

TABLE 26-A

Companies with domestic R&D paid for and performed by the company, by industry, company size, and state (A-M): 2015

(Millions of U.S. dollars)

Industry and company size	NAICS code	Companies, U.S. total ^a (number)	United States	Alabama	Alaska	Arizona	Arkansas	California	Colorado	Connecticut	Delaware	District of Columbia	Florida	Georgia	Hawaii	Idaho	Illinois	Indiana	Iowa	Kansas	Kentucky	Louisiana	Maine	Maryland	Massachusetts	Michigan	Minnesota	Mississippi	Missouri	Montana		
All industries	21-23, 31-33, 42-81	48,789	296,677	875	32	e 4,450	271	95,020	3,665	6,441	2,049	198	3,788	3,821	123	i 1,304	11,467	5,346	1,916	1,515	763	325	259	2,825	17,719	15,620	6,290	186	3,737	200	i	
Manufacturing industries	31-33	24,944	195,792	529	7	e 3,688	202	54,764	2,613	5,850	1,876	45	2,048	2,113	82	i 1,251	9,272	5,059	1,763	1,100	643	193	211	1,759	12,710	14,891	5,180	144	2,800	150	i	
Food	311	1,307	4,644	6	e 2	e 5	41	120	27	22	1,217	*	e 20	19	1	e 60	319	85	439	20	17	5	e 1	e 48	18	185	367	8	25	*	e	
Beverages and tobacco products	312	126	885	*	e *	e *	e *	20	20	3	*	e *	e 11	D	*	e *	e 123	i *	e *	e *	e 25	*	e *	e *	e *	15	*	e 1	*	e 24	*	e
Textiles, apparel, and leather products	313-16	880	715	6	*	e *	e *	122	1	e 1	e *	e *	e 5	i 73	*	e *	e 7	1	e 2	i *	e 1	e *	e 1	e 1	e 57	13	9	1	e 1	e *	e	
Wood products	321	402	188	2	*	e *	e 4	10	1	e *	e *	e 0	1	e 7	*	e *	e 3	i 1	e 3	1	i 1	e 1	*	e *	e 4	2	i 41	1	2	i *	e	
Paper	322	229	763	10	i *	e *	i 26	6	i *	i 4	i 1	0	16	i 52	*	e *	e 8	i 2	i *	e 3	22	6	i 11	1	i 13	9	5	1	2	i *	i	
Printing and related support activities	323	639	189	i *	e *	e 2	i *	e 46	i 7	*	e *	e *	e 3	i 2	i *	e *	e 6	i 2	i 3	i 1	e 1	e 1	i *	e 1	e 3	i 9	i 15	*	e 1	e *	e	
Petroleum and coal products	324	118	200	*	e *	e *	e *	17	11	*	e *	i 0	1	i 1	0	*	e 4	6	*	e 3	3	*	e *	i *	e *	*	e 1	i *	e 1	i *	e	
Chemicals	325	2,689	58,769	78	*	e 300	44	12,364	345	4,036	543	21	417	357	65	i 19	3,959	2,878	124	182	298	25	i 10	514	7,656	597	355	32	i 1,319	27		
Basic chemicals	3251	307	2,574	3	0	11	6	180	8	28	20	*	e 34	33	0	*	e 92	16	16	5	36	10	i *	e 53	99	54	i 15	7	22	i 10		
Resins, synthetic rubber, and artificial synthetic fibers and filaments	3252	463	1,172	3	e 0	8	i 22	38	*	e 4	e D	0	4	e 59	*	e *	e 79	8	i 1	e 8	16	5	i 1	e *	e 30	194	11	1	e D	0		
Pesticides, fertilizers, and other agricultural chemicals	3253	126	2,157	1	i *	e 5	i 3	35	i D	*	e D	1	i 7	e 5	i 59	i 2	63	i D	58	i 6	i *	4	e 1	3	i D	D	D	19	i D	2	i	
Pharmaceuticals and medicines	3254	728	50,242	65	*	263	10	11,923	319	3,824	D	21	349	236	6	i 16	3,582	i 2,557	47	51	15	4	8	456	7,441	79	179	4	D	15		
Soaps, cleaning compounds, and toilet preparations	3256	449	1,283	1	e 0	2	i 2	131	1	e 151	*	e *	e 17	15	*	e *	e 88	4	e 1	e 59	i *	e 1	i 0	*	e 5	1	e 102	1	e 8	*	e	
Paints, coatings, adhesives, and other chemicals	3255, 3259	618	1,339	5	0	12	1	e 56	D	29	D	*	e 6	i 11	i 0	*	e 54	i D	1	e 53	230	2	e *	e 1	e D	D	D	1	i D	*	e	
