

TABLE 30. Domestic R&D paid for by others 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	58,158	32,827	371	1,954	507 i	6,709	879	1,183	2,087 i	11,640
Manufacturing industries	31-33	40,655	21,958 i	315	1,208	353 i	5,454 i	570	854	1,553 i	8,391 i
Food	311	220	145	1	4	1	19	8	8	10	24
Beverages and tobacco products	312	101	64	* i	3	5	5	3	10	3	7
Textiles, apparel, and leather products	313-16	15 i	4 i	* i	* i	* i	4 i	* i	* i	* i	6 i
Wood products	321	12 i	6 i	* i	1 i	0	1 i	* i	* i	* i	3 i
Paper	322	12	7 i	* i	* i	* i	1 i	* i	* i	* i	2 i
Printing and related support activities	323	2 i	1 i	* i	* i	* i	* i	* i	* i	* i	* i
Petroleum and coal products	324	5	4	0	* i	* i	1 i	* i	*	*	* i
Chemicals	325	9,813	5,091	268	378	58	617	247	352	429	2,372
Basic chemicals	3251	295 i	184 i	4	9 i	9 i	31 i	6	18 i	2	31 i
Resins, synthetic rubber, and artificial synthetic fibers and filaments	3252	15 i	11 i	0	*	*	2 i	* i	* i	1 i	1 i
Pesticides, fertilizers, and other agricultural chemicals	3253	464	221	0	79	1 i	32	21	33	0	77
Pharmaceuticals and medicines	3254	8,966	4,636	263	286	46	549	217	300	426	2,242
Soaps, cleaning compounds, and toilet preparations	3256	16 i	12 i	1 i	1 i	* i	* i	* i	1 i	1 i	1 i
Paints, coatings, adhesives, and other	3255, 3259	56	28	0	3	1 i	2	2 i	* i	0	20
Plastics and rubber products	326	158 i	34 i	0	1 i	15 i	101 i	* i	3 i	1 i	3 i
Nonmetallic mineral products	327	24	12	0	*	1	3	1	1	*	6
Primary metals	331	62	38	* i	2	*	16 i	* i	*	* i	5 i
Fabricated metal products	332	130 i	45 i	26 i	* i	* i	37 i	2 i	4 i	* i	17 i
Machinery	333	670	374	1 i	38 i	11 i	116 i	23 i	35 i	16 i	57
Agricultural implements	33311	39	26	* i	1	* i	6	1	4	* i	2
Semiconductor machinery	333295	120	63	1	3	1	10	10	15	2	14
Engines, turbines, and power transmission equipment	3336	62	27	0	*	*	7	*	1	*	25
Other machinery	other 333	448 i	257	* i	34 i	9 i	93 i	11 i	15 i	14 i	16 i
Computer and electronic products	334	9,195	6,034	19	485	96	854	93	289	160	1,163
Communications equipment	3342	1,533 i	1,085 i	1 i	157 i	16 i	39 i	29 i	74 i	38 i	94 i
Semiconductors and other electronic components	3344	2,112	1,545	8	88	32	100	38	109	12	182
Navigational, measuring, electromedical, and control instruments	3345	5,387	3,293	10	233	36	706	26	105	104	875
Electromedical, electrotherapeutic, and irradiation apparatus	334510, 334517	220	126	* i	16	12	41	6	* i	0	18
Search, detection, navigation, guidance, aeronautical, and nautical systems and instruments	334511	4,876	2,969	10	200	21	646	19	81	103	830
Other measuring and controlling devices	other 3345	291	198	1	17	4	19	1	24	1	27

