

TABLE 9

**Higher education R&D expenditures, by source of funds and type of R&D: FYs 2010–22**

(Dollars in thousands)

Fiscal year	Total				Federal				Nonfederal			
	All R&D expenditures	Basic research	Applied research	Experimental development	All R&D expenditures	Basic research	Applied research	Experimental development	All R&D expenditures	Basic research	Applied research	Experimental development
2010	61,286,610	40,949,184	15,107,127	5,230,299	37,477,582	25,677,713	9,133,503	2,666,366	23,809,028	15,271,471	5,973,624	2,563,933
2011	65,274,393	43,455,207	16,298,883	5,520,303	40,768,251	27,675,430	10,227,797	2,865,024	24,506,142	15,779,777	6,071,086	2,655,279
2012	65,729,007	43,119,743	16,787,565	5,821,699	40,142,223	26,850,432	10,268,318	3,023,473	25,586,784	16,269,311	6,519,247	2,798,226
2013	66,977,566	43,976,241	16,905,628	6,095,697	39,445,931	26,409,024	10,052,792	2,984,115	27,531,635	17,567,217	6,852,836	3,111,582
2014	67,161,428	43,594,083	17,313,106	6,254,239	37,961,118	25,210,261	9,775,786	2,975,071	29,200,310	18,383,822	7,537,320	3,279,168
2015	68,519,962	44,385,516	17,538,719	6,595,727	37,846,802	25,241,977	9,694,550	2,910,275	30,673,160	19,143,539	7,844,169	3,685,452
2016	71,736,671	45,696,888	19,412,183	6,627,600	38,787,997	25,301,874	10,582,251	2,903,872	32,948,674	20,395,014	8,829,932	3,723,728
2017	75,148,301	47,203,811	20,816,604	7,127,886	40,248,058	26,022,463	11,223,090	3,002,505	34,900,243	21,181,348	9,593,514	4,125,381
2018	79,024,262	49,887,855	21,737,284	7,399,123	41,860,369	27,068,451	11,685,671	3,106,247	37,163,893	22,819,404	10,051,613	4,292,876
2019	83,488,120	52,720,322	23,050,139	7,717,659	44,460,327	28,796,368	12,358,229	3,305,730	39,027,793	23,923,954	10,691,910	4,411,929
2020	86,302,262	54,372,149	23,865,214	8,064,899	46,106,539	29,457,040	12,872,587	3,776,912	40,195,723	24,915,109	10,992,627	4,287,987
2021	89,694,837	56,197,180	24,798,604	8,699,053	49,116,033	31,292,071	13,717,410	4,106,552	40,578,804	24,905,109	11,081,194	4,592,501
2022	97,680,528	61,698,057	26,722,947	9,259,524	53,971,468	34,673,895	14,880,303	4,417,270	43,709,060	27,024,162	11,842,644	4,842,254

**Source(s):**

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