

TABLE 39. Domestic R&D paid for by others and performed by the company, by source of funds, industry, and company size: 2013
(Millions of U.S. dollars)

Industry and company size	NAICS code	Total	Companies outside United States						All other	
			Companies in United States	Companies outside United States		U.S. federal government agencies	U.S. state government agencies	Foreign government agencies	In United States	Outside United States
				Company's parent	Unaffiliated companies					
All industries	21-23, 31-33, 42-81	57,615	13,450	10,445	3,346	29,362	194	526	262	31
Manufacturing industries	31-33	40,306	5,174	9,043	2,384	22,958	82	518	123	24
Food	311	227	34 i	176	1 i	1 i	0	0	15	0
Beverage and tobacco products	312	100 i	* i	97 i	4	* i	0	0	* i	0
Textile, apparel, and leather products	313-16	21 i	7 i	D	0	6 i	0	0	D	*
Wood products	321	11	5	4	1 i	1	0	0	0	* i
Paper	322	13 i	7 i	3	D	0	0	0	D	0
Printing and related support activities	323	28 i	10 i	* i	15 i	3 i	* i	0	* i	* i
Petroleum and coal products	324	5	5	0	*	0	0	0	0	0
Chemicals	325	7,379	1,389	3,690	1,904	356	3	0	16	22
Basic chemicals	3251	317	33	92	29	163 i	0	0	0	0
Resin, synthetic rubber, and artificial synthetic fibers and filaments	3252	111	D	104	1	1	1	0	D	0
Pesticide, fertilizer, and other agricultural chemicals	3253	366	D	D	D	3	0	0	D	* i
Pharmaceuticals and medicines	3254	6,534	1,343	3,162	1,825	167	2	0	13	22
Soap, cleaning compound, and toilet preparation	3256	11 i	3 i	D	D	4 i	0	0	0	0
Paint, coating, adhesive, and other chemicals	3255, 3259	40	D	D	D	18	0	0	*	0
Plastics and rubber products	326	154 i	130 i	10 i	D	11 i	D	0	D	0
Nonmetallic mineral products	327	26 i	12 i	1 i	9 i	4 i	* i	0	*	* i
Primary metals	331	19	4	D	D	11	D	* i	* i	0
Fabricated metal products	332	278 i	192 i	7 i	1 i	53 i	25 i	D	D	0
Machinery	333	558	110	253	56	128	7	*	3	*
Agricultural implement	33311	36	2	34	* i	* i	* i	0	0	0
Semiconductor machinery	333295	97	10	58	10	18	0	0	0	0
Engine, turbine, and power transmission equipment	3336	113	50	10	18	27	5	0	2	*
Other machinery	other 333	312	48 i	152 i	27 i	83	2	*	1 i	* i
Computer and electronic products	334	9,841	1,748	2,720	D	4,866	43	D	20	1 i
Communications equipment	3342	1,964 i	257 i	834	2 i	864 i	* i	2 i	5	0
Semiconductor and other electronic components	3344	2,224	673	1,359	90	60	40	1	*	0
Navigational, measuring, electromedical, and control instruments	3345	5,477	785	420	D	3,912	2	D	16	1 i
Electromedical, electrotherapeutic, and irradiation apparatus	334510, 334517	164	15	88	30	20	* i	0	10	1 i
Search, detection, navigation, guidance, aeronautical, and nautical system and instrument	334511	5,069	759	195	D	3,812	2	D	*	0
Other measuring and controlling device	other 3345	245	12	136	10	80	*	1	6 i	0
Other computer and electronic products	other 334	176	32	107	7	29	* i	* i	0	0
Electrical equipment, appliances, and components	335	475 i	83	258 i	1 i	129 i	D	0	D	0
Transportation equipment	336	20,807 i	1,328	1,676	D	17,312	2	D	D	0

