

TABLE 13. Domestic R&D paid for by the company and others and performed by the company, by character of work, industry, and company size: 2008
(Millions of U.S. dollars)

Industry and company size	NAICS code	Total	Character of work		
			Basic research	Applied research	Development
All industries	21-23, 31-33, 42-81	290,680	12,368	46,864	231,447
Manufacturing industries	31-33	203,755	7,755	33,597	162,403
Food	311	2,100	85	334	1,681
Beverage and tobacco products	312	780	53	272	454
Textiles, apparel, and leather products	313-316	815	38	112	664
Wood products	321	273	7	52	215
Printing and related support activities	323	349	8	45	296
Chemicals	325	58,250	3,674	13,560	41,015
Pharmaceuticals and medicines	3254	48,131	3,038	11,037	34,056
Other chemicals	other 325	10,119	636	2,523	6,960
Plastics and rubber products	326	1,817	95	327	1,394
Nonmetallic mineral products	327	1,556	27	256	1,273
Primary metals	331	695	37	111	547
Fabricated metal products	332	2,419	59	285	2,075
Machinery	333	10,104	264	1,184	8,656
Computer and electronic products	334	60,464	1,632	7,976	50,856
Semiconductor and other electronic components	3344	22,324	267	2,573	19,484
Navigational, measuring, electromedical, and control instruments	3345	15,460	628	2,279	12,553
Other computer and electronic products	other 334	22,680	737	3,123	18,820
Electrical equipment, appliances, and components	335	3,143	107	555	2,481
Transportation equipment	336	50,552	1,216	6,754	42,583
Aerospace products and parts	3364	36,941	810	5,217	30,915
Other transportation	other 336	13,611	406	1,537	11,668
Furniture and related products	337	477	18	34	424
Other manufacturing	322, 324, 339	9,962	435	1,739	7,788
Nonmanufacturing industries	21-23, 42-81	86,926	4,613	13,267	69,044
Information	51	37,695	1,610	3,624	32,461
Publishing	511	28,427	1,124	2,611	24,693
Telecommunications	517	1,684	260	118	1,306
Internet service providers, Web search portals, and data processing services	518	6,567	208	831	5,528
Other information	other 51	1,016	18	64	934
Professional, scientific, and technical services	54	37,954	2,541	8,035	27,378
Architectural, engineering, and related services	5413	3,422	124	484	2,814
Computer systems design and related services	5415	12,146	291	814	11,041
Scientific R&D services	5417	17,913	1,900	5,847	10,166
Other professional, scientific, and technical services	other 54	4,474	225	891	3,357
Other nonmanufacturing	21-23, 42-49, 52, 53, 55-81	11,277	463	1,608	9,206
All companies	-	290,680	12,368	46,864	231,447
Small companies (number of employees) ^a					
5-499	-	58,137	3,398	10,265	44,474
5-99	-	33,257	1,911	5,992	25,353
5-49	-	23,906	1,402	4,231	18,272
5-24	-	14,280	860	2,527	10,892
25-49	-	9,626	542	1,703	7,380
50-99	-	9,351	509	1,761	7,081
100-249	-	14,662	921	2,797	10,944
250-499	-	10,219	566	1,476	8,177
Medium and large companies (number of employees)					
500-999	-	11,886	940	2,139	8,808
1,000-4,999	-	46,336	1,461	5,916	38,960

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5,000–9,999	–	24,764	704	5,943	18,118
10,000–24,999	–	48,737	1,965	8,912	37,859
25,000 or more	–	100,820	3,901	13,689	83,229

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

NAICS = 2002 North American Industry Classification System.

^a 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. After 2008 BRDIS sample was selected and surveyed, an error was identified that resulted in excluding 226,884 single-establishment companies with five paid employees from sample frame. Most excluded establishments were classified in industries with low R&D intensities, such as construction, retail trade, and service sectors. Based on available information for these small single-establishment companies, their contribution to 2008 R&D estimates is estimated to be negligible.

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, 2008.