

TABLE 6. U.S. R&D expenditures, by source of funds and performing sector: 1953–2015

Year	All funding sources																							
	Federal								Nonfederal government					Business					Higher education	Other nonprofit organizations				
	All performers	Total	Federal intramural	FFRDC	Non-federal government	Business	Higher education	ONP	Total	FFRDC	Non-federal government	Business	Higher education	Total	FFRDC	Business	Higher education	ONP	Higher education	Total	FFRDC	Business	Higher education	ONP
Current \$millions																								
1953	5,160	2,783	1,015	131	NA	1,430	149	58	40	NA	NA	NA	40	2,247	NA	2,200	21	26	37	55	NA	NA	27	28
1954	5,621	3,102	963	165	NA	1,750	165	61	45	NA	NA	NA	45	2,375	NA	2,320	24	31	40	60	NA	NA	29	31
1955	6,185	3,507	973	319	NA	1,960	191	65	50	NA	NA	NA	50	2,522	NA	2,460	27	35	42	64	NA	NA	32	32
1956	8,501	4,979	1,131	561	NA	2,995	221	71	57	NA	NA	NA	57	3,346	NA	3,277	32	37	46	74	NA	NA	36	38
1957	9,908	6,233	1,297	688	NA	3,928	242	79	64	NA	NA	NA	64	3,470	NA	3,396	37	37	51	91	NA	NA	40	51
1958	10,915	6,974	1,507	657	NA	4,436	280	95	72	NA	NA	NA	72	3,707	NA	3,630	39	38	56	107	NA	NA	45	62
1959	12,490	8,167	1,681	789	NA	5,217	356	125	81	NA	NA	NA	81	4,065	NA	3,983	40	42	61	117	NA	NA	50	67
1960	13,711	8,915	1,801	910	NA	5,604	453	148	90	NA	NA	NA	90	4,516	NA	4,428	40	48	67	123	NA	NA	55	68
1961	14,564	9,484	1,987	1,087	NA	5,685	557	169	101	NA	NA	NA	101	4,757	NA	4,668	40	49	75	148	NA	NA	62	86
1962	15,636	10,138	2,188	1,056	NA	6,008	687	200	112	NA	NA	NA	112	5,124	NA	5,029	41	54	84	179	NA	NA	70	109
1963	17,519	11,646	2,559	1,159	NA	6,856	839	234	125	NA	NA	NA	125	5,456	NA	5,360	41	55	96	197	NA	NA	78	119
1964	19,103	12,765	2,966	1,297	NA	7,257	995	250	138	NA	NA	NA	138	5,888	NA	5,792	41	55	114	200	NA	NA	88	112
1965	20,253	13,194	3,157	1,218	NA	7,367	1,167	286	150	NA	NA	NA	150	6,549	NA	6,445	42	62	136	225	NA	NA	101	124
1966	22,072	14,165	3,308	1,217	NA	7,977	1,335	329	160	NA	NA	NA	160	7,331	NA	7,216	45	70	165	252	NA	NA	114	138
1967	23,347	14,564	3,445	1,340	NA	7,946	1,491	342	168	NA	NA	NA	168	8,146	NA	8,020	52	74	200	271	NA	NA	126	145
1968	24,667	14,965	3,498	1,372	NA	8,145	1,586	364	185	NA	NA	NA	185	9,008	NA	8,869	58	81	221	290	NA	NA	139	151
1969	25,996	15,228	3,790	1,440	NA	7,987	1,624	388	208	NA	NA	NA	208	10,011	NA	9,857	61	93	233	316	NA	NA	155	161
1970	26,271	14,984	4,154	1,430	NA	7,306	1,686	410	237	NA	NA	NA	237	10,449	NA	10,288	66	95	259	343	NA	NA	171	172
1971	26,952	15,210	4,409	1,441	NA	7,175	1,760	427	262	NA	NA	NA	262	10,824	NA	10,654	72	98	290	366	NA	NA	182	184
1972	28,740	16,039	4,676	1,533	NA	7,469	1,890	472	282	NA	NA	NA	282	11,715	NA	11,535	79	101	312	393	NA	NA	195	198
1973	30,952	16,587	4,837	1,576	NA	7,600	2,009	566	301	NA	NA	NA	301	13,299	NA	13,104	90	105	344	421	NA	NA	210	211
1974	33,359	17,287	5,132	1,784	NA	7,572	2,160	639	320	NA	NA	NA	320	14,886	NA	14,667	105	114	394	474	NA	NA	239	235
1975	35,671	18,533	5,561	2,019	NA	7,878	2,400	675	348	NA	NA	NA	348	15,824	NA	15,582	118	124	432	534	NA	NA	272	262
1976	39,435	20,292	5,890	2,401	NA	8,671	2,619	711	369	NA	NA	NA	369	17,702	NA	17,436	131	135	480	592	NA	NA	300	292
1977	43,338	22,071	6,211	2,704	NA	9,523	2,893	740	394	NA	NA	NA	394	19,642	NA	19,340	155	147	569	662	NA	NA	337	326
1978	48,719	24,414	6,962	3,186	NA	10,107	3,329	830	443	NA	NA	NA	443	22,457	NA	22,115	182	160	679	727	NA	NA	364	363
1979	55,379	27,225	7,471	3,567	NA	11,354	3,848	985	482	NA	NA	NA	482	26,097	NA	25,708	215	174	785	791	NA	NA	386	405
1980	63,224	29,986	7,831	4,052	NA	12,752	4,335	1,017	519	NA	NA	NA	519	30,929	NA	30,476	264	189	920	871	NA	NA	419	452
1981	72,292	33,739	8,605	4,393	NA	14,997	4,670	1,075	581	NA	NA	NA	581	35,948	NA	35,428	314	206	1,058	967	NA	NA	463	504
1982	80,748	37,133	9,501	4,563	NA	17,061	4,879	1,129	621	NA	NA	NA	621	40,692	NA	40,105	363	224	1,207	1,095	NA	NA	534	561
1983	89,949	41,451	10,830	5,011	NA	19,095	5,210	1,306	658	NA	NA	NA	658	45,264	NA	44,588	432	244	1,357	1,220	NA	NA	595	626

