

TABLE 138. Domestic R&D paid for and performed by the company and number of companies that reported R&D in each application area, by industry and company size: 2010

(Millions of U.S. dollars)

Industry and company size	NAICS codes	Application area					
		Domestic R&D		Energy		Environmental protection	
		Companies	Amount	Companies	Amount	Companies	Amount
All industries	21–23, 31–33, 42–81	48,393	221,706	11,557	16,477	11,284	7,923
Manufacturing industries	31–33	25,408	159,579	6,381	12,416	5,762	6,147
Food	311	1,704	3,659	179	162 i	74	96 i
Chemicals	325	3,064	53,555	490	673	595	671
Basic chemicals	3251	416	1,718	115	166	118	171
Pharmaceuticals and medicines	3254	1,471	45,398	89	186	89	190
Other chemicals	other 325	1,177	6,440	286	321	389	311
Plastics and rubber products	326	1,253	1,809	236	74	342	105
Nonmetallic mineral products	327	617	1,246 i	184	117	216	202 i
Fabricated metal products	332	2,834	1,464	911	165	937	90
Machinery	333	3,629	9,384	1,399	1,694	1,192	1,621
Agricultural implement	33311	269	1,172	29	65	38	135
Semiconductor machinery	333295	82	1,999	35	107	14	7
Engine, turbine, and power transmission equipment	3336	255	1,231	213	587	182	586
Other machinery	other 333	3,024	4,981	1,123	935	958	893
Computer and electronic products	334	3,013	51,223	867	3,708	531	1,414
Semiconductor and other electronic components	3344	821	21,318	291	2,025 i	96	214
Other electronic products	other 334	2,192	29,905	576	1,683	435	1,200
Electrical equipment, appliances, and components	335	1,411	3,141	540	863	275	194
Transportation equipment	336	1,646	21,076	532	3,881	471	1,129
Automobiles, bodies, trailers, and parts	3361–3363	987	10,098	277	2,935	324	1,044
Other transportation	other 336	658	10,978	255	946	147	85
Miscellaneous manufacturing	339	3,008	8,097	556	123	543	72
Other manufacturing	312–316, 321–324, 331, 337	3,229	4,924	486	955 i	586	554
Nonmanufacturing industries	21–23, 42–81	22,985	62,127	5,177	4,061	5,522	1,776
Mining, extraction, and support activities	21	415	2,254	210	1,250	209	177
Utilities	22	72	371	65	339	53	54
Construction	23	1,319	704	354	210	615	48 i
Wholesale and retail trade	42, 44, 45	1,671	D	318	28	241	21
Information	51	3,462	36,085	923	598	565	175
Publishing	511	1,809	26,387	496	377	470	122
Telecommunications	517	136	1,755	35	35 i	33	33 i
Data processing, hosting, and related services	518	618	2,491	48	47	57	16
Other information	other 51	899	5,452	343	139	6	4 i
Professional, scientific, and technical services	54	9,902	15,438	2,139	1,422 i	2,251	599 i
Architectural, engineering, and related services	5413	2,758	1,381	1,110	561 i	1,233	190 i
Scientific research and development services	5417	751	2,851	196	234	164	100
Biotechnology research and development	541711	369	1,720	69	84	67	25
Other scientific research and development	other 5417	382	1,131	128	150	98	75
Other professional, scientific, and technical services	other 54	6,393	11,206	832	626	853	309 i

TABLE 138. Domestic R&D paid for and performed by the company and number of companies that reported R&D in each application area, by industry and company size: 2010
(Millions of U.S. dollars)

Industry and company size	NAICS codes	Application area					
		Domestic R&D		Energy		Environmental protection	
		Companies	Amount	Companies	Amount	Companies	Amount
Health care services	621-623	1,944	1,126	0	0	254	31
Other nonmanufacturing	48, 49, 52, 53, 55, 56, 624, 71, 72, 81	4,200	D	1,170	215 i	1,334	671 i
All companies (number of employees)	-	48,393	221,706	11,557	16,477	11,284	7,923
Small companies (number of employees) ^a							
5-499	--	46,261	40,822	10,878	3,840	10,721	2,600
5-99	--	40,194	22,974	9,557	2,604	9,452	1,922
5-49	-	34,709	16,574	8,202	2,053	8,255	1,690
5-9	-	11,265	2,907	2,493	245	2,377	154
10-24	-	13,299	6,720	3,401	440	3,562	706 i
25-49	-	10,145	6,947	2,309	1,369	2,317	830
50-99	-	5,485	6,400	1,355	550	1,196	232
100-249	-	4,516	9,435	947	652	986	458
250-499	-	1,551	8,413	374	584	284	220
Medium and large companies (number of employees)							
500-999	-	794	8,640	192	590	163	186
1,000-4,999	-	912	39,468	286	2,458	233	1,214
5,000-9,999	-	187	21,940	84	1,277 i	71	622 i
10,000-24,999	-	134	36,688	69	1,967	55	980
25,000 or more	-	105	74,148	49	6,345	41	2,321

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.

^a 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.