

TABLE 44

Domestic R&D paid for by the company and performed by others, by type of performer, 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		Undistributed ^a				
				Company's parent	Other				In United States	Outside United States					
All industries	21-23, 31-33, 42-81	38,683	32,121		414	3,829	156	10	*	479	158	1,516	i		
Manufacturing industries	31-33	34,576	29,372		394	3,450	108	7	*	i	272	128	844	i	
Food	311	147	94		1	15	*	*	*		16	8	14	i	
Beverages and tobacco products	312	217	207	i	0	3	0	*	0		3	*	4	i	
Textiles, apparel, and leather products	313-16	24	5		1	16	0	0	0		0	0	1	i	
Wood products	321	10	6		0	0	D	0	0		1	0	D		
Paper	322	13	3	i	7	1	0	0	0		1	0	1	i	
Printing and related support activities	323	6	3		0	*	0	0	0		0	0	2	i	
Petroleum and coal products	324	32	19		0	1	0	0	*		6	1	4	i	
Chemicals	325	26,962	23,390		4	2,889	16	i	5	*	i	135	99	424	i
Basic chemicals	3251	156	98		D	D	0	0	0		39	2	D		
Resins, synthetic rubber, and artificial synthetic fibers and filaments	3252	61	D		0	*	*	D	0		D	0	D		
Pesticides, fertilizers, and other agricultural chemicals	3253	D	77		0	D	*	D	0		D	D	D		
Pharmaceuticals and medicines	3254	26,473	23,045		D	2,844	16	i	4	*	i	75	93	D	
Soaps, cleaning compounds, and toilet preparations	3256	130	103		0	19	0	0	0		D	0	D		
Paints, coatings, adhesives, and other chemicals	3255, 3259	D	D		0	D	0	*	0		D	D	D		
Plastics and rubber products	326	47	36		*	*	0	0	0		1	0	9	i	
Nonmetallic mineral products	327	142	29		98	*	0	*	0		1	1	13	i	
Primary metals	331	62	5		*	i	*	i	0	*	49	i	0	8	i
Fabricated metal products	332	45	31		*	*	0	0	0		0	0	14	i	
Machinery	333	477	372		10	25	1	0	0		8	11	50	i	
Agricultural implements	33311	169	150		*	1	0	0	0		*	11	7	i	
Semiconductor machinery	333242	7	3		0	0	0	0	0		2	0	2	i	
Engines, turbines, and power transmission equipment	3336	23	20		*	*	*	i	0	0	3	0	*	i	
Other machinery	other 333	278	199		10	24	1	0	0		2	*	41	i	
Computer and electronic products	334	1,666	1,225		8	366	D	*	i	0	14	i	1	D	
Communications equipment	3342	858	552		1	i	288	*	i	*	0	0	17	i	
Semiconductors and other electronic components	3344	351	291		7	40	0	0	0		1	*	11	i	
Navigational, measuring, electromedical, and control instruments	3345	292	238		0	23	D	*	0		11	i	1	D	
Electromedical, electrotherapeutic, and irradiation apparatuses	334510, 334517	52	40		0	7	i	0	0		2	0	2	i	
Search, detection, navigation, guidance, aeronautical, and nautical systems and instruments	334511	119	107		0	11	0	*	0		*	1	*	i	
Other measuring and controlling devices	other 3345	121	91	i	0	5	D	0	0		8	i	0	D	
Other computer and electronic products	other 334	165	143		*	i	15	*	i	*	2	*	4	i	
Electrical equipment, appliances, and components	335	177	140		2	18	i	D	D	0	1	0	D		