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	Federal								Nonfederal government					Business					Higher education	Other nonprofit organizations				
	All performers	Total	Federal intra-mural	FFRDC	Non-federal government	Business	Higher education	ONP	Total	FFRDC	Non-federal government	Business	Higher education	Total	FFRDC	Business	Higher education	ONP	Higher education	Total	FFRDC	Business	Higher education	ONP
1984	102,244	46,470	11,916	5,602	NA	21,657	5,748	1,548	721	NA	NA	NA	721	52,187	NA	51,404	518	265	1,514	1,351	NA	NA	654	698
1985	114,671	52,641	13,093	6,134	NA	25,333	6,388	1,694	834	NA	NA	NA	834	57,962	NA	57,043	630	289	1,743	1,491	NA	NA	713	778
1986	120,249	54,622	13,505	6,405	NA	26,000	7,028	1,686	969	NA	NA	NA	969	60,991	NA	59,932	745	314	2,019	1,647	NA	NA	780	867
1987	126,360	58,609	13,588	6,792	NA	28,757	7,768	1,704	1,065	NA	NA	NA	1,065	62,576	NA	61,403	831	342	2,262	1,849	NA	NA	882	967
1988	133,881	60,131	14,342	7,212	NA	28,221	8,593	1,762	1,165	NA	NA	NA	1,165	67,977	NA	66,672	933	372	2,527	2,081	NA	NA	1,003	1,078
1989	141,891	60,465	15,231	7,497	NA	26,359	9,317	2,062	1,274	NA	NA	NA	1,274	74,966	NA	73,501	1,061	405	2,852	2,333	NA	NA	1,131	1,202
1990	151,993	61,610	15,671	7,853	NA	25,802	9,939	2,346	1,399	NA	NA	NA	1,399	83,208	NA	81,602	1,166	440	3,187	2,589	NA	NA	1,249	1,340
1991	160,876	60,783	15,249	8,093	NA	24,095	10,667	2,679	1,483	NA	NA	NA	1,483	92,300	NA	90,580	1,242	479	3,458	2,852	NA	NA	1,358	1,494
1992	165,350	60,915	15,853	8,360	NA	22,369	11,528	2,806	1,525	NA	NA	NA	1,525	96,229	NA	94,388	1,320	521	3,569	3,113	NA	NA	1,448	1,666
1993	165,730	60,528	16,531	8,003	NA	20,844	12,307	2,843	1,557	NA	NA	NA	1,557	96,549	NA	94,591	1,392	567	3,709	3,388	NA	NA	1,531	1,857
1994	169,207	60,777	16,355	8,254	NA	20,261	12,996	2,911	1,623	NA	NA	NA	1,623	99,204	NA	97,131	1,456	617	3,938	3,665	NA	NA	1,595	2,071
1995	183,625	62,969	16,904	8,448	NA	21,178	13,592	2,847	1,751	NA	NA	NA	1,751	110,871	NA	108,652	1,548	671	4,110	3,925	NA	NA	1,617	2,308
1996	197,346	63,394	16,585	8,464	NA	21,356	14,084	2,906	1,861	NA	NA	NA	1,861	123,417	NA	121,015	1,672	730	4,436	4,239	NA	NA	1,666	2,574
1997	212,152	64,574	16,819	8,413	NA	21,798	14,530	3,014	1,922	NA	NA	NA	1,922	136,228	NA	133,611	1,808	809	4,838	4,590	NA	NA	1,786	2,804
1998	226,457	66,383	17,362	8,480	NA	22,086	15,174	3,281	1,972	NA	NA	NA	1,972	147,825	NA	145,016	1,950	859	5,163	5,114	NA	NA	1,922	3,192
