

TABLE 28

Companies with domestic R&D paid for 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	48,789	296,677	10,099	20,486	3,688	7,481
Manufacturing industries	31-33	24,944	195,792	6,113	14,539	2,561	6,434
Food	311	1,307	4,644	7	12	12	15
Chemicals	325	2,689	58,769	544	689	369	436
Basic chemicals	3251	307	2,574	136	425	109	234
Pharmaceuticals and medicines	3254	728	50,242	3	10	5	12
Other chemicals	other 325	1,656	5,952	405	254	255	190
Plastics and rubber products	326	1,329	2,390	364	114	157	65
Nonmetallic mineral products	327	479	1,239	214	120	133	50
Fabricated metal products	332	3,772	2,039	1,100	135	362	59
Machinery	333	4,041	12,544	1,479	2,404	550	1,013
Agricultural implements	33311	264	1,516	5	13	14	119
Semiconductor machinery	333242	52	2,917	12	578	3	*
Engines, turbines, and power transmission equipment	3336	323	2,381	219	655	45	675
Other machinery	other 333	3,404	5,731	1,243	1,158	489	219
Computer and electronic products	334	2,977	63,765	914	5,366	259	1,491
Semiconductors and other electronic components	3344	906	28,597	402	2,632	15	59
Other electronic products	other 334	2,071	35,168	512	2,733	244	1,432
Electrical equipment, appliances, and components	335	949	3,852	577	1,050	199	143
Transportation equipment	336	1,689	29,224	221	3,973	84	2,888
Automobiles, bodies, trailers, and parts	3361-63	1,037	16,636	176	3,371	59	2,662
Other transportation	other 336	652	12,588	45	601	24	226
Miscellaneous manufacturing	339	2,332	13,365	50	410	30	117
Other manufacturing	312-16, 321-24, 331, 337	3,388	3,962	642	266	407	158
Nonmanufacturing industries	21-23, 42-81	23,846	100,885	3,986	5,947	1,127	1,047
Mining, extraction, and support activities	21	321	3,393	75	2,429	28	361
Utilities	22	72	446	70	421	11	35
Wholesale trade	42	5,668	1,684	817	384	301	26
Information	51	3,309	64,578	136	684	15	155
Publishing	511	1,385	32,598	113	596	D	140
Telecommunications	517	445	3,537	3	18	D	2
Data processing, hosting, and related services	518	1,147	9,314	17	60	6	14
Other information	other 51	331	19,129	3	11	0	0
Professional, scientific, and technical services	54	12,423	21,915	2,757	1,955	697	429

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		Companies (number) ^a	Amount	Companies (number) ^b	Amount	Companies (number) ^b	Amount
Architectural, engineering, and related services	5413	2,515	2,247 i	1,220	1,097 i	293	242 i
Scientific research and development services	5417	1,871	3,896	430	549 i	221	139 i
Biotechnology research and development	541711	502	1,536 i	D	2	D	* i
Other scientific research and development	other 5417	1,369	2,360	D	547 i	D	139 i
Other professional, scientific, and technical services	other 54	8,037	15,771	1,106	309	183	48 i
Health care services	621-23	669	460	0	0	D	1
Other nonmanufacturing	23, 44-45, 48-49, 52-53, 55-56, 624, 71-72, 81	1,387	8,409	131	74	D	39
All companies (number of domestic employees)	-	48,789	296,677	10,099	20,486	3,688	7,481
Micro companies ^c							
5-9	-	10,152	1,972 i	1,896	195 i	610	49 i
Small companies							
10-19	-	11,768	4,434 i	2,430	608 i	868	188 i
20-49	-	12,421	7,933 i	2,721	1,024 i	863	273 i
Medium companies							
50-99	-	6,246	8,803	1,297	781 i	452	195 i
100-249	-	4,119	11,037	830	924 i	353	231 i
Large companies							
250-499	-	1,760	11,368	316	550	160	173 i
500-999	-	912	13,194	218	799	112	233
1,000-4,999	-	963	48,264	238	3,207 i	158	940
5,000-9,999	-	199	34,660	70	1,989	50	896
10,000-24,999	-	149	48,450	52	3,294	37	1,436
25,000 or more	-	100	106,562	33	7,116	24	2,867

* = 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.

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^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, 2015.