

TABLE 42

Domestic R&D paid for by the U.S. federal government and performed by the company, by funding agency, industry, and company size: 2015

(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	26,990	18,163	1,727	4,331	877	47	117	5	16	1,707
Manufacturing industries	31-33	21,552	15,414	810	4,067	210	23	7	*	1	1,019
Food	311	*	0	0	0	0	0	0	0	0	*
Beverages and tobacco products	312	* i	* i	0	* i	0	0	0	0	0	0
Textiles, apparel, and leather products	313-16	25	D	0	D	0	1	0	0	0	1
Wood products	321	* i	* i	* i	0	* i	0	0	0	0	0
Paper	322	* i	* i	* i	0	* i	0	0	0	0	0
Printing and related support activities	323	1 i	* i	* i	0	* i	0	0	0	0	0
Petroleum and coal products	324	D	* i	D	0	D	0	0	0	0	D
Chemicals	325	410	D	272	0	73	i	D	0	0	D
Basic chemicals	3251	D	D	252	0	D	0	0	0	0	D
Resins, synthetic rubber, and artificial synthetic fibers and filaments	3252	*	* i	*	0	0	0	0	0	0	0
Pesticides, fertilizers, and other agricultural chemicals	3253	D	D	D	0	D	0	0	0	0	0
Pharmaceuticals and medicines	3254	138	D	12	i	0	70	i	D	0	0
Soaps, cleaning compounds, and toilet preparations	3256	1	*	* i	0	* i	0	0	0	0	0
Paints, coatings, adhesives, and other chemicals	3255, 3259	D	D	D	0	0	0	0	0	0	0
Plastics and rubber products	326	1	*	1	0	* i	0	0	0	0	0
Nonmetallic mineral products	327	8	i	D	D	0	0	0	0	0	0
Primary metals	331	14	D	D	0	0	0	0	0	0	0
Fabricated metal products	332	10	i	6	D	D	* i	0	0	0	0
Machinery	333	222	87	122	i	*	0	D	1	0	0
Agricultural implements	33311	3	i	0	3	i	0	0	0	0	0
Semiconductor machinery	333242	71	i	0	71	i	0	0	0	0	0
Engines, turbines, and power transmission equipment	3336	33	D	28	0	0	0	0	0	0	D
Other machinery	other 333	114	D	19	i	*	0	D	1	0	0
Computer and electronic products	334	4,213	3,614	D	308	i	89	i	D	6	*
Communications equipment	3342	776	i	D	D	D	0	0	0	0	D
Semiconductors and other electronic components	3344	45	16	D	D	D	0	1	i	*	0
Navigational, measuring, electromedical, and control instruments	3345	3,365	3,028	31	156	D	D	5	0	*	D
Electromedical, electrotherapeutic, and irradiation apparatuses	334510, 334517	15	i	D	0	0	D	0	0	0	D
Search, detection, navigation, guidance, aeronautical, and nautical systems and instruments	334511	3,301	3,021	D	141	D	D	5	0	D	D
Other measuring and controlling devices	other 3345	49	i	D	D	16	i	D	0	*	0
Other computer and electronic products	other 334	28	i	D	D	D	D	0	0	0	0
Electrical equipment, appliances, and components	335	50	i	D	D	11	i	0	D	0	0
Transportation equipment	336	16,515	i	11,637	i	D	3,730	i	D	D	*
Automobiles, bodies, trailers, and parts	3361-63	200	i	6	D	4	i	0	D	*	0

