

TABLE 9

U.S. development expenditures, by source of funds and performing sector: 1953–2018

(Millions of current and of constant 2012 dollars)

Year	All funding sources		Federal						Nonfederal government					Business					Higher education		Other nonprofit organizations				
	All performers	Total	Federal intramural	FFRDC	Nonfederal government	Business	Higher education	ONP	Total	FFRDC	Nonfederal government	Business	Higher education	Total	FFRDC	Business	Higher education	ONP	Higher education	Total	FFRDC	Business	Higher education	ONP	
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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	183	NA	NA	49	134	

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U.S. development expenditures, by source of funds and performing sector: 1953–2018

(Millions of current and of constant 2012 dollars)

Year	All funding sources		Federal						Nonfederal government					Business					Higher education		Other nonprofit organizations				
	All performers	Total	Federal intramural	FFRDC	Nonfederal government	Business	Higher education	ONP	Total	FFRDC	Nonfederal government	Business	Higher education	Total	FFRDC	Business	Higher education	ONP	Higher education	Total	FFRDC	Business	Higher education	ONP	
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	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	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	254	NA	NA	71	183	
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	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	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	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	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	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	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	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	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	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	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	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	897	NA	NA	127	771	
2001	167,740	28,396	11,062	3,273	NA	12,542	646	874	136	7	NA	NA	128	137,770	46	137,410	117	197	381	1,057	71	NA	136	850	
2002	176,601	29,745	11,800	3,308	NA	13,061	639	937	149	9	NA	NA	140	145,074	40	144,727	116	191	425	1,208	81	NA	151	976	
2003	175,483	30,011	12,646	3,785	NA	11,939	897	743	166	10	NA	NA	155	143,477	43	143,121	118	195	467	1,363	78	NA	162	1,122	
2004	177,220	34,238	12,746	4,561	NA	14,419	1,211	1,300	172	11	NA	NA	161	140,978	45	140,615	120	199	481	1,350	60	NA	167	1,123	
2005	195,731	36,517	13,994	4,654	NA	15,512	1,146	1,211	169	11	NA	NA	158	157,080	50	156,696	122	212	501	1,463	65	NA	170	1,228	
2006	212,719	38,699	16,089	4,358	2	16,720	927	603	171	10	5	NA	156	171,802	58	171,392	126	226	520	1,527	67	NA	173	1,287	
2007	227,968	39,595	18,016	5,254	3	14,860	894	568	178	8	6	NA	163	185,989	47	185,569	133	240	540	1,665	56	NA	186	1,423	
2008	259,595	54,556	17,566	6,094	4	29,488	841	562	417	7	7	223	179	201,848	45	201,406	148	249	589	2,186	47	330	209	1,600	
2009	256,038	55,959	17,245	6,159	5	30,435	1,565	550	449	8	9	144	288	196,183	39	195,614	290	241	917	2,530	46	361	383	1,740	
2010	251,413	56,983	18,844	6,909	6	28,089	2,498	638	543	11	10	114	409	189,557	40	188,849	427	242	1,243	3,088	45	649	544	1,850	
2011	270,992	58,343	21,879	6,786	6	26,228	2,653	790	649	6	10	230	403	207,759	41	207,026	437	255	1,345	2,897	39	402	569	1,887	
2012	273,265	55,612	19,941	6,631	6	25,840	2,676	518	500	10	9	102	379	212,720	43	211,949	466	261	1,531	2,902	40	310	627	1,925	
2013	287,145	51,595	19,767	6,572	6	22,137	2,639	474	539	11	8	126	394	230,041	49	229,212	504	276	1,678	3,293	36	532	664	2,061	
2014	301,478	48,117	20,303	6,681	6	18,065	2,592	471	504	7	8	87	403	247,500	58	246,601	551	291	1,790	3,567	36	624	722	2,185	
2015	312,911	47,850	18,961	7,062	6	18,850	2,549	422	507	6	8	90	404	258,755	62	257,831	562	301	1,890	3,909	42	786	789	2,292	
2016	322,158	42,967	15,838	7,479	7	16,586	2,608	450	558	8	11	117	423	272,531	64	271,582	570	315	2,002	4,101	50	737	879	2,435	
2017 ^a	347,622	44,688	15,848	8,021	9	17,457	2,721	632	559	11	13	81	455	296,118	64	295,089	633	332	2,164	4,093	51	513	969	2,562	
2018 ^b	368,537	47,416	18,379	8,551	9	16,824	2,812	841	597	15	14	91	478	313,890	67	312,789	688	346	2,310	4,325	54	580	1,023	2,668	

