

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: 2016

(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	11,120	400	1,787	8,933
Manufacturing industries	31-33	9,708	335	1,456	7,918
Food	311	114	1	10	103
Beverages and tobacco products	312	37	5	7	26
Textiles, apparel, and leather products	313-16	1	*	*	1
Wood products	321	0	0	0	0
Printing and related support activities	323	0	0	0	0
Chemicals	325	2,247	205	347	1,695
Pharmaceuticals and medicines	3254	2,218	202	339	1,677
Other chemicals	other 325	28	3	7	19
Plastics and rubber products	326	*	*	*	*
Nonmetallic mineral products	327	12	1	2	9
Primary metals	331	1	*	*	1
Fabricated metal products	332	17	*	7	10
Machinery	333	15	*	1	14
Computer and electronic products	334	6,820	84	1,026	5,710
Semiconductors and other electronic components	3344	1,085	59	430	595
Navigational, measuring, electromedical, and control instruments	3345	104	1	17	86
Other computer and electronic products	other 334	5,632	24	579	5,029
Electrical equipment, appliances, and components	335	120	28	28	65
Transportation equipment	336	78	6	7	65
Aerospace products and parts	3364	20	5	3	12
Other transportation equipment	other 336	58	1	4	53
Furniture and related products	337	0	0	0	0
Miscellaneous manufacturing	322, 324, 339	245	4	21	220
Nonmanufacturing industries	21-23, 42-81	1,411	65	331	1,015
Information	51	876	22	234	620
Publishing	511	563	6	191	365
Telecommunications	517	3	0	3	0
Data processing, hosting, and related services	518	D	D	40	D
Other information	other 51	D	D	*	D
Professional, scientific, and technical services	54	131	23	43	65
Architectural, engineering, and related services	5413	26	1	4	21
Computer systems design and related services	5415	47	8	7	32
Scientific research and development services	5417	58	15	32	11
Biotechnology research and development	541711	4	0	0	4
Physical, engineering, and life sciences (except biotechnology) research and development	541712	53	15	32	6
Social sciences and humanities research and development	541720	0	0	0	0
Other professional, scientific, and technical services	other 54	1	0	0	1
Other nonmanufacturing	21-23, 42-49, 52, 53, 55-81	404	19	55	330
All companies (number of domestic employees)	-	11,120	400	1,787	8,933
Micro companies ^b					
5-9	-	2	*	1	1
Small companies					
10-19	-	9	2	2	5
20-49	-	74	14	5	54
Medium companies					
50-99	-	132	27	8	97

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Industry and company size	NAICS code	Total	Basic research ^a	Applied research ^a	Development ^a
100-249	-	270	15	79	176
Large companies					
250-499	-	272	10	33	229
500-999	-	545	60	92	393
1,000-4,999	-	2,127	74	718	1,336
5,000-9,999	-	1,094	5	160	929
10,000-24,999	-	538	21	68	449
25,000 or more	-	6,056	171	620	5,265

* = 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 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 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.