Table 9. U.S. experimental development expenditures, by source of funds and performer: 1953–2024

(Millions of current and of constant 2017 dollars)

	All funding sources	Federal							Nonfederal government					Business					Higher education		Nonprofit				
Year	All performers	Total	Federal intramural	FFRDC	Nonfederal government	Business	Higher education	Nonprofit	Total	FFRDC	Nonfederal government	Business	Higher education	Total	FFRDC	Business	Higher education	Nonprofit	Total	Higher education	Total	FFRDC	Business	Higher education	Nonprofit
Current $millions																									
1953	3,412	1,762	567	48	NA	1,123	9	17	3	NA	NA	NA	3	1,637	NA	1,630	1	6	3	3	7	NA	NA	1	6
1954	3,734	2,027	537	62	NA	1,405	9	15	3	NA	NA	NA	3	1,693	NA	1,685	1	7	3	3	8	NA	NA	1	7
1955	4,113	2,351	543	171	NA	1,614	12	12	4	NA	NA	NA	4	1,748	NA	1,738	2	8	3	3	8	NA	NA	1	7
1956	5,854	3,561	631	348	NA	2,559	14	11	4	NA	NA	NA	4	2,277	NA	2,267	2	8	4	4	9	NA	NA	2	7
1957	6,681	4,477	728	429	NA	3,300	12	9	5	NA	NA	NA	5	2,185	NA	2,174	3	8	4	4	10	NA	NA	2	8
1958	7,213	4,940	842	386	NA	3,691	13	9	6	NA	NA	NA	6	2,252	NA	2,241	3	8	4	4	11	NA	NA	2	9
1959	8,463	5,871	940	477	NA	4,426	16	14	6	NA	NA	NA	6	2,569	NA	2,557	3	9	5	5	12	NA	NA	2	10
1960	9,360	6,390	1,003	559	NA	4,799	19	10	6	NA	NA	NA	6	2,948	NA	2,935	3	10	5	5	12	NA	NA	2	10
1961	9,930	6,701	1,090	670	NA	4,917	22	4	7	NA	NA	NA	7	3,201	NA	3,189	2	10	5	5	16	NA	NA	2	14
1962	10,114	6,822	1,227	618	NA	4,950	23	5	8	NA	NA	NA	8	3,259	NA	3,246	2	11	6	6	20	NA	NA	2	18
1963	11,539	7,955	1,465	668	NA	5,795	22	6	8	NA	NA	NA	8	3,548	NA	3,535	2	11	6	6	22	NA	NA	2	20
1964	12,506	8,610	1,680	739	NA	6,156	30	6	8	NA	NA	NA	8	3,861	NA	3,848	2	11	7	7	21	NA	NA	3	18
1965	13,215	8,742	1,789	674	NA	6,218	48	13	9	NA	NA	NA	9	4,433	NA	4,419	2	12	8	8	24	NA	NA	4	20
1966	14,490	9,466	1,886	654	NA	6,849	61	16	9	NA	NA	NA	9	4,977	NA	4,961	2	14	10	10	28	NA	NA	5	23
1967	15,332	9,521	1,943	706	NA	6,795	66	12	9	NA	NA	NA	9	5,762	NA	5,744	3	15	10	10	31	NA	NA	7	24
1968	16,154	9,756	1,904	724	NA	7,044	72	13	8	NA	NA	NA	8	6,346	NA	6,326	4	16	9	9	35	NA	NA	9	26
1969	17,051	9,848	2,016	792	NA	6,944	80	17	7	NA	NA	NA	7	7,150	NA	7,127	5	18	8	8	38	NA	NA	10	28
1970	16,925	9,382	2,258	790	NA	6,232	84	20	6	NA	NA	NA	6	7,489	NA	7,466	5	18	7	7	40	NA	NA	10	30
1971	17,399	9,561	2,473	841	NA	6,167	69	12	8	NA	NA	NA	8	7,780	NA	7,757	4	19	9	9	42	NA	NA	9	33
1972	18,743	10,141	2,639	863	NA	6,533	63	44	12	NA	NA	NA	12	8,533	NA	8,510	4	19	14	14	44	NA	NA	9	35
1973	20,197	10,311	2,657	860	NA	6,621	71	102	18	NA	NA	NA	18	9,798	NA	9,773	5	20	20	20	51	NA	NA	13	38
1974	21,504	10,506	2,765	983	NA	6,553	75	131	20	NA	NA	NA	20	10,896	NA	10,868	7	22	25	25	57	NA	NA	15	42
1975	22,706	10,993	2,890	1,103	NA	6,783	83	135	22	NA	NA	NA	22	11,600	NA	11,569	8	23	27	27	63	NA	NA	16	47
1976	25,085	12,035	2,972	1,315	NA	7,522	100	128	24	NA	NA	NA	24	12,927	NA	12,890	12	25	31	31	68	NA	NA	16	52
1977	27,667	13,153	3,188	1,418	NA	8,275	153	119	28	NA	NA	NA	28	14,370	NA	14,328	15	27	40	40	76	NA	NA	19	58
1978	31,056	14,383	3,676	1,584	NA	8,756	254	113	32	NA	NA	NA	32	16,504	NA	16,460	15	30	49	49	88	NA	NA	24	64
1979	35,445	16,064	3,944	1,753	NA	9,888	336	143	34	NA	NA	NA	34	19,193	NA	19,145	16	32	56	56	99	NA	NA	28	71
1980	40,748	17,587	4,072	2,009	NA	10,957	362	187	38	NA	NA	NA	38	22,945	NA	22,891	19	35	68	68	110	NA	NA	31	79
1981	46,305	20,242	4,530	2,175	NA	12,791	386	360	44	NA	NA	NA	44	25,817	NA	25,756	24	37	80	80	123	NA	NA	35	88
1982	51,879	22,323	5,178	2,170	NA	14,215	397	362	46	NA	NA	NA	46	29,286	NA	29,219	27	40	88	88	137	NA	NA	39	98
1983	57,771	24,859	6,106	2,385	NA	15,522	399	447	47	NA	NA	NA	47	32,617	NA	32,542	31	44	97	97	151	NA	NA	43	109
1984	66,461	28,320	7,078	2,572	NA	17,640	435	594	51	NA	NA	NA	51	37,815	NA	37,731	37	47	108	108	167	NA	NA	47	120
1985	74,522	32,304	8,011	2,906	NA	20,258	486	644	57	NA	NA	NA	57	41,857	NA	41,762	43	51	120	120	183	NA	NA	49	134
1986	75,855	33,993	8,275	3,101	NA	21,517	513	587	65	NA	NA	NA	65	41,460	NA	41,354	50	55	136	136	201	NA	NA	53	149
1987	79,929	36,691	8,176	3,321	NA	24,122	599	474	73	NA	NA	NA	73	42,784	NA	42,667	57	60	155	155	226	NA	NA	61	165
1988	84,567	37,285	8,864	3,596	NA	23,719	698	407	83	NA	NA	NA	83	46,765	NA	46,634	66	65	180	180	254	NA	NA	71	183

