

TABLE 25. Domestic R&D paid for and performed by the company in selected technology focus areas, by industry and company size: 2012
(Millions of U.S. dollars)

Industry and company size	NAICS code	Total domestic R&D	Technology focus areas			
			Software products	Embedded software	Biotechnology	Nanotechnology
All industries	21–23, 31–33, 42–81	247,280	54,663 i	22,809	23,068	13,136
Manufacturing industries	31–33	170,197	10,235	13,014	18,743	11,389
Food	311	3,921	11	21 i	214 i	3 i
Chemicals	325	50,867	191	814 i	16,910	384 i
Basic chemicals	3251	2,536	28	42	254	103
Pharmaceuticals and medicines	3254	42,594	79	723 i	15,490	102 i
Other chemicals	other 325	5,737	85	49	1,167	179 i
Plastics and rubber products	326	3,171	32	10	353	44
Nonmetallic mineral products	327	1,293 i	6 i	3 i	D	47 i
Fabricated metal products	332	1,720 i	55 i	93 i	3	36 i
Machinery	333	13,294	325	961	106	195
Agricultural implement	33311	1,503	15	71	*	0
Semiconductor machinery	333295	2,078	27	24 i	D	103
Engine, turbine, and power transmission equipment	3336	3,757	136	394	D	26
Other machinery	other 333	5,956	146 i	472	24 i	66
Computer and electronic products	334	56,677	8,251	9,421	479	10,380
Semiconductor and other electronic components	3344	25,957	3,107	2,926	21	9,286
Other electronic products	other 334	30,720	5,143	6,495	458	1,094
Electrical equipment, appliances, and components	335	2,900	121 i	196	18	5
Transportation equipment	336	21,344	340	688	D	55
Automobiles, bodies, trailers, and parts	3361–63	13,191	25 i	269	1 i	18 i
Other transportation	other 336	8,153	315	419	D	37
Miscellaneous manufacturing	339	10,423	811 i	730	441	168
Other manufacturing	312–16, 321–24, 331, 337	4,587	92 i	76 i	183	73 i
Nonmanufacturing industries	21–23, 42–81	77,083	44,428 i	9,795 i	4,324	1,747 i
Mining, extraction, and support activities	21	2,443	302	264	39	47
Utilities	22	245	18	36	6 i	*
Wholesale trade	42	1,580 i	195 i	241 i	80 i	7 i
Information	51	45,851	34,509 i	4,614 i	49	1,295 i
Publishing	511	28,253	22,866	2,591 i	35	1,292 i
Telecommunications	517	2,768 i	1,266 i	878 i	0	0
Data processing, hosting, and related services	518	4,801	2,390	486 i	2	3
Other information	other 51	10,030	7,987 i	658 i	11	1 i
Professional, scientific, and technical services	54	20,166	7,239 i	1,958 i	3,958	371 i
Architectural, engineering, and related services	5413	1,123	94 i	57 i	21 i	24 i
Scientific research and development services	5417	6,788	179 i	285 i	3,907	288 i
Biotechnology research and development	541711	4,370	11 i	44 i	3,755	89
Other scientific research and development	other 5417	2,418	168 i	240 i	153 i	199 i
Other professional, scientific, and technical services	other 54	12,255 i	6,966 i	1,616 i	29 i	59 i
Health care services	621–23	416	37	20 i	181 i	8 i
Other nonmanufacturing	23, 44–45, 48–49, 52–53, 55–56, 624, 71–72, 81	6,382	2,129	2,664	13 i	18 i
All companies (number of domestic employees)	–	247,280	54,663 i	22,809	23,068	13,136
Small companies ^a						
5–499	–	39,388	9,587 i	4,222 i	5,289	1,320 i
5–99	–	19,958 i	5,014 i	2,184 i	2,964	665 i
5–49	–	12,670 i	3,166 i	1,356 i	1,772	418 i
5–9	–	1,966 i	485 i	244 i	272 i	48 i
10–24	–	4,985 i	1,179 i	539 i	692	159 i
25–49	–	5,718 i	1,502 i	573 i	808	211 i
50–99	–	7,288 i	1,847 i	828 i	1,192	246
100–249	–	9,899	2,485	894 i	1,404	374 i
250–499	–	9,531	2,089 i	1,144	921	282 i
Medium and large companies						
500–999	–	10,227	2,216	1,021 i	1,056	163 i
1,000–4,999	–	43,025	9,309	3,346	6,141	1,802

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5,000–9,999	–	23,821	6,223 i	2,369	643 i	2,871
10,000–24,999	–	43,119	8,622 i	2,710 i	7,533 i	2,411
25,000 or more	–	87,698	18,705 i	9,142	2,405	4,568 i

* = amount < \$500,000; D = data withheld to avoid disclosing operations of individual companies; 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 technology focus area. Some R&D is not classified in any technology focus area.

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