Plastics and rubber products	326	1,329	2,390	7	e *	e 355	13	122	i 57	32	5	0	11	e 32	i *	e 2	i 82	103	25	11	i 34	36	1	e 149	33	221	77	7	i 19	i 1	i	
Nonmetallic mineral products	327	479	1,239	3	i *	e 3	1	e 20	38	1	e *	e *	e 27	13	*	e *	e 34	4	i 1	e 1	e 6	i 1	e *	e 3	78	13	10	3	3	1		
Primary metals	331	380	579	1	e *	e 1	3	9	i 7	3	5	0	*	e 6	*	e *	e 26	27	20	1	2	i *	e 1	8	3	i 37	7	8	3	*	e	
Fabricated metal products	332	3,772	2,039	12	e *	e 54	3	e 174	i 16	i 85	2	e *	e 28	i 58	*	e 1	e 153	76	18	i 19	i 20	i 8	e 3	e 11	42	i 99	i 39	i 3	e 53	1	i	
Machinery	333	4,041	12,544	32	*	e 61	i 17	e 2,862	i 105	248	2	i 0	108	123	1	10	i 2,095	276	811	125	i 62	37	6	e 155	i 313	i 383	449	20	105	78	i	
Agricultural implements	33311	264	1,516	1	e 0	7	1	e 24	3	*	e *	e 0	1	i 31	0	2	e 300	7	i 754	84	i *	e 15	*	e 1	i 2	5	87	i *	e 1	e *	e	
Semiconductor machinery	333242	52	2,917	*	e 0	34	i 0	1,990	i *	i 29	0	0	5	0	0	*	i *	e *	e 0	0	0	0	0	1	185	i *	e 62	0	0	77	i	
Engines, turbines, and power transmission equipment	3336	323	2,381	4	0	1	*	e 115	62	26	0	0	22	20	0	*	1,548	152	*	e 6	*	*	e 1	*	e 13	48	30	*	1	e *	e	
Other machinery	other 333	3,404	5,731	27	*	e 19	16	e 732	41	192	2	i 0	80	71	1	8	i 247	116	57	35	61	22	e 4	e 153	i 112	330	271	19	103	1	e	
Computer and electronic products	334	2,977	63,765	154	1	2,693	32	i 32,408	1,490	247	76	23	725	672	12	1,132	1,398	139	252	356	36	10	58	373	2,798	252	934	16	132	i 5		
Communications equipment	3342	432	17,999	96	1	71	D	11,550	340	62	2	D	352	466	11	D	816	61	9	23	7	6	7	263	382	46	86	i 4	33	2		
Semiconductors and other electronic components	3344	906	28,597	15	*	1,761	2	e 14,925	492	21	e 32	D	105	i 64	*	1,041	172	22	29	i 5	e 2	e 0	47	43	1,084	34	79	2	84	i *		
Navigational, measuring, electromedical, and control instruments	3345	1,097	9,218	32	*	e 855	24	i 2,837	172	146	41	*	230	114	*	i D	255	24	213	D	17	i 4	3	42	i 795	89	293	7	14	i 2		
Electromedical, electrotherapeutic, and irradiation apparatuses	334510, 334517	222	2,525	6	0	32	i 20	i 1,068	i 26	i 61	i *	e *	107	i 24	i *	i *	e 86	i 5	i 6	i *	e 8	i 1	e 1	e 17	i 252	20	i 39	*	e 2	*	e	
Search, detection, navigation, guidance, aeronautical, and nautical systems and instruments	334511	64	2,881	6	0	763	0	422	33	13	1	0	51	31	0	*	e D	5	D	D	3	2	1	13	169	14	122	*	i *	e 1		
Other measuring and controlling devices	other 3345	810	3,813	20	*	e 59	i 4	1,347	113	72	40	0	72	59	*	e D	D	14	i D	D	6	1	e 1	e 12	373	54	132	7	12	i 1		
Other computer and electronic products	other 334	542	7,951	11	0	7	D	3,096	486	18	i *	0	38	28	*	D	156	32	1	D	11	*	e 2	24	538	i 84	i 476	2	e 1	e *	e	
Electrical equipment, appliances, and components	335	949	3,852	5	e *	e 34	1	e 539	18	50	2	*	e 39	96	0	6	158	43	18	i 3	2	e 2	e *	e 11	233	492	i 112	17	69	6		
Transportation equipment	336	1,689	29,224	143	2	71	10	e 2,536	252	847	4	e 0	450	357	1	6	i 588	1,027	15	e 356	96	55	27	331	327	12,258	381	19	854	25		