Constant 2012 \$millions

TABLE 9

U.S. development expenditures, by source of funds and performing sector: 1953–2018

(Millions of current and of constant 2012 dollars)

Year	All funding sources		Federal						Nonfederal government					Business					Higher education		Other nonprofit organizations				
	All performers	Total	Federal intramural	FFRDC	Nonfederal government	Business	Higher education	ONP	Total	FFRDC	Nonfederal government	Business	Higher education	Total	FFRDC	Business	Higher education	ONP	Higher education	Total	FFRDC	Business	Higher education	ONP	
1953	23,628	12,204	3,924	329	NA	7,778	59	114	20	NA	NA	NA	20	11,338	NA	11,289	7	42	18	48	NA	NA	7	42	
1954	25,626	13,908	3,685	422	NA	9,643	58	100	24	NA	NA	NA	24	11,619	NA	11,564	7	48	21	55	NA	NA	7	48	
1955	27,756	15,863	3,661	1,151	NA	10,893	78	81	26	NA	NA	NA	26	11,792	NA	11,728	10	54	22	54	NA	NA	7	47	
1956	38,200	23,234	4,114	2,267	NA	16,696	88	69	29	NA	NA	NA	29	14,858	NA	14,793	13	52	23	55	NA	NA	10	46	
1957	42,204	28,282	4,595	2,710	NA	20,847	76	54	33	NA	NA	NA	33	13,799	NA	13,732	16	51	27	63	NA	NA	13	51	
1958	44,549	30,510	5,197	2,381	NA	22,799	77	56	35	NA	NA	NA	35	13,909	NA	13,841	19	49	27	68	NA	NA	12	56	
1959	51,555	35,768	5,726	2,903	NA	26,962	94	82	36	NA	NA	NA	36	15,650	NA	15,577	18	55	28	73	NA	NA	12	61	
1960	56,257	38,403	6,025	3,360	NA	28,844	114	60	38	NA	NA	NA	38	17,715	NA	17,640	15	60	28	72	NA	NA	12	60	
1961	59,056	39,852	6,479	3,985	NA	29,240	128	21	41	NA	NA	NA	41	19,037	NA	18,966	12	59	30	95	NA	NA	12	83	
1962	59,428	40,082	7,210	3,631	NA	29,083	132	26	45	NA	NA	NA	45	19,149	NA	19,073	12	65	34	118	NA	NA	12	106	
1963	67,026	46,209	8,509	3,880	NA	33,660	128	32	46	NA	NA	NA	46	20,608	NA	20,533	12	64	35	128	NA	NA	12	116	
1964	71,552	49,261	9,612	4,228	NA	35,221	169	31	45	NA	NA	NA	45	22,090	NA	22,016	11	63	37	117	NA	NA	14	103	
1965	74,252	49,116	10,049	3,787	NA	34,937	270	73	49	NA	NA	NA	49	24,908	NA	24,829	11	67	44	135	NA	NA	22	112	
1966	79,197	51,737	10,309	3,572	NA	37,435	333	87	51	NA	NA	NA	51	27,203	NA	27,116	11	77	53	153	NA	NA	27	126	
1967	81,432	50,570	10,320	3,747	NA	36,091	348	64	45	NA	NA	NA	45	30,602	NA	30,509	13	80	53	162	NA	NA	35	127	
1968	82,292	49,698	9,700	3,686	NA	35,885	364	64	39	NA	NA	NA	39	32,329	NA	32,227	20	82	47	178	NA	NA	46	132	