1999	245,319	67,367	18,142	8,704	NA	20,496	16,264	3,761	2,098	NA	NA	NA	2,098	164,606	NA	161,594	2,082	931	5,619	5,628	NA	NA	2,112	3,516
2000	268,904	67,861	19,247	9,269	NA	17,117	17,719	4,510	2,246	NA	NA	NA	2,246	186,037	NA	182,844	2,174	1,020	6,231	6,528	NA	NA	2,324	4,204
2001	279,716	74,584	22,374	10,056	NA	16,899	19,767	5,488	2,418	22	NA	NA	2,395	188,478	142	185,118	2,189	1,029	6,826	7,410	218	NA	2,542	4,650
2002	279,387	79,873	23,798	11,242	NA	16,401	22,654	5,778	2,642	32	NA	NA	2,610	180,778	135	177,467	2,178	998	7,617	8,478	275	NA	2,828	5,374
2003	293,060	86,293	24,982	11,841	NA	17,798	25,727	5,945	2,888	32	NA	NA	2,856	186,247	134	182,926	2,166	1,020	8,226	9,405	245	NA	2,984	6,176
2004	304,547	92,043	24,898	12,471	NA	20,266	27,872	6,537	3,038	31	NA	NA	3,008	191,429	122	188,035	2,231	1,041	8,562	9,474	165	NA	3,109	6,201
2005	327,184	96,689	26,322	12,894	NA	21,909	29,019	6,545	3,092	32	NA	NA	3,060	207,864	139	204,250	2,368	1,107	9,265	10,275	180	NA	3,294	6,800
2006	352,875	101,261	28,240	12,969	105	24,304	29,600	6,044	3,417	31	204	NA	3,182	227,281	171	223,365	2,563	1,182	10,076	10,841	200	NA	3,530	7,111
2007	380,019	106,549	29,859	13,845	120	26,585	30,160	5,980	3,689	32	219	NA	3,438	246,921	180	242,682	2,803	1,257	10,833	12,026	216	NA	3,915	7,896
2008	406,952	119,113	29,839	15,369	131	36,360	31,178	6,236	4,257	33	212	306	3,706	258,131	199	253,562	3,069	1,301	11,640	13,811	209	452	4,324	8,827
2009	405,343	127,395	30,560	16,571	162	39,573	33,433	7,097	4,286	40	244	195	3,808	246,770	184	242,135	3,193	1,258	11,916	14,976	218	490	4,621	9,647
2010	409,037	128,426	31,970	18,409	192	34,199	36,563	7,093	4,287	46	298	156	3,787	248,315	174	243,732	3,144	1,265	12,103	15,906	199	890	4,772	10,045
2011	428,675	128,917	34,950	18,176	201	31,309	37,717	6,564	4,355	30	292	321	3,712	266,605	189	261,901	3,182	1,333	12,949	15,849	179	561	4,875	10,234
2012	436,151	125,796	34,017	17,727	195	30,621	36,998	6,239	4,103	42	273	157	3,631	275,896	185	270,997	3,349	1,366	14,140	16,215	173	476	5,146	10,420
2013	456,584	122,068	33,406	17,296	188	29,362	35,845	5,970	4,239	45	281	194	3,719	297,368	195	292,153	3,575	1,444	15,197	17,713	144	819	5,592	11,158
2014 ^a	477,708	119,826	34,396	17,523	192	26,554	35,051	6,111	4,240	26	288	138	3,788	318,598	218	313,043	3,817	1,520	16,040	19,004	137	993	6,006	11,867
2015 ^b	499,299	113,114	33,966	18,323	194	19,512	35,015	6,105	4,190	19	291	129	3,752	344,977	211	339,085	4,069	1,611	17,109	19,909	136	926	6,428	12,418

