

Table DISC-1. U.S. R&D expenditures, by performing sector and source of funds: 2010–23

(Millions of current and constant 2017 dollars)

Performing sector and source of funds	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022 ^a	2023 ^b
Current \$millions														
All performing sectors	406,599	426,214	433,698	454,232	475,938	494,471	521,686	553,530	603,844	665,267	716,479	788,718	891,834	939,561
Business	278,977	294,092	302,251	322,528	340,728	355,821	379,529	405,792	445,563	498,175	543,220	608,625	697,256	734,959
Federal government	50,798	53,524	52,144	51,086	52,687	52,847	51,187	52,553	58,356	62,802	65,093	66,662	71,533	73,621
Federal intramural ^c	31,970	34,950	34,017	33,406	34,783	34,199	31,762	32,231	36,793	39,870	41,227	41,469	44,699	44,161
FFRDCs	18,828	18,574	18,128	17,680	17,903	18,649	19,424	20,322	21,563	22,932	23,866	25,193	26,834	29,460
Nonfederal government	691	694	665	620	583	595	620	632	643	675	683	685	719	742
Higher education	58,083	60,087	60,876	61,511	62,318	64,605	67,778	71,108	74,863	78,113	80,775	85,717	94,275	102,044
Nonprofit organizations	18,050	17,817	17,762	18,487	19,622	20,604	22,573	23,445	24,419	25,503	26,709	27,030	28,052	28,195
All funding sources	406,599	426,214	433,698	454,232	475,938	494,471	521,686	553,530	603,844	665,267	716,479	788,718	891,834	939,561
Business	248,126	266,426	275,728	297,188	318,410	333,243	360,291	386,533	426,472	482,199	520,324	590,946	673,127	709,161
Federal government	126,617	127,014	123,837	120,131	118,367	119,532	118,174	122,435	131,017	135,646	147,985	147,258	164,471	172,345
Nonfederal government	4,303	4,386	4,158	4,244	4,214	4,277	4,995	5,075	5,251	5,471	5,672	5,733	6,010	6,382
Higher education	12,262	13,103	14,282	15,341	16,176	17,260	18,729	19,878	20,987	21,882	22,557	23,786	26,560	29,043
Nonprofit organizations	15,292	15,284	15,694	17,327	18,771	20,160	19,497	19,608	20,118	20,070	19,940	20,996	21,665	22,629
Constant 2017 \$millions														
All performing sectors	453,633	465,904	465,418	479,297	493,604	508,109	531,030	553,530	590,321	639,808	680,024	715,899	755,622	768,410
Business	311,248	321,479	324,357	340,326	353,376	365,635	386,327	405,792	435,585	479,111	515,581	552,433	590,762	601,079
Federal government	56,674	58,508	55,958	53,905	54,643	54,305	52,103	52,553	57,049	60,398	61,781	60,507	60,608	60,210
Federal intramural ^c	35,668	38,205	36,504	35,250	36,074	35,142	32,331	32,231	35,969	38,344	39,129	37,640	37,872	36,116
FFRDCs	21,006	20,303	19,453	18,656	18,568	19,163	19,772	20,322	21,080	22,054	22,652	22,867	22,736	24,094
Nonfederal government	771	758	713	654	605	611	631	632	629	649	648	622	609	607
Higher education	64,802	65,682	65,328	64,905	64,631	66,386	68,991	71,108	73,186	75,123	76,665	77,803	79,876	83,456
Nonprofit organizations	20,138	19,476	19,061	19,507	20,350	21,172	22,977	23,445	23,872	24,527	25,350	24,534	23,768	23,059
All funding sources	453,633	465,904	465,418	479,297	493,604	508,109	531,030	553,530	590,321	639,808	680,024	715,899	755,622	768,410
Business	276,828	291,237	295,894	313,588	330,229	342,434	366,744	386,533	416,921	463,746	493,850	536,386	570,319	579,981
Federal government	141,263	138,842	132,894	126,760	122,760	122,829	120,290	122,435	128,082	130,455	140,456	133,662	139,351	140,950
Nonfederal government	4,800	4,795	4,462	4,478	4,370	4,394	5,084	5,075	5,133	5,262	5,384	5,204	5,092	5,219
Higher education	13,680	14,323	15,326	16,188	16,776	17,736	19,064	19,878	20,517	21,044	21,409	21,590	22,504	23,753
Nonprofit organizations	17,061	16,707	16,841	18,284	19,468	20,716	19,846	19,608	19,668	19,302	18,925	19,057	18,356	18,507

FFRDC = federally funded research and development center.

^a Some data for 2022 are preliminary and may be revised later.

^b The data for 2023 include estimates and are likely to be revised later.

^c Federal intramural includes expenditures of federal intramural R&D as well as costs associated with administering extramural R&D.

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 (2022–23 edition).

Science and Engineering Indicators