TABLE 28. Domestic R&D paid for by others and performed by the company, by industry and company size: 2014 (Millions of U.S. dollars)

	Company size (domestic employees)												
	_	All								1,000-	5,000-	10,000-	25,000 or
Industry	NAICS codes	companies	5-9 ^a	10-24	25–49	50–99	100-249	250–499	500-999	4,999	9,999	24,999	more
All industries	21–23, 31–33, 42–81	58,158	868 i	1,671 i	2,191 i	2,652 i	2,486	2,015	1,525	9,744	7,522	7,542	19,941 i
Manufacturing industries	31–33	40,655	180 i	512 i	391	1,545 i	932	897	967	6,484	4,223	6,255	18,270 i
Food	311	220	3	* i	* i	3 i	64	11 i	8	124	1	0	6
Beverages and tobacco products	312	101	0	0	D	* i	D	D	0	0	D	0	0
Textiles, apparel, and leather products	313–16	15 i	5 i	* i	1 i	6	3 i	1 i	* i	0	0	0	0
Wood products	321	12 i	* i	* i	0	* i	* i	0	6 i	0	0	4 i	0
Paper	322	12	0	0	1 i	1 i	7	3	0	0	0	0	0
Printing and related support activities	323	2 i	0	* i	* i	* i	1 i	0	0	0	0	0	0
Petroleum and coal products	324	5	0	1 i	0	* i	0	0	*	0	0	3	0
Chemicals	325	9,813	58 i	259	175	1,164 i	284	183	335	3,563	1,829	1,554	408 i
Basic chemicals	3251	295 i	*	25	23	18	59 i	2	44 i	D	4 i	D	4
Resins, synthetic rubber, fibers, and artificial synthetic fibers and filaments	3252	15 i	* i	1 i	3 i	D	1 i	1	0	*	0	D	0
Pesticides, fertilizers, and other agricultural	0202		·		٠.	2		·	ŭ		ŭ		· ·
chemicals	3253	464	0	2 i	0	0	* i	0	0	D	0	D	0
Pharmaceuticals and medicines	3254	8,966	49 i	207	146	1,134 i	219	181	290	3,049	1,805	1,482	404 i
Soaps, cleaning compounds, and toilet preparations	3256	16 i	0	11 i	0	1 i	2 i	0	2 i	1	0	0	*
Paints, coatings, adhesives, and other	3230	10 1	U	1111	U	1.1	21	U	21	ı	U	U	
chemicals	3255, 3259	56	8 i	12	3 i	D	3	*	0	3 i	19	D	*
Plastics and rubber products	326	158 i	1 i	3 i	29 i	15 i	18 i	8 i	35 i	49	0	1	0
Nonmetallic mineral products	327	24	* i	* i	5 i	* i	6	4	3 i	5	0	2	0
Primary metals	331	62	0	0	D	1 i	3 i	14 i	2	32	D	0	6
Fabricated metal products	332	130 i	2 i	5 i	16 i	26 i	16 i	8 i	2 i	18	37	0	0
Machinery	333	670	9 i	116 i	34 i	101 i	34	8	90 i	141	104	31	2
Agricultural implements	33311	39	D	* i	D	0	1 i	0	0	5	0	D	0
Semiconductor machinery	333295	120	0	0	0	D	D	0	D	D	0	0	0
Engines, turbines, and power transmission													
equipment	3336	62	1	3 i	5	9	1	4	D	0	D	0	D
Other machinery	other 333	448 i	D	113 i	D	D	D	4	D	D	D	D	D
Computer and electronic products	334	9,195	81 i	104 i	68	125	341	339	291	1,221	1,374	1,463	3,787
Communications equipment	3342	1,533 i	5 i	* i	* i	5	115	97	13	373 i	0	924 i	0
Semiconductors and other electronic													
components	3344	2,112	7 i	59 i	20	51	61	230	109	559	987	5	23
Navigational, measuring, electromedical, and control instruments	3345	5,387	64 i	42 i	43	63 i	148	11	86	263	387	516	3,764
Electromedical, electrotherapeutic,	3343	0,007	011	12 1	10	00 1	1 10		00	200	007	0.10	0,701
and irradiation apparatus	334510, 334517	220	57 i	9 i	7	1	96	3	23	12	10	1	0

TABLE 28. Domestic R&D paid for by others and performed by the company, by industry and company size: 2014 (Millions of U.S. dollars)