1969	82,809	47,827	9,790	3,844	NA	33,724	386	83	34	NA	NA	NA	34	34,725	NA	34,613	24	87	39	185	NA	NA	49	136	
1970	78,077	43,282	10,416	3,642	NA	28,749	385	90	30	NA	NA	NA	30	34,548	NA	34,442	23	83	32	185	NA	NA	46	138	
1971	76,386	41,974	10,855	3,690	NA	27,075	303	50	34	NA	NA	NA	34	34,157	NA	34,056	18	83	38	182	NA	NA	37	145	
1972	78,884	42,679	11,108	3,630	NA	27,495	263	183	52	NA	NA	NA	52	35,910	NA	35,816	15	80	57	185	NA	NA	38	147	
1973	80,583	41,139	10,602	3,431	NA	26,417	281	407	70	NA	NA	NA	70	39,093	NA	38,993	20	80	80	201	NA	NA	50	152	
1974	78,721	38,461	10,123	3,597	NA	23,989	273	480	73	NA	NA	NA	73	39,887	NA	39,784	24	79	90	209	NA	NA	55	155	
1975	76,069	36,829	9,682	3,695	NA	22,725	276	451	74	NA	NA	NA	74	38,864	NA	38,759	27	78	92	211	NA	NA	54	157	
1976	79,658	38,218	9,437	4,174	NA	23,886	316	405	76	NA	NA	NA	76	41,049	NA	40,932	37	80	99	216	NA	NA	51	165	
1977	82,719	39,325	9,531	4,240	NA	24,740	457	356	83	NA	NA	NA	83	42,963	NA	42,837	43	82	120	228	NA	NA	55	173	
1978	86,747	40,176	10,269	4,426	NA	24,458	709	315	89	NA	NA	NA	89	46,100	NA	45,977	41	83	137	245	NA	NA	66	179	
1979	91,425	41,434	10,172	4,521	NA	25,504	868	369	88	NA	NA	NA	88	49,503	NA	49,381	40	83	144	255	NA	NA	71	184	
1980	96,393	41,604	9,634	4,752	NA	25,920	856	442	90	NA	NA	NA	90	54,278	NA	54,151	46	82	160	260	NA	NA	73	187	
1981	100,071	43,745	9,791	4,701	NA	27,643	834	777	95	NA	NA	NA	95	55,794	NA	55,662	51	81	172	265	NA	NA	75	190	
1982	105,592	45,434	10,539	4,417	NA	28,932	809	737	93	NA	NA	NA	93	59,607	NA	59,471	54	82	180	278	NA	NA	79	199	
1983	113,153	48,690	11,959	4,671	NA	30,402	782	876	92	NA	NA	NA	92	63,884	NA	63,738	61	86	191	296	NA	NA	83	213	
1984	125,640	53,537	13,381	4,863	NA	33,347	822	1,124	97	NA	NA	NA	97	71,487	NA	71,328	70	89	204	316	NA	NA	88	228	
1985	136,559	59,197	14,679	5,325	NA	37,122	891	1,180	105	NA	NA	NA	105	76,701	NA	76,528	80	94	220	335	NA	NA	90	245	
1986	136,260	61,062	14,864	5,571	NA	38,651	922	1,054	117	NA	NA	NA	117	74,474	NA	74,285	90	99	245	361	NA	NA	95	267	

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U.S. development expenditures, by source of funds and performing sector: 1953–2018

(Millions of current and of constant 2012 dollars)

