

TABLE 35

## Domestic R&amp;D paid for by others 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	Companies in United States		Companies outside United States			U.S. federal government agencies	U.S. state government agencies	Foreign government agencies	All other						
					Company's parent	Unaffiliated companies	In United States				Outside United States						
All industries	21-23, 31-33, 42-81	59,144	14,595	i	12,579	3,738		26,990		127	572	489	54	i			
Manufacturing industries	31-33	40,340	5,008		10,394	2,513		21,552	i	26	D	242	D				
Food	311	194	10	i	173	3	i	*		D	0	D	0				
Beverages and tobacco products	312	117	D		D	D		* i	0	0	0	0	0				
Textiles, apparel, and leather products	313-16	32	4		3	*	i	25		0	0	* i	0				
Wood products	321	8	i	1	i	4	2	i	* i	*	D	* i	D				
Paper	322	3	i	1	i	*	1	i	* i	0	*	i	*	i			
Printing and related support activities	323	7	i	2	i	*	4	i	1	i	0	* i	D				
Petroleum and coal products	324	14	D		0	*		D		0	0	0	0				
Chemicals	325	9,427	1,546		5,473	1,940		410		1	i	D	D				
Basic chemicals	3251	467	D		D	D		D		0	0	D	0				
Resins, synthetic rubber, and artificial synthetic fibers and filaments	3252	29	i	D	2	i	D	*		0	0	0	0				
Pesticides, fertilizers, and other agricultural chemicals	3253	D	0		D	D		D		0	0	D	0				
Pharmaceuticals and medicines	3254	8,432	1,465		4,884	1,888		138		1	i	D	D				
Soaps, cleaning compounds, and toilet preparations	3256	115	1	i	D	D		1		0	D	* i	D				
Paints, coatings, adhesives, and other chemicals	3255, 3259	D	D		D	*	i	D		0	0	*	*	i			
Plastics and rubber products	326	152	i	139	i	6	i	4	i	1		0	0				
Nonmetallic mineral products	327	20	1		9	0		8	i	2		*	0				
Primary metals	331	49	28		6	i	*	i	14		*	i	D	0			
Fabricated metal products	332	223	i	188	i	7	*	i	10	i	*	i	D	15	i		
Machinery	333	881	i	203	i	417	i	21	i	222		1	i	*	i		
Agricultural implements	33311	15	i	4	i	6	*	i	3	i	*	i	0	1	i		
Semiconductor machinery	333242	297	i	1	i	217	i	7	i	71	i	*	i	0	1	i	
Engines, turbines, and power transmission equipment	3336	154	39		81	*		33		*		0	0	0	0		
Other machinery	other 333	416	158	i	113	14		114		1	i	*	i	16	*	i	
Computer and electronic products	334	8,345	1,474		2,153	306		4,213		D		D	D	D			
Communications equipment	3342	1,426	i	D	D	1		776	i	0		D	D	0			
Semiconductors and other electronic components	3344	1,855	393		1,246	169		45		D		D	*	D			
Navigational, measuring, electromedical, and control instruments	3345	4,910	808		430	115		3,365		D		D	D	0			
Electromedical, electrotherapeutic, and irradiation apparatuses	334510, 334517	233	30	i	142	13	i	15	i	0		0	33	i	0		
Search, detection, navigation, guidance, aeronautical, and nautical systems and instruments	334511	4,480	D		D	91		3,301		D		D	D	0			
Other measuring and controlling devices	other 3345	197	D		D	10		49	i	*	i	0	2	i	0		
Other computer and electronic products	other 334	154	D		D	21		28	i	0		D	D	0			
Electrical equipment, appliances, and components	335	483	i	16	i	349	i	47	i	50	i	1	0	4	i	17	i