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Automobiles, bodies, trailers, and parts	3361, 3362, 3363	2,647	565 i	1,673	99 i	304 i	*	* i	5	0
Aerospace products and parts	3364	17,072 i	758	1	D	15,927	2	D	D	0
Aircraft, aircraft engine, and aircraft parts	336411-13	D	D	1	D	D	2	D	D	0
Guided missile, space vehicle, and related parts	336414-15, 336419	D	D	0	0	D	1	D	0	0
Military armored vehicle, tank, and tank components	336992	2 i	0	0	0	2 i	0	0	0	0
Other transportation	other 336	1,086	5	1 i	* i	1,079	0	* i	* i	0
Furniture and related products	337	1 i	* i	* i	* i	* i	0	* i	0	0
Miscellaneous manufacturing	339	362	111	144	17	76	* i	0	13	0
Medical equipment and supplies	3391	317	97	137	17	52	0	0	13	0
Other miscellaneous manufacturing	3399	46 i	14 i	7 i	* i	24 i	* i	0	0	0
Nonmanufacturing industries	21-23, 42-81	17,310	8,276	1,402	962 i	6,404	112	8	138	7 i
Mining, extraction, and support activities	21	395	D	0	D	2	0	*	1	0
Utilities	22	50	0	3	0	45	2	0	1	0
Wholesale trade	42	18 i	5 i	13	0	0	0	0	* i	0
Electronic shopping and electronic auctions	454111-12	1 i	1 i	0	0	0	0	0	0	0
Transportation and warehousing	48-49	D	1 i	0	0	D	0	0	0	0
Information	51	1,168	447	506	6	203	4	0	2	0
Publishing	511	1,038	387	468	6	173	4	0	0	0
Newspaper, periodical, book, and directory publishers	5111	1 i	1 i	0	* i	* i	0	0	0	0
Software publishers	5112	1,037	386	468	6	173	4	0	0	0
Telecommunications	517	4 i	2 i	*	* i	1 i	0	0	0	0
Data processing, hosting, and related services	518	113	45	36 i	0	29	1	0	2	0
Other information	other 51	14	13	1	*	* i	0	0	0	0
Finance and insurance	52	10	10	0	0	0	0	0	0	0
Real estate and rental and leasing	53	* i	* i	0	0	0	0	0	0	0
Lessors of nonfinancial intangible assets (except copyrighted works)	533	0	0	0	0	0	0	0	0	0
Other real estate and rental and leasing	other 53	* i	* i	0	0	0	0	0	0	0
Professional, scientific, and technical services	54	15,400	7,610	863	662 i	6,033	83	8	134	7 i
Architectural, engineering, and related services	5413	1,872	306	52	46	1,372	31 i	1 i	63	* i
Computer systems design and related services	5415	1,161 i	175 i	156 i	* i	809 i	19 i	*	3 i	0
Scientific research and development services	5417	11,363	6,841	578	549 i	3,288	31	6	63	7 i
Biotechnology research and development	541711	3,168 i	2,320	270	398 i	157	4	1	16	3 i
Physical, engineering, and life sciences (except biotechnology) research and development	541712	7,440	4,482	309 i	150	2,454	12	5	23	4
Social sciences and humanities research and development	541720	756	40 i	0	0	677	15	0	24	0

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Other professional, scientific, and technical services	other 54	1,003	288 i	77	67	565	2 i	* i	5	* i
Health care services	621-23	96	75	D	D	1 i	0	0	1	0
Other nonmanufacturing	23, 44-45 (excluding 454111-12), 55-56, 624, 71-72, 81	D	D	D	0	D	23	0	0	0
All companies (number of domestic employees)	-	57,615	13,450	10,445	3,346	29,362	194	526	262	31
Small companies ^a										
5-499	-	10,897	3,823 i	2,106	551	4,114	126	11 i	138	29
5-99	-	6,262 i	2,533 i	874	308	2,337 i	96	6	97	10
5-49	-	4,513 i	2,063 i	455 i	156 i	1,662 i	79	5	83	10
5-9	-	1,207 i	505 i	42 i	24 i	576 i	46	1	10 i	3
10-24	-	1,605 i	661 i	172 i	77 i	615 i	19	2 i	53	6
25-49	-	1,700	896	240	55 i	471	14 i	3	20	* i
50-99	-	1,749	471 i	419	152	675 i	17 i	1 i	14 i	1
100-249	-	2,743	704	672	142	1,161	25 i	3	34	1 i
250-499	-	1,892	585	560 i	101	615	4	2 i	7	18
Medium and large companies										
500-999	-	1,722	646	593	66	393	10	1	13	* i
1,000-4,999	-	10,175	2,569 i	4,581	1,038	1,927	32	1 i	26	1 i
5,000-9,999	-	6,505	3,654	1,660	345	828	6 i	*	10	1 i
10,000-24,999	-	6,942	1,016	1,310	1,083	3,491	18	2	24	0
25,000 or more	-	21,374 i	1,743	195	263 i	18,609	4	510	50	0

* = 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 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. 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.

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