

Table RD-1

U.S. R&D expenditures, by performing sector and source of funds: 2010–20

(Millions of current and constant 2012 dollars)

Sector	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020 ^a
Millions of current dollars											
All performing sectors	406,600	426,215	433,716	454,271	475,969	494,499	521,700	554,012	604,837	666,875	707,967
Business	278,977	294,092	302,251	322,528	340,728	355,821	379,529	405,792	445,563	498,175	531,941
Federal government	50,798	53,524	52,144	51,086	52,687	52,847	51,187	52,553	58,356	62,802	65,685
Federal intramural ^b	31,970	34,950	34,017	33,406	34,783	34,199	31,762	32,231	36,793	39,870	41,936
FFRDCs	18,828	18,574	18,128	17,680	17,903	18,649	19,424	20,322	21,563	22,932	23,749
Nonfederal government	691	694	665	620	583	595	620	632	643	675	696
Higher education	58,084	60,088	60,895	61,548	62,351	64,635	67,792	71,115	74,914	78,176	81,111
Nonprofit organizations ^c	18,050	17,817	17,762	18,489	19,620	20,601	22,573	23,921	25,361	27,048	28,533
All funding sources	406,600	426,215	433,716	454,271	475,969	494,499	521,700	554,012	604,837	666,875	707,967
Business	248,126	266,427	275,728	297,188	318,410	333,243	360,291	386,385	426,193	481,799	517,431
Federal government	126,617	127,014	123,837	120,132	118,367	119,532	118,174	121,632	129,625	133,807	137,818
Nonfederal government	4,303	4,387	4,158	4,243	4,213	4,277	4,520	4,578	4,731	4,929	5,038
Higher education	12,262	13,103	14,300	15,378	16,210	17,292	18,415	19,555	20,682	21,562	22,607
Nonprofit organizations ^c	15,292	15,284	15,694	17,330	18,768	20,156	20,300	21,862	23,607	24,778	25,073
Millions of constant 2012 dollars											
All performing sectors	422,811	434,187	433,716	446,452	459,193	472,344	493,381	514,181	548,252	593,865	622,951
Business	290,100	299,593	302,251	316,977	328,719	339,879	358,928	376,617	403,879	443,634	468,063
Federal government	52,824	54,525	52,144	50,207	50,830	50,480	48,408	48,774	52,897	55,926	57,797
Federal intramural ^b	33,245	35,604	34,017	32,831	33,557	32,666	30,038	29,914	33,351	35,505	36,900
FFRDCs	19,579	18,921	18,128	17,376	17,272	17,813	18,370	18,861	19,546	20,421	20,897
Nonfederal government	719	707	665	609	563	568	586	587	583	601	613
Higher education	60,400	61,211	60,895	60,488	60,153	61,739	64,112	66,002	67,906	69,617	71,371
Nonprofit organizations ^c	18,769	18,150	17,762	18,171	18,928	19,678	21,347	22,201	22,988	24,086	25,107
All funding sources	422,811	434,187	433,716	446,452	459,193	472,344	493,381	514,181	548,252	593,865	622,951
Business	258,019	271,411	275,728	292,073	307,187	318,312	340,734	358,605	386,321	429,051	455,296
Federal government	131,665	129,390	123,837	118,064	114,195	114,177	111,759	112,887	117,498	119,157	121,268
Nonfederal government	4,475	4,469	4,158	4,170	4,065	4,085	4,275	4,249	4,288	4,389	4,433
Higher education	12,750	13,348	14,300	15,113	15,639	16,517	17,415	18,149	18,747	19,202	19,893
Nonprofit organizations ^c	15,902	15,570	15,694	17,031	18,107	19,253	19,198	20,290	21,398	22,065	22,062

FFRDC = federally funded research and development center.

^a The data for 2020 are estimates and are likely later to be revised.^b Includes expenditures of federal intramural R&D as well as costs associated with administering extramural R&D procurements.^c Some components of the 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&D Resources (2019–20 edition).

Science and Engineering Indicators