

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: 2018

(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	3,876	63,230	1,216	24,947	1,093	22,088	114	617
Manufacturing industries	31-33	1,764	39,393	435	10,230	260	17,295	51	440
Food	311	36	242	3	51	0	0	6	47
Chemicals	325	377	10,553	230	9,588	26	98	9	339
Basic chemicals	3251	24	192	D	2	D	*	D	0 - 193
Pharmaceuticals and medicines	3254	241	9,792	226	9,585	21	91	5	11
Other chemicals	other 325	112	569	D	1	D	7	D	134 - 329
Plastics and rubber products	326	90	83	9	17	5	3	D	*
Nonmetallic mineral products	327	19	24	D	1	D	2	0	0
Fabricated metal products	332	110	105	D	*	D	*	D	2
Machinery	333	212	1,034	4	1	36	186	6	8
Agricultural implement	33311	8	10	0	0	0	0	D	7
Semiconductor machinery	333242	7	543	0	0	0	0	0	0
Engine, turbine, and power transmission equipment	3336	25	173	0	0	5	132	0	0
Other machinery	other 333	174	307	4	1	31	54	D	2
Computer and electronic products	334	382	9,775	80	269	106	4,330	21	36
Semiconductor and other electronic components	3344	154	2,410	33	96	17	68	9	21
Other electronic products	other 334	229	7,365	47	173	89	4,262	12	15
Electrical equipment, appliances, and components	335	91	266	0	0	21	24	D	*
Transportation equipment	336	187	16,735	D	39	47	12,612	D	1
Motor vehicles, bodies, trailers, and parts	3361-63	118	2,506	D	1	7	116	0	0
Other transportation	other 336	69	14,229	D	38	39	12,496	D	1
Miscellaneous	339	126	402	99	229	10	33	0	0
Other manufacturing	312-16, 321-24, 331, 337	136	173	D	36	5	5	D	7
Nonmanufacturing industries	21-23, 42-81	2,114	23,838	781	14,717	833	4,793	63	177
Mining, quarrying, oil and gas extraction, and support activities	21	10	130	0	0	0	0	0	0
Utilities	22	6	51	0	0	0	0	0	0
Wholesale trade	42	40	25	D	2	0	0	D	2
Information	51	150	862	D	15	D	23	0	0
Publishing	511	53	489	D	15	D	11	0	0
Telecommunications	517	12	65	D	1	5	12	0	0
Data processing, hosting, and related services	518	42	191	0	0	0	0	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	43	117	0	0	0	0	0	0	
Professional, scientific, and technical services	54	1,766	22,486	757	i 14,635	823	i 4,770	59	171	i
Architectural, engineering, and related services	5413	348	1,684	123	i 223	154	i 626	16	i 98	i
Scientific research and development services	5417	1,010	17,761	569	i 13,956	484	i 3,057	37	67	
Research and development in biotechnology	541711	143	5,037	132	i 4,978	14	i 29	5	16	
Other scientific research and development	other 5417	866	12,724	437	i 8,977	470	i 3,028	32	51	
Other professional, scientific, and technical services	other 54	408	3,041	65	i 456	185	i 1,087	6	6	
Health care services	621-23	86	75	16	56	i 0	0	0	0	
Other nonmanufacturing	23, 44-45, 48-49, 52-53, 55-56, 624, 71-72, 81	56	209	4	9	D	*	D	4	
All companies (number of domestic employees)	-	3,876	63,230	1,216	i 24,947	1,093	i 22,088	114	617	
Small companies										
10-19 ^c	-	939	1,050	315	i 400	265	i 290	18	i 12	
20-49	-	1,059	1,695	313	i 646	323	i 651	32	31	
Medium companies										
50-99	-	484	1,875	138	883	110	i 590	17	40	
100-249	-	726	i 3,921	251	i 1,242	231	i 1,429	23	49	
Large companies										
250-499	-	233	3,041	72	1,004	53	702	6	9	
500-999	-	123	2,096	33	789	20	i 220	D	53	i
1,000-4,999	-	173	10,068	46	4,655	41	845	10	357	
5,000-9,999	-	47	9,063	16	6,870	15	1,033	i 3	28	
10,000-24,999	-	57	9,997	20	5,635	i 18	1,649	D	10	
25,000 or more	-	36	20,423	11	2,822	15	14,679	D	27	i

* = 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 Beginning in survey year 2018, these statistics 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 Beginning in survey year 2018, these statistics include an adjustment to the weight to account for unit nonresponse. These company count estimates reflect an 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. Beginning in survey year 2018, statistics are representative of companies located in the United States that performed or funded \$50,000 or more of R&D. This change has affected the comparability of these estimates with estimates published for years prior to 2018. 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, 2018.