

TABLE 45. Domestic R&D paid for by the U.S. federal government and performed by the company, by funding agency, industry, and company size: 2013  
(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	29,362	23,466 i	957	2,661 i	624	151	35	6	14	1,447
Manufacturing industries	31-33	22,958	18,944 i	585	2,254 i	90	48	D	*	3	D
Food	311	1 i	1 i	0	0	0	0	0	0	0	*
Beverage and tobacco products	312	* i	* i	0	0	0	0	0	0	0	0
Textile, apparel, and leather products	313-16	6 i	6 i	0	0	0	0	0	0	0	*
Wood products	321	1	* i	1	0	* i	0	0	0	0	1
Paper	322	0	0	0	0	0	0	0	0	0	0
Printing and related support activities	323	3 i	1 i	1 i	0	1 i	0	0	0	0	0
Petroleum and coal products	324	0	0	0	0	0	0	0	0	0	0
Chemicals	325	356	81	154 i	1	61	D	0	0	1	D
Basic chemicals	3251	163 i	18 i	142 i	0	1 i	0	0	0	1	1
Resin, synthetic rubber, and artificial synthetic fibers and filaments	3252	1	*	1	0	0	0	0	0	0	0
Pesticide, fertilizer, and other agricultural chemicals	3253	3	3	* i	0	* i	0	0	0	0	*
Pharmaceuticals and medicines	3254	167	48	3	1	59	D	0	0	0	D
Soap, cleaning compound, and toilet preparation	3256	4 i	3	1 i	* i	1 i	0	0	0	0	0
Paint, coating, adhesive, and other chemicals	3255, 3259	18	9	8	0	0	0	0	0	0	1
Plastics and rubber products	326	11 i	5 i	6 i	0	0	0	0	0	*	0
Nonmetallic mineral products	327	4 i	2	1	* i	1 i	0	0	0	0	0
Primary metals	331	11	10	1	*	0	0	0	0	0	*
Fabricated metal products	332	53 i	45 i	1 i	7 i	* i	0	0	0	0	0
Machinery	333	128	41	86	*	0	0	0	0	*	*
Agricultural implement	33311	* i	* i	* i	0	0	0	0	0	0	0
Semiconductor machinery	333295	18	15	3	0	0	0	0	0	0	0
Engine, turbine, and power transmission equipment	3336	27	16	11	0	0	0	0	0	0	*
Other machinery	other 333	83	10 i	73	*	0	0	0	0	*	0
Computer and electronic products	334	4,866	4,373	33	270 i	16	23	D	0	1	D
Communications equipment	3342	864 i	677 i	1 i	187 i	* i	0	0	0	0	0
Semiconductor and other electronic components	3344	60	33 i	21	1	0	0	0	0	0	5
Navigational, measuring, electromedical, and control instruments	3345	3,912	3,634	11	82	16	23	D	0	1	D
Electromedical, electrotherapeutic, and irradiation apparatus	334510, 334517	20	8	*	0	10	1	0	0	*	*
Search, detection, navigation, guidance, aeronautical, and nautical system and instrument	334511	3,812	3,570	2	75	0	22	D	0	0	D
Other measuring and controlling device	other 3345	80	55	9	7	6 i	*	0	0	1	3
Other computer and electronic products	other 334	29	29	0	* i	0	0	0	0	0	*
Electrical equipment, appliances, and components	335	129 i	77 i	49 i	2 i	0	0	0	0	0	0
Transportation equipment	336	17,312	14,266 i	D	1,961	D	D	D	0	0	D
Automobiles, bodies, trailers, and parts	3361, 3362, 3363	304 i	106 i	D	* i	0	D	3	0	0	D
Aerospace products and parts	3364	15,927	13,081 i	D	1,959	D	D	D	0	0	D
Aircraft, aircraft engine, and aircraft parts	336411-13	D	D	D	D	D	D	D	0	0	D
Guided missile, space vehicle, and related parts	336414-15, 336419	D	D	D	D	0	0	0	0	0	0

