

TABLE 16. Domestic R&D paid for and performed by the company, by character of work, industry, and company size: 2011  
(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	238,768	10,735	37,573	190,460
Manufacturing industries	31-33	163,340	7,594	28,541	127,205
Food	311	4,204	182	1,537	2,484
Beverage and tobacco products	312	684	108	180	396
Textile, apparel, and leather products	313-316	600	60	62	479
Wood products	321	202	17 i	49	135
Printing and related support activities	323	174	6	28	140
Chemicals	325	49,988	3,536	13,911	32,540
Pharmaceuticals and medicines	3254	41,111	2,878	11,920	26,314
Other chemicals	other 325	8,876	659	1,991	6,226
Plastics and rubber products	326	1,973	88	276	1,609
Nonmetallic mineral products	327	1,145	153 i	258 i	734
Primary metals	331	591	26	106	460
Fabricated metal products	332	1,738	49	184	1,505
Machinery	333	13,578	527	1,367	11,684
Computer and electronic products	334	53,664	1,268	6,265	46,131
Semiconductor and other electronic components	3344	22,855	567	2,579	19,709
Navigational, measuring, electromedical, and control instruments	3345	10,643	360	1,235	9,047
Other computer and electronic products	other 334	20,166	340	2,451	17,375
Electrical equipment, appliances, and components	335	3,417	159	485	2,772
Transportation equipment	336	20,275	818	2,037	17,419
Aerospace products and parts	3364	7,585	307	888	6,391
Other transportation equipment	other 336	12,690	511	1,150	11,029
Furniture and related products	337	317	13	35	269
Miscellaneous manufacturing	322, 324, 339	10,790	583 i	1,759	8,448
Nonmanufacturing industries	21-23, 42-81	75,428	3,141	9,032	63,255
Information	51	41,014	1,499 i	3,547	35,968
Publishing	511	27,748	1,201	2,476	24,072
Telecommunications	517	2,040	185 i	244 i	1,611 i
Data processing, hosting, and related services	518	4,257	57	524	3,675
Other information	other 51	6,969	55	304	6,610
Professional, scientific, and technical services	54	23,368	975	4,045	18,348
Architectural, engineering, and related services	5413	1,808	85	289	1,434
Computer systems design and related services	5415	11,706	217	1,007	10,482
Scientific research and development services	5417	6,170	564	2,036	3,569
Biotechnology research and development	541711	4,283	488	1,377	2,418
Physical, engineering, and life sciences (except biotechnology) research and development	541712	1,871	73	653	1,144
Social sciences and humanities research and development	541720	17 i	3 i	7 i	7 i
Other professional, scientific, and technical services	other 54	3,684	108 i	713 i	2,862 i
Other nonmanufacturing	21-23, 42-49, 52, 53, 55-81	11,047	668 i	1,440	8,940
All companies (number of domestic employees)	-	238,768	10,735	37,573	190,460
Small companies <sup>a</sup>					
5-499	--	46,509	1,925	8,018	36,566
5-99	--	24,928	927	4,199	19,803
5-49	-	17,317	598	3,009	13,710
5-9	-	2,981	104	575	2,302
10-24	-	4,907	179	860	3,868
25-49	-	9,429	315	1,574	7,540
50-99	-	7,611	328	1,190	6,093
100-249	-	10,433	563	1,807	8,063
250-499	-	11,149	435	2,013	8,701

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Medium and large companies					
500-999	-	8,739	332	1,138	7,269
1,000-4,999	-	42,905	1,590	6,570	34,745
5,000-9,999	-	18,659	663	2,085	15,911
10,000-24,999	-	42,585	2,631	6,374	33,580
25,000 or more	-	79,370	3,595	13,387	62,388

i = value > 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> Upper bound based on U.S. Small Business Administration's definition of a small business; 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 based on dominant business code for domestic R&D performance where available. For companies that did not report business codes, 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, 2011.