

TABLE 11. Domestic R&amp;D paid for by the company and others and performed by the company, by character of work, industry, and company size: 2014

(Millions of U.S. dollars)

Industry and company size	NAICS code	Total	Basic research	Applied research	Development
All industries	21–23, 31–33, 42–81	340,728	21,936	53,415	265,377
Manufacturing industries	31–33	232,815	17,822	36,585	178,408
Food	311	5,292 i	689 i	1,087 i	3,516
Beverages and tobacco products	312	920	D	D	D
Textiles, apparel, and leather products	313–16	631	45	75	511
Wood products	321	362 i	16 i	80 i	267 i
Printing and related support activities	323	234	5 i	73	156 i
Chemicals	325	66,301	9,037	13,837	43,427
Pharmaceuticals and medicines	3254	56,612	8,101	11,346	37,165
Other chemicals	other 325	9,688	936	2,490	6,262
Plastics and rubber products	326	3,574	433	897	2,244
Nonmetallic mineral products	327	1,445 i	202 i	347 i	896 i
Primary metals	331	677	52 i	131 i	494 i
Fabricated metal products	332	2,131 i	160 i	347 i	1,623 i
Machinery	333	12,128	626	1,312	10,190
Computer and electronic products	334	73,891	2,792	8,740 i	62,358 i
Semiconductor and other electronic components	3344	32,142	1,199	4,088 i	26,855 i
Navigational, measuring, electromedical, and control instruments	3345	15,963	841	2,032	13,090
Other computer and electronic products	other 334	25,786	752 i	2,621 i	22,413 i
Electrical equipment, appliances, and components	335	4,365	140	590	3,635
Transportation equipment	336	46,746	2,911 i	7,141	36,693
Aerospace products and parts	3364	26,181 i	1,988 i	4,553 i	19,640 i
Other transportation equipment	other 336	20,565	923	2,588	17,054
Furniture and related products	337	373	22	87	264
Miscellaneous manufacturing	322, 324, 339	13,746	D	D	D
Nonmanufacturing industries	21–23, 42–81	107,913	4,114	16,830	86,970
Information	51	63,773	2,105	6,137	55,530
Publishing	511	36,140	1,208	3,260	31,672
Telecommunications	517	3,755	312	1,114	2,328
Data processing, hosting, and related services	518	9,029	415	862	7,751
Other information	other 51	14,849	170	900	13,779
Professional, scientific, and technical services	54	30,975 i	1,572 i	8,777	20,626 i
Architectural, engineering, and related services	5413	3,375	254 i	1,227	1,893 i
Computer systems design and related services	5415	11,019 i	373 i	1,493 i	9,153 i
Scientific R&D services	5417	12,807	801 i	5,583	6,424 i
Biotechnology R&D	541711	3,459	81 i	785	2,593 i
Physical, engineering, and life sciences (except biotechnology) R&D	541712	8,670	650 i	4,344	3,676 i
Social sciences and humanities R&D	541720	678	69 i	454 i	154 i

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Industry and company size	NAICS code	Total	Basic research	Applied research	Development
Other professional, scientific, and technical services	other 54	3,775	144	474	3,157 i
Other nonmanufacturing	21-23, 42-49, 52, 53, 55-81	13,166	437	1,916	10,813
All companies (number of domestic employees)	-	340,728	21,936	53,415	265,377
Small companies <sup>a</sup>					
5-499	-	54,773	3,424	9,640	41,709 i
5-99	-	29,078 i	1,734 i	5,222 i	22,122 i
5-49	-	18,900 i	1,124 i	3,450 i	14,326 i
5-9	-	3,295 i	178 i	556 i	2,561 i
10-24	-	7,177 i	489 i	1,413 i	5,275 i
25-49	-	8,428 i	457 i	1,481 i	6,490 i
50-99	-	10,178 i	610 i	1,772 i	7,797 i
100-249	-	13,492	805	2,452	10,235
250-499	-	12,203	885	1,966	9,351
Medium and large companies					
500-999	-	13,262	795	2,274	10,193
1,000-4,999	-	57,551	4,424	10,489	42,638
5,000-9,999	-	38,202	1,640	5,956	30,607
10,000-24,999	-	54,445	2,815	9,334	42,296
25,000 or more	-	122,495	8,838	15,723	97,935

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.

<sup>a</sup> 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.