Table 9. U.S. experimental development expenditures, by source of funds and performer: 1953–2024

(Millions of current and of constant 2017 dollars)

	All funding sources	Federal							Nonfederal government					Business					Higher education		Nonprofit				
Year	All performers	Total	Federal intramural	FFRDC	Nonfederal government	Business	Higher education	Nonprofit	Total	FFRDC	Nonfederal government	Business	Higher education	Total	FFRDC	Business	Higher education	Nonprofit	Total	Higher education	Total	FFRDC	Business	Higher education	Nonprofit
1989	87,723	35,320	9,355	3,635	NA	21,049	773	507	91	NA	NA	NA	91	51,822	NA	51,676	76	70	205	205	285	NA	NA	81	203
1990	94,067	33,859	9,700	3,663	NA	18,966	910	619	99	NA	NA	NA	99	59,568	NA	59,410	83	75	226	226	315	NA	NA	89	226
1991	95,105	31,220	8,778	3,452	NA	17,256	1,012	722	103	NA	NA	NA	103	63,197	NA	63,030	86	82	239	239	345	NA	NA	94	251
1992	99,811	31,514	9,098	3,423	NA	17,181	1,055	758	105	NA	NA	NA	105	67,567	NA	67,388	91	88	246	246	378	NA	NA	100	279
1993	99,705	30,055	9,071	2,986	NA	16,083	1,127	787	109	NA	NA	NA	109	68,866	NA	68,674	97	95	259	259	416	NA	NA	107	309
1994	102,938	30,208	8,823	3,147	NA	16,209	1,213	815	114	NA	NA	NA	114	71,886	NA	71,681	102	103	276	276	455	NA	NA	112	343
1995	113,079	32,436	9,262	3,427	NA	17,824	1,180	744	123	NA	NA	NA	123	79,738	NA	79,518	108	111	288	288	495	NA	NA	113	381
1996	121,377	31,373	9,033	3,448	NA	17,066	1,128	698	128	NA	NA	NA	128	89,032	NA	88,797	115	120	305	305	538	NA	NA	115	423
1997	128,661	32,256	9,077	3,331	NA	18,121	1,041	687	120	NA	NA	NA	120	95,331	NA	95,063	113	155	306	306	648	NA	NA	112	536
1998	144,669	32,684	9,214	3,314	NA	18,452	943	760	113	NA	NA	NA	113	110,865	NA	110,589	112	164	306	306	702	NA	NA	110	592
1999	154,315	30,584	9,265	3,335	NA	16,571	686	727	117	NA	NA	NA	117	122,530	NA	122,236	116	178	325	325	759	NA	NA	118	641
2000	169,414	27,493	9,377	3,482	NA	13,510	545	580	123	NA	NA	NA	123	140,549	NA	140,235	119	195	352	352	897	NA	NA	127	771
2001	167,975	28,690	11,062	3,566	NA	12,542	646	874	132	4	NA	NA	128	137,749	24	137,410	117	197	381	381	1,024	37	NA	136	850
2002	176,971	30,199	11,800	3,763	NA	13,061	639	937	143	3	NA	NA	140	145,048	14	144,727	116	191	425	425	1,155	28	NA	151	976
2003	175,559	30,190	12,646	3,964	NA	11,939	897	743	158	2	NA	NA	155	143,443	9	143,121	118	195	467	467	1,301	17	NA	162	1,122
2004	177,030	34,131	12,746	4,454	NA	14,419	1,211	1,300	164	3	NA	NA	161	140,947	13	140,615	120	199	481	481	1,307	17	NA	167	1,123
2005	195,621	36,475	13,994	4,611	NA	15,512	1,146	1,211	163	5	NA	NA	158	157,053	23	156,696	122	212	501	501	1,428	30	NA	170	1,228