TABLE 6. U.S. R&D expenditures, by source of funds and performing sector: 1953–2015

Year	Constant 2009 \$millions																										
	All funding sources								Federal					Nonfederal government				Business				Higher education	Other nonprofit organizations				
	All performers	Total	Federal intra-mural	FFRDC	Non-federal government	Business	Higher education	ONP	Total	FFRDC	Non-federal government	Business	Higher education	Total	FFRDC	Business	Higher education	ONP	Higher education	Total	FFRDC	Business	Higher education	ONP			
1953	34,048	18,360	6,697	864	NA	9,436	983	379	261	NA	NA	NA	261	14,823	NA	14,516	135	172	241	363	NA	NA	178	185			
1954	36,745	20,280	6,293	1,075	NA	11,441	1,075	396	291	NA	NA	NA	291	15,524	NA	15,167	154	203	258	392	NA	NA	190	203			
1955	39,748	22,538	6,253	2,047	NA	12,596	1,227	415	321	NA	NA	NA	321	16,208	NA	15,809	174	225	270	411	NA	NA	206	206			
1956	52,831	30,942	7,026	3,487	NA	18,614	1,374	441	351	NA	NA	NA	351	20,792	NA	20,367	196	230	286	460	NA	NA	224	236			
1957	59,592	37,486	7,801	4,135	NA	23,625	1,453	472	385	NA	NA	NA	385	20,867	NA	20,425	220	223	307	547	NA	NA	241	307			
1958	64,206	41,024	8,862	3,862	NA	26,094	1,647	559	424	NA	NA	NA	424	21,806	NA	21,353	229	224	326	626	NA	NA	262	365			
1959	72,451	47,376	9,751	4,577	NA	30,264	2,062	722	467	NA	NA	NA	467	23,578	NA	23,105	229	244	354	676	NA	NA	287	389			
1960	78,453	51,011	10,302	5,207	NA	32,065	2,589	847	515	NA	NA	NA	515	25,840	NA	25,337	229	275	383	704	NA	NA	315	389			
1961	82,428	53,676	11,246	6,149	NA	32,175	3,150	956	569	NA	NA	NA	569	26,923	NA	26,419	226	277	422	838	NA	NA	351	487			
1962	87,421	56,681	12,230	5,904	NA	33,591	3,838	1,118	626	NA	NA	NA	626	28,645	NA	28,117	226	302	470	998	NA	NA	389	609			
1963	96,851	64,380	14,144	6,405	NA	37,902	4,636	1,294	691	NA	NA	NA	691	30,160	NA	29,632	224	304	531	1,089	NA	NA	431	658			
1964	104,011	69,499	16,146	7,062	NA	39,512	5,418	1,361	749	NA	NA	NA	749	32,056	NA	31,536	221	299	618	1,089	NA	NA	479	610			
1965	108,294	70,551	16,878	6,510	NA	39,393	6,240	1,529	799	NA	NA	NA	799	35,016	NA	34,463	222	332	727	1,200	NA	NA	537	663			
1966	114,799	73,674	17,205	6,327	NA	41,489	6,943	1,709	832	NA	NA	NA	832	38,129	NA	37,531	234	364	856	1,308	NA	NA	590	718			
