

TABLE 39

Companies with domestic R&D paid for by others and performed by the company in health or medical, defense, and agricultural application areas, by industry and company size: 2016

(Millions of U.S. dollars)

Industry and company size	NAICS code	Domestic R&D		Health or medical		Defense		Agriculture		
		Companies ^a (number)	Amount	Companies ^b (number)	Amount	Companies ^b (number)	Amount	Companies ^b (number)	Amount	
All industries	21-23, 31-33, 42-81	4,790	56,954	1,526	i 17,989	i 1,316	i 17,680	376	i 686	
Manufacturing industries	31-33	2,545	38,893	681	i 8,799	398	i 13,943	271	i 625	
Food	311	123	217	18	i 22	0	0	50	i 36	
Chemicals	325	657	9,410	280	8,342	69	i 158	i 157	i 509	
Basic chemicals	3251	101	261	3	1	32	i 10	i D	D	
Pharmaceuticals and medicines	3254	363	8,644	268	8,340	16	133	i 119	i 300	i
Other chemicals	other 325	193	505	9	i 1	21	i 14	D	D	
Plastics and rubber products	326	97	169	25	i 27	i 10	i 12	i 10	i 8	i
Nonmetallic mineral products	327	84	14	D	1	4	4	0	0	
Fabricated metal products	332	269	112	i 6	2	4	8	4	*	
Machinery	333	239	886	4	2	8	98	8	15	
Agricultural implements	33311	12	12	0	0	0	0	5	12	
Semiconductor machinery	333242	10	383	0	0	D	2	i 0	0	
Engines, turbines, and power transmission equipment	3336	8	58	i 0	0	D	5	D	*	
Other machinery	other 333	209	432	4	2	4	91	D	3	
Computer and electronic products	334	540	8,869	176	i 164	218	i 2,785	27	i 39	
Semiconductors and other electronic components	3344	185	2,215	106	i 56	103	i 301	4	13	
Other electronic products	other 334	355	6,654	70	i 108	115	i 2,484	23	i 25	
Electrical equipment, appliances, and components	335	66	469	i 26	i 19	i 22	i 70	i 6	i 14	i
Transportation equipment	336	189	18,371	7	51	34	10,782	5	4	
Automobiles, bodies, trailers, and parts	3361-63	116	2,749	3	7	D	D	D	4	
Other transportation	other 336	73	15,622	4	45	D	D	D	*	
Miscellaneous manufacturing	339	D	D	134	i 167	23	i 21	i D	*	
Other manufacturing	312-16, 321-24, 331, 337	D	D	D	1	i 6	6	D	*	
Nonmanufacturing industries	21-23, 42-81	2,246	18,061	845	i 9,191	i 918	i 3,737	i 105	i 61	
Mining, extraction, and support activities	21	11	400	0	0	0	0	D	*	i
Utilities	22	6	26	0	0	0	0	0	0	
Wholesale trade	42	30	10	i D	3	0	0	D	2	
Information	51	103	674	7	3	D	14	D	1	
Publishing	511	61	400	D	2	3	4	0	0	
Telecommunications	517	D	D	D	*	D	*	D	*	
Data processing, hosting, and related services	518	32	138	D	1	D	9	D	*	
Other information	other 51	D	D	D	*	D	1	0	0	

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		Companies ^a (number)	Amount	Companies ^b (number)	Amount	Companies ^b (number)	Amount	Companies ^b (number)	Amount						
Professional, scientific, and technical services	54	2,017	16,750	817	i	9,135	i	910	i	3,720	i	100	i	58	
Architectural, engineering, and related services	5413	464	1,596	50	i	31	i	142	i	394	i	D		*	
Scientific research and development services	5417	982	12,031	660	i	8,835	i	441	i	2,535		96	i	57	
Biotechnology research and development	541711	205	3,714	180	i	3,317	i	30	i	61	i	6		6	
Other scientific research and development	other 5417	777	8,317	480	i	5,518	i	410	i	2,474		90	i	52	
Other professional, scientific, and technical services	other 54	571	3,124	i	108	i	270	i	328	i	791	i	D	*	
Health care services	621-23	63	66		D		47		0		0		0	0	
Other nonmanufacturing	23, 44-45, 48-49, 52-53, 55-56, 624, 71-72, 81	15	135		D		2		D		3		0	0	
All companies (number of domestic employees)	-	4,790	56,954		1,526	i	17,989	i	1,316	i	17,680		376	i	686
Micro companies ^c															
5-9	-	964	536	i	371	i	263	i	306	i	163	i	D	D	
Small companies															
10-19	-	1,085	1,071	i	368	i	419	i	347	i	340	i	93	i	23
20-49	-	1,239	2,189		395		628		337	i	830		72	i	30
Medium companies															
50-99	-	439	1,570		121		588		102	i	394		81		95
100-249	-	505	3,153		110		943		86	i	987	i	44	i	44
Large companies															
250-499	-	184	1,654		53	i	517	i	48	i	355		13		14
500-999	-	100	924		27		278		23		203		5	i	6
1,000-4,999	-	144	10,666		46		6,110		34		631		20		289
5,000-9,999	-	42	4,746		12		2,001		9		843	i	9		89
10,000-24,999	-	54	12,210		12		4,737	i	14		2,032		4		71
25,000 or more	-	34	18,232		12		1,506	i	10		10,901		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 Statistics for the number of companies are based only on companies in the United States that reported to the survey. These statistics do not include an adjustment to the weight to account for unit nonresponse. A company having multiple reporting parts for data collection may contribute to the statistics for multiple industries, so the detail may not add to the total for the number of companies.

^b Statistics for the number of companies are based only on companies in the United States that reported to the survey. These statistics do not include an adjustment to the weight to account for unit nonresponse. These company count estimates reflect a new imputation process implemented for survey year 2014. This change has affected the comparability of these company count estimates with estimates published for years prior to 2014. A company having multiple reporting parts for data collection may contribute to the statistics for multiple industries, so the detail may not add to the total for the number of companies.

^c 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. Some R&D may be reported in more than one application area. Some R&D is not classified in any application area.

Source(s)

National Science Foundation, National Center for Science and Engineering Statistics, and U.S. Census Bureau, Business R&D and Innovation Survey, 2016.