2006	212,857	38,888	16,089	4,547	2	16,720	927	603	167	6	5	NA	156	171,780	36	171,392	126	226	520	520	1,502	41	NA	173	1,287
2007	227,740	39,378	18,016	5,037	3	14,860	894	568	177	8	6	NA	163	185,985	42	185,569	133	240	540	540	1,660	51	NA	186	1,423
2008	259,579	54,540	17,566	6,078	4	29,488	841	562	417	7	7	223	179	201,848	45	201,406	148	250	589	589	2,185	47	330	209	1,600
2009	255,959	55,936	17,245	6,147	5	30,435	1,555	550	443	8	9	144	283	196,175	39	195,614	282	241	895	895	2,509	46	361	363	1,740
2010	251,259	56,952	18,844	6,909	6	28,089	2,467	638	532	11	10	114	398	189,540	40	188,850	409	242	1,190	1,190	3,047	45	648	499	1,855
2011	270,816	58,299	21,879	6,786	6	26,228	2,610	790	638	6	10	230	392	207,738	41	207,025	416	256	1,282	1,282	2,859	39	403	521	1,896
2012	273,095	55,575	19,941	6,632	6	25,840	2,638	518	489	10	9	102	368	212,701	43	211,949	445	263	1,458	1,458	2,872	40	310	580	1,942
2013	287,020	51,563	19,767	6,572	6	22,137	2,607	474	532	11	8	126	387	230,026	49	229,213	484	280	1,597	1,597	3,303	36	531	621	2,115
2014	301,460	48,101	20,303	6,681	6	18,065	2,576	471	501	7	8	87	400	247,492	57	246,601	538	296	1,729	1,729	3,637	36	624	693	2,284
2015	313,003	47,848	18,961	7,063	6	18,850	2,547	422	504	6	8	90	401	258,754	61	257,831	555	307	1,855	1,855	4,042	41	786	775	2,439
2016	324,758	43,228	15,838	7,479	7	16,790	2,595	520	659	8	11	129	420	274,939	64	273,926	564	386	2,127	1,966	3,805	50	664	863	2,228
2017	350,147	44,927	15,848	8,021	9	17,736	2,687	626	651	11	12	92	447	298,821	64	297,747	609	400	2,216	2,101	3,531	51	504	930	2,047
2018	387,841	48,524	18,856	8,567	9	17,301	2,814	977	684	15	12	85	484	332,750	65	331,637	628	420	2,312	2,204	3,569	54	693	913	1,910
2019	430,332	49,094	21,253	8,962	13	15,058	3,094	714	726	17	16	112	490	374,797	60	373,631	637	468	2,316	2,225	3,397	56	577	878	1,886
2020	472,533	58,656	22,356	9,379	19	21,666	3,412	1,824	761	15	22	134	491	407,318	62	406,060	661	533	2,373	2,279	3,425	58	577	886	1,904
2021	526,415	57,910	23,728	9,915	20	18,690	3,668	1,890	820	15	23	211	501	461,024	72	459,578	721	651	2,546	2,437	4,116	61	543	913	2,598
2022	600,025	64,343	24,095	10,544	19	24,227	4,091	1,368	802	13	21	152	527	527,885	75	526,222	821	766	2,821	2,693	4,171	57	579	985	2,551
2023[a]	625,019	68,883	25,891	11,722	19	25,071	4,567	1,613	905	12	23	168	600	547,656	75	545,884	888	809	3,231	3,084	4,345	60	513	1,102	2,669
2024[b]	668,183	80,272	33,667	12,767	19	27,246	4,881	1,692	990	11	24	164	654	578,629	77	576,763	920	848	3,556	3,404	4,737	65	499	1,178	2,799
Constant 2017 $millions																									