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Automobiles, bodies, trailers, and parts	3361-63	1,037	16,636	48	* e	7	3 e	996 i	2 e	15	* e	0	11	D	* e	1 e	350	937	11 e	17	D	1 e	* e	49	90	11,998	56	13	D	* e	
Aerospace products and parts	3364	331	11,138	63	2	50	7 e	1,459	242 e	819	4 e	0	390	73	1	4 i	188 i	84	3	339	D	4	25	266	216	110	145	5	D	25	
Aircraft, aircraft engines, and aircraft parts	336411-13	317	10,754	54	2	34	7 e	1,358	124 e	815	4 e	0	389	73	1	4 i	188 i	84	3	339	D	4	D	266	216	110	68	5	D	* e	
Guided missiles, space vehicles, and related parts	336414-15, 336419	15	385 i	9	0	17	0	101 i	118	4	0	0	1	0	0	0	0	0	0	0	2	0	D	0	0	0	76	0	D	25	
Military armored vehicles, tanks, and tank components	336992	19	5	* e	0	* e	0	0	0	0	0	0	* i	* e	0	0	* i	0	0	0	0	0	0	*	1	* e	*	0	0	0	
Other transportation	other 336	302	1,445	32	* e	13	1 e	81	8	13	* e	0	49	D	* e	1 i	50	7	* e	* e	D	50	2	15 i	19	150	180	1 i	D	* e	
Furniture and related products	337	615	443	8	* e	3 i	1 e	22 i	24	1 e	* e	* e	3 e	42	* e	* e	24	25	24	2 i	7	* e	* e	1 e	1 e	97	8	4 i	2 e	* e	
Miscellaneous	339	2,332	13,365	61 i	1 e	106	6 e	3,366	194	270 i	18	* e	185	D	1 e	13	286	362	9 e	15 e	12 e	4 e	89	152	1,117	221	2,367	5	187 i	5	
Medical equipment and supplies	3391	1,217	11,211	47 i	1 e	78	4 e	3,070	165 i	252 i	17	0	173	91	1 e	2 e	100	353	5 e	11 e	8 e	3 e	88	146	1,035	203	2,359	4	179 i	2 e	
Other miscellaneous manufacturing	3399	1,116	2,154 i	15	* e	28	1 e	296 i	29	18	1	* e	12 i	D	* e	10	186	10 i	4 i	5 i	3 i	1 e	1 e	6	82 i	18 i	9 e	1 e	8 i	3	
Nonmanufacturing industries	21-23, 42-81	23,846	100,885	346	25 e	762	68 e	40,255	1,051	590	173	153	1,740	1,709	41 e	53 e	2,195	287	153	415	120 e	132 e	48 e	1,066	5,009	729	1,110	41 e	937	50	
Mining, extraction, and support activities	21	321	3,393	* e	1 e	17	1 e	167	13	* e	* e	* e	4 i	8	* e	* e	3	4	* e	4	2 e	8 e	1	* e	D	16	2	1 e	* e	1 e	
Utilities	22	72	446	16	* e	* e	* e	184	3	* e	* e	* e	2	13	1	* e	* i	* e	* i	*	* e	* e	* e	D	* e	* e	* e	2	2	* e	
Wholesale trade	42	5,668	1,684 i	15 e	2 e	21 e	9 e	201 e	35 i	29 e	2 e	1 e	61 e	41 e	4 e	7 e	77 e	28 e	20 e	14 e	14 e	18 e	3 e	22 e	42 e	43 e	39 e	7 e	29 e	3 e	
Electronic shopping and electronic auctions	454111-12	710	1,517 i	* e	* e	2 e	* e	1,020 i	4 i	3 e	* e	* e	6 e	2 e	* e	* e	6 e	3 i	1 e	1 e	7	* e	* e	1 e	5 e	3 e	2 e	* e	2 e	* e	
Transportation and warehousing	48-49	35	403	* e	* i	* e	1	1 i	3	* e	1 i	* e	8	2	* e	* e	12	*	* e	4	* e	* e	* e	D	* e	* e	* e	* e	* i		
Information	51	3,309	64,578	132	3 e	111	29	32,839	632	346	92	43	920	738	6 e	17 e	609	130	88	60	28	19 e	18	322	3,398	314	352	5 e	221	23	
Publishing	511	1,385	32,598	83	1	58 i	5 e	12,808	310	104	64	22 i	620	550	3	10 e	269	36	36	19 i	14	11 e	13	193	2,487	i	253	203	2 e	58 i	5