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Aerospace products and parts	3364	15,064 i	D	D	D	D	D	0	0	0	D
Aircraft, aircraft engines, and aircraft parts	336411-13	13,830 i	9,609 i	10	D	D	D	0	0	0	D
Guided missiles, space vehicles, and related parts	336414-15, 336419	1,235 i	D	D	D	0	0	0	0	0	0
Military armored vehicles, tanks, and tank components	336992	2	2	0	* i	0	0	0	0	0	0
Other transportation	other 336	1,249	D	1 i	D	* i	0	0	0	0	0
Furniture and related products	337	7 i	* i	D	D	0	0	0	0	0	0
Miscellaneous	339	D	D	D	0	D	*	0	*	D	5
Medical equipment and supplies	3391	37	D	D	0	15 i	*	0	*	D	5
Other miscellaneous manufacturing	3399	D	D	0	0	D	0	0	0	*	*
Nonmanufacturing industries	21-23, 42-81	5,438	2,748	918 i	264	667	24	110	5	15	688
Mining, extraction, and support activities	21	1 i	0	1 i	0	0	0	0	0	0	0
Utilities	22	31	0	31	0	0	0	0	0	0	0
Wholesale trade	42	3	3	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	0	0	0	0	0	0	0	0	0	0
Information	51	51	19	13	1 i	17 i	*	*	0	1	*
Publishing	511	22	6	5	0	11	*	0	0	0	*
Newspaper, periodical, book, and directory publishers	5111	* i	0	* i	0	* i	0	0	0	0	0
Software publishers	5112	22	6	5	0	11	*	0	0	0	*
Telecommunications	517	5 i	3	* i	1	1 i	0	0	0	0	*
Data processing, hosting, and related services	518	24	10	7	* i	6 i	0	*	0	1	0
Other information	other 51	0	0	0	0	0	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	5,323	2,718	863 i	261	642	24	110	4	14	687
Architectural, engineering, and related services	5413	1,550	810	616 i	2 i	0	*	100	2	*	19
Computer systems design and related services	5415	605 i	330	103 i	3 i	133 i	8	1	0	*	27
Scientific research and development services	5417	2,939	1,509	125 i	168 i	465	15	9	2	13	633
Biotechnology research and development	541711	264	139	6	0	56	0	0	0	0	63
Physical, engineering, and life sciences (except biotechnology) research and development	541712	2,043	1,345	119 i	168 i	235 i	14	2	1	11	147
Social sciences and humanities research and development	541720	632	25	*	*	173	1	6	1	2	422
Other professional, scientific, and technical services	other 54	229	70	19	87	44	*	*	0	1	9
Health care services	621-23	4 i	0	0	0	4 i	0	0	*	i	*

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Other nonmanufacturing	23, 44–45 (excluding 454111–12), 55–56, 624, 71–72, 81	25	8	10	2	5	0	0	1	i 0	*
All companies (number of domestic employees)		– 26,990	18,163	1,727	i 4,331	i 877	i 47	117	5	16	1,707
Micro companies ^a											
5–9		– 412	i 83	168	i 40	i 115	i *	0	0	4	1
Small companies											
10–19		– 317	i 92	126	i 27	i 52	i *	0	*	i 3	17
20–49		– 1,024	444	155	i 64	i 163	i 2	100	*	D	D
Medium companies											
50–99		– 532	234	124	i 28	i 120	i 1	2	*	4	18
100–249		– 1,006	617	218	i 38	86	12	*	1	*	34
Large companies											
250–499		– 723	230	i 264	83	46	1	D	*	0	D
500–999		– 183	98	6	i D	49	*	0	0	0	D
1,000–4,999		– 1,644	i 1,053	i 229	i 61	90	i 4	D	1	i 2	D
5,000–9,999		– 891	402	34	D	146	11	6	1	0	D
10,000–24,999		– 4,244	3,250	108	814	i *	0	D	1	*	D
25,000 or more		– 16,013	i 11,660	295	i 3,111	i 9	16	D	0	D	D

* = 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, NAICS = 2012 North American Industry Classification System, NSF = National Science Foundation.

^a Business R&D and Innovation Survey does not include companies with fewer than five domestic employees.

Note(s)

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(s)

National Science Foundation, National Center for Science and Engineering Statistics, and U.S. Census Bureau, Business R&D and Innovation Survey, 2015.