

TABLE 17. Domestic R&D paid for by the company and others and performed by the company, by character of work, industry, and company size: 2013 (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	322,528	19,508	51,014	252,007
Manufacturing industries	31-33	221,476	15,186	35,166	171,124
Food	311	5,028	761 i	1,178 i	3,089 i
Beverage and tobacco products	312	827	167	198	461
Textile, apparel, and leather products	313-16	662	62	57	543
Wood products	321	220	12	50	157
Printing and related support activities	323	252 i	15 i	32 i	206 i
Chemicals	325	61,664	7,308	13,894	40,462
Pharmaceuticals and medicines	3254	52,426	6,535	11,576	34,315
Other chemicals	other 325	9,238	773	2,318	6,147
Plastics and rubber products	326	3,650	390	863	2,397
Nonmetallic mineral products	327	1,329 i	190 i	296 i	843 i
Primary metals	331	624	32 i	110 i	482 i
Fabricated metal products	332	2,212 i	90 i	272 i	1,850 i
Machinery	333	12,650	576	995	11,079
Computer and electronic products	334	67,205	2,684	8,485	56,036
Semiconductor and other electronic components	3344	30,800	1,132	3,746	25,923
Navigational, measuring, electromedical, and control instruments	3345	14,478	724	2,221	11,534
Other computer and electronic products	other 334	21,926	829 i	2,519	18,579
Electrical equipment, appliances, and components	335	4,136	205	659	3,271
Transportation equipment	336	45,972	1,823	6,022	38,126
Aerospace products and parts	3364	27,114	946	3,351	22,817
Other transportation equipment	other 336	18,858	877	2,671	15,310
Furniture and related products	337	374	21 i	86	267
Miscellaneous manufacturing	322, 324, 339	14,670	848	1,968	11,854
Nonmanufacturing industries	21-23, 42-81	101,052	4,321	15,848	80,883
Information	51	57,207	2,178	5,687	49,341
Publishing	511	35,675	1,491	3,106	31,078
Telecommunications	517	3,041	206 i	1,051	1,784 i
Data processing, hosting, and related services	518	6,446	245	595	5,605
Other information	other 51	12,046	236	935	10,874
Professional, scientific, and technical services	54	31,017	1,630	8,181	21,206 i
Architectural, engineering, and related services	5413	3,133	98	1,005	2,030 i
Computer systems design and related services	5415	9,268 i	188 i	1,013 i	8,068 i
Scientific research and development services	5417	14,201	1,213	5,437	7,551 i
Biotechnology research and development	541711	4,499	679	664	3,155 i
Physical, engineering, and life sciences (except biotechnology) research and development	541712	8,910	478	4,327	4,105 i
Social sciences and humanities research and development	541720	792	56 i	445 i	291 i
Other professional, scientific, and technical services	other 54	4,415	130 i	727 i	3,558 i
Other nonmanufacturing	21-23, 42-49, 52, 53, 55-81	12,828	513 i	1,980	10,335
All companies (number of domestic employees)	-	322,528	19,508	51,014	252,007
Small companies ^a					
5-499	-	53,002	3,290	10,172 i	39,541 i
5-99	-	27,148 i	1,767 i	5,289 i	20,092 i
5-49	-	18,238 i	1,096 i	3,750 i	13,392 i
5-9	-	3,402 i	231 i	659 i	2,513 i
10-24	-	6,895 i	460 i	1,362 i	5,073 i
25-49	-	7,941 i	405	1,729 i	5,806 i
50-99	-	8,910	671	1,539	6,700 i
100-249	-	13,666	774	2,552	10,340
250-499	-	12,189	749	2,331 i	9,109
Medium and large companies					
500-999	-	12,002	678	2,106	9,219

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1,000–4,999	–	55,517	3,373	9,491	42,654
5,000–9,999	–	31,514	1,609	5,546	24,359
10,000–24,999	–	51,218	3,004	9,414	38,799
25,000 or more	–	119,275	7,555	14,285	97,435

i = > 50% of the estimate is a combination of imputation and reweighting to account for nonresponse.

NAICS = 2007 North American Industry Classification System.

^a Upper bound based on U.S. Small Business Administration's definition of a small business; Business R&D and Innovation Survey does not include companies with fewer than five domestic employees.

NOTES: Detail may not add to total because of rounding. Industry classification based on dominant business code for domestic R&D performance where available. For companies that did not report business codes, classification used for sampling was assigned. Statistics are representative of companies located in the United States that performed or funded R&D.

SOURCE: National Science Foundation, National Center for Science and Engineering Statistics, and U.S. Census Bureau, Business R&D and Innovation Survey, 2013.