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Other computer and electronic products	other 334	163 i	112 i	* i	8 i	12 i	10	1 i	2 i	6	12
Electrical equipment, appliances, and components	335	187 i	107 i	* i	4 i	8 i	31 i	5 i	7 i	1 i	24 i
Transportation equipment	336	19,485 i	9,611 i	* i	265	142 i	3,602 i	186	138	924 i	4,616 i
Automobiles, bodies, trailers, and parts	3361-63	2,504	1,217	* i	163	11	580	125	88	36	284
Aerospace products and parts	3364	15,881 i	7,856 i	0	64 i	126 i	2,714 i	34	26	836 i	4,224 i
Aircraft, aircraft engines, and aircraft parts	336411-13	14,881 i	D	0	D	125 i	D	34	26	836 i	D
Guided missiles, space vehicles, and related parts	336414-15, 336419	1,001 i	D	0	D	1 i	D	* i	0	* i	D
Military armored vehicles, tanks, and tank components	336992	8	5	0	*	*	1	* i	*	*	1
Other transportation	other 336	1,091 i	534 i	* i	37 i	5 i	307 i	27 i	23 i	51 i	107 i
Furniture and related products	337	4 i	2 i	* i	* i	* i	1 i	* i	* i	* i	1 i
Miscellaneous	339	559	377	0	26 i	13 i	46 i	2 i	6 i	5 i	85
Medical equipment and supplies	3391	500	344	0	22 i	12 i	38 i	1 i	6 i	5 i	71
Other miscellaneous manufacturing	3399	60 i	33 i	0	4 i	1 i	8 i	* i	* i	0	14 i
Nonmanufacturing industries	21-23, 42-81	17,504	10,869	56	746	154 i	1,255	308	330	534	3,250
Mining, extraction, and support activities	21	882	425	2	36	103 i	46	18	7	19	226
Utilities	22	52	18	*	17	*	1	*	0	0	17
Wholesale trade	42	10 i	9 i	0	0	0	*	*	*	0	1
Electronic shopping and electronic auctions	454111-12	0	0	0	0	0	0	0	0	0	0
Transportation and warehousing	48-49	4	3	0	0	0	*	0	0	0	0
Information	51	1,477	926	3	19	3	32	11	12	10	461
Publishing	511	1,270	764	3	16	2	21	10	8	1	446
Newspaper, periodical, book, and directory publishers	5111	0	0	0	0	0	0	0	0	0	0
Software publishers	5112	1,270	764	3	16	2	21	10	8	1	446
Telecommunications	517	45	32	*	2	1	* i	1	* i	* i	9 i
Data processing, hosting, and related services	518	103	75	*	1	*	10	1	3	8 i	4
Other information	other 51	59	55	* i	1 i	* i	* i	*	*	*	3 i
Finance and insurance	52	32	32	0	0	0	0	0	0	0	0
Real estate and rental and leasing	53	* i	* i	0	0	0	0	0	0	0	0
Lessors of nonfinancial intangible assets (except copyrighted works)	533	0	0	0	0	0	0	0	0	0	0
Other real estate and rental and leasing	other 53	* i	* i	0	0	0	0	0	0	0	0
Professional, scientific, and technical services	54	14,914	9,347	51	671	48	1,172	277	309	505	2,534
Architectural, engineering, and related services	5413	1,871	1,149	0	26 i	5	58	17	4	27 i	585
Computer systems design and related services	5415	2,375 i	1,672 i	0	155 i	2 i	257 i	67 i	9 i	30 i	183 i

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Scientific R&D services	5417	10,139	6,116	51	481	39	841	177	292	445	1,697
Biotechnology R&D	541711	2,767	1,690	D	98	6	251	45	78	342	D
Physical, engineering, and life sciences (except biotechnology) R&D	541712	6,720	3,965	33	371	28	589	116	207	103	1,308
Social sciences and humanities R&D	541720	651	462	D	12	5	1	15	7	*	D
Other professional, scientific, and technical services	other 54	529	410	* i	8	2	17	16	4	2	69
Health care services	621-23	62 i	49 i	0	3 i	* i	1 i	2 i	1 i	1 i	5 i
Other nonmanufacturing	23, 44-45 (excluding 454111-12), 55-56, 624, 71-72, 81	70	59	0	1	*	2	1	1	0	6
All companies (number of domestic employees)	-	58,158	32,827	371	1,954	507 i	6,709	879	1,183	2,087 i	11,640
Small companies ^a											
5-499	-	11,884 i	7,340 i	69 i	528 i	200 i	1,255 i	326	233 i	270 i	1,663 i
5-99	-	7,383 i	4,522 i	47 i	332 i	146 i	801 i	212 i	119 i	160 i	1,043 i
5-49	-	4,730 i	2,972 i	14 i	218 i	41 i	595 i	130 i	59 i	82 i	620 i
5-9	-	868 i	515 i	3 i	38 i	11 i	66 i	20 i	11 i	16 i	189 i
10-24	-	1,671 i	1,046 i	6 i	72 i	15 i	252	45 i	26 i	23 i	187 i
25-49	-	2,191 i	1,412 i	5 i	108 i	15 i	277 i	65 i	22 i	43 i	244 i
50-99	-	2,652 i	1,551 i	33 i	114 i	105 i	207 i	82 i	60 i	78 i	423 i
100-249	-	2,486	1,605	9 i	73	27	254	63	46	51	358
250-499	-	2,015	1,213	13	123	27	200	51	68	59	262
Medium and large companies											
500-999	-	1,525	858	31	32	23 i	223	25	44	36	253
1,000-4,999	-	9,744	5,595	215	421	66	885	250	318	489	1,505
5,000-9,999	-	7,522	4,385	43	366	28	506	111	331	201	1,552
10,000-24,999	-	7,542	4,306	4 i	338	35 i	1,348	80	117	248	1,065
25,000 or more	-	19,941 i	10,343 i	9 i	269	155 i	2,491 i	87 i	140	844 i	5,602 i

* = 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.

^a 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.