

TABLE 33. Companies with domestic R&D paid for and performed by the company in health or medical, defense, and agricultural application areas, by industry and company size: 2013  
(Millions of U.S. dollars)

Industry and company size	NAICS code	Domestic R&D		Health or medical		Defense		Agriculture	
		Companies <sup>a</sup> (number)	Amount	Companies <sup>a</sup> (number)	Amount	Companies <sup>a</sup> (number)	Amount	Companies <sup>a</sup> (number)	Amount
All industries	21–23, 31–33, 42–81	65,139	264,913	25,726	59,950	20,803	10,163	15,183	4,894 i
Manufacturing industries	31–33	27,655	181,170	15,741	54,771	11,788	8,216	9,935	4,577
Food	311	2,072	4,801	1,422	364 i	5	1	1,670	628 i
Chemicals	325	2,898	54,285	2,259	40,270	906	128 i	594	1,488 i
Basic chemicals	3251	386	2,341	291	50	280	49	296	115
Pharmaceuticals and medicines	3254	906	45,891	843	40,076	70	23 i	81	228
Other chemicals	other 325	1,605	6,053	1,125	144	556	56 i	217	1,145 i
Plastics and rubber products	326	1,553	3,496	1,325	345	1,098	101	1,324	746
Nonmetallic mineral products	327	584	1,303 i	367	38 i	226	42 i	93	5 i
Fabricated metal products	332	3,137	1,934 i	2,402	130 i	2,346	118 i	2,034	55 i
Machinery	333	3,918	12,092	1,774	269	1,994	239 i	2,125	1,301
Agricultural implement	33311	198	1,561	0	0	D	4	195	1,063
Semiconductor machinery	333295	162	3,097	146	82	143	88	140	74
Engine, turbine, and power transmission equipment	3336	146	1,336	117	78 i	123	77 i	120	102 i
Other machinery	other 333	3,412	6,098	1,511	109	D	70 i	1,669	62 i
Computer and electronic products	334	3,944	57,364	1,987	3,282	2,219	2,739	1,105	237
Semiconductor and other electronic components	3344	1,305	28,576	614	415	797	692 i	11	9
Other electronic products	other 334	2,640	28,788	1,373	2,867	1,422	2,047	1,094	228 i
Electrical equipment, appliances, and components	335	1,143	3,660	840	93 i	911	116 i	8	3
Transportation equipment	336	1,948	25,165	152	763	459	4,459	15	23
Automobiles, bodies, trailers, and parts	3361, 3362, 3363	1,212	14,081	9	6	18	47	9	1
Other transportation	other 336	736	11,084	143	757	442	4,413	6	21
Miscellaneous manufacturing	339	2,770	13,147	1,337	9,122	744	245 i	10	25
Other manufacturing	312–316, 321–24, 331, 337	3,694	3,923	1,877	97	879	27	956	66
Nonmanufacturing industries	21–23, 42–81	37,486	83,742	9,985	5,178 i	9,016	1,948	5,249	317 i
Mining, extraction, and support activities	21	246	3,602	D	*	0	0	D	2
Utilities	22	65	243	3	1	0	0	6	1
Wholesale trade	42	4,664	510 i	3	5	D	*	D	3
Information	51	3,890	56,039	2,100	1,998 i	1,404	1,177	13	21
Publishing	511	2,055	34,637	1,319	1,676 i	1,327	1,061	9	7
Telecommunications	517	231	3,037	D	14	70	98	0	0
Data processing, hosting, and related services	518	1,015	6,333	D	298	7	18	D	D
Other information	other 51	589	12,032	D	10 i	0	0	D	D
Professional, scientific, and technical services	54	12,693	15,617 i	7,556	2,750 i	D	759 i	5,220	288 i
Architectural, engineering, and related services	5413	2,074	1,261	1,198	50 i	1,565	71 i	1,128	20 i
Scientific research and development services	5417	1,320	2,838	1,099	1,758 i	612	160 i	719	125 i
Biotechnology research and development	541711	416	1,331	356	961	14	5	210	71 i
Other scientific research and development	other 5417	903	1,507	743	797 i	598	155 i	509	54 i

TABLE 33. Companies with domestic R&D paid for and performed by the company in health or medical, defense, and agricultural application areas, by industry and company size: 2013  
(Millions of U.S. dollars)

Industry and company size	NAICS code	Domestic R&D		Health or medical		Defense		Agriculture	
		Companies <sup>a</sup> (number)	Amount	Companies <sup>a</sup> (number)	Amount	Companies <sup>a</sup> (number)	Amount	Companies <sup>a</sup> (number)	Amount
Other professional, scientific, and technical services	other 54	9,300	11,518 i	5,259	942 i	D	528 i	3,373	143 i
Health care services	621-23	1,674	430 i	58	293 i	D	* i	0	0
Other nonmanufacturing	23, 44-45, 48-49, 52-53, 55-56, 624, 71-72, 81	14,253	7,301	D	131 i	D	11	5	2
All companies (number of domestic employees)	-	65,139	264,913	25,726	59,950	20,803	10,163	15,183	4,894 i
Small companies <sup>b</sup>									
5-499	-	62,932	42,106	24,851	11,102	20,270	1,605 i	14,626	720 i
5-99	-	56,394	20,886 i	21,402	6,259 i	17,781	915 i	12,452	379 i
5-49	-	48,605	13,726 i	17,813	4,601 i	15,041	572 i	10,103	235 i
5-9	-	17,348	2,195 i	5,525	582 i	5,456	134 i	3,480	31 i
10-24	-	19,210	5,290 i	6,986	1,790 i	5,758	191 i	3,770	75 i
25-49	-	12,046	6,241 i	5,303	2,229	3,827	247 i	2,853	129 i
50-99	-	7,789	7,161	3,589	1,658	2,740	344	2,349	144 i
100-249	-	4,796	10,922	2,552	2,570	1,904	387	1,671	197 i
250-499	-	1,742	10,297	897	2,273	585	303 i	503	143
Medium and large companies									
500-999	-	876	10,280	387	1,968	208	411	283	194
1,000-4,999	-	907	45,342	327	10,901	218	1,239	189	430
5,000-9,999	-	188	25,009	69	3,247	47	1,272	36	351
10,000-24,999	-	137	44,275	55	18,382	34	1,786	30	2,126 i
25,000 or more	-	108	97,901	39	14,349	27	3,851	20	1,073

\* = 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.

<sup>a</sup> Statistics for number of companies are based only on companies in the United States that reported to the survey. These statistics do not include an adjustment to the weight to account for unit nonresponse. A company having multiple reporting parts for data collection may contribute to the statistics for multiple industries, so the detail may not add to the total for the number of companies.

<sup>b</sup> 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; for number of companies detail may not add to total because of rounding and because some companies requested multiple survey questionnaires to facilitate sub-company reporting (see technical notes and appendix table A-8). 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. 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, 2013.