

TABLE 12

Domestic R&D paid for by the company and others and performed by the company, by type of R&D, industry, and company size: 2015

(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	355,821	21,792	56,472	277,558
Manufacturing industries	31-33	236,132	16,756	39,583	179,793
Food	311	4,838	450	1,512	2,876
Beverages and tobacco products	312	1,002	122	253	627
Textiles, apparel, and leather products	313-16	748	56	85	607
Wood products	321	195	13	25	157
Printing and related support activities	323	196	4	25	168
Chemicals	325	68,196	8,317	16,047	43,833
Pharmaceuticals and medicines	3254	58,675	7,171	13,356	38,148
Other chemicals	other 325	9,521	1,146	2,690	5,685
Plastics and rubber products	326	2,541	133	365	2,043
Nonmetallic mineral products	327	1,259	137	273	848
Primary metals	331	628	46	112	470
Fabricated metal products	332	2,261	92	364	1,805
Machinery	333	13,426	672	1,550	11,204
Computer and electronic products	334	72,110	2,338	8,973	60,799
Semiconductors and other electronic components	3344	30,451	750	4,469	25,232
Navigational, measuring, electromedical, and control instruments	3345	14,128	606	1,942	11,581
Other computer and electronic products	other 334	27,530	982	2,562	23,986
Electrical equipment, appliances, and components	335	4,335	141	616	3,579
Transportation equipment	336	49,274	3,605	7,165	38,504
Aerospace products and parts	3364	27,464	2,121	3,730	21,613
Other transportation equipment	other 336	21,810	1,484	3,435	16,892
Furniture and related products	337	452	26	119	308
Miscellaneous manufacturing	322, 324, 339	14,670	604	2,100	11,966
Nonmanufacturing industries	21-23, 42-81	119,690	5,036	16,889	97,765
Information	51	65,513	1,627	6,511	57,374
Publishing	511	33,346	1,001	2,851	29,493
Telecommunications	517	3,607	295	1,200	2,111
Data processing, hosting, and related services	518	9,416	247	1,469	7,699
Other information	other 51	19,144	84	990	18,070
Professional, scientific, and technical services	54	38,626	2,240	8,264	28,122
Architectural, engineering, and related services	5413	4,128	403	1,700	2,025
Computer systems design and related services	5415	14,333	494	2,302	11,537
Scientific research and development services	5417	16,329	1,186	3,877	11,266
Biotechnology research and development	541711	5,693	673	869	4,152
Physical, engineering, and life sciences (except biotechnology) research and development	541712	9,931	456	2,537	6,938
Social sciences and humanities research and development	541720	705	57	472	177
Other professional, scientific, and technical services	other 54	3,835	157	385	3,293
Other nonmanufacturing	21-23, 42-49, 52, 53, 55-81	15,551	1,169	2,113	12,268
All companies (number of domestic employees)	-	355,821	21,792	56,472	277,558
Micro companies ^a					
5-9	-	2,988	177	732	2,079
Small companies					
10-19	-	5,680	434	1,239	4,007
20-49	-	10,249	655	2,221	7,373
Medium companies					
50-99	-	11,509	635	1,912	8,962

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100–249	–	13,602	1,068	2,963	9,571
Large companies					
250–499	–	13,553	658	2,571	10,323
500–999	–	15,217	975	2,546	11,696
1,000–4,999	–	58,094	4,257	11,061	42,777
5,000–9,999	–	38,838	1,907	5,196	31,735
10,000–24,999	–	59,328	3,500	9,460	46,367
25,000 or more	–	126,763	7,526	16,571	102,666

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, 2015.