

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: 2018

(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	24,685	2,510 i	5,097 i	17,078
Manufacturing industries	31-33	18,980	1,732 i	2,766 i	14,481
Food	311	* i	*	*	*
Beverage and tobacco products	312	0	0	0	0
Textile, apparel, and leather products	313-16	0	0	0	0
Wood products	321	* i	* i	* i	* i
Printing and related support activities	323	* i	* i	* i	* i
Chemicals	325	204	24	32	149
Pharmaceuticals and medicines	3254	188	23	25	140
Other chemicals	other 325	16	1	7	8
Plastics and rubber products	326	2	*	1	1
Nonmetallic mineral products	327	2	0	0	2
Primary metals	331	2 i	* i	* i	2 i
Fabricated metal products	332	3 i	* i	* i	3 i
Machinery	333	175	3	9 i	163
Computer and electronic products	334	5,174	146 i	690	4,338
Semiconductor and other electronic components	3344	50	* i	13	36 i
Navigational, measuring, electromedical, and control instruments	3345	4,198	85 i	598	3,515
Other computer and electronic products	other 334	927 i	61 i	78	787 i
Electrical equipment, appliances, and components	335	39	2 i	1 i	36 i
Transportation equipment	336	13,321 i	1,556 i	2,026 i	9,739
Aerospace products and parts	3364	12,167 i	1,539 i	1,888 i	8,740 i
Other transportation	other 336	1,154	17	138	999
Furniture and related products	337	3 i	* i	* i	2 i
Miscellaneous manufacturing	322, 324, 339	54	1	7	46
Nonmanufacturing industries	21-23, 42-81	5,705	778	2,331	2,597
Information	51	50	6	18	26
Publishing	511	36	5	17	14
Telecommunications	517	8	0	0	8
Data processing, hosting, and related services	518	5	* i	1 i	3
Other information	other 51	1 i	0	1 i	* i
Professional, scientific, and technical services	54	5,620	771	2,308	2,542
Architectural, engineering, and related services	5413	875	19	595	260
Computer systems design and related services	5415	493	29 i	205	258
Scientific research and development services	5417	3,920	676	1,462	1,783
Research and development in biotechnology	541711	77	0 - 38	11 - 49	29
Research and development in the physical, engineering, and life sciences (except biotechnology)	541712	3,215 - 3,324	248 - 359	1,278	1,688
Research and development in the social sciences and humanities	541720	518 - 627	280 - 403	134 - 172 i	66 i
Other professional, scientific, and technical services	other 54	332	47	45	241
Other nonmanufacturing	21-23, 42-49, 52, 53, 55-81	35	1	5	29
All companies (number of domestic employees)	-	24,685	2,510 i	5,097 i	17,078
Small companies					
10-19 ^a	-	462	28 i	180	253
20-49	-	759	36 i	183	540
Medium companies					
50-99	-	561	73	137	350

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100-249	-	1,378	144	416 i	818
Large companies					
250-499	-	1,016	122	257	637
500-999	-	128	26	34	68
1,000-4,999	-	1,462	385	567	510
5,000-9,999	-	1,175	8 i	31	1,136
10,000-24,999	-	2,161	83 i	226	1,853
25,000 or more	-	15,583	1,605 i	3,065 i	10,913

* = 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 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. Beginning in survey year 2018, statistics are representative of companies located in the United States that performed or funded \$50,000 or more of R&D. This change has affected the comparability of these estimates with estimates published for years prior to 2018. 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, 2018.