

TABLE 32. Companies with domestic R&D paid for and performed by the company in energy and environmental protection application areas, by industry and company size: 2013
(Millions of U.S. dollars)

Industry and company size	NAICS code	Domestic R&D		Energy		Environmental protection	
		Companies ^a (number)	Amount	Companies ^a (number)	Amount	Companies ^a (number)	Amount
All industries	21–23, 31–33, 42–81	65,139	264,913	26,721	20,008	22,438	7,475
Manufacturing industries	31–33	27,655	181,170	16,972	15,176	15,502	6,353
Food	311	2,072	4,801	8	12	1,066	88 i
Chemicals	325	2,898	54,285	1,619	876	1,621	468
Basic chemicals	3251	386	2,341	337	531	313	268
Pharmaceuticals and medicines	3254	906	45,891	7	23	47	11
Other chemicals	other 325	1,605	6,053	1,275	321	1,261	189
Plastics and rubber products	326	1,553	3,496	1,261	221	1,193	116 i
Nonmetallic mineral products	327	584	1,303 i	555	151 i	411	40 i
Fabricated metal products	332	3,137	1,934 i	2,351	139 i	1,888	52 i
Machinery	333	3,918	12,092	3,455	1,924	3,197	1,896
Agricultural implement	33311	198	1,561	127	29	151	152
Semiconductor machinery	333295	162	3,097	154	209	145	89
Engine, turbine, and power transmission equipment	3336	146	1,336	137	622 i	120	795
Other machinery	other 333	3,412	6,098	3,038	1,065	2,781	859
Computer and electronic products	334	3,944	57,364	2,963	4,740	1,173	1,132 i
Semiconductor and other electronic components	3344	1,305	28,576	1,136	2,832	26	399 i
Other electronic products	other 334	2,640	28,788	1,828	1,908	1,148	733
Electrical equipment, appliances, and components	335	1,143	3,660	1,060	924 i	935	157 i
Transportation equipment	336	1,948	25,165	1,019	5,320	1,010	1,551
Automobiles, bodies, trailers, and parts	3361, 3362, 3363	1,212	14,081	897	4,560	898	1,248
Other transportation	other 336	736	11,084	122	760	112	303 i
Miscellaneous manufacturing	339	2,770	13,147	782	618 i	779	660 i
Other manufacturing	312–316, 321–24, 331, 337	3,694	3,923	1,901	250	2,229	194
Nonmanufacturing industries	21–23, 42–81	37,486	83,742	9,750	4,832	6,937	1,122
Mining, extraction, and support activities	21	246	3,602	159	2,724	81	351
Utilities	22	65	243	65	234	59	77
Wholesale trade	42	4,664	510 i	D	1	D	*
Information	51	3,890	56,039	679	274	13	147
Publishing	511	2,055	34,637	14	135	7	107
Telecommunications	517	231	3,037	91	36	0	0
Data processing, hosting, and related services	518	1,015	6,333	570	92	D	D
Other information	other 51	589	12,032	4	10	D	D
Professional, scientific, and technical services	54	12,693	15,617 i	7,944	1,544 i	6,190	446 i
Architectural, engineering, and related services	5413	2,074	1,261	2,002	513 i	1,784	139 i
Scientific research and development services	5417	1,320	2,838	790	504 i	727	97 i
Biotechnology research and development	541711	416	1,331	203	132 i	177	15
Other scientific research and development	other 5417	903	1,507	587	371 i	550	82 i

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		Companies ^a (number)	Amount	Companies ^a (number)	Amount	Companies ^a (number)	Amount
Other professional, scientific, and technical services	other 54	9,300	11,518 i	5,152	527 i	3,679	210 i
Health care services	621-23	1,674	430 i	0	0	0	0
Other nonmanufacturing	23, 44-45, 48-49, 52-53, 55-56, 624, 71-72, 81	14,253	7,301	D	56 i	D	100
All companies (number of domestic employees)	-	65,139	264,913	26,721	20,008	22,438	7,475
Small companies ^b							
5-499	-	62,932	42,106	25,840	3,236 i	21,571	1,144 i
5-99	-	56,394	20,886 i	22,740	1,781 i	18,426	671 i
5-49	-	48,605	13,726 i	19,251	1,201 i	15,121	493 i
5-9	-	17,348	2,195 i	7,545	163 i	5,529	67 i
10-24	-	19,210	5,290 i	7,139	458 i	5,646	159 i
25-49	-	12,046	6,241 i	4,568	580 i	3,946	267
50-99	-	7,789	7,161	3,488	580 i	3,305	178 i
100-249	-	4,796	10,922	2,375	794	2,378	247 i
250-499	-	1,742	10,297	725	661 i	767	226 i
Medium and large companies							
500-999	-	876	10,280	304	795	348	259 i
1,000-4,999	-	907	45,342	371	2,746	328	998
5,000-9,999	-	188	25,009	87	1,664	85	940 i
10,000-24,999	-	137	44,275	75	3,610	69	1,616
25,000 or more	-	108	97,901	47	7,957	39	2,518

* = 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 = 2007 North American Industry Classification System.

^a Statistics for 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 Upper bound based on U.S. Small Business Administration's definition of a small business; 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; for number of companies detail may not add to total because of rounding and because some companies requested multiple survey questionnaires to facilitate sub-company reporting (see technical notes and appendix table A-8). Industry classification based on dominant business code for domestic R&D performance where available. For companies that did not report business codes, 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, 2013.