

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: 2017

(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	3,180	61,065	947	22,171	914	20,054	i	210	516			
Manufacturing industries	31-33	1,603	41,072	448	10,955	244	i	15,518	i	78	399		
Food	311	35	244	3	55	0		0	5	49			
Chemicals	325	357	11,692	244	10,252	i	23	80	8	i	286		
Basic chemicals	3251	37	181	D	2	D		3	D		0 - 181		
Pharmaceuticals and medicines	3254	277	10,973	237	10,249	i	17	69	D		50	i	
Other chemicals	other 325	43	538	D	1	i	D	8	i	D	54 - 237		
Plastics and rubber products	326	60	117	15	i	25	11	i	1	i	D	*	
Nonmetallic mineral products	327	33	30	i	D	1	i	3	4	0	0		
Fabricated metal products	332	135	107	5	i	1	7	31	D	0 - 19			
Machinery	333	224	940	7	6	i	10	141	D	0 - 19			
Agricultural implement	33311	7	59	i	0	0	0	0	D	0 - 19			
Semiconductor machinery	333242	12	465	D	1	0	0	0	0	0			
Engine, turbine, and power transmission equipment	3336	32	159	0	0	4	138	D	*	i			
Other machinery	other 333	173	257	D	5	i	6	3	i	D	*	i	
Computer and electronic products	334	313	8,633	53	i	274	97	i	2,301	11	41		
Semiconductor and other electronic components	3344	121	2,289	24	i	144	26	i	108	4	12		
Other electronic products	other 334	192	6,344	30	130	71	i	2,193	7	29			
Electrical equipment, appliances, and components	335	67	181	4	i	5	35	i	79	D	4		
Transportation equipment	336	161	18,663	i	6	28	35	12,856	i	3	i	3	i
Automobiles, bodies, trailers, and parts	3361-63	88	2,745	3	4	7	39	i	D	2	i		
Other transportation	other 336	73	15,918	i	3	24	28	12,817	i	D	1		
Miscellaneous manufacturing	339	156	285	105	i	227	20	i	22	i	D	*	i
Other manufacturing	312-16, 321-24, 331, 337	63	181	D	81	3	2	D	*	i			
Nonmanufacturing industries	21-23, 42-81	1,578	19,993	499	11,216	670	4,536	132	117				
Mining, extraction, and support activities	21	36	309	0	0	0	0	D	*	i			
Utilities	22	5	36	i	0	0	0	0	0	0			
Wholesale trade	42	65	31	D	2	0	0	0	0	0			
Information	51	170	1,354	5	10	D	76	D	4				
Publishing	511	97	1,062	D	5	17	36	D	4				
Telecommunications	517	D	40 - 163	0	0	D	1	i	0	0			
Data processing, hosting, and related services	518	62	119	D	5	3	38	0	0				

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		Companies ^a (number)	Amount	Companies ^b (number)	Amount	Companies ^b (number)	Amount	Companies ^b (number)	Amount
Other information	other 51	D	11 - 134	0	0	0	0	0	0
Professional, scientific, and technical services	54	1,154	17,951	461	11,113	646	4,460	D	113
Architectural, engineering, and related services	5413	273	1,147	29	57	143	656	64	57
Scientific research and development services	5417	617	14,504	379	10,709	325	2,719	35	54
Biotechnology research and development	541711	111	3,653	99	3,171	22	69	10	28
Other scientific research and development	other 5417	507	10,851	280	7,538	302	2,650	25	26
Other professional, scientific, and technical services	other 54	264	2,299	53	347	178	1,084	D	3
Health care services	621-23	86	144	29	87	0	0	0	0
Other nonmanufacturing	23, 44-45, 48-49, 52-53, 55-56, 624, 71-72, 81	61	169	D	4	D	1	0	0
All companies (number of domestic employees)	-	3,180	61,065	947	22,171	914	20,054	210	516
Small companies									
10-19 ^c	-	742	909	203	302	244	366	46	22
20-49	-	935	1,842	337	917	282	499	57	28
Medium companies									
50-99	-	533	2,071	142	778	149	716	59	42
100-249	-	399	3,703	95	1,053	111	1,301	20	51
Large companies									
250-499	-	190	2,331	51	934	34	512	3	2
500-999	-	111	1,576	42	476	20	169	5	2
1,000-4,999	-	145	12,771	42	6,597	33	1,387	10	236
5,000-9,999	-	36	7,497	10	5,777	13	971	D	13
10,000-24,999	-	53	10,070	13	3,746	15	2,091	D	78
25,000 or more	-	36	18,295	11	1,590	13	12,042	3	42

* = 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 Research and Development Survey does not include companies with fewer than 10 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. Companies could report R&D in one, more than one, or no application area. An estimate range may be displayed in place of a single estimate to avoid disclosing operations of individual companies.

Source(s)

National Center for Science and Engineering Statistics and U.S. Census Bureau, Business Research and Development Survey, 2017.