

TABLE 36. Domestic R&D paid for by the U.S. federal government and performed by the company, by funding agency, industry, and company size: 2012
(Millions of U.S. dollars)

Industry and company size	NAICS code	Total	DOD	DOE	NASA	NIH	DHS	DOT	EPA	NSF	All other agencies
All industries	21-23, 31-33, 42-81	30,621 i	25,018 i	1,350 i	2,002	751 i	103	81	7	27	1,283
Manufacturing industries	31-33	24,059 i	20,708 i	833 i	1,611	78 i	25	4	*	4	796
Food	311	12	2 i	10	0	0	0	0	0	0	0
Beverage and tobacco products	312	D	D	D	0	0	0	0	0	0	0
Textile, apparel, and leather products	313-16	5 i	5 i	0	0	0	0	0	0	0	0
Wood products	321	1	0	D	0	0	0	0	0	0	D
Paper	322	0	0	0	0	0	0	0	0	0	0
Printing and related support activities	323	* i	* i	* i	0	* i	0	0	0	0	0
Petroleum and coal products	324	6	0	6	0	0	0	0	0	0	0
Chemicals	325	369 i	93	216 i	0	50	7	0	0	0	3
Basic chemicals	3251	285 i	75	207 i	0	2	0	0	0	0	0
Resin, synthetic rubber, and artificial synthetic fibers and filaments	3252	1	*	1	0	0	0	0	0	0	0
Pesticide, fertilizer, and other agricultural chemical	3253	D	1 i	D	0	D	0	0	0	0	0
Pharmaceuticals and medicines	3254	57	4	0	0	45	7	0	0	0	2
Soap, cleaning compound, and toilet preparation	3256	1	1	* i	0	* i	0	0	0	0	0
Paint, coating, adhesive, and other chemicals	3255, 3259	D	13 i	D	0	D	0	0	0	0	2
Plastics and rubber products	326	13 i	5 i	8 i	0	0	0	0	0	0	0
Nonmetallic mineral products	327	25	D	17 i	D	0	0	0	0	0	*
Primary metals	331	10	D	D	0	0	0	0	0	0	D
Fabricated metal products	332	13 i	13 i	*	0	0	0	0	0	0	0
Machinery	333	385	D	102	D	D	0	*	0	*	D
Agricultural implement	33311	4	* i	4	0	0	0	0	0	0	0
Semiconductor machinery	333295	4	1	3	0	0	0	0	0	0	0
Engine, turbine, and power transmission equipment	3336	363	D	D	D	D	0	0	0	0	0
Other machinery	other 333	15 i	D	D	D	0	0	*	0	*	D
Computer and electronic products	334	4,852	4,336	74 i	274 i	6	D	4	0	D	D
Communications equipment	3342	806 i	723 i	1	46 i	* i	0	0	0	0	36 i
Semiconductor and other electronic components	3344	88	52	34	1	*	0	0	0	0	1
Navigational, measuring, electromedical, and control instruments	3345	3,922	3,548	39 i	227 i	6	D	4	0	D	D
Electromedical, electrotherapeutic, and irradiation apparatus	334510, 334517	31	4	18 i	0	6	1	0	0	*	1
Search, detection, navigation, guidance, aeronautical, and nautical system and instrument	334511	3,819	3,487	6 i	227 i	0	D	4	0	D	D
Other measuring and controlling device	other 3345	72 i	56 i	15 i	0	0	0	0	0	*	1
Other computer and electronic products	other 334	35	12	* i	* i	0	0	0	0	*	22
Electrical equipment, appliances, and components	335	44 i	23 i	19 i	1 i	D	0	0	0	0	D
Transportation equipment	336	18,268 i	15,915 i	372 i	1,330	0	D	*	0	D	D
Automobiles, bodies, trailers, and parts	3361-63	D	D	D	1 i	0	D	*	0	D	*
Aerospace products and parts	3364	16,895 i	14,774 i	D	1,324	0	0	0	0	0	D
Aircraft, aircraft engine, and aircraft parts	336411-13	15,935 i	14,328 i	D	D	0	0	0	0	0	D
Guided missile, space vehicle, and related parts	336414-15, 336419	960	446	D	D	0	0	0	0	0	D