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	All performers	Total	Federal intramural	FFRDC	Nonfederal government	Business	Higher education	ONP	Total	FFRDC	Nonfederal government	Business	Higher education	Total	FFRDC	Business	Higher education	ONP	Higher education	Total	FFRDC	Business	Higher education	ONP	
1987	140,112	64,318	14,331	5,821	NA	42,285	1,049	830	128	NA	NA	NA	128	74,998	NA	74,794	100	105	272	395	NA	NA	106	289	
1988	143,192	63,133	15,009	6,089	NA	40,162	1,182	690	140	NA	NA	NA	140	79,184	NA	78,963	112	109	304	431	NA	NA	121	310	
1989	142,931	57,548	15,243	5,923	NA	34,296	1,260	826	149	NA	NA	NA	149	84,436	NA	84,198	124	114	334	464	NA	NA	132	332	
1990	147,740	53,177	15,235	5,753	NA	29,788	1,429	972	156	NA	NA	NA	156	93,556	NA	93,308	130	118	355	494	NA	NA	139	355	
1991	144,483	47,430	13,335	5,245	NA	26,215	1,537	1,097	156	NA	NA	NA	156	96,010	NA	95,755	131	124	364	524	NA	NA	143	381	
1992	148,253	46,810	13,513	5,084	NA	25,520	1,567	1,126	156	NA	NA	NA	156	100,360	NA	100,094	135	131	365	562	NA	NA	148	414	
1993	144,668	43,608	13,162	4,333	NA	23,336	1,636	1,141	158	NA	NA	NA	158	99,922	NA	99,643	141	138	376	604	NA	NA	155	449	
1994	146,236	42,914	12,535	4,471	NA	23,027	1,724	1,158	161	NA	NA	NA	161	102,123	NA	101,832	145	146	392	647	NA	NA	159	488	
1995	157,344	45,133	12,888	4,769	NA	24,801	1,641	1,035	171	NA	NA	NA	171	110,951	NA	110,646	151	155	401	688	NA	NA	158	531	
1996	165,854	42,870	12,343	4,712	NA	23,320	1,542	953	175	NA	NA	NA	175	121,657	NA	121,336	157	164	417	735	NA	NA	157	579	
1997	172,825	43,328	12,192	4,474	NA	24,341	1,399	922	162	NA	NA	NA	162	128,053	NA	127,694	152	208	411	870	NA	NA	150	721	
1998	192,167	43,414	12,239	4,402	NA	24,510	1,253	1,010	150	NA	NA	NA	150	147,264	NA	146,898	148	218	406	932	NA	NA	146	786	
1999	202,061	40,048	12,132	4,367	NA	21,698	899	952	153	NA	NA	NA	153	160,442	NA	160,057	152	233	425	993	NA	NA	154	839	
2000	216,983	35,213	12,009	4,460	NA	17,303	698	742	157	NA	NA	NA	157	180,013	NA	179,611	152	250	451	1,149	NA	NA	162	987	
2001	210,228	35,589	13,864	4,102	NA	15,719	810	1,095	170	9	NA	NA	161	172,667	58	172,215	147	247	477	1,325	89	NA	171	1,065	
2002	217,887	36,698	14,558	4,081	NA	16,114	789	1,155	184	12	NA	NA	172	178,990	49	178,561	144	236	525	1,491	100	NA	187	1,204	
2003	212,559	36,351	15,318	4,585	NA	14,461	1,087	900	201	13	NA	NA	188	173,791	52	173,360	143	236	566	1,650	95	NA	196	1,359	
2004	209,036	40,385	15,035	5,380	NA	17,008	1,429	1,534	203	13	NA	NA	190	166,288	53	165,859	141	235	567	1,592	71	NA	196	1,325	
2005	223,896	41,772	16,008	5,323	NA	17,744	1,311	1,385	194	13	NA	NA	181	179,683	58	179,244	140	242	573	1,674	74	NA	194	1,405	
2006	236,181	42,967	17,864	4,838	3	18,564	1,029	669	190	11	5	NA	174	190,751	64	190,296	140	251	577	1,696	74	NA	192	1,429	
2007	246,488	42,812	19,480	5,681	3	16,067	967	614	192	9	6	NA	177	201,100	51	200,645	144	260	584	1,800	61	NA	201	1,539	
2008	275,332	57,863	18,631	6,464	4	31,276	892	596	442	8	8	237	190	214,084	48	213,615	157	264	624	2,319	50	350	221	1,697	
2009	269,504	58,902	18,152	6,483	6	32,036	1,648	579	472	9	9	151	303	206,501	41	205,902	305	253	965	2,663	48	380	403	1,832	
2010	261,587	59,289	19,606	7,188	6	29,226	2,599	663	565	11	10	118	426	197,228	41	196,491	444	252	1,293	3,213	47	675	565	1,925	
2011	276,190	59,462	22,299	6,916	6	26,731	2,704	806	662	7	10	234	411	211,744	41	210,997	445	260	1,370	2,952	39	409	580	1,924	
2012	273,265	55,612	19,941	6,631	6	25,840	2,676	518	500	10	9	102	379	212,720	43	211,949	466	261	1,531	2,902	40	310	627	1,925	
2013	282,193	50,706	19,426	6,459	6	21,755	2,593	466	530	11	8	124	387	226,073	48	225,259	495	272	1,649	3,236	35	523	653	2,025	
2014	290,894	46,428	19,590	6,446	5	17,431	2,501	455	486	7	7	84	388	238,812	56	237,944	531	281	1,727	3,442	35	602	696	2,109	
2015	298,815	45,694	18,107	6,744	5	18,001	2,434	403	484	6	8	86	385	247,099	59	246,216	537	287	1,805	3,733	40	751	753	2,189	
2016	304,495	40,612	14,970	7,068	7	15,677	2,465	425	528	7	10	110	400	257,589	61	256,691	538	298	1,892	3,876	47	696	830	2,302	
2017 ^a	322,488	41,457	14,702	7,441	8	16,195	2,524	587	519	10	12	75	422	274,708	60	273,753	587	308	2,008	3,797	47	476	898	2,376	
2018 ^b	333,761	42,941	16,644	7,744	8	15,237	2,547	762	541	13	12	83	433	284,271	61	283,273	623	314	2,092	3,917	49	526	926	2,416	