Table 9. U.S. experimental development expenditures, by source of funds and performer: 1953–2024

(Millions of current and of constant 2017 dollars)

	All funding sources	Federal							Nonfederal government					Business					Higher education		Nonprofit				
Year	All performers	Total	Federal intramural	FFRDC	Nonfederal government	Business	Higher education	Nonprofit	Total	FFRDC	Nonfederal government	Business	Higher education	Total	FFRDC	Business	Higher education	Nonprofit	Total	Higher education	Total	FFRDC	Business	Higher education	Nonprofit
1953	25,371	13,104	4,213	353	NA	8,352	63	123	21	NA	NA	NA	21	12,174	NA	12,122	7	45	20	20	52	NA	NA	7	45
1954	27,517	14,934	3,957	453	NA	10,354	63	107	25	NA	NA	NA	25	12,476	NA	12,417	7	52	23	23	59	NA	NA	7	52
1955	29,804	17,033	3,931	1,235	NA	11,697	83	87	28	NA	NA	NA	28	12,662	NA	12,593	11	58	23	23	58	NA	NA	7	51
1956	41,019	24,949	4,418	2,435	NA	17,928	95	74	31	NA	NA	NA	31	15,954	NA	15,884	14	56	25	25	60	NA	NA	11	49
1957	45,319	30,369	4,935	2,910	NA	22,386	81	58	36	NA	NA	NA	36	14,817	NA	14,746	17	54	29	29	68	NA	NA	14	54
1958	47,835	32,761	5,581	2,557	NA	24,481	83	60	37	NA	NA	NA	37	14,935	NA	14,862	20	53	29	29	73	NA	NA	13	60
1959	55,355	38,404	6,148	3,117	NA	28,949	101	88	39	NA	NA	NA	39	16,804	NA	16,725	20	59	30	30	78	NA	NA	13	65
1960	60,404	41,234	6,469	3,607	NA	30,970	123	65	41	NA	NA	NA	41	19,021	NA	18,941	16	65	30	30	77	NA	NA	13	65
1961	63,411	42,792	6,957	4,278	NA	31,396	137	22	44	NA	NA	NA	44	20,441	NA	20,364	13	64	33	33	102	NA	NA	13	89
1962	63,811	43,039	7,741	3,899	NA	31,228	142	28	49	NA	NA	NA	49	20,562	NA	20,480	13	69	37	37	126	NA	NA	13	114
1963	71,971	49,618	9,137	4,166	NA	36,143	137	34	49	NA	NA	NA	49	22,129	NA	22,048	12	69	38	38	137	NA	NA	12	125
1964	76,832	52,896	10,321	4,540	NA	37,820	181	34	49	NA	NA	NA	49	23,720	NA	23,641	12	68	40	40	126	NA	NA	15	111
1965	79,732	52,741	10,791	4,067	NA	37,516	290	78	52	NA	NA	NA	52	26,746	NA	26,662	12	72	47	47	145	NA	NA	24	121
1966	85,040	55,554	11,069	3,835	NA	40,197	358	94	55	NA	NA	NA	55	29,210	NA	29,116	12	82	57	57	164	NA	NA	29	135
1967	87,441	54,302	11,082	4,024	NA	38,754	374	68	48	NA	NA	NA	48	32,860	NA	32,760	14	86	57	57	174	NA	NA	37	137
1968	88,364	53,365	10,415	3,958	NA	38,533	391	68	42	NA	NA	NA	42	34,714	NA	34,605	22	88	51	51	191	NA	NA	49	142
1969	88,916	51,354	10,512	4,128	NA	36,212	415	89	37	NA	NA	NA	37	37,286	NA	37,166	26	94	41	41	198	NA	NA	52	146
