

TABLE 30. Domestic R&amp;D paid for by others and performed by the company, by source of funds, industry, and company size: 2012

(Millions of U.S. dollars)

Industry and company size	NAICS code	Total	Companies in the United States	Companies outside the United States		U.S. federal government agencies	U.S. state government agencies	Foreign government agencies	All other	
				Company's parent	Unaffiliated companies				In the United States	Outside the United States
All industries	21-23, 31-33, 42-81	54,970	11,624	8,486	3,607	30,621 i	157	120	334	22
Manufacturing industries	31-33	38,218	4,553	7,052	2,268	24,059 i	30 i	112	138	6
Food	311	171	39	117	2	12	0	0	* i	0
Beverage and tobacco products	312	D	D	D	D	D	0	0	0	0
Textile, apparel, and leather products	313-16	23	2 i	13	0	5 i	0	0	3	0
Wood products	321	9	D	D	* i	1	0	0	0	0
Paper	322	9	7	D	D	0	0	0	0	0
Printing and related support activities	323	3 i	1 i	0	1 i	* i	* i	0	* i	0
Petroleum and coal products	324	14	9	* i	* i	6	0	0	0	0
Chemicals	325	6,359	1,374	3,127	1,478	369 i	3	0	7	1
Basic chemicals	3251	380 i	12	60	22	285 i	2	0	0	0
Resin, synthetic rubber, and artificial synthetic fibers and filaments	3252	102	8	D	D	1	0	0	*	0
Pesticide, fertilizer, and other agricultural chemical	3253	D	0	D	D	D	D	0	D	0
Pharmaceuticals and medicines	3254	5,552	1,337	2,748	1,405 i	57	D	0	D	1
Soap, cleaning compound, and toilet preparation	3256	4 i	D	* i	D	1	*	0	* i	0
Paint, coating, adhesive, and other chemicals	3255, 3259	D	D	D	* i	D	D	0	D	0
Plastics and rubber products	326	338 i	70 i	251 i	* i	13 i	3 i	0	* i	0
Nonmetallic mineral products	327	34	5	* i	3	25	*	*	*	0
Primary metals	331	55	4	40	1	10	1	0	*	0
Fabricated metal products	332	114 i	76 i	5 i	11 i	13 i	6 i	0	2 i	0
Machinery	333	960	278	121	71	385	9	0	93	4
Agricultural implement	33311	43	20	19	* i	4	1	0	* i	* i
Semiconductor machinery	333295	73	D	58	D	4	0	0	0	0
Engine, turbine, and power transmission equipment	3336	579	104	D	D	363	2	0	D	4
Other machinery	other 333	265 i	D	D	D	15 i	6 i	0	D	* i
Computer and electronic products	334	8,391	1,248	1,611	556	4,852	6	112	7	*
Communications equipment	3342	1,440 i	189 i	431	13	806 i	* i	1	* i	0
Semiconductor and other electronic components	3344	1,375	145	765	372	88	2	0	1	0
Navigational, measuring, electromedical, and control instruments	3345	5,345	827	328	147	3,922	4 i	111	6	0
Electromedical, electrotherapeutic, and irradiation apparatus	334510, 334517	230	18 i	D	D	31	1	0	6	0
Search, detection, navigation, guidance, aeronautical, and nautical system and instrument	334511	4,927	697	D	D	3,819	*	111	0	0
Other measuring and controlling device	other 3345	188 i	112 i	1	0	72 i	2 i	0	0	0
Other computer and electronic products	other 334	231	86 i	86	24 i	35	0	0	0	*
Electrical equipment, appliances, and components	335	187	10 i	132	*	44 i	*	0	*	0
Transportation equipment	336	20,961 i	1,312	1,247	112	18,268 i	1	0	20	1
Automobiles, bodies, trailers, and parts	3361-63	D	558 i	1,244	D	D	1	0	D	0
Aerospace products and parts	3364	17,677 i	749	1	D	16,895 i	*	0	D	1
Aircraft, aircraft engine, and aircraft parts	336411-13	16,702 i	735	1	D	15,935 i	*	0	D	0

