

TABLE 27. Domestic R&D paid for and performed by the company, by type of cost, industry, and company size: 2013
(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 ^a
All industries	21-23, 31-33, 42-81	264,913	153,633	13,553	11,904	4,059	19,511	4,099	10,413	5,491	42,250
Manufacturing industries	31-33	181,170	100,140	7,482	6,528	2,867	17,011	2,907	8,163	4,149	31,923
Food	311	4,801	3,534 i	85	85 i	10	248	43	133 i	145 i	518
Beverage and tobacco products	312	727	419	10	28	2	43	2	33	4 i	186
Textile, apparel, and leather products	313-16	642	433	3	16	4	70	7	17	13	78
Wood products	321	209	139	*	7	1	47	2	3	1	9
Paper	322	907	548 i	* i	40 i	3 i	198 i	3 i	13 i	16 i	86 i
Printing and related support activities	323	224 i	158 i	3 i	3 i	1	23	4 i	5 i	2	24
Petroleum and coal products	324	236	160	*	4 i	1	15	1	7 i	9	39 i
Chemicals	325	54,285	26,242	2,220	2,350	251	4,528	1,174	2,579	1,659	13,282
Basic chemicals	3251	2,341	1,426	15	73	29	190	64	136	39	369
Resin, synthetic rubber, and artificial synthetic fibers and filaments	3252	954	609	1	22	15	58	23	50	39	137
Pesticide, fertilizer, and other agricultural chemicals	3253	1,325 i	478 i	8 i	37 i	4 i	99 i	50 i	143 i	142 i	363 i
Pharmaceuticals and medicines	3254	45,891	21,309	2,179	2,122	184	3,989	996	2,100	1,378	11,635
Soap, cleaning compound, and toilet preparation	3256	2,458	1,544	10	69	4	143	26	102	40	521
Paint, coating, adhesive, and other chemicals	3255, 3259	1,315	876	5	28	15	49	15	48	21	257
Plastics and rubber products	326	3,496	2,108	56	92	19	357	38	236	111	479
Nonmetallic mineral products	327	1,303 i	759 i	2	34 i	10 i	100 i	9 i	48 i	25 i	316 i
Primary metals	331	605	327	5	10	3	61	2	21	5	170
Fabricated metal products	332	1,934 i	1,414 i	4 i	22 i	17 i	202 i	7 i	43 i	26 i	199 i
Machinery	333	12,092	7,021	200 i	699	106	1,709	115	543	163	1,536 i
Agricultural implement	33311	1,561	789	0	108	16	312	6	45	3	282
Semiconductor machinery	333295	3,097	1,449 i	175 i	85 i	4 i	493 i	46 i	240 i	5 i	600 i
Engine, turbine, and power transmission equipment	3336	1,336	806	2	119	38	113	11	53	106	88
Other machinery	other 333	6,098	3,978	23	388	49	791 i	52	204	49	565
Computer and electronic products	334	57,364	33,306	4,511	1,440	1,255	4,387	1,127	3,117	1,168	7,053
Communications equipment	3342	13,693	7,503	1,602	199	442	955	472	715	539	1,267
Semiconductor and other electronic components	3344	28,576	16,439	2,491	510	549	2,137	465	1,699	216	4,069
Navigational, measuring, electromedical, and control instruments	3345	9,001	5,596	138	551	127	839	104	313	127	1,206
Electromedical, electrotherapeutic, and irradiation apparatus	334510, 334517	2,470	1,419	48	294	26	210	54	175	33	212
Search, detection, navigation, guidance, aeronautical, and nautical system and instrument	334511	3,037	1,956	14	146	46 i	344	11	57	17	446
Other measuring and controlling device	other 3345	3,494	2,221	76	112	55	285	39	81	77	548
Other computer and electronic products	other 334	6,093	3,767	280	179	138	456	85	390	286	511
Electrical equipment, appliances, and components	335	3,660	2,513	51	147	46	292 i	49 i	103 i	78 i	382
Transportation equipment	336	25,165	12,903	4	1,119	999	3,737	226	823	361	4,993
Automobiles, bodies, trailers, and parts	3361, 3362, 3363	14,081	7,975	3	870	827	2,228	195	398	133	1,453
Aerospace products and parts	3364	10,042	4,288	*	226	170	1,244	26	406	212	3,469
Aircraft, aircraft engine, and aircraft parts	336411-13	9,765	4,144	*	222	169	1,203	26	405	212	3,382