1967	118,000	73,607	17,412	6,773	NA	40,161	7,533	1,729	849	NA	NA	NA	849	41,169	NA	40,535	260	374	1,008	1,367	NA	NA	634	733			
1968	119,577	72,544	16,955	6,651	NA	39,485	7,689	1,765	894	NA	NA	NA	894	43,666	NA	42,995	279	393	1,069	1,403	NA	NA	671	732			
1969	120,114	70,362	17,513	6,654	NA	36,904	7,501	1,790	961	NA	NA	NA	961	46,254	NA	45,545	280	430	1,077	1,460	NA	NA	716	744			
1970	115,302	65,764	18,231	6,274	NA	32,065	7,397	1,797	1,040	NA	NA	NA	1,040	45,857	NA	45,153	287	417	1,135	1,505	NA	NA	750	755			
1971	112,571	63,529	18,414	6,017	NA	29,968	7,349	1,781	1,094	NA	NA	NA	1,094	45,209	NA	44,499	301	409	1,209	1,529	NA	NA	760	769			
1972	115,066	64,215	18,720	6,138	NA	29,903	7,567	1,888	1,129	NA	NA	NA	1,129	46,903	NA	46,182	316	404	1,247	1,571	NA	NA	779	793			
1973	117,527	62,982	18,365	5,984	NA	28,858	7,626	2,149	1,143	NA	NA	NA	1,143	50,497	NA	49,757	342	399	1,306	1,599	NA	NA	797	801			
1974	116,224	60,227	17,881	6,215	NA	26,381	7,525	2,225	1,113	NA	NA	NA	1,113	51,862	NA	51,100	364	398	1,371	1,651	NA	NA	831	820			
1975	113,745	59,097	17,733	6,438	NA	25,121	7,653	2,152	1,110	NA	NA	NA	1,110	50,459	NA	49,686	376	396	1,376	1,704	NA	NA	867	836			
1976	119,199	61,335	17,804	7,256	NA	26,210	7,916	2,149	1,115	NA	NA	NA	1,115	53,508	NA	52,704	396	409	1,451	1,789	NA	NA	905	884			
1977	123,345	62,818	17,678	7,697	NA	27,104	8,232	2,107	1,121	NA	NA	NA	1,121	55,902	NA	55,044	440	419	1,618	1,886	NA	NA	958	928			
1978	129,565	64,926	18,515	8,473	NA	26,879	8,852	2,207	1,178	NA	NA	NA	1,178	59,722	NA	58,813	483	426	1,806	1,933	NA	NA	967	967			
1979	136,047	66,883	18,354	8,762	NA	27,893	9,453	2,420	1,183	NA	NA	NA	1,183	64,111	NA	63,156	527	428	1,928	1,942	NA	NA	947	995			
1980	142,470	67,571	17,646	9,130	NA	28,736	9,767	2,292	1,168	NA	NA	NA	1,168	69,696	NA	68,675	594	427	2,072	1,962	NA	NA	944	1,018			
1981	148,990	69,534	17,733	9,054	NA	30,908	9,624	2,214	1,197	NA	NA	NA	1,197	74,087	NA	73,015	647	425	2,179	1,992	NA	NA	954	1,038			
1982	156,699	72,060	18,438	8,855	NA	33,109	9,467	2,191	1,205	NA	NA	NA	1,205	78,967	NA	77,828	704	435	2,341	2,125	NA	NA	1,035	1,090			
1983	167,927	77,384	20,218	9,354	NA	35,649	9,727	2,437	1,228	NA	NA	NA	1,228	84,504	NA	83,242	807	456	2,532	2,279	NA	NA	1,110	1,169			

