

TABLE 18

Companies with domestic R&D paid for by the company and others and performed by the company in the software products and embedded software technology focus area, by industry and company size: 2015

(Millions of U.S. dollars)

Industry and company size	NAICS code	Software products and embedded software R&D											
		Domestic R&D		Total		Paid for by company		Paid for by others					
		Companies (number) ^a	Amount	Companies (number) ^b	Amount	Companies (number) ^b	Amount	Total		Federally funded			
								Companies (number) ^b	Amount	Companies (number) ^b	Amount		
All industries	21-23, 31-33, 42-81	54,759	355,821	22,725	110,185	20,819	101,995	3,283	8,190	2,505	3,958		
Manufacturing industries	31-33	27,891	236,132	7,585	32,341	7,273	28,351	687	3,989	204	2,293		
Food	311	1,378	4,838	9	10	8	6	D	4	0	0		
Chemicals	325	2,843	68,196	179	345	177	327	6	18	D	*		
Basic chemicals	3251	312	3,042	19	10	D	D	D	D	0	0		
Pharmaceuticals and medicines	3254	830	58,675	35	153	34	144	3	9	0	0		
Other chemicals	other 325	1,701	6,480	125	181	D	D	D	D	D	*		
Plastics and rubber products	326	1,657	2,541	197	88	197	88	0	0	0	0		
Nonmetallic mineral products	327	498	1,259	50	19	50	19	0	0	0	0		
Fabricated metal products	332	4,669	2,261	947	115	946	115	D	*	0	0		
Machinery	333	4,353	13,426	1,600	1,438	1,572	1,399	45	40	D	* i		
Agricultural implements	33311	265	1,531	117	158	117	158	0	0	0	0		
Semiconductor machinery	333242	65	3,214	26	382	24	364	D	19	0	0		
Engines, turbines, and power transmission equipment	3336	379	2,535	171	287	146	282	32	6	D	* i		
Other machinery	other 333	3,646	6,146	1,287	610	1,286	595	D	15	D	*		
Computer and electronic products	334	3,352	72,110	2,292	23,021	2,083	20,925	430	2,097	136	999		
Semiconductors and other electronic components	3344	1,032	30,451	495	6,837	445	6,602	120	235	3	9		
Other electronic products	other 334	2,320	41,658	1,797	16,185	1,639	14,323	310	1,862	133	989		
Electrical equipment, appliances, and components	335	1,036	4,335	480	595	467	334	38	261	D	1		
Transportation equipment	336	1,896	49,274	258	4,076	236	2,543	68	1,534	11	1,291		
Automobiles, bodies, trailers, and parts	3361-63	1,108	19,078	166	1,218	144	1,156	55	63	3	*		
Other transportation	other 336	787	30,196	92	2,858	92	1,387	13	1,471	8	1,291		
Miscellaneous manufacturing	339	2,558	13,690	964	2,482	929	2,446	87	36	D	2		
Other manufacturing	312-16, 321-24, 331, 337	3,660	4,201	607	151	606	150	9	1	0	0		
Nonmanufacturing industries	21-23, 42-81	26,870	119,690	15,141	77,844	13,546	73,644	2,596	4,201	2,300	1,665		
Mining, extraction, and support activities	21	324	4,012	63	545	63	458	3	87	0	0		
Utilities	22	73	480	35	8	35	8	D	*	D	*		
Wholesale trade	42	6,115	1,768	1,319	117	1,319	117	D	*	0	0		
Information	51	3,369	65,513	2,838	56,714	2,827	56,100	105	614	D	22		
Publishing	511	1,397	33,346	1,313	29,775	1,304	29,215	58	560	D	13		
Telecommunications	517	467	3,607	119	1,267	119	1,265	D	2	D	2		
Data processing, hosting, and related services	518	1,168	9,416	1,129	8,769	1,128	8,719	44	51	9	7		

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Other information	other 51	337	19,144	277	i 16,903	276	i 16,901	D	2	0	0
Professional, scientific, and technical services	54	14,711	38,626	10,631	i 15,607	9,049	i 12,110	2,483	i 3,497	i 2,279	i 1,643
Architectural, engineering, and related services	5413	3,181	4,128	i 1,581	i 1,026	i 1,156	i 531	616	i 495	i 752	i 441
Scientific research and development services	5417	2,599	16,329	891	i 2,262	551	i 295	548	i 1,966	449	i 868
Biotechnology research and development	541711	715	5,693	i 64	i 176	49	i 58	31	i 119	6	5
Other scientific research and development	other 5417	1,884	10,636	827	i 2,085	501	i 238	516	i 1,848	443	i 863
Other professional, scientific, and technical services	other 54	8,931	18,168	8,159	i 12,319	7,342	i 11,284	1,318	i 1,035	i 1,079	i 334
Health care services	621-23	754	758	i 70	i 57	69	i 57	D	*	0	0
Other nonmanufacturing	23, 44-45, 48-49, 52-53, 55-56, 624, 71-72, 81	1,526	8,533	185	i 4,798	184	i 4,795	D	2	0	0
All companies (number of domestic employees)	-	54,759	355,821	22,725	i 110,185	20,819	i 101,995	3,283	i 8,190	2,505	i 3,958
Micro companies ^c											
5-9	-	11,869	2,988	i 5,377	i 688	4,699	i 493	1,063	i 195	i 1,001	i 97
Small companies											
10-19	-	13,460	5,680	i 5,640	i 1,529	5,198	i 1,382	694	i 147	i 521	i 69
20-49	-	13,821	10,249	i 5,961	i 2,800	5,532	i 2,235	903	i 566	694	i 393
Medium companies											
50-99	-	6,910	11,509	2,804	i 4,363	2,556	i 3,325	323	i 1,037	178	i 189
100-249	-	4,420	13,602	1,440	i 3,939	1,369	i 3,389	133	550	62	i 231
Large companies											
250-499	-	1,857	13,553	571	4,716	558	4,380	52	335	i 14	146
500-999	-	951	15,217	332	4,791	324	4,566	28	224	D	D
1,000-4,999	-	1,008	58,094	386	18,934	376	17,980	47	955	i 10	323
5,000-9,999	-	206	38,838	87	14,110	86	13,832	8	277	i D	D
10,000-24,999	-	155	59,328	75	9,194	70	7,537	19	1,657	7	676
25,000 or more	-	101	126,763	53	45,121	52	42,874	14	2,247	8	1,777

* = 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 = 2012 North American Industry Classification System.

^a Statistics for the 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.

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^b Statistics for the 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. These company count estimates reflect a new imputation process implemented for survey year 2014. This change has affected the comparability of these company count estimates with estimates published for years prior to 2014. 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.

^c Business R&D and Innovation Survey does not include companies with fewer than five domestic employees.

Note(s)

Detail may not add to total because of rounding. 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(s)

National Science Foundation, National Center for Science and Engineering Statistics, and U.S. Census Bureau, Business R&D and Innovation Survey, 2015.