

TABLE 20. Domestic R&D paid for and performed by the company, by type of cost, industry, and company size: 2014  
(Millions of U.S. dollars)

Industry and company size	NAICS code	Total	Salaries, wages, and fringe benefits	Stock-based compensation	Temporary staffing	Expensed equipment	Materials and supplies	Lease and rental payments	Depreciation	Other purchased services (except R&D)	Other
All industries	21-23, 31-33, 42-81	282,570	162,704	16,247	12,257	5,308	20,619	5,170	10,923	5,804	43,538
Manufacturing industries	31-33	192,160	104,426	7,834	7,104	3,778	17,586	3,155	8,385	4,466	35,426
Food	311	5,071 i	2,559 i	79 i	152 i	723 i	288 i	123 i	308 i	197 i	642 i
Beverages and tobacco products	312	819	453	13	28	2	60	5	37	1	221
Textiles, apparel, and leather products	313-16	616	409	5	22 i	2	75	10 i	17	19	57
Wood products	321	351 i	239 i	*	9 i	3 i	77 i	4 i	3 i	3 i	11 i
Paper	322	711	483 i	* i	25 i	2 i	88 i	5 i	19 i	13 i	76 i
Printing and related support activities	323	232	142	3 i	4 i	1 i	47	4 i	8 i	1 i	22
Petroleum and coal products	324	229	149	2	14	1	20	3	7	14	20
Chemicals	325	56,488	26,768	2,334	2,630	245	4,699	1,109	2,438	1,247	15,017
Basic chemicals	3251	2,554	1,519	24	56	29	227	67	158	80	395
Resins, synthetic rubber, and artificial synthetic fibers and filaments	3252	1,136	706	10	45	16	86	28	58	13	174
Pesticides, fertilizers, and other agricultural chemicals	3253	1,327 i	543 i	D	37 i	3 i	67 i	18 i	75 i	30 i	D
Pharmaceuticals and medicines	3254	47,646	21,529	2,278	2,378	184	4,092	963	1,995	1,088	13,139
Soaps, cleaning compounds, and toilet preparations	3256	2,531	1,606	12	91	7	159	22	101	25	507
Paints, coatings, adhesives, and other	3255, 3259	1,294 i	865	D	24	7	69	11	52	11	D
Plastics and rubber products	326	3,416	1,996	54	98	32	442	40	144	117	493
Nonmetallic mineral products	327	1,420 i	767 i	2 i	44 i	12 i	228 i	15 i	63 i	43 i	247 i
Primary metals	331	615	308	7	6	1	61	1	26	5	200
Fabricated metal products	332	2,000	1,443 i	11 i	34 i	38	262 i	15	47 i	37 i	113
Machinery	333	11,458	6,727	107 i	631	125	1,634	107	505	122	1,500
Agricultural implements	33311	1,539	806	0	97	8	325	10	54	1	239
Semiconductor machinery	333295	2,821	1,330	62 i	153	12	410	13	185	19	638
Engines, turbines, and power transmission equipment	3336	2,285	1,443	2	252	10	241 i	14	98	15	211 i
Other machinery	other 333	4,813	3,148	43 i	129	96	658	70 i	169	87 i	411
Computer and electronic products	334	64,695	37,312	4,891	1,553	1,500	4,593	1,314	3,498	1,521	8,513
Communications equipment	3342	16,808	8,001	2,068	205	597	1,013	658	868	831	2,568
Semiconductors and other electronic components	3344	30,029	18,113 i	2,355 i	581 i	577 i	1,968 i	438 i	1,905 i	233	3,860
Navigational, measuring, electromedical, and control instruments	3345	10,576	6,484	189 i	586	186	1,076	172	338	150	1,394
Electromedical, electrotherapeutic, and irradiation apparatus	334510, 334517	3,697	1,924	124 i	282	104	426	116	181	50	490 i
Search, detection, navigation, guidance, aeronautical, and nautical systems and instruments	334511	2,984	1,981	14	149	16	304	14	61	25	421
Other measuring and controlling devices	other 3345	3,895	2,580	51	155	66	345	42	97	76	484