1970	83,834	46,474	11,184	3,911	NA	30,869	414	97	32	NA	NA	NA	32	37,095	NA	36,981	25	89	35	35	198	NA	NA	50	149
1971	82,018	45,069	11,656	3,962	NA	29,072	325	54	37	NA	NA	NA	37	36,675	NA	36,567	19	90	41	41	196	NA	NA	40	156
1972	84,697	45,824	11,926	3,897	NA	29,521	282	197	56	NA	NA	NA	56	38,557	NA	38,455	16	86	61	61	199	NA	NA	41	158
1973	86,522	44,171	11,383	3,684	NA	28,364	302	437	75	NA	NA	NA	75	41,975	NA	41,867	21	86	86	86	216	NA	NA	54	163
1974	84,522	41,296	10,870	3,862	NA	25,757	293	515	79	NA	NA	NA	79	42,827	NA	42,717	26	85	96	96	225	NA	NA	59	166
1975	81,677	39,543	10,395	3,968	NA	24,400	297	484	80	NA	NA	NA	80	41,729	NA	41,616	29	84	99	99	226	NA	NA	58	169
1976	85,529	41,035	10,132	4,482	NA	25,646	339	435	82	NA	NA	NA	82	44,074	NA	43,949	39	86	106	106	232	NA	NA	55	178
1977	88,815	42,223	10,234	4,553	NA	26,564	491	382	89	NA	NA	NA	89	46,129	NA	45,994	47	88	129	129	245	NA	NA	59	186
1978	93,140	43,137	11,026	4,752	NA	26,260	761	338	96	NA	NA	NA	96	49,498	NA	49,365	43	89	147	147	263	NA	NA	70	193
1979	98,162	44,488	10,922	4,855	NA	27,384	932	396	95	NA	NA	NA	95	53,151	NA	53,020	43	89	155	155	274	NA	NA	76	198
1980	103,496	44,670	10,344	5,103	NA	27,830	919	475	97	NA	NA	NA	97	58,278	NA	58,141	49	88	172	172	279	NA	NA	78	201
1981	107,446	46,969	10,512	5,047	NA	29,680	895	835	101	NA	NA	NA	101	59,906	NA	59,764	55	87	185	185	285	NA	NA	81	204
1982	113,373	48,782	11,316	4,742	NA	31,064	869	792	100	NA	NA	NA	100	64,000	NA	63,853	58	88	193	193	299	NA	NA	85	214
1983	121,493	52,279	12,840	5,016	NA	32,643	840	940	99	NA	NA	NA	99	68,593	NA	68,436	65	92	205	205	318	NA	NA	90	228
1984	134,899	57,482	14,367	5,221	NA	35,805	882	1,207	104	NA	NA	NA	104	76,755	NA	76,584	75	96	219	219	339	NA	NA	94	245
1985	146,621	63,559	15,761	5,717	NA	39,858	956	1,267	113	NA	NA	NA	113	82,353	NA	82,167	85	101	236	236	360	NA	NA	97	263
1986	146,301	65,562	15,959	5,982	NA	41,499	990	1,131	126	NA	NA	NA	126	79,962	NA	79,759	97	107	263	263	388	NA	NA	102	287
1987	150,429	69,054	15,387	6,250	NA	45,399	1,127	892	138	NA	NA	NA	138	80,521	NA	80,301	107	112	292	292	424	NA	NA	114	311
1988	153,736	67,781	16,114	6,538	NA	43,119	1,269	741	150	NA	NA	NA	150	85,015	NA	84,777	120	117	326	326	463	NA	NA	130	333
1989	153,456	61,786	16,366	6,359	NA	36,822	1,353	887	160	NA	NA	NA	160	90,653	NA	90,398	133	122	358	358	498	NA	NA	142	356

