

TABLE 116. Domestic R&D paid for by the company and performed by others, by type of performer, industry, and company size: 2010
(Millions of U.S. dollars)

Industry and company size	NAICS code	Total	Companies in United States	Foreign owners	Independent companies outside United States	U.S. federal government agencies	U.S. state government agencies	Foreign government agencies	Universities or colleges in United States	Universities or colleges outside United States	All other organizations	Undistributed ^b
All industries	21-23, 31-33, 42-81	29,216	21,256	245	2,266	136	8	20	829	188 i	352	3,916
Manufacturing industries	31-33	24,218	18,585	242	2,151	D	6	18	733	184 i	348	D
Food	311	458	358 i	0	24 i	0	0	0	37 i	4 i	D	D
Beverage and tobacco products	312	96	86	0	D	0	D	0	3	0	*	D
Textiles, apparel, and leather products	313-316	17	7	0	*	0	0	0	*	*	0	11
Wood products	321	31	5 i	0	* i	0	0	0	0	0	0	26
Paper	322	56	D	0	*	0	0	0	D	2	0	D
Printing and related support activities	323	8	1	0	0	0	0	0	0	0	0	8
Petroleum and coal products	324	D	D	D	D	4	0	0	D	2	D	D
Chemicals	325	16,931	13,332	115	1,564	4	*	6	560	150 i	298	901
Basic chemicals	3251	84	32	D	6	0	0	0	8	* i	0	D
Resin, synthetic rubber, fibers, and filaments	3252	36	24	*	1 i	*	0	* i	3	* i	* i	7
Pesticide, fertilizer, and other agricultural chemical	3253	D	71 i	D	0	0	0	*	D	*	2 i	14
Pharmaceuticals and medicines	3254	16,212	12,842	79	1,517	4	*	5	497	145 i	292	832
Soap, cleaning compound, and toilet preparation	3256	351	290	0	16	0	0	0	30	1 i	* i	14
Paint, coating, adhesive, and other chemical	3255, 3259	D	74	D	24	0	0	1	D	3	5	D
Plastics and rubber products	326	58	D	D	*	0	0	0	*	*	D	42
Nonmetallic mineral products	327	133	17	3	*	*	0	0	*	0	0	113
Primary metals	331	140	18	70	*	*	0	D	1	1	D	D
Fabricated metal products	332	44	6 i	* i	0	0	0	0	0	0	0	37
Machinery	333	397	271	*	18	0	0	0	16	*	2	89
Agricultural implement	33311	206	177	0	*	0	0	0	D	0	0	D
Semiconductor machinery	333295	26	23	0	*	0	0	0	D	*	0	D
Engine, turbine, and power transmission equipment	3336	31	14	0	0	0	0	0	0	0	0	18
Other machinery	other 333	134	57	*	18	0	0	0	D	*	2	D
Computer and electronic products	334	1,756	1,408	17	118	6	4	5	13	14	3	167
Communications equipment	3342	633	548	3	D	4	4	4	4	4	* i	D
Semiconductor and other electronic components	3344	435	359	*	33	1	0	0	2	*	0	40
Navigational, measuring, electromedical, and control instruments	3345	342	217	14	34	1	*	1	5	9	3	57
Electromedical, electrotherapeutic, and irradiation apparatus	334510, 334517	154	80	D	24	D	0	1	3	3	2	D
Search, detection, navigation, guidance, aeronautical, and nautical system and instruments	334511	103	90	D	D	D	*	0	2	0	0	D

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Professional, scientific, and technical services	54	1,447	514	2	68	D	D	* i	12	1	1	D
Architectural, engineering, and related services	5413	123	17	0	D	0	0	0	*	0	0	D
Computer systems design and related services	5415	408	88 i	* i	22 i	1 i	* i	* i	* i	* i	0	296
Scientific R&D services	5417	757	390	1 i	29	* i	0	* i	11	*	1	326
Biotechnology R&D	541711	622	322	* i	29	* i	0	* i	8	*	1	263
Physical, engineering, and life sciences (except biotechnology) R&D	541712	132	68	* i	*	0	0	0	3	0	1	61
Social sciences and humanities R&D	541720	3	0	0	0	0	0	0	0	0	0	3
Other professional, scientific, and technical services	other 54	158	19	1	D	D	D	0	1	*	0	D
Health care services	621-623	170	5	0	*	0	0	0	*	0	0	164
Other nonmanufacturing	55, 56, 624, 71, 72, 81	D	D	0	0	0	0	0	0	0	0	D
All companies (number of employees)	-	29,216	21,256	245	2,266	136	8	20	829	188 i	352	3,916
Small companies (number of employees) ³												
5-499	-	4,862	1,438	8	173	1	0	2	62	5	18	3,154
5-99	-	2,971	481	D	72	1	0	1	44	1	D	D
5-49	-	2,166	235	D	11	* i	0	1	25	*	6	D
5-9	-	465	1	0	0	0	0	0	0	0	0	464
10-24	-	636	35	0	0	0	0	0	9	*	5	588
25-49	-	1,065	200	D	11	* i	0	1	17	*	1	D
50-99	-	805	247	D	60	1	0	0	18	*	D	D
100-249	-	1,085	447	D	54	* i	0	1	12	2	D	D
250-499	-	806	510	5	47	* i	0	* i	7 i	3	1	232
Medium and large companies (number of employees)												
500-999	-	821	491	4	46 i	1	* i	* i	10 i	2 i	2	265
1,000-4,999	-	4,804	3,739	50	409	4	D	2	138	9	D	D

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5,000–9,999	–	2,285	1,668	82	149 i	17	1	2 i	137	13	D	D
10,000–24,999	–	6,426	5,552	88	413	0	*	3	225	22	7	115
25,000 or more	–	10,019	8,368	14	1,076 i	113	D	11	257	137 i	D	6

* = amount < \$500,000; D = data withheld to avoid disclosing operations of individual companies; i = more than 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.

^b Detailed data for domestic R&D by type of performer were not collected on Form BRDI-1A or BRDI-1B (the questionnaires sent to smaller companies). Form BRDI-1A and 1B data are included in undistributed column.

NOTES: NAICS 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 United States that performed or funded R&D. Detailed data were not collected on BRDI-1A and BRDI-1B questionnaires.

SOURCE: National Science Foundation/National Center for Science and Engineering Statistics and U.S. Census Bureau, Business R&D and Innovation Survey, 2010.