Newspaper, periodical, book, and directory publishers	5111	82	98 i	* e	* e	* e	* e	30	* e	* e	* e	8	1 e	* e	* e	* e	1 e	* e	* e	* e	* e	* e	* e	* e	28	1 e	* e	* e	* e	* e	
Software publishers	5112	1,303	32,500	82	1	58 i	4 e	12,778	310	104	64	14 e	619	549	3	10 e	269	36	35	18 i	14	11 e	12	193	2,460	i	253	203	2 e	58 i	5
Telecommunications	517	445	3,537	4 e	2 e	6 e	6 e	130	99	2 e	1 e	1 e	34	13 e	1 e	1 e	77	4 e	7 e	26	5 e	3 e	4 e	15	21	6 e	7 e	1 e	5 e	3 e	
Data processing, hosting, and related services	518	1,147	9,314	44	* e	46	17	3,774	136	235	27 i	4 e	248 i	150	2 e	4 e	201	88	35	5 e	8	4 e	1 e	107	576	33	131	1 e	135	15	
Other information	other 51	331	19,129	2 i	* e	2 e	1	16,127	87	5	* e	15	18	25	* e	2	62	2 e	11	11	1 e	1 e	* e	6	314	22	11	1	23	* e	
Finance and insurance	52	105	5,329	5 e	* e	278	2 e	500 i	23	32	21	3	174	529	1 e	1 e	921	4 e	3 e	7	2 e	3 e	1 e	9 e	64	40	9 e	2 e	16	2	
Real estate and rental and leasing	53	50	301	* e	* e	* e	* e	161	1	* e	* e	34	*	7	* e	* e	13	*	*	* i	* e	* i	* e	3	2	* e	* i	* e	* e	* e	
Lessors of nonfinancial intangible assets (except copyrighted works)	533	22	68	0	0	0	0	57	1	0	0	0	*	1 i	0	0	0	* e	* e	0	0	0	0	3	0	0	* i	0	0	0	
Other real estate and rental and leasing	other 53	28	232	* e	* e	* e	* e	104	*	* e	* e	34	*	6	* e	* e	13	* e	* e	* i	* e	* i	* e	*	2	* e	* e	* e	* e	* e	
Professional, scientific, and technical services	54	12,423	21,915	168	18 e	325	19 e	4,797	322	170	56	61 e	515 e	364	28 e	26	524	107 e	39 e	316	53 e	79 e	24	526 e	1,401	279 e	692	23 e	654	20	
Architectural, engineering, and related services	5413	2,515	2,247 i	40 e	10 e	22 e	6 e	274 e	50 e	35 i	4 e	9 e	77 e	42 e	7 e	9	70 e	23 e	8 e	12 e	11 e	39 e	6 e	55 e	89 i	63 e	25 e	10 i	22 e	8 i	
Computer systems design and related services	5415	6,016	12,418	100	4 e	227	8 e	2,912	124	72	35	25 e	273	217	15	10	253 e	57 e	19 e	291	26 e	17 e	13	229 e	676	118 e	541	4 e	576	4 e	
Scientific research and development services	5417	1,871	3,896	23 e	3 e	53	3 e	1,184	95	52	15 e	3 e	115	18	5 e	2 e	43	19	9 e	10	10 e	5 e	3 e	161 i	555 i	71 i	49	7	41	7	
Biotechnology research and development	541711	502	1,536 i	1 e	1 e	8	2 e	541	33	25 i	1 e	1	46 i	1 e	2 e	* e	16	3	5	5	2 e	1 e	1 e	65 e	291	15 i	11	0	19	* e	
Physical, engineering, and life sciences (except biotechnology) research and development	541712	1,348	2,348	21 e	2 e	45	1 e	639	62	27	14 e	2 e	69 e	16	3 e	2 e	27 i	17	3 e	5 e	8 e	5 e	2 e	96 i	261 i	56	37	7	21	6	
Social sciences and humanities research and development	541720	20	12 i	* e	0	* e	0	4	* e	* e	* e	0	* e	* i	* e	0	* i	* e	* e	* e	0	0	* e	* i	2 i	0	* e	0	1 i	* e	
Other professional, scientific, and technical services	other 54	2,021	3,354	6 e	1 e	24 i	2 e	426 i	53	11 e	2 e	24 e	51 e	87	1 e	5	158	7 e	3 e	4 e	5 e	18	2 e	80	81 i	27 e	78	2 e	15 e	1 e	

