

TABLE 10. Domestic R&D paid for by the company and others and performed by the company, by character of work, industry, and company size: 2012  
(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	302,250	13,293	50,755	238,202
Manufacturing industries	31-33	208,415	9,119	35,514	163,781
Food	311	4,092	143	1,621	2,328
Beverage and tobacco products	312	D	D	210	D
Textile, apparel, and leather products	313-16	560	68	63 i	428 i
Wood products	321	461 i	30 i	142 i	290 i
Printing and related support activities	323	256 i	D	64 i	D
Chemicals	325	57,225	3,964	16,640	36,621
Pharmaceuticals and medicines	3254	48,146	3,325	14,652	30,169
Other chemicals	other 325	9,080	639	1,988	6,452
Plastics and rubber products	326	3,509	444	799	2,267
Nonmetallic mineral products	327	1,327 i	D	319 i	D
Primary metals	331	741	36 i	105 i	600 i
Fabricated metal products	332	1,833 i	56 i	204 i	1,574 i
Machinery	333	14,254	688	1,398	12,169
Computer and electronic products	334	65,068	1,556	7,120	56,392
Semiconductor and other electronic components	3344	27,331	663 i	3,031 i	23,637
Navigational, measuring, electromedical, and control instruments	3345	15,949	491	2,043	13,415
Other computer and electronic products	other 334	21,788	401	2,046	19,341
Electrical equipment, appliances, and components	335	3,087	154	555	2,378
Transportation equipment	336	42,305	952	4,295	37,058
Aerospace products and parts	3364	24,817 i	350	2,085	22,381 i
Other transportation equipment	other 336	17,488	602	2,209	14,677
Furniture and related products	337	348	6 i	79	263
Miscellaneous manufacturing	322, 324, 339	D	D	1,900	9,977
Nonmanufacturing industries	21-23, 42-81	93,835	4,174	15,241	74,421
Information	51	46,805	1,868	4,033	40,903
Publishing	511	28,987	1,289	2,673	25,025
Telecommunications	517	2,824 i	295 i	383 i	2,146 i
Data processing, hosting, and related services	518	4,913	100	388	4,425
Other information	other 51	10,082	185	588	9,308
Professional, scientific, and technical services	54	34,309	1,966	8,825 i	23,517 i
Architectural, engineering, and related services	5413	2,513 i	121 i	300 i	2,092 i
Computer systems design and related services	5415	11,251 i	277 i	1,324 i	9,650 i
Scientific research and development services	5417	16,544	1,406	6,560 i	8,577
Biotechnology research and development	541711	7,387	805	2,426	4,156
Physical, engineering, and life sciences (except biotechnology) research and development	541712	8,559	559	3,725 i	4,274
Social sciences and humanities research and development	541720	598	42 i	410 i	147 i
Other professional, scientific, and technical services	other 54	4,001	162	641 i	3,198
Other nonmanufacturing	21-23, 42-49, 52-53, 55-81	12,721	339	2,382	10,000
All companies (number of domestic employees)	-	302,250	13,293	50,755	238,202
Small companies <sup>a</sup>					
5-499	-	49,961	2,782	9,708	37,471 i
5-99	-	26,217 i	1,512 i	5,113 i	19,592 i
5-49	-	17,035 i	897 i	3,455 i	12,683 i
5-9	-	2,926 i	127 i	577 i	2,221 i
10-24	-	6,915 i	354 i	1,360 i	5,201 i
25-49	-	7,195 i	416	1,518 i	5,261 i
50-99	-	9,182 i	615	1,658	6,909 i
100-249	-	12,480	682	2,564	9,234
250-499	-	11,264	589	2,031	8,644
Medium and large companies					
500-999	-	11,484	567	2,193	8,723
1,000-4,999	-	50,691	1,876	8,273	40,543

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5,000–9,999	–	30,483	1,096	6,161	23,227
10,000–24,999	–	49,493	2,516 i	7,595 i	39,381
25,000 or more	–	110,138	4,457	16,824	88,858

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.

<sup>a</sup> The 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. The 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, 2012.