

TABLE 27

Domestic R&D paid for 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	377,806	22,312	53,229	302,264
Manufacturing industries	31-33	234,682	16,520	38,126	180,037
Food	311	4,412	416 i	1,374 i	2,621
Beverage and tobacco products	312	1,004	108	232	664
Textile, apparel, and leather products	313-16	986	55	82	849
Wood products	321	199	12	37	150
Printing and related support activities	323	238	18	37	183
Chemicals	325	73,584	9,763	17,274	46,546
Pharmaceuticals and medicines	3254	64,800	8,876	15,279	40,645
Other chemicals	other 325	8,784	887	1,996	5,901
Plastics and rubber products	326	2,667	168	452	2,048
Nonmetallic mineral products	327	1,361	198 i	299 i	864 i
Primary metals	331	817	38	119	659
Fabricated metal products	332	2,222	122	445	1,655
Machinery	333	13,765	888	1,594	11,283
Computer and electronic products	334	73,922	2,162	8,955	62,806
Semiconductor and other electronic components	3344	28,642	548 i	3,188 i	24,906 i
Navigational, measuring, electromedical, and control instruments	3345	10,864	790 i	1,545	8,529
Other computer and electronic products	other 334	34,416	823	4,223	29,371
Electrical equipment, appliances, and components	335	4,222	253	532	3,436
Transportation equipment	336	35,894	1,379	4,113	30,402
Aerospace products and parts	3364	11,160	403	1,356	9,401
Other transportation	other 336	24,735	976	2,757	21,001
Furniture and related products	337	404	25	60	319
Miscellaneous manufacturing	322, 324, 339	18,984	914	2,519	15,551
Nonmanufacturing industries	21-23, 42-81	143,123	5,793	15,104	122,227
Information	51	93,487	3,068	8,842	81,577
Publishing	511	32,281	1,492	3,129	27,659
Telecommunications	517	3,631	233	1,565	1,833
Data processing, hosting, and related services	518	23,115	948 - 1,029	2,250 - 2,329	19,837
Other information	other 51	34,459	313 - 394	1,818 - 1,897	32,248
Professional, scientific, and technical services	54	22,374	1,406	3,494	17,474
Architectural, engineering, and related services	5413	2,277	175	714	1,388
Computer systems design and related services	5415	13,633	853	1,869	10,910 i
Scientific research and development services	5417	2,424	264	475	1,685
Research and development in biotechnology	541711	820	91	186	543
Research and development in the physical, engineering, and life sciences (except biotechnology)	541712	1,577	171	270	1,136
Research and development in the social sciences and humanities	541720	27	1	20	6
Other professional, scientific, and technical services	other 54	4,041	115	435	3,491
Other nonmanufacturing	21-23, 42-49, 52, 53, 55-81	27,263 i	1,319 i	2,768	23,176 i
All companies (number of domestic employees)	-	377,806	22,312	53,229	302,264
Small companies					
10-19 ^a	-	3,340	308	718	2,315
20-49	-	9,556	805	2,163	6,589
Medium companies					
50-99	-	10,446	732	1,827	7,888

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Industry and company size	NAICS code	Total	Basic research	Applied research	Development
100-249	-	14,626	1,229	2,392	11,005
Large companies					
250-499	-	16,604	967	3,123	12,514
500-999	-	15,561	1,026	2,358	12,178
1,000-4,999	-	58,509	4,430	9,168	44,911
5,000-9,999	-	36,274	2,087	6,188	27,999
10,000-24,999	-	74,423	4,650	11,688	58,085
25,000 or more	-	138,465	6,079	13,606	118,781

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.