

TABLE 32. Companies with domestic R&D paid for by others and performed by the company in energy and environmental protection application areas, by industry and company size: 2014
(Millions of U.S. dollars)

Industry and company size	NAICS codes	Domestic R&D		Energy		Environmental protection	
		Companies ^a (number)	Amount	Companies ^b (number)	Amount	Companies ^b (number)	Amount
All industries	21–23, 31–33, 42–81	10,005	58,158	1,777 i	2,984	1,060 i	2,275 i
Manufacturing industries	31–33	5,557	40,655	830 i	1,404	466 i	494
Food	311	250	220	D	2	12 i	18
Chemicals	325	877	9,813	51 i	187	25 i	139 i
Basic chemicals	3251	123	295 i	41 i	134 i	18 i	116 i
Pharmaceuticals and medicines	3254	545	8,966	3	16	3	21
Other chemicals	other 325	209	551	7	37	4	2
Plastics and rubber products	326	377	158 i	43 i	14 i	15 i	4 i
Nonmetallic mineral products	327	113	24	5	4	D	1
Fabricated metal products	332	663	130 i	178 i	57 i	190 i	6 i
Machinery	333	788	670	37	113	8	27
Agricultural implements	33311	43	39	0	0	0	0
Semiconductor machinery	333295	6	120	0	0	0	0
Engines, turbines, and power transmission equipment	3336	40	62	25 i	32	4	20
Other machinery	other 333	698	448 i	12	81	4	8
Computer and electronic products	334	769	9,195	160 i	651	98 i	85
Semiconductors and other electronic components	3344	161	2,112	63 i	407	36 i	41 i
Other electronic products	other 334	608	7,083	97 i	244	62 i	44
Electrical equipment, appliances, and components	335	357	187 i	275 i	85 i	47 i	8 i
Transportation equipment	336	301	19,485 i	51	243	38 i	168
Automobiles, bodies, trailers, and parts	3361–63	133	2,504	38 i	170	32 i	164
Other transportation	other 336	168	16,981 i	13	73 i	6	4
Miscellaneous manufacturing	339	563	559	16 i	24 i	25 i	19 i
Other manufacturing	312–16, 321–24, 331, 337	498	212	D	25 i	D	17 i
Nonmanufacturing industries	21–23, 42–81	4,449	17,504	948 i	1,580	594 i	1,780 i
Mining, extraction, and support activities	21	154	882	9	701	48	128
Utilities	22	9	52	8	52	3	30
Wholesale trade	42	332	10 i	0	0	0	0
Information	51	554	1,477	12 i	43	9 i	14
Publishing	511	185	1,270	8 i	37	D	13
Telecommunications	517	151	45	D	2	0	0
Data processing, hosting, and related services	518	119	103	D	5	D	1
Other information	other 51	99	59	0	0	0	0
Professional, scientific, and technical services	54	3,306	14,914	914 i	783 i	530 i	1,586 i
Architectural, engineering, and related services	5413	673	1,871	517 i	275	402 i	1,237 i
Scientific R&D services	5417	822	10,139	186 i	474 i	99 i	314 i
Biotechnology R&D	541711	156	2,767	6	37 i	D	5
Other scientific R&D	other 5417	666	7,371	180 i	438 i	D	309 i

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		Companies ^a (number)	Amount	Companies ^b (number)	Amount	Companies ^b (number)	Amount
Other professional, scientific, and technical services	other 54	1,812	2,904 i	211 i	33	28	35
Health care services	621-23	62	62 i	0	0	0	0
Other nonmanufacturing	23, 44-45, 48-49, 52-53, 55-56, 624, 71-72, 81	31	106	5	2	4	21
All companies (number of domestic employees)	-	10,005	58,158	1,777 i	2,984	1,060 i	2,275 i
Small companies ^c							
5-499	-	9,599	11,884 i	1,656 i	777	990 i	795 i
5-99	-	8,604	7,383 i	1,449 i	451 i	896 i	573 i
5-49	-	7,223	4,730 i	1,224 i	327 i	702 i	335 i
5-9	-	2,433	868 i	442 i	46 i	297 i	114 i
10-24	-	3,139	1,671 i	477 i	103 i	191 i	64 i
25-49	-	1,652	2,191 i	305 i	178	215 i	158 i
50-99	-	1,381	2,652 i	224 i	124 i	193 i	238 i
100-249	-	755	2,486	158 i	233	61 i	161 i
250-499	-	240	2,015	49	93	33 i	61
Medium and large companies							
500-999	-	131	1,525	21	232	17	66 i
1,000-4,999	-	142	9,744	43	324 i	24	174 i
5,000-9,999	-	43	7,522	15	558	7	223 i
10,000-24,999	-	51	7,542	26	648	10	154
25,000 or more	-	39	19,941 i	16	445	11	863

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. Changes in data collection and imputation processes have affected the comparability of company count estimates in this table with estimates published for previous years. 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 Upper bound is based on the U.S. Small Business Administration's definition of a small business; the Business R&D and Innovation Survey does not include companies with fewer than five domestic employees.

NOTES: 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: National Science Foundation, National Center for Science and Engineering Statistics, and U.S. Census Bureau, Business R&D and Innovation Survey, 2014.