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Guided missile, space vehicle, and related parts	336414-15, 336419	975	15	0	0	960	0	0	0	1
Military armored vehicle, tank, and tank component	336992	D	D	0	0	D	0	0	0	0
Other transportation	other 336	D	D	3 i	* i	D	* i	0	* i	* i
Furniture and related products	337	* i	* i	0	0	0	0	0	0	0
Miscellaneous	339	D	D	D	D	D	1	0	5	*
Medical equipment and supplies	3391	431	106	250	26	43	1	0	5	0
Other miscellaneous manufacturing	3399	D	D	D	D	D	0	0	0	*
Nonmanufacturing industries	21-23, 42-81	16,752	7,071	1,434	1,339	6,562	127	8 i	195 i	16
Mining, extraction, and support activities	21	372	D	0	D	2	0	0	0	0
Utilities	22	103	*	2	1	64	23	0	12	0
Wholesale trade	42	245 i	200 i	30 i	12 i	3 i	1 i	0	0	0
Electronic shopping and electronic auctions	454111-12	6 i	D	D	0	0	0	0	0	0
Transportation and warehousing	48-49	1	* i	0	0	*	0	0	0	0
Information	51	954	351	419	*	142	5	*	36 i	*
Publishing	511	734	256	367	*	103	5	*	1	*
Newspaper, periodical, book, and directory publishers	5111	1 i	* i	0	0	* i	* i	0	* i	0
Software publishers	5112	733	256	367	*	103	5	*	1	*
Telecommunications	517	56	36	20	0	* i	* i	0	* i	0
Data processing, hosting, and related services	518	112	26	15	0	36	*	0	35 i	0
Other information	other 51	52 i	32 i	16	0	3 i	0	0	0	0
Finance and insurance	52	12	11	0	2	0	0	0	0	0
Real estate and rental and leasing	53	4	* i	0	0	4	0	0	0	0
Lessors of nonfinancial intangible assets (except copyrighted works)	533	4	* i	0	0	4	0	0	0	0
Other real estate and rental and leasing	other 53	0	0	0	0	0	0	0	0	0
Professional, scientific, and technical services	54	14,143	6,333	897	1,050	5,606	90	8 i	145 i	16
Architectural, engineering, and related services	5413	1,390 i	294 i	16	68 i	889 i	34 i	2 i	78 i	9 i
Computer systems design and related services	5415	2,088	435 i	167	13	1,449	21	0	2	1
Scientific research and development services	5417	9,756	5,512	592	948	2,596	34	5	62	6
Biotechnology research and development	541711	3,017	1,966	223	576	225	15	1	9	3
Physical, engineering, and life sciences (except biotechnology) research and development	541712	6,161	3,540 i	370	372	1,835	9 i	4	27 i	3
Social sciences and humanities research and development	541720	578	6	0	0	536	10	0	25	*
Other professional, scientific, and technical services	other 54	909	92	120	21	672	1	* i	3	*
Health care services	621-23	259 i	51 i	0	7	198 i	0	0	2 i	0
Other nonmanufacturing	23, 44-45 (excluding 454111-12), 55-56, 624, 71-72, 81	653	D	D	D	542	8	*	0	0
All companies (number of domestic employees)	-	54,970	11,624	8,486	3,607	30,621 i	157	120	334	22
Small companies <sup>a</sup>										
5-499	-	10,573 i	3,783 i	1,494	611	4,416 i	87 i	8 i	157 i	16

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5-99	-	6,259 i	2,324 i	623	299 i	2,850 i	55 i	7 i	92 i	10 i
5-49	-	4,365 i	1,700 i	346	188 i	2,010 i	43 i	6	64 i	7
5-9	-	959 i	309 i	45 i	28 i	548 i	5 i	* i	25 i	*
10-24	-	1,930 i	991 i	140	91 i	662 i	13 i	3	23 i	6
25-49	-	1,476	400 i	161	69 i	800	25	3 i	16 i	1 i
50-99	-	1,894 i	624 i	276	110 i	840	12 i	1 i	28 i	2 i
100-249	-	2,581	840	315	231	1,137 i	12 i	1	40 i	6
250-499	-	1,733	619	556	82	430	21	* i	25	* i
Medium and large companies										
500-999	-	1,257	475 i	443	57	266	3	* i	12	*
1,000-4,999	-	7,666	1,219	4,045	818	1,532	20	D	27	D
5,000-9,999	-	6,662	3,244	1,327	1,292	790	*	0	9	0
10,000-24,999	-	6,373	1,311	956	688	3,342	39	D	31	D
25,000 or more	-	22,440 i	1,592	222	141	20,275 i	7	101	98	4

\* = 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> 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.