

TABLE 2. U.S. research and development expenditures, by performing sector and source of funds: 1953–2012

Year	All		Industry					U&C						Nonprofit					
	Performer:	performers	Federal	Industry		Industry	U&C <sup>b</sup>			Other nonprofit			FFRDCs <sup>c</sup>						
	Funding	All		Total	Federal <sup>a</sup>	Industry <sup>d</sup>	Total	Total	Federal	Other	Industry	U&C	Other	Total	Total	Federal <sup>c</sup>	Industry <sup>f</sup>	Other	Total
	source:	sources	Federal							government <sup>e</sup>			nonprofit					nonprofit <sup>f</sup>	
Current \$millions																			
1953		5,160	1,015	3,630	1,430	2,200	NA	273	149	40	21	37	27	131	112	58	26	28	NA
1954		5,617	963	4,070	1,750	2,320	NA	301	165	45	24	40	29	161	123	61	31	31	NA
1955		6,281	973	4,517	2,057	2,460	123	342	191	50	27	42	32	187	131	64	35	32	9
1956		8,500	1,130	6,272	2,995	3,277	333	391	221	57	32	46	36	217	146	71	37	38	11
1957		9,908	1,297	7,324	3,928	3,396	407	433	242	64	37	51	40	267	167	79	37	51	14
1958		10,915	1,507	8,066	4,436	3,630	323	491	280	72	39	56	45	316	195	95	38	62	18
1959		12,490	1,681	9,200	5,217	3,983	418	586	356	81	40	61	50	349	234	125	42	67	22
1960		13,711	1,801	10,032	5,604	4,428	477	705	453	90	40	67	55	385	264	148	48	68	48
1961		14,564	1,987	10,353	5,685	4,668	555	834	557	101	40	75	62	440	304	169	49	86	92
1962		15,636	2,188	11,037	6,008	5,029	426	993	687	112	41	84	70	500	363	200	54	109	130
1963		17,519	2,558	12,216	6,856	5,360	414	1,178	839	125	41	96	78	580	408	234	55	119	165
1964		19,103	2,965	13,049	7,257	5,792	463	1,375	995	138	41	114	88	629	417	250	55	112	205
1965		20,252	3,156	13,812	7,367	6,445	373	1,595	1,167	150	42	136	101	630	472	286	62	124	215
1966		22,072	3,308	15,193	7,977	7,216	355	1,818	1,335	160	45	165	114	652	537	329	70	138	210
1967		23,346	3,444	15,966	7,946	8,020	419	2,035	1,491	168	52	200	126	696	561	342	74	145	225
1968		24,666	3,497	17,014	8,145	8,869	415	2,187	1,586	185	58	221	139	722	596	364	81	151	235
1969		25,996	3,790	17,844	7,987	9,857	464	2,280	1,624	208	61	233	155	731	642	388	93	161	245
1970		26,271	4,154	17,594	7,306	10,288	473	2,418	1,686	237	66	259	171	727	677	410	95	172	230
1971		26,952	4,409	17,829	7,175	10,654	491	2,565	1,760	262	72	290	182	735	709	427	98	184	215
1972		28,740	4,676	19,004	7,469	11,535	548	2,757	1,890	282	79	312	195	785	771	472	101	198	200
1973		30,952	4,837	20,704	7,600	13,104	545	2,953	2,009	302	90	343	211	841	882	566	105	211	190
1974		33,359	5,132	22,239	7,572	14,667	648	3,216	2,160	320	104	393	239	926	988	639	114	235	210
1975		35,671	5,561	23,460	7,878	15,582	727	3,570	2,400	348	118	432	272	1,067	1,062	675	124	262	225
1976		39,435	5,890	26,107	8,671	17,436	890	3,899	2,619	369	131	480	300	1,266	1,139	711	135	292	245
1977		43,338	6,211	28,863	9,523	19,340	962	4,346	2,893	394	155	569	337	1,467	1,213	740	147	326	275
1978		48,719	6,962	32,222	10,107	22,115	1,082	4,996	3,329	443	182	679	364	1,772	1,353	830	160	363	333
1979		55,379	7,471	37,062	11,354	25,708	1,164	5,715	3,848	482	215	785	386	2,013	1,564	985	174	405	390
1980		63,224	7,831	43,228	12,752	30,476	1,277	6,455	4,335	519	264	920	419	2,306	1,658	1,017	189	452	469
1981		72,292	8,605	50,425	14,997	35,428	1,385	7,085	4,670	581	314	1,058	463	2,484	1,784	1,075	206	504	524
1982		80,748	9,501	57,166	17,061	40,105	1,484	7,603	4,879	621	363	1,207	534	2,544	1,915	1,129	224	561	536
1983		89,950	10,830	63,683	19,095	44,588	1,585	8,251	5,210	658	432	1,357	595	2,840	2,176	1,306	244	626	585
1984		102,244	11,916	73,061	21,657	51,404	1,739	9,154	5,748	721	518	1,514	654	3,243	2,511	1,548	265	698	620
1985		114,671	13,093	82,376	25,333	57,043	1,863	10,308	6,388	834	630	1,743	713	3,616	2,761	1,694	289	778	655
1986		120,249	13,504	85,932	26,000	59,932	1,891	11,540	7,028	969	745	2,019	780	3,973	2,867	1,686	314	867	541

