

Table 2**U.S. R&D expenditures, by performing sector, source of funds, and type of work: 2018**

(Millions of dollars and percent distribution)

Performing sector and type of work	Total	Source of funds (\$millions)					Percent distribution by performer
		Business	Federal government	Nonfederal government	Higher education	Nonprofit organizations	
R&D	606,085	425,999	129,610	4,762	20,704	25,010	100.0
Business	445,637	419,268	25,199	120	*	1,049	73.5
Federal government	58,356	194	57,956	45	*	162	9.6
Federal intramural	36,793	0	36,793	0	0	0	6.1
FFRDCs	21,563	194	21,163	45	*	162	3.6
Nonfederal government	656	*	269	387	*	*	0.1
Higher education	74,897	4,580	37,736	4,210	20,704	7,669	12.4
Nonprofit organizations	26,538	1,957	8,451	*	*	16,130	4.4
Percent distribution by funding source	100.0	70.3	21.4	0.8	3.4	4.1	-
Basic research	101,123	30,261	41,562	2,526	12,961	13,813	100.0
Business	29,208	26,549	2,536	12	*	112	28.9
Federal government	11,096	39	11,015	9	*	33	11.0
Federal intramural	6,827	0	6,827	0	0	0	6.8
FFRDCs	4,269	39	4,188	9	*	33	4.2
Nonfederal government	120	*	49	70	*	*	0.1
Higher education	46,983	2,587	24,288	2,435	12,961	4,713	46.5
Nonprofit organizations	13,717	1,087	3,675	*	*	8,956	13.6
Percent distribution by funding source	100.0	29.9	41.1	2.5	12.8	13.7	-
Applied research	116,319	62,989	39,756	1,636	5,544	6,394	100.0
Business	66,609	61,036	5,359	23	*	191	57.3
Federal government	19,704	90	19,518	21	*	75	16.9
Federal intramural	11,111	0	11,111	0	0	0	9.6
FFRDCs	8,593	90	8,407	21	*	75	7.4
Nonfederal government	514	*	211	303	*	*	0.4
Higher education	20,899	1,368	10,658	1,289	5,544	2,041	18.0
Nonprofit organizations	8,593	496	4,009	*	*	4,088	7.4
Percent distribution by funding source	100.0	54.2	34.2	1.4	4.8	5.5	-
Experimental development	388,642	332,748	48,292	600	2,199	4,804	100.0
Business	349,820	331,682	17,304	85	*	748	90.0
Federal government	27,556	65	27,422	15	*	54	7.1
Federal intramural	18,856	0	18,856	0	0	0	4.9
FFRDCs	8,700	65	8,567	15	*	54	2.2
Nonfederal government	23	*	9	13	*	*	0.0
Higher education	7,016	626	2,790	486	2,199	916	1.8
Nonprofit organizations	4,228	374	767	*	*	3,086	1.1
Percent distribution by funding source	100.0	85.6	12.4	0.2	0.6	1.2	-

* = small to negligible amount, included as part of the funding provided by other sectors.

FFRDC = federally funded research and development center.

Note(s):

R&D performed by nonprofit organizations are estimated and may later be revised.

Source(s):

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