

TABLE 36
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: 2015
(Millions of U.S. dollars)

Industry and company size	NAICS code	Domestic R&D		Energy		Environmental protection	
		Companies (number) ^a	Amount	Companies (number) ^b	Amount	Companies (number) ^b	Amount
All industries	21-23, 31-33, 42-81	11,579	59,144	1,419	i 2,585	808	i 1,666
Manufacturing industries	31-33	5,896	40,340	688	i 1,275	335	i 446
Food	311	168	194	D	2	3	19
Chemicals	325	577	9,427	49	311	17	124
Basic chemicals	3251	49	467	38	254	12	i 115
Pharmaceuticals and medicines	3254	294	8,432	3	36 i	D	4
Other chemicals	other 325	234	528	9	21	D	5
Plastics and rubber products	326	497	152 i	103	i 3 i	3	*
Nonmetallic mineral products	327	64	20	D	1	D	2
Fabricated metal products	332	1,224	223 i	3	* i	D	1
Machinery	333	557	881 i	101	i 134	40	i 24
Agricultural implements	33311	26	15 i	0	0	0	0
Semiconductor machinery	333242	17	297 i	0	0	0	0
Engines, turbines, and power transmission equipment	3336	71	154	56	i 49	36	i 19
Other machinery	other 333	444	416	45	i 85	4	5
Computer and electronic products	334	846	8,345	263	i 372	155	i 63
Semiconductors and other electronic components	3344	287	1,855	137	i 126	7	7 i
Other electronic products	other 334	559	6,490	126	i 246	148	i 55
Electrical equipment, appliances, and components	335	200	483 i	98	i 99 i	40	i 24 i
Transportation equipment	336	551	20,050 i	47	337	61	i 186
Automobiles, bodies, trailers, and parts	3361-63	325	2,441	36	i 266	58	i 180
Other transportation	other 336	226	17,609 i	11	71	3	6 i
Miscellaneous manufacturing	339	564	326 i	7	6	D	* i
Other manufacturing	312-16, 321-24, 331, 337	649	239	12	11	9	2
Nonmanufacturing industries	21-23, 42-81	5,684	18,804	730	i 1,310	474	i 1,220
Mining, extraction, and support activities	21	47	619	8	563	4	6
Utilities	22	8	34	6	33	3	27
Wholesale trade	42	1,004	84 i	D	3	0	0
Information	51	314	935	15	i 141	3	5
Publishing	511	77	747	11	i 137	D	D
Telecommunications	517	D	70 i	0	0	0	0
Data processing, hosting, and related services	518	87	102	4	5	D	D
Other information	other 51	D	16	0	0	0	0
Professional, scientific, and technical services	54	4,004	16,710	698	i 569 i	461	i 1,169 i

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Architectural, engineering, and related services	5413	1,096	1,881	229	i 274	168	i 730
Scientific research and development services	5417	1,383	12,433	411	i 277	226	i 428
Biotechnology research and development	541711	394	4,157	D	1	D	*
Other scientific research and development	other 5417	989	8,276	D	276	D	428
Other professional, scientific, and technical services	other 54	1,524	2,397	i 59	i 19	i 67	i 11
Health care services	621-23	117	298	i 0	0	0	0
Other nonmanufacturing	23, 44-45, 48-49, 52-53, 55-56, 624, 71-72, 81	191	124	D	1	3	14
All companies (number of domestic employees)	-	11,579	59,144	1,419	i 2,585	808	i 1,666
Micro companies ^c							
5-9	-	3,047	1,016	i 339	i 100	216	i 22
Small companies							
10-19	-	2,863	1,246	i 311	i 103	214	i 56
20-49	-	2,960	2,316	i 357	i 159	i 180	i 81
Medium companies							
50-99	-	1,216	2,706	168	i 111	i 78	i 58
100-249	-	831	2,566	88	i 331	41	i 75
Large companies							
250-499	-	244	2,185	50	256	19	99
500-999	-	130	2,023	i 17	92	9	41
1,000-4,999	-	162	9,830	40	195	27	283
5,000-9,999	-	35	4,178	12	89	4	47
10,000-24,999	-	56	10,878	22	721	11	101
25,000 or more	-	36	20,201	14	428	9	802

* = 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.

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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, 2015.