

TABLE 24. Domestic R&D paid for and performed by the company in health or medical, defense, and agricultural application areas, by industry and company size: 2012
(Millions of U.S. dollars)

Industry and company size	NAICS code	Total domestic R&D	Application areas		
			Health or medical	Defense	Agriculture
All industries	21–23, 31–33, 42–81	247,280	55,471	7,207	4,899
Manufacturing industries	31–33	170,197	46,763	5,949	4,521
Food	311	3,921	277 i	0	590 i
Chemicals	325	50,867	35,293	86	1,779
Basic chemicals	3251	2,536	111 i	50 i	145
Pharmaceuticals and medicines	3254	42,594	35,051	11	334
Other chemicals	other 325	5,737	132	25	1,301
Plastics and rubber products	326	3,171	165	7	696
Nonmetallic mineral products	327	1,293 i	82 i	57 i	4 i
Fabricated metal products	332	1,720 i	99 i	110 i	67 i
Machinery	333	13,294	943	145	1,000
Agricultural implement	33311	1,503	0	*	942
Semiconductor machinery	333295	2,078	19	1	0
Engine, turbine, and power transmission equipment	3336	3,757	850	74	6
Other machinery	other 333	5,956	74 i	70 i	53 i
Computer and electronic products	334	56,677	3,193	3,346	196 i
Semiconductor and other electronic components	3344	25,957	272 i	830 i	7
Other electronic products	other 334	30,720	2,921	2,516	189 i
Electrical equipment, appliances, and components	335	2,900	84 i	150 i	23 i
Transportation equipment	336	21,344	78 i	1,847	67 i
Automobiles, bodies, trailers, and parts	3361–63	13,191	6	51	5
Other transportation	other 336	8,153	72 i	1,796	62 i
Miscellaneous manufacturing	339	10,423	6,417	173	23
Other manufacturing	312–16, 321–24, 331, 337	4,587	132 i	27	77
Nonmanufacturing industries	21–23, 42–81	77,083	8,709 i	1,257 i	378 i
Mining, extraction, and support activities	21	2,443	0	0	1 i
Utilities	22	245	*	0	1
Wholesale trade	42	1,580 i	158 i	11 i	235 i
Information	51	45,851	2,608 i	362 i	6
Publishing	511	28,253	2,538 i	293 i	2
Telecommunications	517	2,768 i	0	60	0
Data processing, hosting, and related services	518	4,801	62	8	3
Other information	other 51	10,030	8	1	0
Professional, scientific, and technical services	54	20,166	5,506	868 i	120
Architectural, engineering, and related services	5413	1,123	20 i	31 i	9 i
Scientific research and development services	5417	6,788	4,499	211 i	73
Biotechnology research and development	541711	4,370	3,511	41	54
Other scientific research and development	other 5417	2,418	988 i	170 i	19 i
Other professional, scientific, and technical services	other 54	12,255 i	987 i	626 i	38 i
Health care services	621–23	416	360	0	4 i
Other nonmanufacturing	23, 44–45, 48–49, 52–53, 55–56, 624, 71–72, 81	6,382	77 i	16	12 i
All companies (number of domestic employees)	–	247,280	55,471	7,207	4,899
Small companies ^a					
5–499	–	39,388	9,220	1,508 i	887 i
5–99	–	19,958 i	4,828 i	933 i	448 i
5–49	–	12,670 i	3,194 i	641 i	258 i
5–9	–	1,966 i	542 i	95 i	41 i
10–24	–	4,985 i	1,298 i	315 i	105 i
25–49	–	5,718 i	1,354	232 i	112 i
50–99	–	7,288 i	1,633	292 i	190 i
100–249	–	9,899	2,362	320	214 i
250–499	–	9,531	2,030	255 i	225 i
Medium and large companies					
500–999	–	10,227	1,619	309	185 i
1,000–4,999	–	43,025	10,173	1,600	531 i

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			Health or medical	Defense	Agriculture
5,000–9,999	–	23,821	2,388 i	405 i	287 i
10,000–24,999	–	43,119	15,742 i	1,104	1,931
25,000 or more	–	87,698	16,328	2,282	1,078

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

NAICS = 2007 North American Industry Classification System.

^a The upper bound is based on the U.S. Small Business Administration's definition of a small business; the 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. The industry classification is based on the dominant business code for domestic R&D performance, where available. For companies that did not report business codes, the classification used for sampling was assigned. Statistics are representative of companies located in the United States that performed or funded R&D. Some R&D may be reported in more than one application area. Some R&D is not classified in any application area.

SOURCE: National Science Foundation, National Center for Science and Engineering Statistics, and U.S. Census Bureau, Business R&D and Innovation Survey, 2012.