

TABLE 16

**Externally funded higher education R&D expenditures, by highest degree granted, institutional control, and type of agreement: FYs 2010–22**

(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
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	53,865,547	56,299,144	58,845,854	62,417,157	64,312,784	67,252,206	73,187,865
Contracts	10,771,669	11,013,679	11,368,460	11,538,086	11,549,308	12,025,452	12,166,808	12,836,111	13,421,804	14,504,663	15,378,562	16,034,505	17,403,926
Grants, reimbursements, and all other agreements	38,572,409	41,680,394	40,773,149	40,538,672	39,914,406	39,932,356	41,698,739	43,463,033	45,424,050	47,912,494	48,934,222	51,217,701	55,783,939
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	63,807,737	66,729,210	72,583,022
Contracts	10,607,924	10,830,416	11,224,244	11,441,480	11,458,319	11,959,505	11,996,943	12,779,515	13,364,674	14,431,481	15,300,227	15,962,862	17,322,055
Grants, reimbursements, and all other agreements	37,896,290	40,895,336	40,090,020	39,998,432	39,423,428	39,493,022	41,030,200	42,993,443	44,982,656	47,479,826	48,507,510	50,766,348	55,260,967
Nondoctorate													
All externally funded R&D	839,864	968,321	827,345	636,846	581,967	505,281	838,404	526,186	498,524	505,850	505,047	522,996	604,843
Contracts	163,745	183,263	144,216	96,606	90,989	65,947	169,865	56,596	57,130	73,182	78,335	71,643	81,871
Grants, reimbursements, and all other agreements	676,119	785,058	683,129	540,240	490,978	439,334	668,539	469,590	441,394	432,668	426,712	451,353	522,972
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	41,017,289	42,611,551	46,343,999
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	10,126,248	10,357,765	11,158,164
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	30,891,041	32,253,786	35,185,835
Private													
All externally funded R&D	17,409,943	18,646,054	18,388,886	18,371,723	18,396,246	18,664,949	19,412,381	20,381,167	21,299,366	22,751,711	23,295,495	24,640,655	26,843,866
Contracts	3,618,570	3,738,819	3,861,406	3,702,167	3,851,865	4,062,309	4,230,069	4,472,593	4,545,603	4,957,177	5,252,314	5,676,740	6,245,762
Grants, reimbursements, and all other agreements	13,791,373	14,907,235	14,527,480	14,669,556	14,544,381	14,602,640	15,182,312	15,908,574	16,753,763	17,794,534	18,043,181	18,963,915	20,598,104

**Source(s):**

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