

TABLE 20. Domestic R&D paid for by others and performed by the company, by character of work, industry, and company size: 2011
(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	55,324	2,285	9,613	43,426
Manufacturing industries	31–33	38,021	1,144	4,034	32,843 i
Food	311	196	1	57	138
Beverage and tobacco products	312	D	D	D	D
Textile, apparel, and leather products	313–316	34	*	1	33
Wood products	321	9	*	*	9
Printing and related support activities	323	1	0	*	1
Chemicals	325	5,337	706	1,210	3,421
Pharmaceuticals and medicines	3254	4,838	643	1,044	3,151
Other chemicals	other 325	499	64	166	269
Plastics and rubber products	326	307 i	61 i	61 i	184 i
Nonmetallic mineral products	327	33	3	18 i	12
Primary metals	331	64	2 i	15 i	46 i
Fabricated metal products	332	115	9	19	87
Machinery	333	1,131	20 i	138	973
Computer and electronic products	334	9,040	170	803	8,066
Semiconductor and other electronic components	3344	1,245	13	46	1,186
Navigational, measuring, electromedical, and control instruments	3345	5,451	112	670	4,670
Other computer and electronic products	other 334	2,343	45 i	88	2,211
Electrical equipment, appliances, and components	335	178	4	32	142
Transportation equipment	336	20,605 i	138 i	1,526 i	18,942 i
Aerospace products and parts	3364	18,469 i	48 i	1,045 i	17,376 i
Other transportation equipment	other 336	2,136	89 i	481 i	1,566
Furniture and related products	337	2	*	* i	1
Miscellaneous manufacturing	322, 324, 339	D	D	D	D
Nonmanufacturing industries	21–23, 42–81	17,303	1,141	5,579	10,584
Information	51	851	19	317	515
Publishing	511	687	19	314	354
Telecommunications	517	117	0	0	117
Data processing, hosting, and related services	518	28	1	3	25
Other information	other 51	19	0	0	19
Professional, scientific, and technical services	54	14,851	1,056	4,570	9,225
Architectural, engineering, and related services	5413	1,966	31	284	1,651
Computer systems design and related services	5415	1,553	72	113	1,368
Scientific research and development services	5417	9,131	650	3,985	4,495
Biotechnology research and development	541711	1,735	139	429	1,166
Physical, engineering, and life sciences (except biotechnology) research and development	541712	6,797	468	3,139	3,190
Social sciences and humanities research and development	541720	599	43 i	417 i	140 i
Other professional, scientific, and technical services	other 54	2,202	303	188	1,711
Other nonmanufacturing	21–23, 42–49, 52, 53, 55–81	1,601	66	691	844
All companies (number of domestic employees)	–	55,324	2,285	9,613	43,426
Small companies ^a					
5–499	–	10,283	731	2,490	7,062
5–99	–	6,382	407	1,633	4,342
5–49	–	4,525	281	1,209	3,035
5–9	–	1,221	73	486	662
10–24	–	1,872	100	398	1,374
25–49	–	1,432	108	324	999
50–99	–	1,857	126	424	1,307
100–249	–	2,095	186	495	1,415
250–499	–	1,806	139	362	1,305
Medium and large companies					
500–999	–	1,288	89	384	815

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1,000–4,999	–	7,579	176	2,055	5,348
5,000–9,999	–	6,292	820	1,564	3,908
10,000–24,999	–	6,630	143 i	572	5,915 i
25,000 or more	–	23,253 i	326 i	2,549	20,377 i

* = amount < \$500,000; D = data withheld to avoid disclosing operations of individual companies; i = value > 50% of the 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 a small business; Business R&D and Innovation Survey 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 the 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, 2011.