

TABLE 141. Domestic R&D paid for by others and performed by the company and number of companies that reported R&D in selected technology focus areas, by industry and company size: 2010 (corrected November 2013)

(Millions of U.S. dollars)

Industry and company size	NAICS codes	Domestic R&D		Technology focus area					
				Medical clinical trials		Biotechnology		Nanotechnology	
		Companies	Amount	Companies	Amount	Companies	Amount	Companies	Amount
All industries	21–23, 31–33, 42–81	8,980	57,271	2,957	6,618	3,006	7,313	1,768	1,968
Manufacturing industries	31–33	3,018	37,133	529	2,009	609	3,097	471	639
Food	311	62	168	0	0	26	30	0	0
Chemicals	325	449	4,483	222	1,844	223	2,480	79	36
Basic chemicals	3251	67	85	D	D	29	D	36	16
Pharmaceuticals and medicines	3254	224	4,017	182	1,838	161	2,365	6	2
Other chemicals	other 325	158	380	D	D	32	D	36	18
Plastics and rubber products	326	136	312 i	0	0	7	*	20	3 i
Nonmetallic mineral products	327	28	30	0	0	5	1	21	7
Fabricated metal products	332	418	239	0	0	3	*	3	*
Machinery	333	482	571	D	D	114	51	72	114
Agricultural implement	33311	15	23	0	0	0	0	0	0
Semiconductor machinery	333295	11	127	0	0	0	0	D	107
Engine, turbine, and power transmission equipment	3336	15	113	D	D	3	D	3	6 i
Other machinery	other 333	440	308	D	D	110	D	D	1 i
Computer and electronic products	334	560	8,652	83	D	105	329	116	383
Semiconductor and other electronic components	3344	137	615	D	D	10	D	46	297
Other electronic products	other 334	423	8,037	D	D	95	D	70	86
Electrical equipment, appliances, and components	335	157	180	0	0	26	4	34	6
Transportation equipment	336	148	21,837 i	6	10 i	6	79	9	D
Automobiles, bodies, trailers, and parts	3361–3363	88	D	0	0	0	0	D	D
Other transportation	other 336	60	D	6	10 i	6	79	D	D
Miscellaneous manufacturing	339	284	D	126	7 i	73	82	48	8
Other manufacturing	312–316, 321–324, 331, 337	294	D	D	10 i	21	42	70	D
Nonmanufacturing industries	21–23, 42–81	5,962	20,138	2,428	4,610	2,397	4,216	1,297	1,329
Mining, extraction, and support activities	21	33	289	25	9 i	0	0	D	D
Utilities	22	23	54	0	0	0	0	0	0
Construction	23	12	375	0	0	D	D	0	0
Wholesale and retail trade	42, 44, 45	830	233	0	0	607	97	D	D
Information	51	238	768	D	D	D	D	D	D
Publishing	511	85	595	0	0	25	7 i	D	D
Telecommunications	517	10	113	0	0	0	0	0	0
Data processing, hosting, and related services	518	121	47	D	D	0	0	0	0
Other information	other 51	22	13	0	0	D	D	0	0
Professional, scientific, and technical services	54	3,968	18,252	2,356	4,582	1,460	4,081 i	1,187	1,275
Architectural, engineering, and related services	5413	1,193	2,712	972	50 i	436	187 i	426	193 i
Scientific R&D services	5417	1,483	11,968	1,328	4,426	916	3,731	517	989
Biotechnology R&D	541711	472	3,890	421	1,956	425	2,284	163	106 i
Other scientific R&D	other 5417	1,010	8,077	908	2,471	491	1,447 i	353	883
Other professional, scientific, and technical services	other 54	1,292	3,573	56	105 i	108	162 i	244	93 i

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		Companies	Amount	Medical clinical trials		Biotechnology		Nanotechnology	
				Companies	Amount	Companies	Amount	Companies	Amount
Health care services	621-623	564	107	D	D	276	21 i	3	15
Other nonmanufacturing	48, 49, 52, 53, 55, 56, 624, 71, 72, 81	293	61	0	0	23	6	4	D
All companies (number of employees)	-	8,980	57,271	2,957	6,618	3,006	7,313	1,768	1,968
Small companies (number of employees) ^a									
5-499	-	8,530	11,379	2,870	1,565 i	2,902	2,539	1,659	589
5-99	-	7,769	7,078	2,628	854 i	2,687	1,794	1,502	386
5-49	-	7,033	4,623	2,421	586 i	2,494	1,262	1,350	274
5-9	-	2,401	944	645	145 i	971	396	271	66
10-24	-	2,899	2,002	1,325	255 i	1,151	496	896	153
25-49	-	1,733	1,678	450	186 i	372	370	184	55
50-99	-	736	2,455	208	268 i	192	532 i	151	113 i
100-249	-	564	2,431	184	342	153	458	116	132
250-499	-	197	1,870	58	369	61	286	41	71
Medium and large companies (number of employees)									
500-999	-	125	1,477	20	68 i	27	D	30	59
1,000-4,999	-	180	8,760	40	1,693	41	2,220	44	859
5,000-9,999	-	52	5,523	9	2,445	7	D	10	D
10,000-24,999	-	50	5,147	11	545	15	560	14	D
25,000 or more	-	43	24,985 i	7	302	14	568	11	200 i

* = amount < \$500,000; 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.