

TABLE 43

Domestic R&D paid for by the U.S. federal government 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	23,772	2,005	5,181	16,586
Manufacturing industries	31-33	19,217	1,596	2,920	14,701
Food	311	2	*	*	1
Beverages and tobacco products	312	0	0	0	0
Textiles, apparel, and leather products	313-16	5	*	2	3
Wood products	321	*	0	*	*
Printing and related support activities	323	*	*	*	*
Chemicals	325	212	16	58	137
Pharmaceuticals and medicines	3254	147	9	41	97
Other chemicals	other 325	65	7	18	40
Plastics and rubber products	326	4	1	*	3
Nonmetallic mineral products	327	6	*	2	4
Primary metals	331	6	*	*	6
Fabricated metal products	332	12	*	7	5
Machinery	333	152	1	9	142
Computer and electronic products	334	4,410	192	685	3,533
Semiconductors and other electronic components	3344	278	*	4	274
Navigational, measuring, electromedical, and control instruments	3345	3,320	52	527	2,740
Other computer and electronic products	other 334	812	140	154	519
Electrical equipment, appliances, and components	335	46	*	4	42
Transportation equipment	336	14,325	1,382	2,144	10,800
Aerospace products and parts	3364	12,904	D	D	10,055
Other transportation equipment	other 336	1,421	D	D	745
Furniture and related products	337	*	0	0	*
Miscellaneous manufacturing	322, 324, 339	36	4	9	24
Nonmanufacturing industries	21-23, 42-81	4,555	409	2,261	1,885
Information	51	25	8	11	6
Publishing	511	7	1	2	4
Telecommunications	517	*	0	0	*
Data processing, hosting, and related services	518	16	6	9	*
Other information	other 51	2	*	*	1
Professional, scientific, and technical services	54	4,496	401	2,247	1,849
Architectural, engineering, and related services	5413	964	68	664	231
Computer systems design and related services	5415	583	28	175	380
Scientific research and development services	5417	2,675	248	1,328	1,099
Biotechnology research and development	541711	93	13	28	52
Physical, engineering, and life sciences (except biotechnology) research and development	541712	1,956	D	D	875
Social sciences and humanities research and development	541720	626	D	D	171
Other professional, scientific, and technical services	other 54	274	56	79	138
Other nonmanufacturing	21-23, 42-49, 52, 53, 55-81	34	*	3	31
All companies (number of domestic employees)	-	23,772	2,005	5,181	16,586
Micro companies ^a					
5-9	-	263	35	93	134
Small companies					
10-19	-	393	45	115	232
20-49	-	899	38	172	690
Medium companies					
50-99	-	451	90	126	235

TABLE 43

Domestic R&D paid for by the U.S. federal government 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
100-249	-	839	82	263	494
Large companies					
250-499	-	462	30	215	217
500-999	-	258	13	75	170
1,000-4,999	-	1,134	52 i	733 i	350 i
5,000-9,999	-	1,132 i	2	131 i	999 i
10,000-24,999	-	3,994	195 i	567 i	3,232
25,000 or more	-	13,948 i	1,423 i	2,692 i	9,834

* = amount < \$500,000; D = data withheld to avoid disclosing operations of individual companies; 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.