

TABLE 19. Domestic R&D paid for by 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	58,176	2,341	10,439	45,396
Manufacturing industries	31-33	39,368	1,210	6,254	31,904
Food	311	37	*	30	6
Beverage and tobacco products	312	3	0	0	3
Textiles, apparel, and leather products	313-316	12	*	*	12
Wood products	321	3	0	0	3
Printing and related support activities	323	37	0	18	19
Chemicals	325	3,207	252	1,167	1,788
Pharmaceuticals and medicines	3254	2,962	156	1,130	1,676
Other chemicals	other 325	246	96	38	112
Plastics and rubber products	326	104	8	13	82
Nonmetallic mineral products	327	46	4	25	17
Primary metals	331	42	1	6	35
Fabricated metal products	332	57	*	2	54
Machinery	333	258	22	27	209
Computer and electronic products	334	7,551	299	835	6,417
Semiconductor and other electronic components	3344	736	18	48	671
Navigational, measuring, electromedical, and control instruments	3345	4,997	137	482	4,378
Other computer and electronic products	other 334	1,818	144	306	1,368 i
Electrical equipment, appliances, and components	335	196	4	59	133
Transportation equipment	336	27,513	588	4,024	22,901
Aerospace products and parts	3364	26,570	577	3,956	22,038
Other transportation	other 336	943	11	68	864
Furniture and related products	337	*	*	*	*
Other manufacturing	322, 324, 339	302	32	46	224
Nonmanufacturing industries	21-23, 42-81	18,807	1,131	4,185	13,491
Information	51	772	29	69	674
Publishing	511	556	20	54	483
Telecommunications	517	83	9	7	67
Internet service providers, Web search portals, and data processing services	518	75	1	1	73 i
Other information	other 51	58	0	7 i	50 i
Professional, scientific, and technical services	54	17,415	1,075	4,015	12,325
Architectural, engineering, and related services	5413	2,044	83	223	1,738
Computer systems design and related services	5415	3,577	73	117	3,387
Scientific R&D services	5417	9,205	832	2,988	5,385
Other professional, scientific, and technical services	other 54	2,590	87	687	1,815
Other nonmanufacturing	21-23, 42-49, 52, 53, 55-81	620	26	101	492
All companies	-	58,176	2,341	10,439	45,396
Small companies (number of domestic employees) <sup>a</sup>					
5-499	-	11,741	866	2,390	8,486
5-99	-	8,366	622	1,621	6,123
5-49	-	6,263	454	1,279	4,531
5-24	-	3,947	266	849	2,831
25-49	-	2,317	187	430	1,700
50-99	-	2,103	168	342	1,593
100-249	-	1,729	160	356	1,213
250-499	-	1,646	83	413	1,150
Medium and large companies (number of domestic employees)					
500-999	-	2,213	357	454	1,402
1,000-4,999	-	7,327	248	771	6,307

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5,000–9,999	–	4,406	6	2,303	2,097
10,000–24,999	–	5,688	221	1,081	4,386
25,000 or more	–	26,800	642	3,441	22,717

\* = amount < \$500,000; i = value > 50% of estimate is a combination of imputation and reweighting to account for nonresponse.

NAICS = 2002 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. 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.