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1984	184,335	83,781	21,483	10,101	NA	39,046	10,362	2,790	1,300	NA	NA	NA	1,300	94,088	NA	92,677	933	479	2,730	2,436	NA	NA	1,178	1,258
1985	200,332	91,965	22,873	10,716	NA	44,257	11,160	2,959	1,456	NA	NA	NA	1,456	101,261	NA	99,656	1,101	505	3,045	2,605	NA	NA	1,246	1,359
1986	205,920	93,538	23,126	10,968	NA	44,524	12,034	2,887	1,659	NA	NA	NA	1,659	104,445	NA	102,631	1,276	538	3,457	2,821	NA	NA	1,336	1,485
1987	211,005	97,870	22,691	11,341	NA	48,020	12,972	2,846	1,778	NA	NA	NA	1,778	104,494	NA	102,535	1,388	571	3,777	3,087	NA	NA	1,472	1,615
1988	216,002	97,015	23,139	11,637	NA	45,532	13,864	2,843	1,880	NA	NA	NA	1,880	109,673	NA	107,568	1,505	600	4,077	3,358	NA	NA	1,618	1,740
1989	220,356	93,903	23,653	11,643	NA	40,935	14,469	3,202	1,979	NA	NA	NA	1,979	116,422	NA	114,147	1,647	628	4,429	3,623	NA	NA	1,756	1,867
1990	227,623	92,267	23,469	11,760	NA	38,641	14,885	3,513	2,095	NA	NA	NA	2,095	124,611	NA	122,206	1,745	659	4,772	3,878	NA	NA	1,870	2,007
1991	233,168	88,097	22,102	11,730	NA	34,923	15,460	3,883	2,149	NA	NA	NA	2,149	133,777	NA	131,284	1,799	694	5,011	4,134	NA	NA	1,968	2,166
1992	234,312	86,320	22,465	11,846	NA	31,698	16,335	3,976	2,161	NA	NA	NA	2,161	136,362	NA	133,754	1,870	738	5,057	4,412	NA	NA	2,051	2,361
1993	229,392	83,778	22,880	11,077	NA	28,851	17,034	3,935	2,155	NA	NA	NA	2,155	133,637	NA	130,926	1,926	785	5,133	4,689	NA	NA	2,118	2,571
1994	229,321	82,370	22,166	11,187	NA	27,459	17,612	3,945	2,199	NA	NA	NA	2,199	134,448	NA	131,639	1,973	836	5,337	4,967	NA	NA	2,161	2,806
1995	243,780	83,597	22,441	11,215	NA	28,116	18,045	3,780	2,325	NA	NA	NA	2,325	147,191	NA	144,246	2,054	891	5,456	5,211	NA	NA	2,146	3,065
1996	257,299	82,653	21,623	11,035	NA	27,844	18,363	3,788	2,426	NA	NA	NA	2,426	160,910	NA	157,779	2,179	952	5,783	5,527	NA	NA	2,171	3,355
1997	271,949	82,775	21,560	10,785	NA	27,942	18,625	3,864	2,464	NA	NA	NA	2,464	174,625	NA	171,271	2,317	1,037	6,202	5,884	NA	NA	2,290	3,594
1998	287,168	84,180	22,017	10,754	NA	28,007	19,242	4,160	2,501	NA	NA	NA	2,501	187,455	NA	183,893	2,472	1,089	6,547	6,485	NA	NA	2,437	4,048
1999	306,398	84,140	22,659	10,871	NA	25,599	20,313	4,697	2,621	NA	NA	NA	2,621	205,590	NA	201,828	2,600	1,162	7,019	7,029	NA	NA	2,638	4,391
2000	328,383	82,871	23,504	11,319	NA	20,903	21,638	5,508	2,743	NA	NA	NA	2,743	227,187	NA	223,287	2,654	1,245	7,609	7,973	NA	NA	2,838	5,134
2001	333,975	89,052	26,715	12,006	NA	20,177	23,601	6,552	2,887	27	NA	NA	2,860	225,039	169	221,027	2,614	1,229	8,150	8,848	260	NA	3,035	5,552
2002	328,541	93,925	27,984	13,219	NA	19,286	26,640	6,794	3,107	38	NA	NA	3,069	212,583	159	208,689	2,561	1,174	8,957	9,969	324	NA	3,326	6,320
2003	337,879	99,491	28,803	13,652	NA	20,520	29,662	6,854	3,330	37	NA	NA	3,293	214,731	154	210,902	2,498	1,176	9,484	10,843	283	NA	3,440	7,121
2004	341,728	103,280	27,937	13,993	NA	22,740	31,275	7,335	3,409	34	NA	NA	3,375	214,800	137	210,992	2,503	1,168	9,607	10,631	185	NA	3,488	6,958
2005	355,683	105,110	28,615	14,017	NA	23,817	31,546	7,115	3,362	35	NA	NA	3,327	225,970	152	222,041	2,574	1,203	10,072	11,170	196	NA	3,581	7,393
2006	372,177	106,799	29,784	13,678	111	25,633	31,219	6,374	3,603	32	215	NA	3,357	239,713	181	235,583	2,703	1,247	10,627	11,434	210	NA	3,724	7,500
2007	390,416	109,464	30,676	14,224	123	27,312	30,986	6,143	3,790	33	225	NA	3,532	253,677	185	249,322	2,879	1,291	11,130	12,355	221	NA	4,022	8,112
2008	410,043	120,017	30,066	15,485	132	36,636	31,415	6,283	4,289	33	213	308	3,735	260,092	201	255,488	3,093	1,310	11,728	13,916	210	455	4,357	8,894
2009	405,343	127,395	30,560	16,571	162	39,573	33,433	7,097	4,286	40	244	195	3,808	246,770	184	242,135	3,193	1,258	11,916	14,976	218	490	4,621	9,647
2010	404,100	126,876	31,584	18,187	190	33,786	36,121	7,008	4,235	46	294	154	3,741	245,318	172	240,790	3,106	1,250	11,957	15,714	196	879	4,714	9,924
2011	414,938	124,786	33,830	17,593	194	30,306	36,508	6,354	4,216	29	283	311	3,593	258,061	183	253,508	3,080	1,290	12,534	15,341	173	543	4,718	9,907
2012	414,534	119,561	32,331	16,849	185	29,103	35,164	5,930	3,899	40	259	149	3,451	262,222	176	257,566	3,183	1,298	13,440	15,411	164	452	4,891	9,903

