions														
All externally funded R&D	49,344,078	52,694,073	52,141,609	52,076,758	51,463,714	51,957,808	53,866,345	56,300,440	58,847,676	62,419,495	64,316,329	67,255,949	73,176,312	81,026,179
Contracts	10,771,669	11,013,679	11,368,460	11,538,086	11,549,460	12,025,539	12,166,676	12,836,363	13,421,993	14,504,897	15,379,517	16,043,718	17,425,027	19,578,852
Grants, reimbursements, and all other agreements	38,572,409	41,680,394	40,773,149	40,538,672	39,914,254	39,932,269	41,699,669	43,464,077	45,425,683	47,914,598	48,936,812	51,212,231	55,751,285	61,447,327
Doctorate														
All externally funded R&D	48,504,214	51,725,752	51,314,264	51,439,912	50,881,747	51,452,527	53,027,143	55,772,958	58,347,330	61,911,307	63,808,415	66,730,567	72,571,882	80,352,340
Contracts	10,607,924	10,830,416	11,224,244	11,441,480	11,458,471	11,959,592	11,996,991	12,779,611	13,364,734	14,431,570	15,300,976	15,972,114	17,340,013	19,461,909
Grants, reimbursements, and all other agreements	37,896,290	40,895,336	40,090,020	39,998,432	39,423,276	39,492,935	41,030,152	42,993,347	44,982,596	47,479,737	48,507,439	50,758,453	55,231,869	60,890,431
Nondoctorate														
All externally funded R&D	839,864	968,321	827,345	636,846	581,967	505,281	839,202	527,482	500,346	508,188	507,914	525,382	604,430	673,839
Contracts	163,745	183,263	144,216	96,606	90,989	65,947	169,685	56,752	57,259	73,327	78,541	71,604	85,014	116,943
Grants, reimbursements, and all other agreements	676,119	785,058	683,129	540,240	490,978	439,334	669,517	470,730	443,087	434,861	429,373	453,778	519,416	556,896
Public														
All externally funded R&D	31,934,135	34,048,019	33,752,723	33,705,035	33,067,468	33,292,859	34,453,166	35,917,977	37,546,488	39,665,446	41,017,967	42,611,373	46,413,251	51,563,234
Contracts	7,153,099	7,274,860	7,507,054	7,835,919	7,697,443	7,963,143	7,936,739	8,363,518	8,876,201	9,547,486	10,126,899	10,366,645	11,193,006	12,562,402
Grants, reimbursements, and all other agreements	24,781,036	26,773,159	26,245,669	25,869,116	25,370,025	25,329,716	26,516,427	27,554,459	28,670,287	30,117,960	30,891,068	32,244,728	35,220,245	39,000,832
Private														
All externally funded R&D	17,409,943	18,646,054	18,388,886	18,371,723	18,396,246	18,664,949	19,413,179	20,382,463	21,301,188	22,754,049	23,298,362	24,644,576	26,763,061	29,462,945
Contracts	3,618,570	3,738,819	3,861,406	3,702,167	3,852,017	4,062,396	4,229,937	4,472,845	4,545,792	4,957,411	5,252,618	5,677,073	6,232,021	7,016,450
Grants, reimbursements, and all other agreements	13,791,373	14,907,235	14,527,480	14,669,556	14,544,229	14,602,553	15,183,242	15,909,618	16,755,396	17,796,638	18,045,744	18,967,503	20,531,040	22,446,495

Source(s):

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