

TABLE 29. Domestic R&D paid for by others and performed by the company, by character of work, industry, and company size: 2014
(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	58,158	5,829	14,403	37,927 i
Manufacturing industries	31–33	40,655	4,772 i	7,193 i	28,690 i
Food	311	220	9	72	140
Beverages and tobacco products	312	101	D	D	D
Textiles, apparel, and leather products	313–16	15 i	* i	4 i	11 i
Wood products	321	12 i	* i	1 i	10 i
Printing and related support activities	323	2 i	* i	* i	1 i
Chemicals	325	9,813	2,092	1,643	6,078
Pharmaceuticals and medicines	3254	8,966	1,900	1,236	5,830
Other chemicals	other 325	847	192	407	248
Plastics and rubber products	326	158 i	*	7	151 i
Nonmetallic mineral products	327	24	3	10	12
Primary metals	331	62	9 i	11 i	41 i
Fabricated metal products	332	130 i	60 i	40 i	30 i
Machinery	333	670	8 i	86 i	575
Computer and electronic products	334	9,195	1,052	1,182	6,962
Semiconductors and other electronic components	3344	2,112	519	184	1,409
Navigational, measuring, electromedical, and control instruments	3345	5,387	216	655	4,515
Other computer and electronic products	other 334	1,696 i	317 i	342 i	1,037 i
Electrical equipment, appliances, and components	335	187 i	1 i	14 i	172 i
Transportation equipment	336	19,485 i	1,520 i	4,061 i	13,903 i
Aerospace products and parts	3364	15,881 i	1,454 i	2,510 i	11,917 i
Other transportation equipment	other 336	3,603	66 i	1,551	1,986 i
Furniture and related products	337	4 i	* i	1 i	3 i
Miscellaneous manufacturing	322, 324, 339	576	D	D	D
Nonmanufacturing industries	21–23, 42–81	17,504	1,057	7,210	9,237 i
Information	51	1,477	105	669	703
Publishing	511	1,270	86	632	552
Telecommunications	517	45	4	7	34
Data processing, hosting, and related services	518	103	14	26	62 i
Other information	other 51	59	1 i	3 i	55
Professional, scientific, and technical services	54	14,914	792 i	6,329	7,793 i
Architectural, engineering, and related services	5413	1,871	113	856	903 i
Computer systems design and related services	5415	2,375 i	37 i	264 i	2,074 i
Scientific R&D services	5417	10,139	610 i	5,040	4,488 i
Biotechnology R&D	541711	2,767	32 i	618	2,118 i
Physical, engineering, and life sciences (except biotechnology) R&D	541712	6,720	513 i	3,985	2,222 i
Social sciences and humanities R&D	541720	651	65 i	437 i	149 i
Other professional, scientific, and technical services	other 54	529	33	170	327
Other nonmanufacturing	21–23, 42–49, 52, 53, 55–81	1,113	160	212	741
All companies (number of domestic employees)	–	58,158	5,829	14,403	37,927 i
Small companies ^a					
5–499	–	11,884 i	1,175 i	2,489 i	8,221 i
5–99	–	7,383 i	668 i	1,443 i	5,272 i
5–49	–	4,730 i	371 i	1,025 i	3,334 i
5–9	–	868 i	56 i	207 i	605 i
10–24	–	1,671 i	188 i	404 i	1,079 i
25–49	–	2,191 i	127	414 i	1,650 i
50–99	–	2,652 i	296 i	418 i	1,938 i
100–249	–	2,486	250	601	1,635
250–499	–	2,015	257 i	445	1,314

TABLE 29. Domestic R&D paid for by others and performed by the company, by character of work, industry, and company size: 2014
(Millions of U.S. dollars)

Industry and company size	NAICS code	Total	Basic research	Applied research	Development
Medium and large companies					
500-999	–	1,525	205	470	850
1,000-4,999	–	9,744	1,711	3,076	4,958
5,000-9,999	–	7,522	660	2,712	4,151
10,000-24,999	–	7,542	436 i	1,197	5,909
25,000 or more	–	19,941 i	1,642 i	4,460 i	13,839 i

* = 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 Upper bound is based on the U.S. Small Business Administration's definition of a small business; the 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 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: National Science Foundation, National Center for Science and Engineering Statistics, and U.S. Census Bureau, Business R&D and Innovation Survey, 2014.