

TABLE 27

Domestic R&D paid for and performed by the company, by type of R&D, industry, and company size: 2017

(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	339,036	18,732	49,149	271,155
Manufacturing industries	31-33	216,155	14,016	36,658	165,480
Food	311	4,453	452	1,439	2,562
Beverage and tobacco products	312	968	131	235	602
Textile, apparel, and leather products	313-16	919	35	78	805
Wood products	321	170	11	38	121
Printing and related support activities	323	218	16	52	150
Chemicals	325	63,285	7,476	15,286	40,522
Pharmaceuticals and medicines	3254	55,229	6,768	13,507	34,953
Other chemicals	other 325	8,057	708	1,779	5,569
Plastics and rubber products	326	3,637	375	770	2,493
Nonmetallic mineral products	327	1,303	158	274	872
Primary metals	331	741	35	79	626
Fabricated metal products	332	2,099	185	333	1,581
Machinery	333	12,257	610	1,439	10,209
Computer and electronic products	334	69,942	2,024	9,818	58,100
Semiconductor and other electronic components	3344	27,859	838	4,276	22,744
Navigational, measuring, electromedical, and control instruments	3345	10,089	608	1,588	7,893
Other computer and electronic products	other 334	31,994	578	3,953	27,464
Electrical equipment, appliances, and components	335	4,110	299	686	3,125
Transportation equipment	336	34,629	1,532	3,825	29,271
Aerospace products and parts	3364	11,903	481	1,846	9,576
Other transportation equipment	other 336	22,726	1,051	1,979	19,695
Furniture and related products	337	419	32	77	310
Miscellaneous manufacturing	322, 324, 339	17,004	645	2,229	14,130
Nonmanufacturing industries	21-23, 42-81	122,881	4,716	12,490	105,675
Information	51	78,898	2,072	7,290	69,536
Publishing	511	33,276	1,007	2,433	29,835
Telecommunications	517	3,643	188 - 269	1,454 - 1,512	1,863 - 2,001
Data processing, hosting, and related services	518	16,037	682	1,993	13,362
Other information	other 51	25,943	114 - 195	1,351 - 1,409	24,339 - 24,476
Professional, scientific, and technical services	54	18,972	1,252	3,122	14,598
Architectural, engineering, and related services	5413	1,561	191	361	1,009
Computer systems design and related services	5415	11,669	760	1,807	9,101
Scientific research and development services	5417	2,817	204	537	2,076
Biotechnology research and development	541711	795	91	120	585
Physical, engineering, and life sciences (except biotechnology) research and development	541712	1,936	112	388	1,435
Social sciences and humanities research and development	541720	86	1	29	56
Other professional, scientific, and technical services	other 54	2,925	97	417	2,411
Other nonmanufacturing	21-23, 42-49, 52, 53, 55-81	25,011	1,391	2,079	21,541
All companies (number of domestic employees)	-	339,036	18,732	49,149	271,155
Small companies					
10-19 ^a	-	2,402	241	531	1,630
20-49	-	7,593	898	1,387	5,307
Medium companies					
50-99	-	8,070	577	1,721	5,772

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100-249	-	13,514	923	2,503	10,088
Large companies					
250-499	-	11,773	831	1,748	9,193
500-999	-	16,295	1,081	2,697	12,517
1,000-4,999	-	52,341	3,114	8,507	40,719
5,000-9,999	-	32,701	1,922	4,121	26,659
10,000-24,999	-	63,415	3,275 i	10,959 i	49,181 i
25,000 or more	-	130,931	5,870	14,973	110,088

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

NAICS = 2012 North American Industry Classification System.

^a Business Research and Development Survey does not include companies with fewer than 10 domestic employees.**Note(s)**

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. An estimate range may be displayed in place of a single estimate to avoid disclosing operations of individual companies.

Source(s)

National Center for Science and Engineering Statistics and U.S. Census Bureau, Business Research and Development Survey, 2017.