

TABLE 14. Domestic R&D paid for by the company and others and performed by companies in business for less than 5 years, by character of work, industry, and company size: 2008

(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	10,044	766	1,532	7,746
Manufacturing industries	31-33	3,968	180	704	3,084
Food	311	49	5	6	39
Beverage and tobacco products	312	19	1	3	15
Textiles, apparel, and leather products	313-316	34	3	5	25
Wood products	321	18	*	*	17
Printing and related	323	*	0	0	*
Chemicals	325	1,412	83	276	1,053
Pharmaceuticals and medicines	3254	1,174	71	231	873
Other chemicals	other 325	237	12	45	180
Plastics and rubber products	326	47	7	21	19
Nonmetallic mineral products	327	22	1	5	16
Primary metals	331	8	*	2	6
Fabricated metal products	332	88	*	8 i	80
Machinery	333	147	5	18	124
Computer and electronic products	334	1,261	46	194	1,021
Semiconductor and other electronic components	3344	664	4	76	585
Navigational, measuring, electromedical, and control instruments	3345	250	20	76	153
Other computer and electronic products	other 334	347	22	42	283
Electrical equipment, appliances, and components	335	81	6	19	55
Transportation equipment	336	210	13	35	162
Aerospace products and parts	3364	65	11	1	52
Other transportation	other 336	145	2	34	109
Furniture and related products	337	31	*	3	28
Other manufacturing	322, 324, 339	542	9	109	424
Nonmanufacturing industries	21-23, 42-81	6,076	586	828	4,662
Information	51	1,320	25	98	1,197
Publishing	511	812	8	54	749
Telecommunications	517	178	3	20	154
Internet service providers, Web search portals, and data processing services	518	255	14	18	223
Other information	other 51	75	*	5	70
Professional, scientific, and technical services	54	3,492	516	617	2,359
Architectural, engineering, and related services	5413	124	8	23	93
Computer systems design and related services	5415	1,134	106	148	879
Scientific R&D services	5417	1,652	389	386	877
Other professional, scientific, and technical services	other 54	582	13	60	509
Other nonmanufacturing	21-23, 42-49, 52, 53, 55-81	1,264	45	112	1,107
All companies	-	10,044	766	1,532	7,746
Small companies (number of domestic employees) ^a					
5-499	-	8,867	727	1,431	6,708
5-99	-	7,478	594	1,162	5,722
5-49	-	6,682	566	998	5,118
5-24	-	4,550	448	764	3,338
25-49	-	2,132	118	234	1,781
50-99	-	796	28	164	604
100-249	-	797	91	187	519
250-499	-	591	43	82	467
Medium and large companies (number of domestic employees)					
500-999	-	529	8	34	487
1,000-4,999	-	446	11	53	382

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5,000–9,999	–	66	5	9	52 i
10,000–24,999	–	136	16	4	117
25,000 or more	–	0	0	0	0

* = 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.

^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. For 2008, companies were asked if they had been in business for less than 5 years only if sum of domestic R&D performance paid for by the company and domestic R&D performance paid for by others was positive. Companies were not asked if they had been in business for less than 5 years if they reported only R&D performance paid for by others. This was omitted in first cycle of survey. For 2009 second cycle of survey, all companies that reported domestic R&D performance paid for by the company or domestic R&D performance paid for by others were asked this question.

SOURCE: National Science Foundation/National Center for Science and Engineering Statistics and U.S. Census Bureau, Business R&D and Innovation Survey, 2008.