Table 9. U.S. experimental development expenditures, by source of funds and performer: 1953–2024

(Millions of current and of constant 2017 dollars)

	All funding sources	Federal							Nonfederal government					Business					Higher education		Nonprofit				
Year	All performers	Total	Federal intramural	FFRDC	Nonfederal government	Business	Higher education	Nonprofit	Total	FFRDC	Nonfederal government	Business	Higher education	Total	FFRDC	Business	Higher education	Nonprofit	Total	Higher education	Total	FFRDC	Business	Higher education	Nonprofit
1990	158,618	57,093	16,357	6,177	NA	31,981	1,534	1,044	168	NA	NA	NA	168	100,445	NA	100,178	140	127	382	382	531	NA	NA	150	381
1991	155,121	50,922	14,317	5,631	NA	28,145	1,650	1,178	168	NA	NA	NA	168	103,079	NA	102,805	140	133	391	391	563	NA	NA	153	409
1992	159,169	50,256	14,508	5,459	NA	27,399	1,682	1,209	168	NA	NA	NA	168	107,750	NA	107,464	145	140	392	392	603	NA	NA	159	444
1993	155,319	46,818	14,131	4,652	NA	25,054	1,756	1,225	170	NA	NA	NA	170	107,279	NA	106,979	152	148	404	404	649	NA	NA	167	482
1994	157,003	46,073	13,457	4,800	NA	24,722	1,850	1,243	173	NA	NA	NA	173	109,642	NA	109,329	155	157	420	420	694	NA	NA	170	524
1995	168,929	48,457	13,837	5,120	NA	26,627	1,762	1,111	183	NA	NA	NA	183	119,121	NA	118,792	162	166	430	430	739	NA	NA	169	570
1996	178,066	46,026	13,252	5,059	NA	25,037	1,655	1,023	188	NA	NA	NA	188	130,614	NA	130,269	169	176	448	448	789	NA	NA	168	621
1997	185,551	46,518	13,090	4,803	NA	26,133	1,502	990	174	NA	NA	NA	174	137,482	NA	137,096	163	223	442	442	935	NA	NA	161	774
1998	206,320	46,612	13,141	4,727	NA	26,315	1,345	1,084	161	NA	NA	NA	161	158,110	NA	157,716	159	234	436	436	1,001	NA	NA	157	844
1999	217,005	43,009	13,029	4,690	NA	23,303	965	1,022	165	NA	NA	NA	165	172,307	NA	171,893	163	250	457	457	1,067	NA	NA	166	901
2000	232,958	37,805	12,894	4,788	NA	18,577	749	797	168	NA	NA	NA	168	193,266	NA	192,835	163	268	484	484	1,234	NA	NA	174	1,060
2001	225,895	38,582	14,876	4,796	NA	16,867	869	1,175	178	5	NA	NA	173	185,246	33	184,791	158	265	512	512	1,377	50	NA	183	1,143
2002	234,351	39,991	15,626	4,983	NA	17,296	846	1,240	189	4	NA	NA	185	192,078	18	191,653	154	253	563	563	1,530	37	NA	200	1,293
2003	227,980	39,204	16,422	5,148	NA	15,504	1,165	965	205	3	NA	NA	202	186,274	12	185,856	153	254	606	606	1,690	22	NA	211	1,457
2004	223,871	43,162	16,119	5,632	NA	18,234	1,532	1,645	208	4	NA	NA	204	178,240	16	177,821	151	252	608	608	1,653	22	NA	211	1,420
2005	239,860	44,723	17,159	5,654	NA	19,020	1,406	1,484	200	7	NA	NA	194	192,571	29	192,133	150	260	614	614	1,752	37	NA	208	1,506
2006	253,184	46,256	19,138	5,408	3	19,888	1,102	717	199	8	6	NA	186	204,325	42	203,864	150	269	618	618	1,786	49	NA	206	1,531
2007	263,743	45,603	20,864	5,833	4	17,209	1,036	657	205	9	7	NA	189	215,387	49	214,905	154	278	626	626	1,922	59	NA	216	1,648
2008	294,933	61,968	19,959	6,906	5	33,504	956	639	474	8	8	254	203	229,339	51	228,836	168	284	669	669	2,483	53	374	237	1,818
2009	289,037	63,165	19,474	6,941	6	34,368	1,756	621	501	9	10	162	319	221,527	44	220,893	318	272	1,010	1,010	2,834	51	407	410	1,965
2010	280,323	63,539	21,023	7,708	7	31,338	2,752	711	593	12	11	127	443	211,465	44	210,695	456	270	1,327	1,327	3,399	50	723	557	2,069
2011	296,036	63,728	23,917	7,418	7	28,670	2,853	864	698	7	11	251	429	227,084	45	226,304	455	280	1,401	1,401	3,125	42	441	570	2,073
2012	293,069	59,639	21,400	7,117	7	27,730	2,830	556	525	11	10	110	395	228,258	46	227,451	478	283	1,565	1,565	3,083	43	333	622	2,084
2013	302,858	54,408	20,858	6,935	6	23,359	2,750	500	561	12	9	133	408	242,719	52	241,861	511	295	1,685	1,685	3,485	38	560	655	2,232
2014	312,650	49,887	21,056	6,929	6	18,736	2,672	489	519	7	8	90	414	256,679	60	255,755	557	307	1,793	1,793	3,772	37	647	718	2,369
2015	321,636	49,168	19,484	7,258	6	19,370	2,617	434	518	6	8	92	412	265,891	63	264,942	570	316	1,906	1,906	4,153	43	808	796	2,506
2016	330,574	44,002	16,122	7,612	7	17,090	2,641	529	671	8	11	132	427	279,864	65	278,832	574	392	2,165	2,001	3,873	51	676	878	2,268
2017	350,147	44,927	15,848	8,021	9	17,736	2,687	626	651	11	12	92	447	298,821	64	297,747	609	400	2,216	2,101	3,531	51	504	930	2,047
2018	379,155	47,437	18,433	8,375	9	16,914	2,751	955	669	15	12	83	473	325,299	63	324,210	613	411	2,260	2,154	3,490	53	677	892	1,867
2019	413,864	47,216	20,440	8,619	13	14,482	2,976	687	699	16	15	107	471	360,454	57	359,333	612	451	2,228	2,140	3,267	53	555	844	1,814
2020	448,419	55,663	21,215	8,900	18	20,560	3,237	1,731	723	14	21	128	465	386,532	59	385,338	627	506	2,251	2,162	3,250	55	548	840	1,807
2021	477,753	52,557	21,534	8,998	18	16,963	3,328	1,715	744	14	20	191	454	418,406	66	417,095	654	591	2,311	2,212	3,735	55	493	829	2,358
2022	508,397	54,518	20,415	8,934	16	20,527	3,466	1,159	679	11	18	129	446	447,274	64	445,864	696	649	2,391	2,281	3,534	48	490	834	2,161
2023[a]	510,679	56,282	21,155	9,577	16	20,485	3,732	1,318	739	9	19	137	490	447,469	61	446,020	725	661	2,640	2,519	3,550	49	419	900	2,180
2024[b]	532,722	63,998	26,842	10,179	15	21,722	3,891	1,349	790	9	19	131	522	461,323	61	459,836	733	676	2,835	2,714	3,777	52	398	939	2,232

