

TABLE 38. Domestic R&amp;D paid for by the company and performed by others, by type of performer, industry, and company size: 2012

(Millions of U.S. dollars)

Industry and company size	NAICS code	Total	Companies	Companies outside the United States		U.S. federal government agencies	U.S. state government agencies	Foreign government agencies	All other		Undistributed <sup>a</sup>
			in the United States	Company's parent	Other				In the United States	Outside the United States	
All industries	21-23, 31-33, 42-81	30,118	25,035	553	2,763	77	25	2	675	332	656 i
Manufacturing industries	31-33	25,793	21,656	530	2,345	63	16	2	619	329	233 i
Food	311	396	340 i	1	17 i	*	*	0	17 i	D	D
Beverage and tobacco products	312	144	139	0	2	0	0	0	2	0	1 i
Textile, apparel, and leather products	313-16	14	10	0	1	0	0	0	D	0	D
Wood products	321	16 i	13 i	0	0	0	* i	0	D	0	D
Paper	322	20	9	10	0	0	0	0	D	0	D
Printing and related support activities	323	4 i	3 i	0	0	0	0	0	0	0	1 i
Petroleum and coal products	324	D	107	*	D	5	0	0	D	D	D
Chemicals	325	17,642	15,584	42 i	1,531	9	13	2	267	150	45 i
Basic chemicals	3251	589	505	10	4	*	12	1	53	*	3 i
Resin, synthetic rubber, and artificial synthetic fibers and filaments	3252	23	20	0	1	*	*	*	*	0	1 i
Pesticide, fertilizer, and other agricultural chemical	3253	59 i	41	17 i	1	0	0	0	1	0	* i
Pharmaceuticals and medicines	3254	16,645	14,745	3 i	1,515	9	1	*	201	144	28 i
Soap, cleaning compound, and toilet preparation	3256	260	233	0	9	0	*	0	7	3	8 i
Paint, coating, adhesive, and other chemicals	3255, 3259	67	41	12 i	2	*	*	*	4	4	5 i
Plastics and rubber products	326	180	74	*	41	*	*	0	40	7	17 i
Nonmetallic mineral products	327	212	84 i	106	1	0	0	0	D	0	D
Primary metals	331	119	39 i	67	D	0	0	0	D	0	D
Fabricated metal products	332	46 i	32	0	D	*	*	0	D	0	14 i
Machinery	333	864	760	0	35	4	*	*	46	1	18 i
Agricultural implement	33311	254	231	0	*	0	0	0	21	0	2 i
Semiconductor machinery	333295	29	29	0	*	0	*	*	*	0	* i
Engine, turbine, and power transmission equipment	3336	447	417	0	8	4	0	*	D	1	D
Other machinery	other 333	133	83	0	27	*	0	0	D	0	D
Computer and electronic products	334	1,533	1,064	2	118	2	1	0	174	155	17 i
Communications equipment	3342	745	382	0	55	0	0	0	150	154	4 i
Semiconductor and other electronic components	3344	309	265	2	39	1	*	0	1	*	1 i
Navigational, measuring, electromedical, and control instruments	3345	354	302	1	20	1	*	0	21	*	9 i
Electromedical, electrotherapeutic, and irradiation apparatus	334510, 334517	139	113	1	8	0	0	0	16	*	1 i
Search, detection, navigation, guidance, aeronautical, and nautical system and instrument	334511	91	81	0	8	1	0	0	0	0	* i
Other measuring and controlling device	other 3345	124	108	0	4 i	* i	*	0	5	0	7 i

