

TABLE 43

Domestic R&D paid for by sources located outside the United States and performed by the company, by source of funds, industry, and company size: 2015

(Millions of U.S. dollars)

Industry and company size	NAICS code	Total	Foreign companies			Foreign governments	All other
			Subsidiaries	Company's parent	Unaffiliated companies		
All industries	21-23, 31-33, 42-81	23,729	6,785	12,579	3,738	572	54 i
Manufacturing industries	31-33	18,219	4,708	10,394	2,513	D	D
Food	311	187	11	173	3 i	0	0
Beverages and tobacco products	312	D	D	D	D	0	0
Textiles, apparel, and leather products	313-16	4	1	3	* i	0	0
Wood products	321	6	0	4	2 i	D	D
Paper	322	2 i	*	* i	1 i	* i	* i
Printing and related support activities	323	4 i	0	* i	4 i	D	D
Petroleum and coal products	324	*	0	0	*	0	0
Chemicals	325	D	1,850	5,473	1,940	D	D
Basic chemicals	3251	D	23	D	D	0	0
Resins, synthetic rubber, and artificial synthetic fibers and filaments	3252	D	45	2 i	D	0	0
Pesticides, fertilizers, and other agricultural chemicals	3253	D	0	D	D	0	0
Pharmaceuticals and medicines	3254	D	1,768	4,884	1,888	D	D
Soaps, cleaning compounds, and toilet preparations	3256	125	12	D	D	D	D
Paints, coatings, adhesives, and other chemicals	3255, 3259	D	2	D	* i	0	* i
Plastics and rubber products	326	12 i	2	6 i	4 i	0	0
Nonmetallic mineral products	327	12	4	9	0	0	0
Primary metals	331	D	1	6 i	* i	D	0
Fabricated metal products	332	47	38	7	* i	D	D
Machinery	333	450 i	11	417 i	21 i	* i	* i
Agricultural implements	33311	10	3	6	* i	0	* i
Semiconductor machinery	333242	226 i	2	217 i	7 i	0	0
Engines, turbines, and power transmission equipment	3336	81	0	81	*	0	0
Other machinery	other 333	133	6	113	14	* i	* i
Computer and electronic products	334	D	2,364	2,153	306	D	D
Communications equipment	3342	D	6	D	1	D	0
Semiconductors and other electronic components	3344	D	1,377	1,246	169	D	D
Navigational, measuring, electromedical, and control instruments	3345	D	117	430	115	D	0
Electromedical, electrotherapeutic, and irradiation apparatuses	334510, 334517	211	56	142	13 i	0	0
Search, detection, navigation, guidance, aeronautical, and nautical systems and instruments	334511	D	45	D	91	D	0
Other measuring and controlling devices	other 3345	D	16	D	10	0	0
Other computer and electronic products	other 334	D	865	D	21	D	0
Electrical equipment, appliances, and components	335	486 i	73	349 i	47 i	0	17 i
Transportation equipment	336	D	217	1,523	167	D	0
Automobiles, bodies, trailers, and parts	3361-63	D	80	1,480	122 i	D	0

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Aerospace products and parts	3364	D	D	31 i	45	D	0
Aircraft, aircraft engines, and aircraft parts	336411-13	D	D	D	D	D	0
Guided missiles, space vehicles, and related parts	336414-15, 336419	D	0	D	D	2	0
Military armored vehicles, tanks, and tank components	336992	D	0	D	*	0	0
Other transportation	other 336	D	D	D	* i	D	0
Furniture and related products	337	1 i	0	D	* i	D	0
Miscellaneous	339	D	D	D	D	0	0
Medical equipment and supplies	3391	204	107	86	11	0	0
Other miscellaneous manufacturing	3399	D	D	D	D	0	0
Nonmanufacturing industries	21-23, 42-81	5,510	2,078	2,185	1,226 i	D	D
Mining, extraction, and support activities	21	D	414	D	D	0	D
Utilities	22	D	0	2	0	0	D
Wholesale trade	42	43 i	13	30 i	0	0	0
Electronic shopping and electronic auctions	454111-12	0	0	0	0	0	0
Transportation and warehousing	48-49	0	0	0	0	0	0
Information	51	D	1,294	758	D	0	0
Publishing	511	D	911	639	D	0	0
Newspaper, periodical, book, and directory publishers	5111	* i	0	0	* i	0	0
Software publishers	5112	D	911	639	D	0	0
Telecommunications	517	64 i	0	62 i	2 i	0	0
Data processing, hosting, and related services	518	D	D	41	1	0	0
Other information	other 51	D	D	16	0	0	0
Finance and insurance	52	49	49	0	0	0	0
Real estate and rental and leasing	53	0	0	0	0	0	0
Lessors of nonfinancial intangible assets (except copyrighted works)	533	0	0	0	0	0	0
Other real estate and rental and leasing	other 53	0	0	0	0	0	0
Professional, scientific, and technical services	54	D	305	1,223 i	825 i	D	D
Architectural, engineering, and related services	5413	D	6	76 i	1 i	*	D
Computer systems design and related services	5415	140	14	116	11 i	0	0
Scientific research and development services	5417	1,928 i	225	891 i	793 i	D	D
Biotechnology research and development	541711	929 i	30	387 i	499 i	13 i	0
Physical, engineering, and life sciences (except biotechnology) research and development	541712	999	195	504	294 i	D	D
Social sciences and humanities research and development	541720	0	0	0	0	0	0
Other professional, scientific, and technical services	other 54	220	60	140	20	*	0
Health care services	621-23	8	0	D	D	0	0

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			Subsidiaries	Company's parent	Unaffiliated companies		
Other nonmanufacturing	23, 44-45 (excluding 454111-12), 55-56, 624, 71-72, 81	D	3	D	0	0	0
All companies (number of domestic employees)		- 23,729	6,785	12,579	3,738	572	54 i
Micro companies ^a							
5-9		- 174	6	148	18	i 3	* i
Small companies							
10-19		- D	158	364	i 81	i D	1 i
20-49		- D	36	417	i 60	i D	D
Medium companies							
50-99		- 1,015	158	658	197	i *	i 1 i
100-249		- 970	212	648	92	D	D
Large companies							
250-499		- 1,220	280	655	279	*	i 6
500-999		- 1,826	638	969	i 206	i 11	i 2 i
1,000-4,999		- 7,866	1,708	4,952	1,200	*	6 i
5,000-9,999		- 4,099	2,048	1,760	290	0	1
10,000-24,999		- D	642	1,747	1,189	D	D
25,000 or more		- 1,707	899	261	127	420	1

* = 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 = 2012 North American Industry Classification System.

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

Note(s)

Detail may not add to total because of rounding. 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. In all other tables, R&D costs of foreign-company subsidiaries of U.S. companies are included in company-funded U.S. domestic R&D totals. Only in this table are such R&D costs classified as being part of R&D paid for by sources located outside of the United States.

Source(s)

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