

**Table 1****U.S. R&D expenditures, by performing sector and source of funds: 2010–21**

(Millions of current and constant 2012 dollars)

Performing sector and source of funds	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020 <sup>a</sup>	2021 <sup>b</sup>
Current \$millions												
All performers	406,600	426,215	433,716	454,271	475,969	494,499	521,700	553,768	604,372	666,153	716,955	791,873
Business	278,977	294,092	302,251	322,528	340,728	355,821	379,529	405,792	445,563	498,175	543,220	612,444
Federal government	50,798	53,524	52,144	51,086	52,687	52,847	51,187	52,553	58,356	62,802	64,237	65,207
Federal intramural <sup>c</sup>	31,970	34,950	34,017	33,406	34,783	34,199	31,762	32,231	36,793	39,870	40,371	40,036
FFRDCs	18,828	18,574	18,128	17,680	17,903	18,649	19,424	20,322	21,563	22,932	23,866	25,171
Nonfederal government	691	694	665	620	583	595	620	632	643	675	683	674
Higher education	58,084	60,088	60,895	61,548	62,351	64,635	67,792	71,114	74,878	78,146	80,842	84,035
Nonprofit organizations <sup>d</sup>	18,050	17,817	17,762	18,489	19,620	20,601	22,573	23,678	24,932	26,355	27,973	29,514
All funding sources	406,600	426,215	433,716	454,271	475,969	494,499	521,700	553,768	604,372	666,153	716,955	791,873
Business	248,126	266,427	275,728	297,188	318,410	333,243	360,291	386,539	426,488	482,227	520,363	587,717
Federal government	126,617	127,014	123,837	120,132	118,367	119,532	118,175	122,531	131,220	135,993	147,657	153,323
Nonfederal government	4,303	4,387	4,158	4,243	4,213	4,277	4,995	5,076	5,252	5,470	5,670	5,856
Higher education	12,262	13,103	14,300	15,378	16,210	17,292	18,746	19,984	21,227	22,294	23,191	24,055
Nonprofit organizations <sup>d</sup>	15,292	15,284	15,694	17,330	18,768	20,156	19,493	19,638	20,184	20,170	20,074	20,922
Constant 2012 \$millions												
All performers	422,811	434,187	433,716	446,452	459,193	472,344	493,381	513,947	547,740	593,094	630,098	666,027
Business	290,100	299,593	302,251	316,977	328,719	339,879	358,928	376,612	403,813	443,539	477,411	515,112
Federal government	52,824	54,525	52,144	50,207	50,830	50,480	48,408	48,774	52,888	55,914	56,455	54,844
Federal intramural <sup>c</sup>	33,245	35,604	34,017	32,831	33,557	32,666	30,038	29,913	33,346	35,497	35,480	33,673
FFRDCs	19,579	18,921	18,128	17,376	17,272	17,813	18,370	18,860	19,543	20,417	20,975	21,170
Nonfederal government	719	707	665	609	563	568	586	587	583	601	600	567
Higher education	60,400	61,211	60,895	60,488	60,153	61,739	64,112	66,000	67,861	69,576	71,048	70,680
Nonprofit organizations <sup>d</sup>	18,769	18,150	17,762	18,171	18,928	19,678	21,347	21,975	22,596	23,465	24,584	24,824
All funding sources	422,811	434,187	433,716	446,452	459,193	472,344	493,381	513,947	547,740	593,094	630,098	666,027
Business	258,019	271,411	275,728	292,073	307,187	318,312	340,734	358,744	386,525	429,340	457,323	494,315
Federal government	131,665	129,390	123,837	118,064	114,195	114,177	111,760	113,719	118,924	121,078	129,769	128,957
Nonfederal government	4,475	4,469	4,158	4,170	4,065	4,085	4,724	4,711	4,760	4,870	4,983	4,926
Higher education	12,750	13,348	14,300	15,113	15,639	16,517	17,728	18,547	19,238	19,849	20,381	20,232
Nonprofit organizations <sup>d</sup>	15,902	15,570	15,694	17,031	18,107	19,253	18,435	18,225	18,293	17,958	17,642	17,597

FFRDC = federally funded research and development center.

<sup>a</sup> Some data for 2020 are preliminary and may be revised later.<sup>b</sup> The data for 2021 include estimates and are likely to be revised later.<sup>c</sup> Includes expenditures of federal intramural R&D as well as costs associated with administering extramural R&D.<sup>d</sup> Some components of the R&D performed by nonprofit organizations are estimated and may be revised later.**Note(s):**

Data are based on annual reports by performers. Expenditure levels for higher education, federal government, and nonfederal government performers are calendar year approximations based on fiscal year data.

**Source(s):**

National Center for Science and Engineering Statistics, National Patterns of R&amp;D Resources (annual series).