

TABLE 64. 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: 2009
(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	8,222	298	1,218	6,706
Manufacturing industries	31-33	4,034	70	498	3,466
Food	311	235	1	9	225
Beverage and tobacco products	312	3	* i	*	3 i
Textiles, apparel, and leather products	313-316	16	1 i	*	15
Wood products	321	36	5 i	29 i	2
Printing and related	323	7	*	*	7
Chemicals	325	974 i	8 i	107	859 i
Pharmaceuticals and medicines	3254	776 i	3	9 i	764 i
Other chemicals	other 325	197	5 i	98	95
Plastics and rubber products	326	59	2	3	55
Nonmetallic mineral products	327	71	*	1	71 i
Primary metals	331	10	0	3	7
Fabricated metal products	332	270	4 i	16 i	250 i
Machinery	333	220	7 i	49	164 i
Computer and electronic products	334	1,371	17	148	1,206
Semiconductor and other electronic components	3344	893	9 i	111 i	773 i
Navigational, measuring, electromedical, and control instruments	3345	268	5	30	233
Other computer and electronic products	other 334	210	2	7	200
Electrical equipment, appliances, and components	335	154	11	21	121
Transportation equipment	336	108	1 i	5 i	102 i
Aerospace products and parts	3364	7	*	*	7
Other transportation	other 336	101	1 i	5 i	95 i
Furniture and related products	337	55	* i	1	55
Miscellaneous manufacturing	322, 324, 339	444	13	107	325
Nonmanufacturing industries	21-23, 42-81	4,187	227	719	3,241
Information	51	1,006	51	121	834
Publishing	511	633	39	108	487
Telecommunications	517	39	1	1	37
Data processing, hosting, and related services	518	141	6	7	128
Other information	other 51	192	5	5	182
Professional, scientific, and technical services	54	2,973	173	579	2,222
Architectural, engineering, and related services	5413	240	4 i	26 i	210 i
Computer systems design and related services	5415	796	10	80	706
Scientific R&D services	5417	1,573	146	436	991
Biotechnology R&D	541711	1,042	108	261	672
Physical, engineering, and life sciences (except biotechnology) R&D	541712	526	32	175	318
Social sciences and humanities R&D	541720	6	5	0	1
Other professional, scientific, and technical services	other 54	363	13	36	315
Other nonmanufacturing	21-23, 42-49, 52, 53, 55-81	208	3 i	20	185
All companies (number of employees) ^a	-	8,222	298	1,218	6,706
Small companies (number of employees) ^a					
5-499	-	8,061	298	1,216	6,548
5-99	-	5,777	253	1,077	4,447
5-49	-	4,754	201	929	3,624
5-24	-	3,319	101	558	2,660
25-49	-	1,434	99	371	964
50-99	-	1,023	53	147	823 i
100-249	-	1,760 i	37	101	1,622 i
250-499	-	525	8	38	479
Medium and large companies (number of employees)					
500-999	-	D	*	1	D
1,000-4,999	-	D	0	1	D

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5,000–9,999	–	0	0	0	0
10,000–24,999	–	0	0	0	0
25,000 or more	–	0	0	0	0

* = amount < \$500,000; 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.

^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.

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. 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 the 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. 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, 2009.