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Guided missile, space vehicle, and related parts	336414-15, 336419	278	144	0	3	1	41	1	1	*	87
Military armored vehicle, tank, and tank components	336992	7 i	4 i	*	*	0	2 i	0	*	*	1
Other transportation	other 336	1,035	637 i	0	23	2	263 i	5	19	15 i	70
Furniture and related products	337	374	253	2	9	1	61	1	4	1	41
Miscellaneous manufacturing	339	13,147	7,903	327	424	135	932	97	434	362	2,533
Medical equipment and supplies	3391	10,638	6,203	312	370	128	828	72	372	344	2,009
Other miscellaneous manufacturing	3399	2,509	1,699	15	54	7	104	24	62	18	524
Nonmanufacturing industries	21-23, 42-81	83,742	53,492	6,071	5,376	1,193	2,500	1,192	2,250	1,342	10,326
Mining, extraction, and support activities	21	3,602	2,048	39	213	43	363	56	81	275	484
Utilities	22	243	84	3	35	1	18	2	28	6	66
Wholesale trade	42	510 i	378 i	* i	14 i	3 i	42 i	6 i	8 i	12 i	47 i
Electronic shopping and electronic auctions	454111-12	1,356 i	925	9 i	22 i	D	D	18 i	D	79 i	246
Transportation and warehousing	48-49	411	225	* i	7	5 i	96 i	4 i	16 i	0	59 i
Information	51	56,039	34,900	5,584	2,841	913	1,305	768	1,582	469	7,676
Publishing	511	34,637	22,245	2,246	1,542	230	1,072	213	675	406	6,008
Newspaper, periodical, book, and directory publishers	5111	341 i	211 i	0	65 i	* i	1 i	* i	0	13 i	52 i
Software publishers	5112	34,296	22,034	2,246	1,477	230	1,072	213	675	394	5,956
Telecommunications	517	3,037	2,153 i	13	329 i	118 i	22 i	17 i	46	16 i	323 i
Data processing, hosting, and related services	518	6,333	4,378	337	310	154	88	107	163	27	771
Other information	other 51	12,032	6,124	2,989	660	412	124	431	698	21	574
Finance and insurance	52	4,298	2,345	45	1,239	24	6	31	50	295	263
Real estate and rental and leasing	53	150	105	12	8	*	2	6	2	*	15
Lessors of nonfinancial intangible assets (except copyrighted works)	533	58 i	43 i	3	2	*	1	4	1	0	4
Other real estate and rental and leasing	other 53	92	62	9	6	*	1	2	1	*	11
Professional, scientific, and technical services	54	15,617 i	11,424 i	371 i	877 i	184 i	562	283 i	405 i	172 i	1,339 i
Architectural, engineering, and related services	5413	1,261	1,014 i	1	54 i	4	42	12	12 i	2	121 i
Computer systems design and related services	5415	8,107 i	6,163 i	294 i	408 i	128 i	120 i	153 i	195 i	62 i	585 i
Scientific research and development services	5417	2,838	1,582	44	130 i	46	331	102	123	81	399
Biotechnology research and development	541711	1,331	677	33	47 i	15	172	54	72	50	210
Physical, engineering, and life sciences (except biotechnology) research and development	541712	1,470	877	11 i	82 i	31 i	158	47 i	51 i	31 i	182
Social sciences and humanities research and development	541720	36 i	27 i	0	*	*	1	* i	*	*	7 i
Other professional, scientific, and technical services	other 54	3,411	2,665	32	285	7	69	16 i	76	28	234
Health care services	621-23	430 i	262 i	7 i	14 i	3 i	42 i	11 i	18 i	28 i	45 i
Other nonmanufacturing	23, 44-45 (excluding 454111-12), 55-56, 624, 71-72, 81	1,086 i	796 i	* i	105 i	D	D	8 i	D	6 i	87 i

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All companies (number of domestic employees)	-	264,913	153,633	13,553	11,904	4,059	19,511	4,099	10,413	5,491	42,250
Small companies ^b											
5-499	-	42,106	26,575 i	1,337	2,051	460 i	3,375	916	1,239	738	5,414
5-99	-	20,886 i	13,183 i	536 i	1,197 i	228 i	1,813	456	558 i	394 i	2,522 i
5-49	-	13,726 i	8,550 i	350 i	876 i	153 i	1,230 i	292 i	373 i	272 i	1,631 i
5-9	-	2,195 i	1,421 i	63 i	127 i	21 i	140 i	44 i	58 i	40 i	281 i
10-24	-	5,290 i	3,369 i	138 i	343 i	54 i	392 i	99 i	144 i	115 i	634 i
25-49	-	6,241 i	3,759 i	149 i	406 i	77 i	698	148	171 i	116	716 i
50-99	-	7,161	4,634 i	186	321	75 i	583	164	186 i	122	891 i
100-249	-	10,922	6,973	347	475	128	874	250	351	206	1,319
250-499	-	10,297	6,418	454	379	104	689	210	331	139	1,573
Medium and large companies											
500-999	-	10,280	6,130	599	356	177	733	139	463	143	1,540
1,000-4,999	-	45,342	25,703	3,020	1,523	729	3,112	967	1,800	711	7,775
5,000-9,999	-	25,009	14,902	1,324	738	374	1,698	270	1,199	816	3,688
10,000-24,999	-	44,275	25,343	1,410	1,775	322	4,140	610	2,102	948	7,625
25,000 or more	-	97,901	54,980	5,862	5,460	1,998	6,454	1,195	3,609	2,136	16,207

* = 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 = 2007 North American Industry Classification System.

^a May include R&D costs allocated to subsidiaries by parent companies.

^b Upper bound based on U.S. Small Business Administration's definition of a small business; 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 based on dominant business code for domestic R&D performance where available. For companies that did not report business codes, 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, 2013.