

Table 4**U.S. R&D expenditures, by performing sector, source of funds, and type of R&D: 2022**

(Millions of dollars and percent)

Performing sector and type of R&D	Source of funds (\$millions)						Percent distribution by performer
	Total	Business	Federal government	Nonfederal government	Higher education	Nonprofit organizations	
R&D	891,834	673,127	164,471	6,010	26,560	21,665	100.0
Business	697,256	663,717	32,321	244	**	974	78.2
Federal government	71,533	212	71,123	38	**	161	8.0
Federal intramural	44,699	0	44,699	0	0	0	5.0
FFRDCs	26,834	212	26,424	38	**	161	3.0
Nonfederal government	719	16	321	369	3	11	0.1
Higher education	94,275	5,590	49,059	4,945	26,121	8,560	10.6
Nonprofit organizations	28,052	3,593	11,648	415	437	11,959	3.1
Percent distribution by funding source	100.0	75.5	18.4	0.7	3.0	2.4	-
Basic research	130,252	45,778	52,866	3,249	16,831	11,527	100.0
Business	43,355	40,768	2,480	21	**	86	33.3
Federal government	13,247	39	13,171	7	**	30	10.2
Federal intramural	7,859	0	7,859	0	0	0	6.0
FFRDCs	5,388	39	5,312	7	**	30	4.1
Nonfederal government	121	3	54	62	1	2	0.1
Higher education	59,619	3,139	31,605	2,948	16,609	5,320	45.8
Nonprofit organizations	13,910	1,829	5,556	211	222	6,090	10.7
Percent distribution by funding source	100.0	35.1	40.6	2.5	12.9	8.8	-
Applied research	161,627	99,467	47,307	1,961	6,955	5,937	100.0
Business	102,688	96,727	5,614	71	**	276	63.5
Federal government	23,501	98	23,312	17	**	74	14.5
Federal intramural	12,745	0	12,745	0	0	0	7.9
FFRDCs	10,757	98	10,568	17	**	74	6.7
Nonfederal government	557	12	248	285	2	8	0.3
Higher education	25,605	1,632	13,410	1,473	6,832	2,259	15.8
Nonprofit organizations	9,277	997	4,724	115	121	3,320	5.7
Percent distribution by funding source	100.0	61.5	29.3	1.2	4.3	3.7	-
Experimental development	599,959	527,883	64,298	799	2,774	4,205	100.0
Business	551,217	526,222	24,227	152	**	616	91.9
Federal government	34,784	75	34,639	13	**	57	5.8
Federal intramural	24,095	0	24,095	0	0	0	4.0
FFRDCs	10,690	75	10,544	13	**	57	1.8
Nonfederal government	42	1	19	21	*	1	0.0
Higher education	9,051	820	4,045	525	2,681	982	1.5
Nonprofit organizations	4,865	766	1,368	88	93	2,550	0.8
Percent distribution by funding source	100.0	88.0	10.7	0.1	0.5	0.7	-

* = amount < \$0.5 million; ** = small to negligible amount, included as part of the funding provided by nonprofit organizations.

FFRDC = federally funded research and development center.

Note(s):

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

Source(s):

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