

TABLE 27

Domestic R&D paid for and performed by the company, by type of R&D, industry, and company size: 2016

(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	317,731	19,143	48,806	249,782
Manufacturing industries	31-33	211,660	14,841	35,845	160,974
Food	311	4,611	494	1,399	2,718
Beverages and tobacco products	312	987	143	231	613
Textiles, apparel, and leather products	313-16	1,156	84	117	955
Wood products	321	181	13	43	125
Printing and related support activities	323	219	31	33	155
Chemicals	325	64,165	8,027	14,290	41,847
Pharmaceuticals and medicines	3254	55,983	7,276	12,636	36,071
Other chemicals	other 325	8,181	751	1,654	5,776
Plastics and rubber products	326	3,584	342	868	2,373
Nonmetallic mineral products	327	1,274	149	287	838
Primary metals	331	583	65	114	403
Fabricated metal products	332	2,127	118	399	1,610
Machinery	333	11,699	638	1,400	9,661
Computer and electronic products	334	68,515	2,103	8,966	57,447
Semiconductors and other electronic components	3344	29,176	796	4,225	24,155
Navigational, measuring, electromedical, and control instruments	3345	10,131	668	1,525	7,938
Other computer and electronic products	other 334	29,208	639	3,215	25,354
Electrical equipment, appliances, and components	335	4,302	308	697	3,296
Transportation equipment	336	32,905	1,579	4,413	26,913
Aerospace products and parts	3364	12,272	552	1,834	9,885
Other transportation equipment	other 336	20,633	1,027	2,578	17,028
Furniture and related products	337	366	16	85	265
Miscellaneous manufacturing	322, 324, 339	14,986	729	2,502	11,755
Nonmanufacturing industries	21-23, 42-81	106,071	4,302	12,961	88,808
Information	51	70,075	1,942	6,695	61,438
Publishing	511	33,174	1,072	2,820	29,282
Telecommunications	517	3,530	377	1,359	1,795
Data processing, hosting, and related services	518	11,776	427	1,390	9,958
Other information	other 51	21,594	66	1,125	20,403
Professional, scientific, and technical services	54	20,845	1,332	4,481	15,032
Architectural, engineering, and related services	5413	1,816	231	600	985
Computer systems design and related services	5415	13,255	665	2,429	10,161
Scientific research and development services	5417	2,811	315	831	1,665
Biotechnology research and development	541711	750	114	216	421
Physical, engineering, and life sciences (except biotechnology) research and development	541712	2,029	197	610	1,223
Social sciences and humanities research and development	541720	32	5	6	22
Other professional, scientific, and technical services	other 54	2,962	121	621	2,221
Other nonmanufacturing	21-23, 42-49, 52, 53, 55-81	15,152	1,029	1,786	12,337
All companies (number of domestic employees)	-	317,731	19,143	48,806	249,782
Micro companies ^a					
5 - 9	-	1,044	136	308	600
Small companies					
10 - 19	-	3,887	286	1,082	2,518
20 - 49	-	7,473	630	2,119	4,724
Medium companies					
50 - 99	-	7,728	742	1,776	5,210
100 - 249	-	11,722	774	2,523	8,424

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Large companies					
250 – 499	–	11,438	674	2,336	8,427
500 – 999	–	13,525	1,129	2,112	10,285
1,000 – 4,999	–	53,305	3,008	8,908	41,388
5,000 – 9,999	–	35,887	1,872	3,391	30,623
10,000 – 24,999	–	53,384	3,073	10,240	40,072
25,000 or more	–	118,339	6,818	14,010	97,511

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 R&D and Innovation Survey does not include companies with fewer than five 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.

Source(s)

National Science Foundation, National Center for Science and Engineering Statistics, and U.S. Census Bureau, Business R&D and Innovation Survey, 2016.