

TABLE 139. Domestic R&D paid for by others and performed by the company and number of companies that reported R&D in each application area, by industry and company size: 2010 (corrected November 2013)

(Millions of U.S. dollars)

Industry and company size	NAICS codes	Domestic R&D		Application area			
		Companies	Amount	Energy		Environmental protection	
				Companies	Amount	Companies	Amount
All industries	21–23, 31–33, 42–81	8,980	57,271	2,941	2,910	2,534	1,766 i
Manufacturing industries	31–33	3,018	37,133	978	1,329	750	639 i
Food	311	62	168	6	37	D	D
Chemicals	325	449	4,483	69	85	55	44
Basic chemicals	3251	67	85	32	40	18	9
Pharmaceuticals and medicines	3254	224	4,017	17	23	12	17
Other chemicals	other 325	158	380	20	22	25	19
Plastics and rubber products	326	136	312 i	47	5	49	20
Nonmetallic mineral products	327	28	30	24	17	5	4
Fabricated metal products	332	418	239	133	5	123	3
Machinery	333	482	571	271	133	238	64
Agricultural implement	33311	15	23	4	3	D	3
Semiconductor machinery	333295	11	127	6	7 i	5	1 i
Engine, turbine, and power transmission equipment	3336	15	113	12	59	6	20
Other machinery	other 333	440	308	249	64	D	39
Computer and electronic products	334	560	8,652	128	273	77	66
Semiconductor and other electronic components	3344	137	615	38	45	14	24 i
Other electronic products	other 334	423	8,037	90	228	63	42
Electrical equipment, appliances, and components	335	157	180	81	76	47	20
Transportation equipment	336	148	21,837 i	43	549 i	39	365 i
Automobiles, bodies, trailers, and parts	3361–3363	88	D	25	136	26	70 i
Other transportation	other 336	60	D	18	413 i	13	295 i
Miscellaneous manufacturing	339	284	D	60	24	48	12 i
Other manufacturing	312–316, 321–324, 331, 337	294	D	115	125	D	D
Nonmanufacturing industries	21–23, 42–81	5,962	20,138	1,963	1,581	1,784	1,127
Mining, extraction, and support activities	21	33	289	D	283	23	4
Utilities	22	23	54	23	31	14	14
Construction	23	12	375	5	4	4	365
Wholesale and retail trade	42, 44, 45	830	233	205	13	304	10 i
Information	51	238	768	34	23	33	19
Publishing	511	85	595	29	21	27	17
Telecommunications	517	10	113	D	D	D	D
Data processing, hosting, and related services	518	121	47	D	D	D	D
Other information	other 51	22	13	0	0	0	0
Professional, scientific, and technical services	54	3,968	18,252	1,657	1,211 i	1,400	712 i
Architectural, engineering, and related services	5413	1,193	2,712	791	342 i	660	161 i
Scientific R&D services	5417	1,483	11,968	495	693 i	437	427 i
Biotechnology R&D	541711	472	3,890	137	84 i	128	65 i
Other scientific R&D	other 5417	1,010	8,077	358	610 i	309	362 i
Other professional, scientific, and technical services	other 54	1,292	3,573	371	176 i	303	125

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Industry and company size	NAICS codes	Domestic R&D		Application area			
		Companies	Amount	Energy		Environmental protection	
				Companies	Amount	Companies	Amount
Health care services	621–623	564	107	0	0	0	0
Other nonmanufacturing	48, 49, 52, 53, 55, 56, 624, 71, 72, 81	293	61	D	16	6	2 i
All companies (number of employees)	–	8,980	57,271	2,941	2,910	2,534	1,766 i
Small companies (number of employees) <sup>a</sup>							
5–499	–	8,530	11,379	2,770	1,055	2,416	634 i
5–99	–	7,769	7,078	2,549	846	2,251	514 i
5–49	–	7,033	4,623	2,336	595	2,063	379 i
5–9	–	2,401	944	764	162	563	55
10–24	–	2,899	2,002	1,221	221	1,122	172 i
25–49	–	1,733	1,678	350	211	379	152
50–99	–	736	2,455	214	251	188	135 i
100–249	–	564	2,431	175	110 i	128	79
250–499	–	197	1,870	45	99	38	42
Medium and large companies (number of employees)							
500–999	–	125	1,477	36	63 i	34	60
1,000–4,999	–	180	8,760	68	429 i	38	202
5,000–9,999	–	52	5,523	21	122	13	47 i
10,000–24,999	–	50	5,147	22	397	17	96
25,000 or more	–	43	24,985 i	24	844 i	16	727 i

D = data withheld to avoid disclosing operations of individual companies; i = value > 50% of estimate is a combination of imputation and reweighting to account for nonresponse.

NAICS = 2007 North American Industry Classification System.

<sup>a</sup> Upper bound based on U.S. Small Business Administration's definition of small business; Business R&D and Innovation Survey (BRDIS) does not include companies with fewer than five domestic employees.

NOTES: Detail may not add to total because of rounding. 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 United States that performed or funded R&D.

SOURCE: National Science Foundation/National Center for Science and Engineering Statistics and U.S. Census Bureau, Business R&D and Innovation Survey, 2010.