NA = not available.

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

^a Some data for 2017 are preliminary and may later be revised.

^b The data for 2018 are estimates and will later be revised.

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 ONPs. 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–f. Detail may not add to total because of rounding. Constant-dollar estimates are derived from unrounded data. For comparisons, use only the historical data reported in this table because some back-year data may have been revised. Except for the nonprofit sector, data are based on annual reports by performers NCSSES's annual R&D expenditure surveys: Business Research and Development Survey, Higher Education Research and Development Survey, Survey of Federal Funds for Research and Development, FFRDC Research and Development Expenditures Survey, and Survey of State Government Research and Development. R&D expenditures by business performers—and, before 2001, also industry-administered FFRDCs—are 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.) The 1998–2018 data for ONP R&D performance funded by businesses and the nonprofit sector itself are estimated, based on parameters from the 1996–97 Survey of Research and Development Funding and Performance by Nonprofit Organizations. Type-of-R&D data for business R&D in 1998–2007 were revised in response to data quality review considerations and are not directly comparable with the data for 1997 and earlier years. For 2008 and onward, the type-of-R&D splits for other than total, own-funded, and federally funded R&D are estimated. (See also table 2, footnote d.) Type-of-R&D data for FFRDC R&D in 1953–54 include only those of university-administered FFRDCs. Starting in 2001, type-of-R&D data distinguish federally funded from nonfederally funded FFRDC R&D. (See also table 2, footnote b.) The type-of-R&D estimation procedure for higher education R&D was revised in 1998 and again in 2010; hence, these data are not directly comparable with data reported for earlier years. Furthermore, the type-of-R&D splits for other than total and federally funded are estimated. (See also table 2, footnote e.) Type-of-R&D data for R&D by other nonprofit organizations in 1998 and later years are estimated, except for those that are federally funded. (See also table 2, footnote f.) Type-of-R&D data for state intramural R&D became available in the 2016 Survey of State Government Research and Development. These data prior to 2016 are estimated. (See also table 2, footnote c.)

Source(s)

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