TABLE 2. U.S. research and development expenditures, by performing sector and source of funds: 1953–2012

Year	All		Industry					U&C			Other nonprofit			Nonprofit					
	Performer:	performers	Federal	Industry		Industry	U&C <sup>b</sup>		FFRDCs		Other nonprofit		FFRDCs <sup>c</sup>						
	Funding source:	All sources	Federal	Total	Federal <sup>a</sup>	Industry <sup>d</sup>	Total	Total	Federal	Other government <sup>e</sup>	Industry	U&C	nonprofit	Total	Total	Federal <sup>c</sup>	Industry <sup>f</sup>	Other nonprofit <sup>f</sup>	Total
1987		126,360	13,588	90,160	28,757	61,403	1,995	12,807	7,768	1,065	831	2,262	882	4,287	3,013	1,704	342	967	509
1988		133,881	14,342	94,893	28,221	66,672	2,122	14,221	8,593	1,165	933	2,527	1,003	4,581	3,213	1,762	372	1,078	510
1989		141,891	15,231	99,860	26,359	73,501	2,195	15,634	9,317	1,274	1,061	2,852	1,131	4,756	3,669	2,062	405	1,202	547
1990		151,993	15,671	107,404	25,802	81,602	2,323	16,939	9,939	1,399	1,166	3,187	1,249	4,894	4,126	2,346	440	1,340	636
1991		160,876	15,249	114,675	24,095	90,580	2,277	18,206	10,667	1,483	1,242	3,458	1,358	5,120	4,652	2,679	479	1,494	696
1992		165,350	15,853	116,757	22,369	94,388	2,353	19,388	11,528	1,525	1,320	3,569	1,448	5,259	4,993	2,806	521	1,666	748
1993		165,730	16,531	115,435	20,844	94,591	1,965	20,495	12,307	1,557	1,392	3,709	1,531	5,289	5,267	2,843	567	1,857	749
1994		169,207	16,355	117,392	20,261	97,131	2,202	21,607	12,996	1,623	1,456	3,938	1,595	5,294	5,599	2,911	617	2,071	758
1995		183,625	16,904	129,830	21,178	108,652	2,273	22,617	13,592	1,751	1,548	4,110	1,617	5,367	5,827	2,847	671	2,308	808
1996		197,346	16,585	142,371	21,356	121,015	2,297	23,718	14,084	1,861	1,672	4,436	1,666	5,395	6,209	2,906	730	2,574	772
1997		212,152	16,819	155,409	21,798	133,611	2,130	24,884	14,530	1,922	1,808	4,838	1,786	5,463	6,626	3,014	809	2,804	821
1998		226,457	17,362	167,102	22,086	145,016	2,078	26,181	15,174	1,972	1,950	5,163	1,922	5,559	7,332	3,281	859	3,192	843
1999		245,318	18,142	182,090	20,496	161,594	2,039	28,176	16,264	2,098	2,082	5,619	2,112	5,652	8,207	3,761	931	3,516	1,013
2000		268,905	19,247	199,961	17,117	182,844	2,001	30,693	17,719	2,246	2,174	6,231	2,324	5,742	9,734	4,510	1,020	4,204	1,526
2001		279,716	22,374	202,017	16,899	185,118	2,020	33,720	19,767	2,395	2,189	6,826	2,542	6,225	11,167	5,488	1,029	4,650	2,192
