

TABLE 9. Domestic R&D paid for by the company and others and performed by the company, by character of work, industry, and company size: 2011  
(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	294,093	13,020	47,186	233,887
Manufacturing industries	31–33	201,361	8,738	32,576	160,047
Food	311	4,399	183	1,594	2,622
Beverage and tobacco products	312	D	D	D	D
Textile, apparel, and leather products	313–316	634	60	63	512
Wood products	321	211	17 i	49	144
Printing and related support activities	323	175	6	28	140
Chemicals	325	55,324	4,243	15,121	35,961
Pharmaceuticals and medicines	3254	45,949	3,520	12,964	29,465
Other chemicals	other 325	9,375	723	2,157	6,495
Plastics and rubber products	326	2,280	149 i	337	1,793
Nonmetallic mineral products	327	1,179	156 i	276 i	746
Primary metals	331	655	28	122	506
Fabricated metal products	332	1,853	58	203	1,592
Machinery	333	14,709	548	1,505	12,656
Computer and electronic products	334	62,704	1,438	7,069	54,197
Semiconductor and other electronic components	3344	24,100	580	2,625	20,895
Navigational, measuring, electromedical, and control instruments	3345	16,094	472	1,905	13,717
Other computer and electronic products	other 334	22,509	385	2,538	19,585
Electrical equipment, appliances, and components	335	3,595	163	517	2,915
Transportation equipment	336	40,880	955	3,563	36,361
Aerospace products and parts	3364	26,054 i	355	1,933	23,766 i
Other transportation equipment	other 336	14,826	600	1,631	12,595
Furniture and related products	337	319	13	35	270
Miscellaneous manufacturing	322, 324, 339	D	D	D	D
Nonmanufacturing industries	21–23, 42–81	92,731	4,282	14,610	73,839
Information	51	41,865	1,518 i	3,864	36,483
Publishing	511	28,435	1,220	2,790	24,425
Telecommunications	517	2,157	185 i	244 i	1,728 i
Data processing, hosting, and related services	518	4,285	58	527	3,700
Other information	other 51	6,988	55	304	6,629
Professional, scientific, and technical services	54	38,219	2,030	8,615	27,573
Architectural, engineering, and related services	5413	3,774	116	572	3,086
Computer systems design and related services	5415	13,259	289	1,120	11,850
Scientific research and development services	5417	15,301	1,215	6,022	8,065
Biotechnology research and development	541711	6,017	627	1,806	3,584
Physical, engineering, and life sciences (except biotechnology) research and development	541712	8,667	542	3,792	4,333
Social sciences and humanities research and development	541720	616	46 i	424 i	147 i
Other professional, scientific, and technical services	other 54	5,885	411	901 i	4,573
Other nonmanufacturing	21–23, 42–49, 52, 53, 55–81	12,648	734 i	2,131	9,783
All companies (number of employees)	–	294,093	13,020	47,186	233,887
Small companies <sup>a</sup>					
5–499	–	56,793	2,656	10,508	43,629
5–99	–	31,310	1,333	5,832	24,145
5–49	–	21,842	879	4,218	16,745
5–9	–	4,202	177	1,061	2,964
10–24	–	6,779	279	1,258	5,242
25–49	–	10,861	423	1,898	8,540
50–99	–	9,468	454	1,614	7,400
100–249	–	12,528	748	2,302	9,478
250–499	–	12,955	575	2,375	10,006
Medium and large companies					
500–999	–	10,027	421	1,522	8,085
1,000–4,999	–	50,485	1,766	8,625	40,094

TABLE 9. Domestic R&D paid for by the company and others and performed by the company, by character of work, industry, and company size: 2011  
(Millions of U.S. dollars)

Industry and company size	NAICS code	Total	Basic research	Applied research	Development
5,000–9,999	–	24,951	1,483	3,649	19,819
10,000–24,999	–	49,214	2,774	6,946	39,495
25,000 or more	–	102,623	3,921	15,936	82,766

D = data withheld to avoid disclosing operations of individual companies; i = value > 50% of the estimate is a combination of imputation and reweighting to account for nonresponse.

NAICS = 2007 North American Industry Classification System.

<sup>a</sup> 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, 2011.