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Military armored vehicle, tank, and tank component	336992	D	D	0	0	0	0	0	0	0	D
Other transportation	other 336	D	D	* i	5 i	0	0	0	0	0	0
Furniture and related products	337	0	0	0	0	0	0	0	0	0	0
Miscellaneous	339	D	D	D	2 i	D	*	*	*	0	D
Medical equipment and supplies	3391	43	16 i	D	D	D	*	*	*	0	D
Other miscellaneous manufacturing	3399	D	D	0	D	D	0	0	0	0	0
Nonmanufacturing industries	21–23, 42–81	6,562	4,310 i	517 i	390 i	673 i	78 i	77	7	23	487
Mining, extraction, and support activities	21	2	0	2 i	0	0	0	0	0	0	0
Utilities	22	64	0	64	0	0	0	0	0	0	0
Wholesale trade	42	3 i	0	0	0	0	0	0	0	3 i	0
Electronic shopping and electronic auctions	454111–12	0	0	0	0	0	0	0	0	0	0
Transportation and warehousing	48–49	*	0	0	0	0	0	*	0	0	0
Information	51	142	116	15	* i	1 i	0	0	0	1	9
Publishing	511	103	92	12	0	0	0	0	0	*	0
Newspaper, periodical, book, and directory publishers	5111	* i	* i	* i	0	0	0	0	0	0	0
Software publishers	5112	103	92	12	0	0	0	0	0	*	0
Telecommunications	517	* i	* i	* i	0	0	0	0	0	0	0
Data processing, hosting, and related services	518	36	22 i	3 i	* i	1 i	0	0	0	1	7
Other information	other 51	3 i	2 i	* i	0	0	0	0	0	0	1
Finance and insurance	52	0	0	0	0	0	0	0	0	0	0
Real estate and rental and leasing	53	4	2	2	0	0	0	0	0	0	0
Lessors of nonfinancial intangible assets (except copyrighted works)	533	4	2	2	0	0	0	0	0	0	0
Other real estate and rental and leasing	other 53	0	0	0	0	0	0	0	0	0	0
Professional, scientific, and technical services	54	5,606	3,723 i	368 i	382 i	476 i	78 i	76	7	18	478
Architectural, engineering, and related services	5413	889 i	821 i	15 i	28 i	0	2	1 i	1 i	8	13
Computer systems design and related services	5415	1,449	1,050 i	239 i	48 i	2 i	55 i	29	*	1	26
Scientific research and development services	5417	2,596	1,513 i	89 i	54 i	458 i	17	38	6	9	412
Biotechnology research and development	541711	225	D	D	*	156	0	D	0	1	D
Physical, engineering, and life sciences (except biotechnology) research and development	541712	1,835	1,466 i	77 i	54 i	121 i	16	31	D	D	D
Social sciences and humanities research and development	541720	536	D	D	*	181 i	1	D	D	D	D
Other professional, scientific, and technical services	other 54	672	340 i	25 i	251 i	16 i	5	8	*	*	27
Health care services	621–23	198 i	1	0	1	196 i	0	0	0	0	0
Other nonmanufacturing	23, 44–45 (excluding 454111–12), 55–56, 624, 71–72, 81	542	468	67	8	* i	0	0	0	0	1
All companies (number of domestic employees)	–	30,621 i	25,018 i	1,350 i	2,002	751 i	103	81	7	27	1,283
Small companies ^a											
5–499	–	4,416 i	2,837 i	500 i	279 i	565 i	31	70	4	12	119
5–99	–	2,850 i	1,700 i	371	200 i	453 i	20	42	1	12	51
5–49	–	2,010 i	1,165 i	197 i	153 i	399 i	20	40	*	5	31

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5-9	-	548 i	174 i	26 i	83 i	243 i	12	3	0	1	6
10-24	-	662 i	428 i	69 i	45 i	93 i	7	8	0	2	10
25-49	-	800	562 i	101 i	26 i	63 i	1	29	*	2	16
50-99	-	840	536 i	174	47 i	54	*	2	*	6 i	20
100-249	-	1,137 i	821 i	105 i	69 i	71 i	8	28	3	*	31
250-499	-	430	316	24	10	41	2	0	0	*	36
Medium and large companies											
500-999	-	266	125 i	8	80	24 i	*	0	0	0	29
1,000-4,999	-	1,532	642	228 i	156 i	D	4	D	D	D	D
5,000-9,999	-	790	623 i	45	108 i	1 i	*	0	0	*	12
10,000-24,999	-	3,342	2,283 i	93	915	D	0	D	D	D	D
25,000 or more	-	20,275 i	18,507 i	476 i	465 i	D	67 i	D	*	D	745

* = 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.

DHS = Department of Homeland Security; DOD = Department of Defense; DOE = Department of Energy; DOT = Department of Transportation; EPA = Environmental Protection Agency; NAICS = 2007 North American Industry Classification System; NASA = National Aeronautics and Space Administration; NIH = National Institutes of Health; NSF = National Science Foundation.

^a 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.