NA = not available.

FFRDC = federally funded research and development center; NPO = nonprofit organization.

[a] Some data for 2023 are preliminary and may be revised later.
[b] The data for 2024 include estimates and are likely to be revised later.

Note(s):
This table reaggregates the R&D performer data in table 5 according to major categories of R&D funding: federal government, nonfederal government (state and local), business, higher education, and NPOs. Business sources of R&D funding in this table include the own funds of domestic R&D-performing businesses, funds from other domestic businesses, and funds from foreign businesses. For further detail on the R&D performers listed, see table 2, footnotes a–g. For detail on type-of-R&D data, see table 3, footnotes b–f. Detail may not add to total because of rounding. Constant-dollar estimates are derived from unrounded data. For trend comparisons, use only the historical data reported in this table because some back-year data may have been revised. Data are based on reports by performers in the National Center for Science and Engineering Statistics annual surveys on R&D expenditures: Business Enterprise Research and Development Survey, Annual Business Survey, Higher Education Research and Development Survey, Survey of Federal Funds for Research and Development, Federal Facilities Research and Development Survey, FFRDC Research and Development Survey, and Survey of State Government Research and Development. R&D expenditures by business performers—and, before 2001, also industry-administered FFRDCs—were collected on a calendar year basis. Expenditures for other performers are calendar year approximations based on fiscal year data. (See also table 5, general notes.)

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