2002		279,387	23,798	193,868	16,401	177,467	2,263	37,888	22,654	2,610	2,178	7,617	2,828	7,102	12,150	5,778	998	5,374	2,319
2003		293,060	24,982	200,724	17,798	182,926	2,458	41,959	25,727	2,856	2,166	8,226	2,984	7,301	13,141	5,945	1,020	6,176	2,494
2004		304,547	24,898	208,301	20,266	188,035	2,485	44,782	27,872	3,008	2,231	8,562	3,109	7,659	13,779	6,537	1,041	6,201	2,644
2005		327,185	26,322	226,159	21,909	204,250	2,601	47,006	29,019	3,060	2,368	9,265	3,294	7,817	14,452	6,545	1,107	6,800	2,828
2006		352,567	28,240	247,669	24,304	223,365	3,122	48,951	29,600	3,182	2,563	10,076	3,530	7,306	14,336	6,044	1,182	7,111	2,943
2007		379,681	29,859	269,267	26,585	242,682	5,165	51,149	30,160	3,438	2,803	10,833	3,915	5,567	15,132	5,980	1,257	7,896	3,543
2008		406,610	29,839	290,681	36,360	254,321	6,346	53,917	31,178	3,706	3,069	11,640	4,324	4,766	16,363	6,236	1,301	8,827	4,698
2009		404,731	30,560	282,393	39,573	242,820	6,646	56,972	33,434	3,809	3,193	11,917	4,620	5,052	18,002	7,097	1,258	9,647	5,106
2010		407,703	31,970	278,977	34,199	244,778	7,214	60,369	36,565	3,788	3,145	12,100	4,771	5,315	18,401	7,093	1,265	10,043	5,457
2011		428,163	35,775	294,093	31,309	262,784	6,956	62,457	37,714	3,718	3,189	12,965	4,872	5,246	18,120	6,553	1,333	10,234	5,516
2012 (preliminary)		452,556	37,574	316,700	36,300	280,400	6,808	62,723	37,393	3,659	3,242	13,506	4,923	5,174	18,113	6,305	1,398	10,410	5,464
2005 constant \$millions																			
1953		31,904	6,276	22,444	8,842	13,603	NA	1,685	921	244	127	226	167	810	689	356	161	173	NA
1954		34,408	5,896	24,934	10,721	14,213	NA	1,844	1,008	273	144	242	178	983	750	371	190	190	NA
1955		37,839	5,860	27,211	12,392	14,819	741	2,060	1,151	301	163	253	193	1,127	789	386	211	193	51
1956		49,507	6,584	36,531	17,444	19,087	1,940	2,277	1,287	329	183	268	210	1,264	847	411	216	221	64
1957		55,844	7,311	41,279	22,139	19,140	2,294	2,440	1,361	361	206	287	225	1,502	938	442	209	287	79
1958		60,168	8,305	44,463	24,453	20,010	1,781	2,707	1,543	397	215	306	245	1,739	1,075	524	209	342	99
1959		68,047	9,159	50,124	28,424	21,701	2,277	3,193	1,937	439	215	332	270	1,901	1,272	678	229	365	120
1960		73,674	9,675	53,905	30,112	23,793	2,563	3,785	2,431	484	215	360	296	2,069	1,419	795	258	365	258
1961		77,377	10,558	55,003	30,203	24,800	2,949	4,428	2,957	534	213	396	329	2,338	1,615	898	260	457	486
1962		81,953	11,466	57,848	31,489	26,358	2,233	5,202	3,598	587	212	440	364	2,621	1,903	1,048	283	571	681

