

TABLE 36

## Domestic R&amp;D paid for by others and performed by the company, by type of R&amp;D, industry, and company size: 2017

(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	61,065	6,097	12,984	41,984	
Manufacturing industries	31-33	41,072	4,608	i 7,040	29,425	i
Food	311	244	14	79	151	
Beverage and tobacco products	312	107	11	21	75	
Textile, apparel, and leather products	313-16	1	*	1	1	
Wood products	321	5	*	1	4	
Printing and related support activities	323	11	1	* i	10	
Chemicals	325	11,692	2,717	1,735	7,241	
Pharmaceuticals and medicines	3254	10,973	2,594	1,383	6,997	
Other chemicals	other 325	719	123	352	244	i
Plastics and rubber products	326	117	*	1	115	
Nonmetallic mineral products	327	30	i 3	7	i 21	i
Primary metals	331	8	1	1	i 7	
Fabricated metal products	332	107	2	14	91	
Machinery	333	940	29	83	828	
Computer and electronic products	334	8,633	519	i 1,376	6,737	
Semiconductor and other electronic components	3344	2,289	85	443	1,761	
Navigational, measuring, electromedical, and control instruments	3345	4,420	118	519	3,783	
Other computer and electronic products	other 334	1,924	i 317	i 414	i 1,193	i
Electrical equipment, appliances, and components	335	181	*	22	159	
Transportation equipment	336	18,663	i 1,292	i 3,664	13,707	i
Aerospace products and parts	3364	14,480	i 1,135	i 1,936	i 11,409	i
Other transportation equipment	other 336	4,183	157	1,728	2,297	
Furniture and related products	337	3	0	*	3	
Miscellaneous manufacturing	322, 324, 339	329	18	34	277	
Nonmanufacturing industries	21-23, 42-81	19,993	1,489	5,944	12,560	
Information	51	1,354	170	336	847	
Publishing	511	1,062	88	268	706	
Telecommunications	517	40 - 163	0 - 79	0 - 57	0 - 39	
Data processing, hosting, and related services	518	119	4	12	103	
Other information	other 51	11 - 134	0 - 79	0 - 57	0 - 39	
Professional, scientific, and technical services	54	17,951	1,239	5,462	11,250	
Architectural, engineering, and related services	5413	1,147	70	607	470	
Computer systems design and related services	5415	1,658	139	435	1,084	
Scientific research and development services	5417	14,504	974	4,277	9,253	
Biotechnology research and development	541711	3,653	424	134	3,096	i
Physical, engineering, and life sciences (except biotechnology) research and development	541712	9,978	481	3,555	5,942	
Social sciences and humanities research and development	541720	873	69	i 589	i 215	i
Other professional, scientific, and technical services	other 54	641	56	142	443	
Other nonmanufacturing	21-23, 42-49, 52, 53, 55-81	688	80	i 146	i 463	i
All companies (number of domestic employees)	-	61,065	6,097	12,984	41,984	
Small companies						
10-19 <sup>a</sup>	-	909	69	183	657	
20-49	-	1,842	151	420	1,270	
Medium companies						
50-99	-	2,071	161	567	1,343	
100-249	-	3,703	502	1,128	2,072	

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(Millions of U.S. dollars)

Industry and company size	NAICS code	Total	Basic research	Applied research	Development
Large companies					
250–499	–	2,331	128	377	1,825
500–999	–	1,576	115	235	1,226
1,000–4,999	–	12,771	2,100	3,601	7,070
5,000–9,999	–	7,497	222	1,973	5,302
10,000–24,999	–	10,070	1,153	1,836	7,081
25,000 or more	–	18,295	i 1,496	i 2,664	i 14,135

\* = 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.

<sup>a</sup> 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.