

TABLE 17. Domestic R&D paid for 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	247,280	11,163	39,629	196,488
Manufacturing industries	31–33	170,197	8,214	29,935	132,047
Food	311	3,921	142	1,559	2,220
Beverage and tobacco products	312	688	123	189	376
Textile, apparel, and leather products	313–16	537	68	63 i	406 i
Wood products	321	453 i	30 i	142 i	281 i
Printing and related support activities	323	253 i	17 i	64 i	173 i
Chemicals	325	50,867	3,599	14,697	32,571
Pharmaceuticals and medicines	3254	42,594	3,034	12,911	26,649
Other chemicals	other 325	8,273	565	1,787	5,921
Plastics and rubber products	326	3,171	387	738	2,047
Nonmetallic mineral products	327	1,293 i	186 i	303 i	805 i
Primary metals	331	686	29 i	96 i	561 i
Fabricated metal products	332	1,720 i	54 i	197 i	1,468 i
Machinery	333	13,294	677	1,214	11,403
Computer and electronic products	334	56,677	1,316 i	6,264 i	49,098
Semiconductor and other electronic components	3344	25,957	631 i	2,949 i	22,376 i
Navigational, measuring, electromedical, and control instruments	3345	10,603	330 i	1,362	8,912
Other computer and electronic products	other 334	20,117	355	1,952	17,810
Electrical equipment, appliances, and components	335	2,900	150	541	2,209
Transportation equipment	336	21,344	757	1,957	18,630
Aerospace products and parts	3364	7,140	312	1,143	5,684
Other transportation equipment	other 336	14,204	445	814	12,945
Furniture and related products	337	348	6 i	79	263
Miscellaneous manufacturing	322, 324, 339	12,046	674 i	1,832	9,539
Nonmanufacturing industries	21–23, 42–81	77,083	2,948	9,693	64,441
Information	51	45,851	1,840	3,606	40,405
Publishing	511	28,253	1,267	2,293	24,693
Telecommunications	517	2,768 i	295 i	383 i	2,090 i
Data processing, hosting, and related services	518	4,801	100	366	4,335
Other information	other 51	10,030	179	564	9,287
Professional, scientific, and technical services	54	20,166	863	4,469	14,834 i
Architectural, engineering, and related services	5413	1,123	44 i	223	857
Computer systems design and related services	5415	9,163 i	223 i	1,003 i	7,937 i
Scientific research and development services	5417	6,788	487	2,769	3,531
Biotechnology research and development	541711	4,370	374	1,828	2,168
Physical, engineering, and life sciences (except biotechnology) research and development	541712	2,398	113	932	1,354
Social sciences and humanities research and development	541720	20 i	1 i	10 i	10 i
Other professional, scientific, and technical services	other 54	3,092	110 i	474 i	2,508
Other nonmanufacturing	21–23, 42–49, 52–53, 55–81	11,066	245	1,618	9,202
All companies (number of domestic employees)	–	247,280	11,163	39,629	196,488
Small companies ^a					
5–499	–	39,388	2,028	7,370	29,991 i
5–99	–	19,958 i	1,075 i	3,618 i	15,265 i
5–49	–	12,670 i	602 i	2,368 i	9,699 i
5–9	–	1,966 i	77 i	369 i	1,521 i
10–24	–	4,985 i	215 i	866 i	3,904 i
25–49	–	5,718 i	311 i	1,133 i	4,275 i
50–99	–	7,288 i	472	1,250	5,566 i
100–249	–	9,899	519	2,063	7,317
250–499	–	9,531	434	1,688	7,409

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Medium and large companies					
500-999	-	10,227	474	1,757	7,996
1,000-4,999	-	43,025	1,557	5,539	35,929
5,000-9,999	-	23,821	710	3,791	19,320
10,000-24,999	-	43,119	2,348 i	7,089 i	33,682
25,000 or more	-	87,698	4,045	14,082	69,570

i = > 50% of the estimate is a combination of imputation and reweighting to account for nonresponse

NAICS = 2007 North American Industry Classification System.

^a 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 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.