

TABLE 25

Domestic R&D paid for and performed by the company, by type of cost, industry, and company size: 2017

(Millions of U.S. dollars)

Industry and company size	NAICS code	Total	Salaries, wages, and fringe benefits	Stock-based compensation	Temporary staffing	Expensed equipment	Materials and supplies	Lease and rental payments	Depreciation	Royalties and licensing fees	Other purchased services (except R&D)	Other
All industries	21-23, 31-33, 42-81	339,036	195,095	24,315	14,013	5,800	23,309	5,694	13,495	2,117	8,078	47,120
Manufacturing industries	31-33	216,155	117,622	9,665	7,787	3,436	20,248	3,076	9,760	1,931	5,941	36,689
Food	311	4,453	2,863	45	76	25	484	24	206	2	160	568
Beverage and tobacco products	312	968	544	15	31	2	79	10	48	*	40	198
Textile, apparel, and leather products	313-16	919	589	16	25	67	96	3	18	*	15	90
Wood products	321	170	126	0	5	2	23	1	2	0	4	6
Paper	322	1,292	692	0	38	36	412	6	39	1	7	61
Printing and related support activities	323	218	146	2	8	10	20	3	10	*	1	18
Petroleum and coal products	324	301	191	0	0 - 7	8	33	0 - 5	6 - 13	1	9	35 - 42
Chemicals	325	63,285	28,469	3,513	3,584	307	5,471	1,094	3,126	666	1,629	15,428
Basic chemicals	3251	2,393	1,393	3	33 - 51	32	258	46	143	24	93	348 - 366
Resin, synthetic rubber, and artificial synthetic fibers and filaments	3252	612	401	0 - 107	15 - 26	1	43	16	25	0	5	0 - 107
Pesticide, fertilizer, and other agricultural chemicals	3253	1,092	513 - 541	0 - 149	67 - 119	1	70 - 90	41	136 - 162	3	6	46 - 257
Pharmaceuticals and medicines	3254	55,229	23,689	3,351	3,318	253	4,885	957	2,671	635	1,488	13,982
Soap, cleaning compound, and toilet preparation	3256	2,488	1,498	12	95	6	124	16	81	0	17	639
Paint, coating, adhesive, and other chemicals	3255, 3259	1,471	949 - 974	0 - 149	2 - 27	14	70 - 90	19	43 - 68	3	20	107 - 287
Plastics and rubber products	326	3,637	2,186	55	86	44	520	60	197	7	153	330
Nonmetallic mineral products	327	1,303	835	1	61	6	63	10	103	*	16	207
Primary metals	331	741	393	6	9	5	148	8	37	*	9	125
Fabricated metal products	332	2,099	1,349	23	47	23	349	15	32	5	32	222
Machinery	333	12,257	7,419	221	439	108	1,557	112	490	15	112	1,783
Agricultural implement	33311	1,511	892	0	106	4	277	4	36	2	4	186
Semiconductor machinery	333242	3,228	1,571	165	20	3	394	32	255	2	15	771
Engine, turbine, and power transmission equipment	3336	1,921	1,182	1	0 - 314	2	232	3	79	*	8	95 - 418

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Other machinery	other 333	5,596	3,774	55	0 - 314	99	654	73	120	11	85	408 - 730
Computer and electronic products	334	69,942	40,465	5,373	1,263	1,453	4,313	1,230	4,044	992	2,776	8,035
Communications equipment	3342	10,972	6,351	673	412	169	349	840	545	19	465	1,149
Semiconductor and other electronic components	3344	27,859	17,003	1,905	335	342	1,552	183	1,839	613	1,094	2,994
Navigational, measuring, electromedical, and control instruments	3345	10,089	6,497	151	297	133	819	104	230	6	240	1,611
Electromedical, electrotherapeutic, and irradiation apparatus	334510, 334517	2,545	1,429	30	80	11	183	25	66	3	93	625
Search, detection, navigation, guidance, aeronautical, and nautical system and instrument	334511	3,214	2,231	18 - 32	115	15 - 39	253	14	71	*	82 - 111	363 - 416
Other measuring and controlling device	other 3345	4,329	2,837	88 - 102	102	83 - 107	384	66	92	2	35 - 64	571 - 622
Other computer and electronic products	other 334	21,022	10,613	2,644	218	808	1,593	102	1,430	355	977	2,281
Electrical equipment, appliances, and components	335	4,110	2,803	42	106	35	327	69	98	4	102	524
Transportation equipment	336	34,629	18,867	10	1,408	1,123	5,134	293	727	189	455	6,423
Automobiles, bodies, trailers, and parts	3361-63	21,137	12,534	6	1,168	981	3,468	201	557	156	226	1,840
Aerospace products and parts	3364	11,903	5,400	*	173 - 190	103	1,259	62 - 93	110 - 171	13	192	4,479 - 4,584
Aircraft, aircraft engine, and aircraft parts	336411-13	11,473	5,185	*	174	101	1,169	59 - 92	108 - 171	13	192	4,372 - 4,471
Guided missile, space vehicle, and related parts	336414-15, 336419	430	215	0	0 - 16	1	90	2	0 - 3	0	*	103 - 124
Military armored vehicle, tank, and tank component	336992	4	0 - 5	0	*	*	0 - 5	*	0 - 1	*	*	*
Other transportation	other 336	1,585	927 - 935	3	48 - 67	40	401 - 409	0 - 29	0 - 59	19	37	0 - 105
Furniture and related products	337	419	309	1	10	1	44	5	4	2	6	37

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250-499	-	11,773	7,223	613	485	131	948	249	272	111	242	1,498
500-999	-	16,295	9,878	1,124	650	309	1,201	288	484	134	385	1,843
1,000-4,999	-	52,341	30,839	3,954	1,764	646	2,772	656	1,950	382	828	8,550
5,000-9,999	-	32,701	19,636	1,804	1,463	233	2,074	402	1,352	35	537	5,165
10,000-24,999	-	63,415	36,132	4,690	2,231	957	4,893	901	3,250	167	1,930	8,264
25,000 or more	-	130,931	71,307	11,051	6,039	3,190	8,708	2,477	5,445	793 - 834	i 3,537	18,340 - 18,388

* = amount < \$500,000; i = > 50% of the estimate is a combination of imputation and reweighting to account for nonresponse.

NAICS = 2012 North American Industry Classification System.

^a Business Research and Development Survey does not include companies with fewer than 10 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. An estimate range may be displayed in place of a single estimate to avoid disclosing operations of individual companies.

Source(s)

National Center for Science and Engineering Statistics and U.S. Census Bureau, Business Research and Development Survey, 2017.