		Company size (domestic employees)											
	•	All								1,000-	5,000-	10,000-	25,000 or
Industry	NAICS codes	companies	5-9 ^a	10–24	25–49	50–99	100–249	250–499	500–999	4,999	9,999	24,999	more
Search, detection, navigation,													
guidance, aeronautical, and nautical													
systems and instruments	334511	4,876	5 i	19 i	13	32 i	41	1	2	219	265	515	3,764
Other measuring and controlling devices	other 3345	291	1 i	14 i	23	30	11	6	62	32	112	0	0
Other computer and electronic products	other 334	163 i	5 i	3 i	5	6 i	16 i	1	83 i	26 i	0	18	0
Electrical equipment, appliances,													
and components	335	187 i	2 i	6 i	15 i	13	15	8	2	40 i	0	86 i	0
Transportation equipment	336	19,485 i	4 i	3 i	22	75	11	156	145	1,233	873 i	2,910	14,053 i
Automobiles, bodies, trailers, and parts	3361–63	2,504	0	0	5	49	9	140	108 i	1,145	180	239	629 i
Aerospace products and parts	3364	15,881 i	D	3 i	D	19	1	3	D	87	D	2,670	12,360 i
Aircraft, aircraft engines, and aircraft													
parts	336411–13	14,881 i	D	3 i	D	D	1	3	D	D	D	D	12,360 i
Guided missiles, space vehicles, and													
related parts	336414–15, 336419	1,001 i	D	0	D	D	0	0	0	D	D	D	0
Military armored vehicles, tanks, and tank													
components	336992	8	*	* i	0	6	0	0	0	1	0	0	0
Other transportation	other 336	1,091 i	D	0	D	*	1	14	D	0	D	0	1,064 i
Furniture and related products	337	4 i	0	1 i	1 i	1 i	* i	* i	* i	0	0	0	0
Miscellaneous manufacturing	339	559	14 i	13 i	D	12	D	D	47	58	0	199	8
Medical equipment and supplies	3391	500	11 i	10	11 i	9	126 i	26 i	41	58	0	199	8
Other miscellaneous manufacturing	3399	60 i	3 i	3 i	D	3	D	D	6	* i	0	0	0
Nonmanufacturing industries	21–23, 42–81	17,504	688 i	1,159 i	1,800 i	1,108	1,554	1,118	559	3,260 i	3,299	1,287	1,671
Mining, extraction, and support activities	21	882	D	0	0	118	D	D	D	5	0	464	D
Utilities	22	52	0	0	3	0	* i	D	0	2	1	D	D
Wholesale trade	42	10 i	* i	6 i	2 i	* i	2 i	0	0	0	0	0	0
Electronic shopping and electronic auctions	454111–12	0	0	0	0	0	0	0	0	0	0	0	0
Transportation and warehousing	48–49	4	0	0	0	0	0	0	3	0	0	0	*
Information	51	1,477	D	45 i	46 i	61	123 i	64	D	47	0	D	710
Publishing	511	1,270	D	24 i	28	17 i	118 i	14	18	45	0	D	676
Newspaper, periodical, book, and													
directory publishers	5111	0	0	0	0	0	0	0	0	0	0	0	0
Software publishers	5112	1,270	D	24 i	28	17 i	118 i	14	18	45	0	D	676
Telecommunications	517	45	10 i	* i	13 i	18	0	3	0	0	0	0	0
Data processing, hosting, and													
related services	518	103	D	11 i	3 i	21	5 i	3	D	2	0	0	34
Other information	other 51	59	0	9 i	2 i	3	* i	44	0	0	0	0	0
Finance and insurance	52	32	0	0	0	0	1	0	0	0	0	0	32
Real estate and rental and leasing	53	* i	0	0	0	0	0	* i	0	0	0	0	0
Lessors of nonfinancial intangible assets													
(except copyrighted works)	533	0	0	0	0	0	0	0	0	0	0	0	0

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		Company size (domestic employees)											
Industry	NAICS codes	All companies	5-9 ^a	10–24	25–49	50–99	100–249	250–499	500–999	1,000- 4,999	5,000- 9,999	10,000– 24,999	25,000 or more
Other real estate and rental and leasing	other 53	* j	0	0	0	0	0	* i	0	0	0	0	0
Professional, scientific, and technical													
services	54	14,914	658 i	1,094 i	1,745 i	913	1,345	1,023	406	3,183 i	3,298	477	771
Architectural, engineering, and related													
services	5413	1,871	141 i	69 i	161	126 i	173	44	21	184	135	66	751
Computer systems design and related													
services	5415	2,375 i	241 i	324 i	986 i	271 i	219	228	85 i	21	0	0	0
Scientific R&D services	5417	10,139	266 i	608	561	431	880	621	210	2,969 i	3,163	411	18 i
Biotechnology R&D	541711	2,767	D	171	D	34	D	0	0	D	1,531	0	18 i
Physical, engineering, and life													
sciences (except biotechnology) R&D	541712	6,720	208 i	429	470	389	760	621	210	1,591 i	1,632	411	0
Social sciences and humanities R&D	541720	651	D	9	D	8	D	0	0	D	0	0	0
Other professional, scientific, and													
technical services	other 54	529	9 i	93	36	86	72	131	91	10	0	0	2
Health care services	621–23	62 i	D	8	2 i	11 i	27	2 i	1 i	D	0	1 i	D
Other nonmanufacturing	23, 44–45 (excluding 454111–12), 55–56,												
	624, 71–72, 81	70	1 i	6	3	5	D	D	0	D	0	0	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 = 2012 North American Industry Classification System.

NOTES: Detail may not add to total because of rounding. Industry classification is based on the dominant business code for domestic R&D performance, where available. For companies that did not report business codes, the 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, 2014.

^a Upper bound is based on the U.S. Small Business Administration's definition of a small business; the Business R&D and Innovation Survey does not include companies with fewer than five domestic employees.