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Year	All		Industry					U&C				Nonprofit							
	Performer:	performers	Federal	Industry		Industry	U&C <sup>b</sup>		U&C		Other nonprofit		Nonprofit						
	Funding	All		Federal <sup>a</sup>	Industry <sup>d</sup>	FFRDCs <sup>a</sup>	Total	Federal	Other	FFRDCs	Total	Federal <sup>c</sup>	Industry <sup>f</sup>	Other					
	source:	sources	Federal	Total	Total	Total	Total	Other	Other	Total	Total	Other	Other	Total					
1963		90,856	13,269	63,354	35,556	27,798	2,147	6,109	4,349	648	210	498	405	3,005	2,116	1,214	285	617	856
1964		97,569	15,146	66,649	37,066	29,583	2,365	7,020	5,082	702	207	580	449	3,213	2,130	1,277	281	572	1,047
1965		101,585	15,831	69,281	36,953	32,328	1,871	7,998	5,854	750	208	682	504	3,158	2,368	1,435	311	622	1,078
1966		107,657	16,134	74,106	38,909	35,197	1,732	8,868	6,512	780	219	802	554	3,178	2,617	1,602	341	673	1,024
1967		110,483	16,300	75,557	37,603	37,953	1,983	9,630	7,054	795	244	944	594	3,294	2,655	1,618	350	686	1,065
1968		111,968	15,875	77,232	36,973	40,259	1,884	9,928	7,199	838	261	1,001	629	3,277	2,705	1,652	368	685	1,067
1969		112,449	16,395	77,187	34,549	42,638	2,007	9,863	7,023	900	262	1,008	670	3,162	2,775	1,676	402	696	1,060
1970		107,947	17,068	72,292	30,020	42,273	1,944	9,933	6,926	974	269	1,062	703	2,985	2,780	1,683	390	707	945
1971		105,470	17,253	69,770	28,078	41,692	1,921	10,038	6,885	1,025	282	1,133	712	2,874	2,773	1,669	384	720	841
1972		107,815	17,540	71,291	28,019	43,272	2,056	10,342	7,090	1,058	296	1,169	730	2,945	2,890	1,769	379	743	750
1973		110,004	17,189	73,584	27,011	46,573	1,937	10,495	7,138	1,072	318	1,219	748	2,989	3,135	2,012	373	750	675
1974		108,691	16,723	72,460	24,671	47,788	2,111	10,477	7,038	1,043	339	1,279	779	3,017	3,219	2,080	372	766	684
1975		106,193	16,556	69,840	23,453	46,387	2,164	10,626	7,145	1,036	351	1,285	810	3,176	3,160	2,009	370	781	670
1976		111,023	16,583	73,501	24,412	49,089	2,506	10,976	7,373	1,039	369	1,351	843	3,563	3,206	2,002	381	823	690
1977		114,703	16,440	76,392	25,205	51,188	2,546	11,503	7,656	1,043	409	1,505	891	3,883	3,211	1,959	389	863	728
1978		120,488	17,218	79,688	24,996	54,693	2,676	12,354	8,232	1,096	449	1,679	899	4,381	3,347	2,053	396	899	822
1979		126,443	17,059	84,621	25,924	58,697	2,658	13,048	8,786	1,099	490	1,792	880	4,596	3,572	2,249	398	925	890
1980		132,294	16,385	90,453	26,683	63,770	2,672	13,507	9,070	1,085	551	1,924	877	4,825	3,470	2,128	396	945	981
1981		138,307	16,462	96,472	28,692	67,780	2,650	13,555	8,934	1,112	601	2,023	886	4,753	3,414	2,056	394	964	1,003
1982		145,598	17,132	103,077	30,763	72,314	2,676	13,708	8,797	1,120	655	2,175	962	4,586	3,453	2,036	404	1,012	966
1983		156,021	18,784	110,461	33,121	77,340	2,749	14,312	9,037	1,141	749	2,353	1,031	4,927	3,774	2,264	423	1,086	1,015
1984		170,926	19,920	122,140	36,205	85,935	2,907	15,302	9,608	1,205	865	2,531	1,092	5,422	4,198	2,587	444	1,167	1,037
1985		186,067	21,245	133,665	41,106	92,559	3,023	16,725	10,365	1,352	1,022	2,828	1,157	5,867	4,479	2,748	469	1,263	1,062
1986		190,897	21,439	136,419	41,276	95,143	3,002	18,320	11,156	1,538	1,183	3,204	1,238	6,307	4,552	2,676	499	1,377	859
1987		194,940	20,963	139,093	44,364	94,728	3,078	19,758	11,984	1,642	1,282	3,490	1,360	6,614	4,649	2,629	527	1,492	786
1988		199,688	21,392	141,536	42,092	99,443	3,165	21,211	12,817	1,738	1,392	3,769	1,496	6,832	4,792	2,629	555	1,608	760
1989		203,934	21,890	143,525	37,885	105,640	3,155	22,470	13,390	1,831	1,524	4,099	1,626	6,835	5,273	2,964	582	1,728	786
1990		210,337	21,687	148,632	35,706	112,926	3,215	23,441	13,754	1,936	1,613	4,410	1,728	6,772	5,710	3,246	609	1,855	880
1991		215,006	20,380	153,260	32,202	121,058	3,043	24,332	14,256	1,981	1,659	4,621	1,815	6,843	6,217	3,580	640	1,997	930
1992		215,868	20,696	152,429	29,203	123,225	3,072	25,311	15,049	1,991	1,723	4,659	1,890	6,866	6,518	3,663	680	2,175	976
1993		211,686	21,114	147,444	26,624	120,820	2,510	26,177	15,720	1,989	1,777	4,737	1,955	6,756	6,728	3,632	724	2,372	957
1994		211,666	20,459	146,849	25,345	121,504	2,755	27,028	16,256	2,030	1,821	4,926	1,995	6,622	7,003	3,642	772	2,590	949
1995		225,015	20,714	159,094	25,952	133,143	2,785	27,715	16,656	2,146	1,896	5,036	1,981	6,577	7,140	3,489	822	2,829	990
1996		237,309	19,943	171,201	25,681	145,521	2,762	28,520	16,936	2,238	2,010	5,334	2,003	6,487	7,467	3,494	878	3,095	928
1997		250,687	19,874	183,638	25,757	157,880	2,517	29,404	17,169	2,271	2,136	5,717	2,111	6,455	7,830	3,561	956	3,313	970

