TABLE 42. Companies with domestic R&D paid for by others and performed by the company in selected technology focus areas, by industry and company size: 2013
(Millions of U.S. dollars)

Industry and company size	NAICS code	Domestic R&D		Software products and embedded software		Biotechnology		Nanotechnology		Federally funded software	
		Companies[a] (number)	Amount	Companies[a] (number)	Amount	Companies[a] (number)	Amount	Companies[a] (number)	Amount	Companies[a] (number)	Amount
All industries	21–23, 31–33, 42–81	11,514	57,615	6,005	10,103 i	3,019	5,410	2,368	1,865 i	4,487	6,275 i
Manufacturing industries	31–33	6,068	40,306	2,464	5,276 i	1,172	4,189	907	976 i	1,620	3,787 i
Food	311	290	227	134	8	276	D	0	0	D	* i
Chemicals	325	569	7,379	27	38	475	4,002	159	58 i	15	7 i
Basic chemicals	3251	130	317	D	9 i	117	D	D	21 i	D	5 i
Pharmaceuticals and medicines	3254	319	6,534	10	23	272	3,666	36	18 i	D	2
Other chemicals	other 325	120	527	D	7	86	D	D	19	D	*
Plastics and rubber products	326	326	154 i	0	0	0	0	0	0	0	0
Nonmetallic mineral products	327	132	26 i	0	0	0	0	0	0	0	0
Fabricated metal products	332	1,282	278 i	741	14 i	0	0	D	*	D	3 i
Machinery	333	519	558	288	22	D	*	9	22	99	2
Agricultural implement	33311	12	36	D	*	0	0	0	0	0	0
Semiconductor machinery	333295	19	97	D	2 i	0	0	D	22	D	1
Engine, turbine, and power transmission equipment	3336	35	113	D	2	0	0	0	0	D	*
Other machinery	other 333	453	312	271	18	D	*	D	*	D	* i
Computer and electronic products	334	966	9,841	678	2,351 i	160	63	543	792 i	501	1,382 i
Semiconductor and other electronic components	3344	465	2,224	335	311	D	3	424	748 i	222	8
Other electronic products	other 334	502	7,617	342	2,040 i	D	60	119	43	279	1,374 i
Electrical equipment, appliances, and components	335	243	475 i	227	250 i	D	*	182	17 i	D	36 i
Transportation equipment	336	461	20,807 i	154	2,570 i	D	53 i	7	82 i	78	2,354 i
Automobiles, bodies, trailers, and parts	3361, 3362, 3363	302	2,647	131	148	0	0	D	*	D	20 i
Other transportation	other 336	159	18,160 i	22	2,422 i	D	53 i	D	82 i	D	2,334 i
Miscellaneous manufacturing	339	650	362	216	23	200	27	D	6 i	170	4
Other manufacturing	312–316, 321–24, 331, 337	631	198 i	0	0	50	D	D	*	0	0
Nonmanufacturing industries	21–23, 42–81	5,446	17,310	3,541	4,827 i	1,848	1,221 i	1,461	889 i	2,867	2,488 i
Mining, extraction, and support activities	21	46	395	4	83	D	D	D	D	D	2
Utilities	22	13	50	D	*	D	*	0	0	D	*
Wholesale trade	42	128	18 i	D	1	0	0	0	0	0	0
Information	51	321	1,168	135	984 i	102	6	D	2	100	161 i
Publishing	511	130	1,038	112	932 i	D	D	D	2	96	158 i
Telecommunications	517	27	4 i	D	*	0	0	0	0	D	*
Data processing, hosting, and related services	518	127	113	D	40	D	D	0	0	D	3
Other information	other 51	37	14	D	12	0	0	0	0	0	0
Professional, scientific, and technical services	54	4,512	15,400	3,395	3,746 i	1,725	1,143 i	D	878 i	D	2,325 i
Architectural, engineering, and related services	5413	641	1,872	570	667 i	590	58 i	595	200 i	535	544 i
Scientific research and development services	5417	1,108	11,363	649	1,946 i	D	1,081 i	591	667 i	533	1,045
Biotechnology research and development	541711	249	3,168 i	9	3	224	562 i	15	8	5	1
Other scientific research and development	other 5417	859	8,196	640	1,944 i	D	519 i	577	659 i	528	1,044

TABLE 42. Companies with domestic R&D paid for by others and performed by the company in selected technology focus areas, by industry and company size: 2013
(Millions of U.S. dollars)

Industry and company size	NAICS code	Domestic R&D		Software products and embedded software		Biotechnology		Nanotechnology		Federally funded software	
		Companies[a] (number)	Amount	Companies[a] (number)	Amount	Companies[a] (number)	Amount	Companies[a] (number)	Amount	Companies[a] (number)	Amount
Other professional, scientific, and technical services	other 54	2,763	2,165	2,176	1,132 i	D	5 i	D	11 i	D	736 i
Health care services	621–23	134	96	0	0	D	57	0	0	0	0
Other nonmanufacturing	23, 44–45, 48–49, 52–53, 55–56, 624, 71–72, 81	292	182	D	12	D	D	D	D	0	0
All companies (number of domestic employees)	–	11,514	57,615	6,005	10,103 i	3,019	5,410	2,368	1,865 i	4,487	6,275 i
Small companies[b]											
5–499	–	11,083	10,897	5,834	2,875 i	2,913	1,386	2,296	803 i	4,403	1,590 i
5–99	–	10,034	6,262 i	5,346	1,659 i	2,689	849	2,168	611 i	4,130	966 i
5–49	–	8,792	4,513 i	4,590	1,164 i	2,436	581	1,923	541 i	3,538	647 i
5–9	–	3,350	1,207 i	1,629	344 i	1,087	126 i	804	139 i	1,373	271 i
10–24	–	3,761	1,605 i	2,111	545 i	968	149 i	804	104 i	1,626	227 i
25–49	–	1,681	1,700	850	275 i	381	306	314	298	539	149 i
50–99	–	1,242	1,749	757	495 i	253	268	245	70 i	592	319 i
100–249	–	800	2,743	381	822 i	167	343	104	131 i	221	439
250–499	–	249	1,892	107	395 i	56	194	25	61 i	52	185
Medium and large companies											
500–999	–	130	1,722	50	325 i	25	195	18	D	21	63
1,000–4,999	–	160	10,175	58	1,041	44	1,983 i	25	254 i	22	488
5,000–9,999	–	47	6,505	16	977 i	10	958	8	D	8	54 i
10,000–24,999	–	58	6,942	27	951 i	D	596	12	82 i	D	566 i
25,000 or more	–	37	21,374 i	19	3,933 i	D	292 i	8	180 i	D	3,514 i

* = 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 technology area. Some R&D is not classified in any technology area. Changes in data collection and imputation processes have affected the comparability of company count estimates in this table with estimates published for previous years.

SOURCE: National Science Foundation, National Center for Science and Engineering Statistics, and U.S. Census Bureau, Business R&D and Innovation Survey, 2013.