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Health care services	621-23	669	460	2	* e	3 i	1 i	200	1 e	3	* e	* e	5 e	2 e	* e	* e	4 e	1 e	1 e	1 e	1 e	1 e	* e	9 i	19	14	1 e	* e	4	* e	
Other nonmanufacturing	23, 44-45 (excluding 454111-12), 55-56, 624, 71-72, 81	490	861	7	* e	4 e	5 i	186	15	7	* e	11 i	43	4 e	1 e	* e	26	10	1 e	9	13	3 e	* e	D	D	21	13	1 e	10	* e	
All companies (number of domestic employees)	-	48,789	296,677	875	32 e	4,450	271	95,020	3,665	6,441	2,049	198	3,788	3,821	123 i	1,304	11,467	5,346	1,916	1,515	763	325	259	2,825	17,719	15,620	6,290	186	3,737	200 i	
Micro companies ^b																															
5-9	-	10,152	1,972 i	25 e	3 e	18 e	7 e	362 e	32 e	32 e	5 e	7 e	59 e	43 e	4 e	D	113 e	27 e	13 e	12 e	10 e	14 e	5 e	73 e	175 i	54 e	35 e	6 e	22 e	2 e	
Small companies																															
10-19	-	11,768	4,434 i	47 e	5 e	54 e	15 e	936 e	74 e	63 e	15 e	13 e	167 e	90 e	D	D	157 e	58 e	25 e	28 e	27 e	27 e	9 e	158 e	329 i	116 e	90 e	13 e	45 e	6 e	
20-49	-	12,421	7,933 i	54 e	7 e	84 e	22 e	1,857	118 e	93 e	18 e	16 e	198 e	189 e	9 e	18 e	303 e	108 e	41 e	44 e	39 e	43 e	12 e	250	864	244 e	180 i	22 e	73 e	26	
Medium companies																															
50-99	-	6,246	8,803	62 e	7 e	110	26 e	2,407	123 e	113	12 e	24 e	254 e	120 e	10 e	18 e	284 e	130 e	43 e	47 e	45 e	38 e	20 e	106 e	750	234	212	15 e	85 e	9 e	
100-249	-	4,119	11,037	81 i	2 e	118	23	3,673	409	228	14	21	211	159	4 e	22 i	354	105	106	42	41 i	18 e	7 e	155	649	281	230	10 e	132	8	
Large companies																															
250-499	-	1,760	11,368	85	3 e	114	11 e	2,961	163	121	27	7 e	208	146	3 e	17	378	158	30	43	53	59	4 e	188	1,369	290	213	10 e	117	8	
500-999	-	912	13,194	44	1 e	74	7	4,038	236	72	D	13	230	111	D	4	427	146	90	38	35	14	8	157	869	438	426	5	76	12	
1,000-4,999	-	963	48,264	269	1 e	590	18	18,808	735	749	86	40	493	906	23	75	1,630	528	94	294	310	62	152	500	4,981	1,313	907	21	269	5	
5,000-9,999	-	199	34,660	73	* e	641	39	16,073	515	233	21	9	570	160	1 i	42	718	405	51	246 i	70	10	3	231	1,940	696	625	21	215	91 i	
10,000-24,999	-	149	48,450	41	1	524	17	11,716	440	1,561	D	17 i	664	287	D	D	3,886 i	3,421	269	582	27	11 i	31	483	2,360	1,949	2,020	43	1,341 i	30	
25,000 or more	-	100	106,562	92	1	2,122	85	32,189	821	3,177	1,314	30	734	1,610	5	244	3,216	260	1,154	140	106	30	10	524	3,430	10,005	1,351	20	1,363	3	

* = amount < \$500,000; D = data withheld to avoid disclosing operations of individual companies. e = estimated, more than 50% of the estimate is modeled—see technical notes; 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.

^b 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. For a given estimate in this table, if the conditions are satisfied for both the i and e flags, the e flag is assigned because the imputation rate may be found in the corresponding table of imputation rates. Statistics are representative of companies located in the United States that performed or funded R&D. Changes in data collection and imputation processes have affected the comparability of company count estimates in this table with estimates published for previous years.

Source(s)

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