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	Funding source:	All sources	Federal	Total	Federal <sup>a</sup>	Industry <sup>d</sup>	Total	Total	Federal	Other government <sup>e</sup>	Industry	U&C	nonprofit	Total	Total	Federal <sup>c</sup>	Industry <sup>f</sup>	Other nonprofit <sup>f</sup>	Total
1998		264,602	20,287	195,249	25,806	169,443	2,428	30,591	17,730	2,304	2,278	6,033	2,246	6,496	8,567	3,833	1,004	3,730	985
1999		282,488	20,891	209,679	23,601	186,078	2,348	32,445	18,728	2,416	2,397	6,471	2,432	6,508	9,450	4,330	1,072	4,048	1,167
2000		303,084	21,693	225,378	19,293	206,085	2,255	34,595	19,971	2,532	2,450	7,023	2,620	6,472	10,971	5,083	1,149	4,739	1,720
2001		308,304	24,661	222,664	18,626	204,038	2,227	37,166	21,787	2,640	2,413	7,523	2,802	6,862	12,308	6,049	1,134	5,125	2,416
2002		303,036	25,812	210,278	17,789	192,488	2,455	41,094	24,572	2,831	2,362	8,262	3,068	7,703	13,179	6,267	1,083	5,829	2,515
2003		311,319	26,539	213,230	18,907	194,323	2,611	44,573	27,330	3,034	2,301	8,739	3,169	7,756	13,960	6,315	1,084	6,561	2,649
2004		314,660	25,724	215,218	20,939	194,279	2,568	46,269	28,798	3,108	2,305	8,846	3,212	7,913	14,236	6,754	1,076	6,407	2,732
2005		327,185	26,322	226,159	21,909	204,250	2,601	47,006	29,019	3,060	2,368	9,265	3,294	7,817	14,452	6,545	1,107	6,800	2,828
2006		341,532	27,356	239,917	23,543	216,374	3,024	47,419	28,673	3,083	2,483	9,760	3,420	7,078	13,888	5,854	1,145	6,888	2,851
2007		357,426	28,109	253,484	25,027	228,457	4,862	48,151	28,393	3,237	2,638	10,198	3,685	5,241	14,245	5,629	1,183	7,433	3,335
2008		374,472	27,480	267,706	33,486	234,219	5,844	49,656	28,714	3,413	2,827	10,720	3,982	4,389	15,070	5,743	1,198	8,129	4,327
2009		369,517	27,901	257,823	36,130	221,693	6,068	52,015	30,525	3,477	2,915	10,880	4,218	4,612	16,436	6,480	1,148	8,808	4,662
2010		367,326	28,804	251,348	30,812	220,536	6,499	54,391	32,944	3,413	2,833	10,901	4,299	4,788	16,579	6,391	1,140	9,048	4,916
2011		377,706	31,559	259,436	27,619	231,816	6,136	55,097	33,269	3,280	2,813	11,437	4,298	4,628	15,985	5,781	1,176	9,028	4,866
2012 (preliminary)		392,206	32,563	274,467	31,459	243,008	5,900	54,359	32,407	3,171	2,809	11,705	4,266	4,484	15,697	5,464	1,212	9,022	4,735

