

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)

Industry	NAICS codes	Company size (domestic employees)											
		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
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 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 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, and irradiation apparatus	334510, 334517	220	57 i	9 i	7	1	96	3	23	12	10	1	0

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Other real estate and rental and leasing	other 53	* i	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.

^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.

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.