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Military armored vehicle, tank, and tank components	336992	2 i	2 i	0	0	0	0	0	0	0	0
Other transportation	other 336	1,079	1,077	* i	1 i	0	0	0	0	0	0
Furniture and related products	337	* i	* i	* i	* i	0	0	0	0	0	0
Miscellaneous manufacturing	339	76	37 i	D	13 i	D	*	0	*	0	D
Medical equipment and supplies	3391	52	12	D	13 i	D	*	0	*	0	D
Other miscellaneous manufacturing	3399	24 i	24 i	0	0	0	0	0	0	0	0
Nonmanufacturing industries	21-23, 42-81	6,404	4,522	372	407	535	103 i	D	6	11	D
Mining, extraction, and support activities	21	2	0	2	0	0	0	0	0	0	0
Utilities	22	45	0	43	0	3	0	0	0	0	0
Wholesale trade	42	0	0	0	0	0	0	0	0	0	0
Electronic shopping and electronic auctions	454111-12	0	0	0	0	0	0	0	0	0	0
Transportation and warehousing	48-49	D	D	0	D	0	0	0	0	0	0
Information	51	203	D	D	D	5	1	0	0	1	D
Publishing	511	173	147	22	0	D	1	0	0	0	D
Newspaper, periodical, book, and directory publishers	5111	* i	* i	* i	0	* i	0	0	0	0	0
Software publishers	5112	173	147	22	0	D	1	0	0	0	D
Telecommunications	517	1 i	1 i	* i	0	* i	0	0	0	0	0
Data processing, hosting, and related services	518	29	D	D	D	D	0	0	0	1	0
Other information	other 51	* i	* i	* i	0	* i	0	0	0	0	0
Finance and insurance	52	0	0	0	0	0	0	0	0	0	0
Real estate and rental and leasing	53	0	0	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	0	0	0	0	0	0	0	0	0	0
Professional, scientific, and technical services	54	6,033	4,304	277	D	526	103 i	D	6	11	D
Architectural, engineering, and related services	5413	1,372	1,213	130	22	0	*	D	D	*	D
Computer systems design and related services	5415	809 i	726 i	7	0	12	52 i	D	0	1	D
Scientific research and development services	5417	3,288	2,054	124	175	474	36	8	4	10	404
Biotechnology research and development	541711	157	D	13	0	112	*	0	0	D	D
Physical, engineering, and life sciences (except biotechnology) research and development	541712	2,454	2,001	104	175	91	32	D	3	7	D
Social sciences and humanities research and development	541720	677	D	8	*	271	3	D	1	D	D
Other professional, scientific, and technical services	other 54	565	311	17 i	D	41	15	D	D	*	D
Health care services	621-23	1 i	0	0	0	1 i	0	0	0	0	0
Other nonmanufacturing	23, 44-45 (excluding 454111-12), 55-56, 624, 71-72, 81	D	D	D	0	0	0	0	0	0	0
All companies (number of domestic employees)	-	29,362	23,466 i	957	2,661 i	624	151	35	6	14	1,447
Small companies <sup>a</sup>											
5-499	-	4,114	3,066 i	284	164 i	388	43	19	2	11	136
5-99	-	2,337 i	1,615 i	196 i	107 i	295	32	19	1	10	62
5-49	-	1,662 i	1,091 i	137 i	90 i	271	31	16	*	8	18

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5-9	-	576 i	356 i	26 i	26	144	14	0	0	4	5
10-24	-	615 i	436 i	47 i	33 i	73	1	12	*	3	10
25-49	-	471	299	64	31 i	54	17	4	*	1	3
50-99	-	675 i	524 i	59	17 i	24	1	3	*	2	44
100-249	-	1,161	971	56	33	55	11	*	*	1	33
250-499	-	615	480	32	24	37	*	0	1	0	41
Medium and large companies											
500-999	-	393	236 i	21	80	47	*	0	0	0	8
1,000-4,999	-	1,927	997	207 i	D	D	5	D	1	D	D
5,000-9,999	-	828	642	59	D	D	0	1	0	D	D
10,000-24,999	-	3,491	2,566	63	809	1	20	D	3	D	D
25,000 or more	-	18,609	15,959 i	323	1,374 i	4	82 i	7	0	1	860

\* = 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.

DOD = Department of Defense, DOE = Department of Energy, NASA = National Aeronautics and Space Administration, NIH = National Institutes of Health, DHS = Department of Homeland Security, DOT = Department of Transportation, EPA = Environmental Protection Agency, NSF = National Science Foundation.

NAICS = 2007 North American Industry Classification System.

<sup>a</sup> 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.