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Other computer and electronic products	other 334	7,282	4,714 i	280	182	140	536 i	46	387	307	691
Electrical equipment, appliances, and components	335	4,178	2,907	28	184	47	305	60	117	100 i	430
Transportation equipment	336	27,261	14,261	6	1,192	914	3,757	247	778	643	5,462
Automobiles, bodies, trailers, and parts	3361-63	15,900	9,296	3	1,032	746	2,233	212	462	189	1,727
Aerospace products and parts	3364	10,300	4,346	1	128	145	1,244	26	294	441	3,677
Aircraft, aircraft engines, and aircraft parts	336411-13	10,011	4,178	1	125	D	1,181	25	293	440	D
Guided missiles, space vehicles, and related parts	336414-15, 336419	289	168	0	3 i	D	63 i	1 i	1 i	1	D
Military armored vehicles, tanks, and tank components	336992	10	6	0	0	0	2	0	1	*	1
Other transportation	other 336	1,051	614	2	32	23 i	277	10	21	14	57
Furniture and related products	337	369	267	0	7	1	42	1	4	10 i	35
Miscellaneous	339	12,230	7,234	292	470	129	909	92	366	372	2,366
Medical equipment and supplies	3391	9,809	5,530	267	420	122	810	76	310	358	1,915
Other miscellaneous manufacturing	3399	2,421	1,704	24	50	7 i	99	15	56	14 i	451
Nonmanufacturing industries	21-23, 42-81	90,409	58,278	8,414	5,153	1,530	3,033	2,014	2,538	1,338	8,112
Mining, extraction, and support activities	21	3,821	2,138	41	208	17	489	42	91	327	467
Utilities	22	258	86	*	47	1	18	*	55	38	13
Wholesale trade	42	329 i	203 i	0	10 i	*	53 i	8 i	6 i	9 i	40 i
Electronic shopping and electronic auctions	454111-12	1,388	957	D	*	0	*	0	0	0	D
Transportation and warehousing	48-49	675	439	*	64	7 i	89 i	4 i	16 i	1 i	54 i
Information	51	62,296	39,481	7,485	2,871	1,198	1,696	1,505	1,816	466	5,778
Publishing	511	34,869	23,567	2,509	1,335	251	655	578	957	404	4,615
Newspaper, periodical, book, and directory publishers	5111	88 i	61 i	0	2 i	* i	* i	*	0	5 i	21 i
Software publishers	5112	34,781	23,507	2,509	1,333	251	655	578	957	399	4,594
Telecommunications	517	3,710	2,226	242	135	23	799	203	15	4 i	63
Data processing, hosting, and related services	518	8,926	6,368	666	481	180	84	203	226	34	685
Other information	other 51	14,791	7,320	4,069	921	744	158	522	618	24	414
Finance and insurance	52	4,090	2,408	32	1,005	18	7	68	64	291	198
Real estate and rental and leasing	53	262	165	24	6	6	2	5	29	*	25
Lessors of nonfinancial intangible assets (except copyrighted works)	533	55	53	* i	* i	* i	*	* i	1	0	1
Other real estate and rental and leasing	other 53	207	112	24	6	6	2 i	5	28	*	24
Professional, scientific, and technical services	54	16,061 i	11,542 i	669 i	892 i	262 i	570 i	372 i	432 i	199 i	1,123 i
Architectural, engineering, and related services	5413	1,503 i	1,131 i	3 i	126 i	14 i	61 i	17 i	24 i	4 i	123 i
Computer systems design and related services	5415	8,644 i	6,231 i	555 i	442 i	200 i	151 i	192 i	237 i	121 i	515 i
Scientific R&D services	5417	2,668	1,624	64	120 i	34 i	298	114 i	72 i	61 i	282

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Biotechnology R&D	541711	692	370 i	28	30 i	4 i	85	39 i	24 i	12 i	99
Physical, engineering, and life sciences (except biotechnology) R&D	541712	1,950	1,237	34 i	90 i	30 i	210	75 i	47 i	49 i	178
Social sciences and humanities R&D	541720	26	16	1	* i	*	3	*	1	* i	4
Other professional, scientific, and technical services	other 54	3,245 i	2,557	48 i	203 i	14	60	48	99	13 i	203 i
Health care services	621-23	439 i	265 i	24 i	20 i	8 i	56 i	6 i	18 i	1 i	41
Other nonmanufacturing	23, 44-45 (excluding 454111-12), 55-56, 624, 71-72, 81	791 i	594 i	D	29 i	12 i	55 i	4	11	6 i	D
All companies (number of domestic employees)	-	282,570	162,704	16,247	12,257	5,308	20,619	5,170	10,923	5,804	43,538
Small companies <sup>a</sup>											
5-499	-	42,889	26,918	1,672	1,963 i	964	3,544	1,038	1,325	721 i	4,746
5-99	-	21,695 i	13,495 i	790 i	1,076 i	688	1,863 i	549 i	677 i	402 i	2,155 i
5-49	-	14,169 i	8,736 i	527 i	719 i	603	1,183 i	372 i	460 i	265 i	1,304 i
5-9	-	2,426 i	1,261 i	70 i	132 i	371	157 i	75 i	132 i	52 i	176 i
10-24	-	5,506 i	3,410 i	207 i	288 i	141 i	551 i	141 i	142 i	109 i	517 i
25-49	-	6,237 i	4,064 i	251 i	299 i	91 i	475 i	156	187 i	104 i	610
50-99	-	7,526	4,760	263	357	85 i	680	176	217 i	137 i	851
100-249	-	11,006	7,078	386	517	145 i	898	278	357	191	1,156
250-499	-	10,188	6,344	495	370	130	784	211	291	128	1,435
Medium and large companies											
500-999	-	11,736	7,165	629	487	181	827	227	474	165 i	1,581
1,000-4,999	-	47,807	27,616	3,167	1,677	841 i	2,926	923	1,959	696	8,002
5,000-9,999	-	30,680	17,400	2,623	1,069	452	1,965	428	1,278	860	4,605
10,000-24,999	-	46,904	27,885	1,403 i	1,923	403	4,236	638	1,833	821	7,762
25,000 or more	-	102,555	55,720	6,753	5,137	2,468	7,123	1,917	4,055	2,541	16,842

\* = amount < \$500,000; D = data withheld to avoid disclosing operations of individual companies; i = > 50% of the estimate is a combination of imputation and reweighting to account for nonresponse.

NAICS = 2012 North American Industry Classification System.

<sup>a</sup> Upper bound is based on the U.S. Small Business Administration's definition of a small business: the Business R&D and Innovation Survey does not include companies with fewer than five domestic employees.

NOTES: Detail may not add to total because of rounding. Industry classification is based on the dominant business code for domestic R&D performance, where available. For companies that did not report business codes, the classification used for sampling was assigned. Statistics are representative of companies located in the United States that performed or funded R&D.

SOURCE: National Science Foundation, National Center for Science and Engineering Statistics, and U.S. Census Bureau, Business R&D and Innovation Survey, 2014.