

TABLE 104. Domestic R&D paid for by the company and by others and performed by the company, by character of work, industry, and company size: 2010  
(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	278,977	16,371	44,906	217,699
Manufacturing industries	31-33	196,711	10,667	33,224	152,821
Food	311	D	D	D	D
Beverage and tobacco products	312	D	D	201	D
Textiles, apparel, and leather products	313-316	489	28	53	408
Wood products	321	247	12	36	199
Printing and related support activities	323	231	10	46	174
Chemicals	325	58,038	4,670	15,006	38,362
Pharmaceuticals and medicines	3254	49,415	D	D	32,341
Other chemicals	other 325	8,623	D	D	6,022
Plastics and rubber products	326	2,121	133	445 i	1,543
Nonmetallic mineral products	327	1,276 i	112 i	187 i	976 i
Primary metals	331	653	25	116	512
Fabricated metal products	332	1,703	58	152	1,493
Machinery	333	9,955	404	1,199	8,352
Computer and electronic products	334	59,875	2,808 i	8,426	48,640
Semiconductor and other electronic components	3344	21,933	472	3,545 i	17,917
Navigational, measuring, electromedical, and control instruments	3345	15,561	D	D	12,082
Other computer and electronic products	other 334	22,381	D	D	18,641
Electrical equipment, appliances, and components	335	3,320	365	496	2,460
Transportation equipment	336	42,913	1,097	3,597	38,219
Aerospace products and parts	3364	29,854	D	D	27,135 i
Other transportation equipment	other 336	13,059	D	D	11,084
Furniture and related products	337	373	18	37	318
Miscellaneous manufacturing	322, 324, 339	10,969	D	D	8,473
Nonmanufacturing industries	21-23, 42-81	82,265	5,704	11,682	64,878
Information	51	36,852	2,101	2,764	31,987
Publishing	511	26,982	1,710	1,998	23,274
Telecommunications	517	1,868	D	D	1,408
Data processing, hosting, and related services	518	2,538	51	227	2,260
Other information	other 51	5,465	D	D	5,046
Professional, scientific, and technical services	54	33,690	2,663	7,162	23,866
Architectural, engineering, and related services	5413	4,093	142	477	3,474
Computer systems design and related services	5415	11,050	279	1,141	9,630
Scientific R&D services	5417	14,818	1,994	4,806	8,018
Biotechnology R&D	541711	5,610	1,084	1,759	2,767
Physical, engineering, and life sciences (except biotechnology) R&D	541712	8,663	D	D	5,213
Social sciences and humanities R&D	541720	545	D	D	38
Other professional, scientific, and technical services	other 54	3,729	249	737	2,743
Other nonmanufacturing	21-23, 42-49, 52, 53, 55-81	11,723	940	1,757	9,025
All companies (number of employees)	-	278,977	16,371	44,906	217,699
Small companies (number of employees) <sup>a</sup>					
5-499	-	52,202	2,933	10,329	38,940
5-99	-	30,052	1,675	6,260	22,117
5-49	-	21,197	1,274	4,650	15,273
5-9	-	3,851	218	635	2,998
10-24	-	8,722	521	2,507 i	5,695
25-49	-	8,624	535	1,509	6,580
50-99	-	8,855	401	1,610	6,844
100-249	-	11,866	647	2,190	9,029
250-499	-	10,283	611	1,878	7,794
Medium and large companies (number of employees)					
500-999	-	10,116	479	1,641	7,996
1,000-4,999	-	48,227	2,795	6,991	38,442

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5,000–9,999	–	27,463	1,528	4,707	21,229
10,000–24,999	–	41,835	3,909	5,828	32,099
25,000 or more	–	99,133	4,728	15,410	78,994

D = data withheld to avoid disclosing operations of individual companies; i = value > 50% of 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 small business: Business R&D and Innovation Survey (BRDIS) 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 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, 2010.