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Transportation equipment	336	3,810	3,213	249	88	D	D	0	16	2	D
Automobiles, bodies, trailers, and parts	3361-63	2,331	1,882	247	59	2	D	0	D	2	D
Aerospace products and parts	3364	1,437	1,298	3	25	D	* i	0	D	*	D
Aircraft, aircraft engines, and aircraft parts	336411-13	1,329	1,194	2	21	D	* i	0	D	*	D
Guided missiles, space vehicles, and related parts	336414-15, 336419	108	103	1	4	D	* i	0	*	0	D
Military armored vehicles, tanks, and tank components	336992	* i	*	0	0	0	0	0	0	0	* i
Other transportation	other 336	41	34	* i	3	D	* i	0	D	*	D
Furniture and related products	337	33	21	* i	1	D	0	0	* i	* i	D
Miscellaneous manufacturing	339	707	572	12	27	D	D	0	20	5	D
Medical equipment and supplies	3391	609	493	10	26	D	*	0	20	5	D
Other miscellaneous manufacturing	3399	99	79	1	*	* i	D	0	* i	* i	D
Nonmanufacturing industries	21-23, 42-81	4,107	2,749	20	379	48	3	*	207	30	672 i
Mining, extraction, and support activities	21	361	231	D	28	D	0	*	71	6	D
Utilities	22	261	201	0	4	*	1 i	0	43	0	13 i
Wholesale trade	42	73 i	9	0	0	0	0	0	*	0	64 i
Electronic shopping and electronic auctions	454111-12	* i	0	0	0	0	0	0	*	0	* i
Transportation and warehousing	48-49	16	15	0	0	0	0	0	1	0	* i
Information	51	1,783	1,442	D	206	D	*	*	10	D	D
Publishing	511	1,205	971	* i	158	D	0	0	9	D	D
Newspaper, periodical, book, and directory publishers	5111	9 i	7	0	0	0	0	0	0	0	2 i
Software publishers	5112	1,196	964	* i	158	D	0	0	9	D	D
Telecommunications	517	176	112	0	42	* i	0	0	1	* i	21 i
Data processing, hosting, and related services	518	209	180	D	4	* i	* i	*	*	D	D
Other information	other 51	193	179	0	3	0	0	0	0	0	11 i
Finance and insurance	52	85	47	18	0	15	0	0	0	0	4 i
Real estate and rental and leasing	53	7	4	0	3	0	0	0	0	0	* i
Lessors of nonfinancial intangible assets (except copyrighted works)	533	3	*	0	3	0	0	0	0	0	* i
Other real estate and rental and leasing	other 53	4	4	0	0	0	0	0	0	0	* i
Professional, scientific, and technical services	54	1,388	744	D	132	14	2	0	74	D	D
Architectural, engineering, and related services	5413	108 i	40	0	*	0	2	0	0	0	67 i
Computer systems design and related services	5415	87	54	D	16	0	0	0	3	0	D
Scientific research and development services	5417	1,156	624	D	108	14	1	0	72	D	D
Biotechnology research and development	541711	593	383	D	28	4	*	0	8	D	D
Physical, engineering, and life sciences (except biotechnology) research and development	541712	559	239	0	80	9	1	0	63	1	166 i

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Social sciences and humanities research and development	541720	4 i	2	0	* i	* i	* i	0	0	0	1 i
Other professional, scientific, and technical services	other 54	37	27	0	7	0	0	0	0	0	4 i
Health care services	621-23	25 i	17	0	4	0	0	0	0	0	4 i
Other nonmanufacturing	23, 44-45 (excluding 454111-12), 55-56, 624, 71-72, 81	108 i	39	D	3	0	0	0	7	0	D
All companies (number of domestic employees)	-	38,683	32,121	414	3,829	156	10	*	479	158	1,516 i
Micro companies ^b											
5-9	-	403 i	203	*	i 51	1 i	* i	0	1	*	147 i
Small companies											
10-19	-	872	583	D	31	3	D	0	16	*	D
20-49	-	1,458	987	D	84	4	D	D	71	6	D
Medium companies											
50-99	-	1,551	1,219	D	155	1 i	D	* i	4	26	D
100-249	-	1,735	1,390	10	179	10	2	0	11	* i	133 i
Large companies											
250-499	-	1,156	835	19	133	*	D	D	4	D	D
500-999	-	869	616	47	72 i	*	1 i	*	10	26	98 i
1,000-4,999	-	5,594	5,234	150	85	*	D	D	48	6	D
5,000-9,999	-	4,501	4,171	D	61	12 i	D	*	44	4	D
10,000-24,999	-	11,113	9,534	7	1,316	2	3	0	175	67	9 i
25,000 or more	-	9,430	7,349	D	1,662	122	D	D	95	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.

NAICS = 2012 North American Industry Classification System.

^a Detailed data were not collected on the BRDI-1(S) questionnaire.

^b 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.