TABLE 6. U.S. R&D expenditures, by source of funds and performing sector: 1953–2015

Year	All funding sources								Nonfederal government					Business				Higher education	Other nonprofit organizations					
	All performers	Total	Federal intramural	FFRDC	Non-federal government	Business	Higher education	ONP	Total	FFRDC	Non-federal government	Business	Higher education	Total	FFRDC	Business	Higher education	ONP	Total	FFRDC	Business	Higher education	ONP	
2013	426,994	114,157	31,241	16,175	176	27,459	33,522	5,583	3,964	42	263	181	3,478	278,096	183	273,219	3,343	1,351	14,212	16,565	134	766	5,230	10,435
2014 ^a	439,531	110,250	31,647	16,122	177	24,432	32,250	5,622	3,901	24	265	127	3,486	293,137	200	288,026	3,512	1,398	14,759	17,485	126	914	5,526	10,919
2015 ^b	454,875	103,050	30,944	16,692	177	17,776	31,900	5,561	3,817	17	265	117	3,418	314,283	193	308,916	3,707	1,468	15,587	18,137	124	844	5,856	11,313

NA = not available.

FFRDC = federally funded R&D center; ONP = other nonprofit organization.

^a Some data for 2014 are preliminary and may later be revised.

^b The data for 2015 are estimates and will later be revised.

NOTES: This table reaggregates the R&D performer data in table 2 according to major categories of R&D funding: federal government, nonfederal government (state and local), business, higher education, and other nonprofit organizations. 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 interpretive detail on the R&D performers listed, see table 2., footnotes a–f. Detail may not add to total due to 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. Except for the nonprofit sector, data are based on annual reports by performers in the National Science Foundation's annual R&D expenditure surveys: Business R&D and Innovation Survey, Higher Education R&D Survey, Survey of Federal Funds for R&D, FFRDC R&D Expenditures Survey, and Survey of State Government R&D. R&D expenditures by business performers—and also, before 2001, industry-administered FFRDCs—are collected on a calendar year basis. Expenditures for other performers are calendar year approximations based on fiscal year data (see table 2, general notes). The 1998–2015 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 R&D Funding and Performance by Nonprofit Organizations.

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