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Transportation equipment	336	20,050	i	1,304	i	1,523		167		16,515	i	15		D	D	0	
Automobiles, bodies, trailers, and parts	3361-63	2,441		547	i	1,480		122	i	200	i	D		D	D	0	
Aerospace products and parts	3364	16,326	i	738	i	31	i	45		15,064	i	D		D	D	0	
Aircraft, aircraft engines, and aircraft parts	336411-13	15,063	i	D		D		D		13,830	i	D		D	D	0	
Guided missiles, space vehicles, and related parts	336414-15, 336419	1,263	i	D		D		D		1,235	i	*	i	2	*	i	0
Military armored vehicles, tanks, and tank components	336992	12		5		D		*		2		*	i	0	D	0	
Other transportation	other 336	1,271		14		D		*	i	1,249		D		D	D	0	
Furniture and related products	337	9	i	1	i	D		*	i	7	i	*	i	D	*	i	0
Miscellaneous	339	326	i	D		D		D		D		D		0	1	0	
Medical equipment and supplies	3391	171		33		86		11		37		3	i	0	1	0	
Other miscellaneous manufacturing	3399	155	i	D		D		D		D		D		0	0	0	
Nonmanufacturing industries	21-23, 42-81	18,804		9,587	i	2,185		1,226	i	5,438		100		D	247	D	
Mining, extraction, and support activities	21	619		D		D		D		1	i	0		0	D	D	
Utilities	22	34		0		2		0		31		*		0	D	D	
Wholesale trade	42	84	i	49	i	30	i	0		3		3	i	0	0	0	
Electronic shopping and electronic auctions	454111-12	16	i	16		0		0		0		0		0	0	0	
Transportation and warehousing	48-49	*	i	*		0		0		0		0		0	0	0	
Information	51	935		D		758		D		51		2		0	6	i	0
Publishing	511	747		D		639		D		22		*	i	0	0	0	
Newspaper, periodical, book, and directory publishers	5111	*	i	*	i	0		*	i	*	i	0		0	0	0	
Software publishers	5112	747		D		639		D		22		*	i	0	0	0	
Telecommunications	517	70	i	1	i	62	i	2	i	5	i	*	i	0	*	i	0
Data processing, hosting, and related services	518	102		29		41		1		24		2		0	6	i	0
Other information	other 51	16		0		16		0		0		0		0	0	0	
Finance and insurance	52	38		6	i	0		0		0		0		0	32	0	
Real estate and rental and leasing	53	1	i	*	i	0		0		0		0		0	*	i	0
Lessors of nonfinancial intangible assets (except copyrighted works)	533	0		0		0		0		0		0		0	0	0	
Other real estate and rental and leasing	other 53	1	i	*	i	0		0		0		0		0	*	i	0
Professional, scientific, and technical services	54	16,710		9,074	i	1,223	i	825	i	5,323		83		D	D	D	
Architectural, engineering, and related services	5413	1,881		203		76	i	1	i	1,550		16		*	D	D	
Computer systems design and related services	5415	1,915	i	1,112	i	116		11	i	605	i	31		0	41	i	0
Scientific research and development services	5417	12,433		7,669	i	891	i	793	i	2,939		35		D	87	D	
Biotechnology research and development	541711	4,157	i	2,962		387	i	499	i	264		3		13	i	28	0
Physical, engineering, and life sciences (except biotechnology) research and development	541712	7,583		4,688	i	504		294	i	2,043		14		D	34	D	

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Social sciences and humanities research and development	541720	693	19	0	0	632	18	0	25	0
Other professional, scientific, and technical services	other 54	481	90	140	20	229	1	*	1	0
Health care services	621-23	298	256	D	D	4	0	0	30	0
Other nonmanufacturing	23, 44-45 (excluding 454111-12), 55-56, 624, 71-72, 81	69	D	D	0	25	12	0	1	0
All companies (number of domestic employees)	-	59,144	14,595	12,579	3,738	26,990	127	572	489	54
Micro companies <sup>a</sup>										
5-9	-	1,016	396	148	18	412	6	3	34	*
Small companies										
10-19	-	1,246	452	364	81	317	12	D	D	1
20-49	-	2,316	767	417	60	1,024	20	D	D	D
Medium companies										
50-99	-	2,706	1,279	658	197	532	5	*	34	1
100-249	-	2,566	723	648	92	1,006	10	D	68	D
Large companies										
250-499	-	2,185	449	655	279	723	20	*	52	6
500-999	-	2,023	634	969	206	183	2	11	16	2
1,000-4,999	-	9,830	1,942	4,952	1,200	1,644	19	*	67	6
5,000-9,999	-	4,178	1,143	1,760	290	891	10	0	82	1
10,000-24,999	-	10,878	3,519	1,747	1,189	4,244	13	D	D	D
25,000 or more	-	20,201	3,290	261	127	16,013	10	420	80	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.

<sup>a</sup> 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.

**Source(s)**

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