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Other computer and electronic products	other 334	125	116	0	3	0	0	0	2	1	3 i
Electrical equipment, appliances, and components	335	129	104	5	9	0	*	0	D	0	D
Transportation equipment	336	3,553	2,647	295	553	40	2	0	7	0	8 i
Automobiles, bodies, trailers, and parts	3361-63	2,439	1,660	295	473	4	2	0	2	0	4 i
Aerospace products and parts	3364	1,079	959	0	74	36	0	0	6	0	4 i
Aircraft, aircraft engine, and aircraft parts	336411-13	976	856	0	74	36	0	0	5	0	4 i
Guided missile, space vehicle, and related parts	336414-15, 336419	103 i	103 i	0	0	0	0	0	*	0	* i
Military armored vehicle, tank, and tank component	336992	1	1	0	0	0	0	0	0	0	* i
Other transportation	other 336	34	28	0	5	0	0	0	0	0	1 i
Furniture and related products	337	20	15	0	D	0	0	0	0	0	D
Miscellaneous manufacturing	339	D	632	1	D	4	*	*	24	4	36 i
Medical equipment and supplies	3391	589	509	0	26	4	*	*	24	4	22 i
Other miscellaneous manufacturing	3399	D	123	1	D	0	0	0	0	0	14 i
Nonmanufacturing industries	21-23, 42-81	4,325	3,380	23	418	14	9	* i	55	4	423 i
Mining, extraction, and support activities	21	260	225	D	6	11	*	* i	13	1	D
Utilities	22	239	208	0	0	0	3	0	25 i	0	3 i
Wholesale trade	42	137 i	75 i	0	12 i	0	0	0	0	0	50 i
Electronic shopping and electronic auctions	454111-12	2 i	0	0	0	0	0	0	0	0	2 i
Transportation and warehousing	48-49	15 i	9	0	0	0	0	0	0	0	6 i
Information	51	1,345	1,125	6	155 i	0	*	0	6	0	52 i
Publishing	511	826	742	6	45	0	*	0	5	0	28 i
Newspaper, periodical, book, and directory publishers	5111	17 i	15 i	* i	* i	0	0	0	* i	0	2 i
Software publishers	5112	808	727	6	45	0	*	0	5	0	25 i
Telecommunications	517	190 i	84	0	103 i	0	0	0	1	0	2 i
Data processing, hosting, and related services	518	200	175	0	5	0	0	0	*	0	19 i
Other information	other 51	129	124	*	2	0	0	0	0	0	3 i
Finance and insurance	52	127	43	10	37	0	0	0	0	0	37 i
Real estate and rental and leasing	53	19	17	0	0	*	0	0	0	0	2 i
Lessors of nonfinancial intangible assets (except copyrighted works)	533	17	17	0	0	*	0	0	0	0	* i
Other real estate and rental and leasing	other 53	1 i	0	0	0	0	0	0	0	0	1 i
Professional, scientific, and technical services	54	1,939	1,616	D	207	2	6	0	11	2	D
Architectural, engineering, and related services	5413	30	26 i	0	0	0	0	0	*	0	4 i
Computer systems design and related services	5415	151 i	104 i	D	11 i	0	0	0	5	0	D
Scientific research and development services	5417	1,705	1,454	3	187	2	6	0	5	2	46 i

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Biotechnology research and development	541711	1,475	1,269	3	177	2	5	0	4	2	14 i
Physical, engineering, and life sciences (except biotechnology) research and development	541712	228	185	0	9	*	1	0	1	0	32 i
Social sciences and humanities research and development	541720	1 i	1	0	0	0	0	0	0	0	1 i
Other professional, scientific, and technical services	other 54	53	32	0	9	*	0	0	1	1	10 i
Health care services	621-23	37 i	24	0	1	0	0	0	0	0	12 i
Other nonmanufacturing	23, 44-45 (excluding 454111-12), 55-56, 624, 71-72, 81	205 i	37	0	*	0	0	0	0	0	168 i
All companies (number of domestic employees)	-	30,118	25,035	553	2,763	77	25	2	675	332	656 i
Small companies <sup>b</sup>											
5-499	-	5,104	3,973	34	430	4	8	* i	77	5	573 i
5-99	-	2,897	2,214	6	164	3	8	* i	28	4	472 i
5-49	-	2,193	1,691	5	105	2	3	0	24	3	359 i
5-9	-	298 i	215	3	10 i	* i	1	0	*	*	68 i
10-24	-	775	606	* i	31	1	* i	0	19	1	117 i
25-49	-	1,120	870	2	64	1	1 i	0	5	2	175 i
50-99	-	705	523	1 i	58	1	5	* i	3	1	112 i
100-249	-	1,256	943	23	181	*	1	* i	42	1	64 i
250-499	-	951	816	5	85	* i	* i	* i	7	0	37 i
Medium and large companies											
500-999	-	761	652	37	33	*	3	* i	11	1	24 i
1,000-4,999	-	4,390	4,053	130	167 i	1	*	*	23	3	13 i
5,000-9,999	-	2,209	1,984	13 i	96	10	11	1	84	6	3 i
10,000-24,999	-	8,922	8,136 i	68	532 i	5	1	0	130	50 i	* i
25,000 or more	-	8,732	6,238	270	1,505	57	2	*	349	268	43 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 = 2007 North American Industry Classification System.

<sup>a</sup> Detailed data were not collected on the BRD-1S questionnaire.

<sup>b</sup> The 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. The 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, 2012.