

TABLE 46

Domestic R&D paid for by the company's foreign subsidiaries 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 ^a	Applied research ^a	Development ^a
All industries	21-23, 31-33, 42-81	19,240	799	1,838	16,603
Manufacturing industries	31-33	15,012	551	1,453	13,008
Food	311	88	9	2	77
Beverage and tobacco products	312	8	1	2	5
Textile, apparel, and leather products	313-16	1	*	0	1
Wood products	321	0	0	0	0
Printing and related support activities	323	0	0	0	0
Chemicals	325	3,243	427	381	2,434
Pharmaceuticals and medicines	3254	3,202	426	373	2,404
Other chemicals	other 325	40	2	8	30
Plastics and rubber products	326	47	* i	1 i	46
Nonmetallic mineral products	327	14	*	6	8
Primary metals	331	1	*	*	1
Fabricated metal products	332	2	0	*	2
Machinery	333	18	1 i	11	5 i
Computer and electronic products	334	10,960	62	968	9,930
Semiconductor and other electronic components	3344	1,098	44	121	932
Navigational, measuring, electromedical, and control instruments	3345	82	1	15	67
Other computer and electronic products	other 334	9,780	16	833	8,931
Electrical equipment, appliances, and components	335	171	37 i	32 i	102
Transportation equipment	336	170	10	27	134
Aerospace products and parts	3364	0 - 145	0 - 11	*	0 - 135
Other transportation equipment	other 336	26 - 171	0 - 11	26	0 - 135
Furniture and related products	337	8	0	5	2
Miscellaneous manufacturing	322, 324, 339	281	2	17	262
Nonmanufacturing industries	21-23, 42-81	4,229	248	386 i	3,595
Information	51	3,328	27	323 i	2,977
Publishing	511	767	10	304 i	453
Telecommunications	517	4	0	4	0
Data processing, hosting, and related services	518	188	0 - 18	0 - 17	154 - 189
Other information	other 51	2,368	0 - 18	0 - 17	2,334 - 2,369
Professional, scientific, and technical services	54	216	15	19 i	183
Architectural, engineering, and related services	5413	11	*	3	8
Computer systems design and related services	5415	143	9	10	124
Scientific research and development services	5417	49	1	6 i	42
Biotechnology research and development	541711	0	0	0	0

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Physical, engineering, and life sciences (except biotechnology) research and development	541712	49	1	6 i	42
Social sciences and humanities research and development	541720	0	0	0	0
Other professional, scientific, and technical services	other 54	12	3	*	8
Other nonmanufacturing	21-23, 42-49, 52, 53, 55-81	685	206	44	435
All companies (number of domestic employees)	-	19,240	799	1,838	16,603
Small companies					
10-19 ^b	-	58	0 - 17	0 - 17 i	42
20-49	-	135	0 - 18	0 - 18	118
Medium companies					
50-99	-	120	2	24	94
100-249	-	195	6 i	34	154 i
Large companies					
250-499	-	338	41	42	254
500-999	-	698	78 i	100	520
1,000-4,999	-	2,741	75	529 i	2,137
5,000-9,999	-	1,258 i	1	83 i	1,175 i
10,000-24,999	-	2,824	215	60	2,549
25,000 or more	-	10,873	342 - 385	927 - 970	9,560

* = amount < \$500,000; i = > 50% of the estimate is a combination of imputation and reweighting to account for nonresponse.

NAICS = 2012 North American Industry Classification System.

^a Respondent was not asked to report categorical breakouts of research and development paid for by foreign subsidiaries. Rather, ratios of the company's basic research, applied research, and development were calculated as proportions of the overall domestic R&D performance paid for by the company. These ratios were applied to the company's domestic R&D performance paid for by foreign subsidiaries to get estimates of a company's basic research, applied research, and development paid for by foreign subsidiaries.

^b 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.