NA = not available; included in data for federal funding to industry and federal funding to other nonprofit institutions.

FFRDC = federally funded R&D center; U&C = universities and colleges.

<sup>a</sup> Federal funding for industry in 1953–54 did not separate out industry-administered FFRDCs, and the data for federal funding to industry for these years include the funding to these FFRDCs.

<sup>b</sup> The data for U&C R&D before 2003 cover only science and engineering (S&E) fields; in 2003 and later years, the R&D in non-S&E fields is also included. Non-S&E R&D was \$1.4 billion in 2003 and \$3.5 billion in 2012. Adjustments have also been made to U&C R&D for 1998 and later years to eliminate double counting of (since 1998) S&E R&D and (since 2010) non-S&E funds passed through from one academic institution to another. For FY 1998, \$479 million in total pass-through funds and \$421 million in federal pass-through funds were reported. For FY 2012, total pass-through funds were an estimated \$3.069 billion and federal pass-through funds were an estimated \$2.747 billion.

<sup>c</sup> Federal funding for other nonprofit institutions in 1953–54 did not separate out nonprofit-administered FFRDCs, and the data for federal funding to other nonprofit institutions these years include the funding to these FFRDCs.

<sup>d</sup> Industry sources of funding for industry R&D include all nonfederal sources of funding.

<sup>e</sup> Due to survey limitations, data on R&D funded by other (nonfederal) government are separately available only for U&C; nonetheless, other government funded R&D is included in the own performance of these other sectors (e.g., other government funding to other nonprofits is included in other nonprofit funding for their own R&D).

<sup>f</sup> The 1998–2012 data for other nonprofit R&D are not based on a dedicated nonprofit survey and may later be revised.

NOTES: The R&D data for 2012 are preliminary and may later be revised. Some back-year data may have been revised, accordingly, for trend comparisons, use only the historical data reported here; do not use data published earlier. Detail may not add to total due to rounding. Constant-dollar estimates are derived from unrounded data. Data are based on annual reports by performers, except for the nonprofit sector. The R&D expenditures of FFRDCs are chiefly from federal funding, but any nonfederal funds are included in the totals. Expenditures for industry and, before 2001, for industry-administered FFRDCs are collected by calendar year. Expenditures for other performers are calendar-year approximations based on fiscal year data. In most cases, the approximation equals 75% of the amount reported in the same fiscal year plus 25% of the amount reported in the subsequent fiscal year. However, the fiscal year for academic performers generally begins 1 July, not 1 October; also, prior to 1977, the federal fiscal year began on 1 July, not 1 October. Therefore, calendar-year approximations for academic performers and federal performers before 1977 equal 50% of the amount reported in the same fiscal year plus 50% of amount reported in the subsequent fiscal year. Los Alamos National Laboratory (some \$2 billion in annual R&D expenditures in recent years) became industry administered in June 2006—previously, it was U&C administered. Lawrence Livermore National Laboratory (more than \$1 billion in annual R&D expenditures in recent years) became industry administered in October 2007—previously, it was U&C administered. The distribution of R&D expenditures from 2006 to 2008 for both industry- and U&C-administered FFRDCs reflect these shifts.

SOURCES: National Science Foundation, National Center for Science and Engineering Statistics (NSF/NCSES), National Patterns of R&D Resources (annual series), Business R&D and Innovation Survey (annual series), Higher Education R&D Survey (annual series), Survey of Federal Funds for R&D (annual series), FFRDC R&D Survey (annual series), R&D Funding and Performance by Nonprofit Organizations (FYs 1996–97). All NSF/NCSES reports available at <http://www.nsf.gov/statistics/>.