

**Table 1****U.S. R&D expenditures, by performing sector and source of funds: 2010–19**

(Current and constant 2012 millions of dollars)

Performing sector and source of funds	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019 <sup>a</sup>
Current \$millions										
All performing sectors	406,600	426,213	433,719	454,271	475,969	494,482	521,703	555,245	606,085	656,038
Business	278,977	294,092	302,251	322,528	340,728	355,821	379,528	405,791	445,637	485,826
Federal government	50,798	53,524	52,144	51,086	52,687	52,847	51,187	52,553	58,356	63,051
Federal intramural <sup>b</sup>	31,970	34,950	34,017	33,406	34,783	34,199	31,762	32,231	36,793	40,086
FFRDCs	18,828	18,574	18,128	17,680	17,903	18,649	19,424	20,322	21,563	22,965
Nonfederal government	691	694	665	620	583	595	621	636	656	678
Higher education	58,084	60,088	60,895	61,548	62,352	64,621	67,774	71,108	74,897	78,717
Nonprofit organizations <sup>c</sup>	18,050	17,815	17,764	18,489	19,620	20,599	22,594	25,157	26,538	27,767
All funding sources	406,600	426,213	433,719	454,271	475,969	494,482	521,703	555,245	606,085	656,038
Business	248,124	266,429	275,728	297,188	318,411	333,241	360,002	386,098	425,999	463,745
Federal government	126,617	127,015	123,837	120,132	118,368	119,525	116,870	121,610	129,610	138,880
Nonfederal government	4,303	4,387	4,158	4,243	4,214	4,271	4,508	4,597	4,762	4,960
Higher education	12,263	13,103	14,299	15,378	16,209	17,293	18,432	19,585	20,704	21,791
Nonprofit organizations <sup>c</sup>	15,294	15,280	15,697	17,331	18,768	20,153	21,892	23,355	25,010	26,662
Constant 2012 \$millions										
All performing sectors	423,054	434,387	433,719	446,436	459,260	472,627	493,465	515,500	549,507	584,369
Business	290,267	299,733	302,251	316,965	328,767	340,094	358,986	376,745	404,037	432,751
Federal government	52,854	54,551	52,144	50,205	50,837	50,512	48,416	48,791	52,909	56,163
Federal intramural <sup>b</sup>	33,264	35,621	34,017	32,830	33,562	32,687	30,043	29,924	33,359	35,707
FFRDCs	19,590	18,930	18,128	17,375	17,275	17,824	18,373	18,867	19,550	20,456
Nonfederal government	719	707	665	609	563	568	587	590	595	604
Higher education	60,434	61,240	60,895	60,486	60,163	61,764	64,105	66,018	67,905	70,117
Nonprofit organizations <sup>c</sup>	18,780	18,157	17,764	18,170	18,931	19,689	21,371	23,356	24,061	24,733
All funding sources	423,054	434,387	433,719	446,436	459,260	472,627	493,465	515,500	549,507	584,369
Business	258,165	271,539	275,728	292,062	307,233	318,513	340,516	358,460	386,233	413,082
Federal government	131,740	129,451	123,837	118,060	114,212	114,242	110,544	112,905	117,511	123,708
Nonfederal government	4,477	4,471	4,158	4,170	4,066	4,082	4,264	4,268	4,317	4,418
Higher education	12,759	13,354	14,299	15,112	15,640	16,528	17,434	18,183	18,771	19,411
Nonprofit organizations <sup>c</sup>	15,913	15,573	15,697	17,032	18,109	19,262	20,707	21,683	22,675	23,750

FFRDC = federally funded research and development center.

<sup>a</sup> The data for 2019 are estimates and will later be revised.<sup>b</sup> Federal intramural includes expenditures of federal intramural R&D as well as costs associated with administering extramural R&D procurements.<sup>c</sup> R&D performed by nonprofit organizations are estimated and may later be revised.**Note(s):**

Data are based on annual reports by performers, except for the nonprofit sector. 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).