

TABLE 51-B

R&D paid for by the company and others and performed by the company outside of the United States, by selected location, industry, and company size: 2017 (part B)

(Millions of U.S. dollars)

Industry and company size	NAICS code	Total outside the United States	Argentina	Brazil	Chile	Mexico	Other Latin American locations	Australia	China	Hong Kong	India	Indonesia	Japan	Malaysia	New Zealand	Singapore	South Korea	Taiwan	Thailand	Other Asia and Pacific locations	Israel	Other Middle Eastern locations	South Africa	Other African locations	Undistributed
All industries	21-23, 31-33, 42-81	87,528	353	1,526	119	900	1,470	1,844	7,188	423	7,726	42	3,588	789	134	2,192	1,413	1,166	343	932	4,318	233	186	132	1,663
Manufacturing industries	31-33	57,270	201	1,170	69	728	1,388	1,154	5,166	185	3,822	36	2,491	766	62	1,661	1,171	872	263	484	2,996	168	69	79	718
Food	311	865	5	96	5	22	10	37	150	*	7	3	2	*	2	20	4	*	6	13	*	*	1	0	154
Chemicals	325	14,450	130	289	37	135	247	242	802	46	339	8	905	11	11	219	77	75	23	51	165	75	43	20	74
Pharmaceuticals and medicines	3254	11,976	98	173	22	82	223	228	570	29	283	2	841	5	10	124	71	70	12	22	152	71	32	17	2
Other chemicals	other 325	2,474	32	116	15	53	24	14	232	17	55	6	64	6	1	95	6	6	10	29	13	4	11	3	72
Plastics and rubber products	326	902	27	72	1	23	10	5	126	8	8	1	62	1	2	2	54	13	5	2	0	10	*	1	0-34
Nonmetallic mineral products	327	181	0	0	0	5	0	*	11	0	1	0	35	0	*	0	40	8	0	1	20	0	0	0	*
Fabricated metal products	332	166	1	1	*	3	*	2	7	0	4	*	41	*	0	1	2	*	1	*	0	1	*	0	3
Machinery	333	3,266	2	96	1	13	1	31	296	4	168	*	105	12	9	72	147	44	1	11	228	4	2	*	54
Computer and electronic products	334	22,648	19	53	1	126	990	105	2,265	79	2,789	10	926	734	31	1,208	202	671	180	312	2,372	20	8	*	355-436
Electrical equipment, appliances, and components	335	1,867	*	113	1	32	7	5	385	20	55	0	82	*	0	2	31	20	2	36	5	3	1	0	*
Transportation equipment	336	8,822	6	397	*	320	16	596	699	*	345	*	112	1	0	4	563	17	20	6	61	1	0-17	0-60	0-81
Miscellaneous manufacturing	339	2,787	0-15	27	21	17	66	127	260	22	91	1	184	5	6	87	26	13	1	11	145	6	0-17	0-60	0-81
Other manufacturing	312-16, 321-24, 331, 337	1,315	0-15	28	2	30	40	4	165	7	16	14	38	1	1	44	24	11	23	40	*	47	0-17	*	0-81
Nonmanufacturing industries	21-23, 42-81	30,258	152	356	50	173	82	690	2,022	237	3,904	5	1,096	24	72	532	242	295	80	448	1,322	66	117	53	945
Wholesale trade	42	37	0	0	0	0	0	0	*	27	0	0	1	0	0	0	*	0	0	*	0	0	0	0	1
Information	51	14,646	43	107	24	63	38	308	1,154	134	2,646	1	254	9	37	165	73	163	5	370	727	17	15-30	23-39	116-139
Telecommunications	517	94	*	3	*	3	0-9	*	2	*	15	0	0	0	0-20	0-46	3	0	0	0	0	0	0	0	0-46
Data processing, hosting, and related services	518	2,272	23	12	*	2	30	57	104	4	348	*	25	2	18	17	3	8	*	13	103	8	16	0	79-138
Other information	other 51	12,281	20	92	23	58	0-9	250	1,048	130	2,283	1	229	7	0-20	101-149	67	155	5	357	624	9	0-15	23-39	0-60
Professional, scientific, and technical services	54	11,064	108	148	25	84	37	216	652	49	670	4	570	11	18	205	116	127	17	66	507	15	88	10	394-416
Architectural, engineering, and related services	5413	53	0	*	0	4	0	*	1	*	*	0	*	0	0	3	0	*	0	*	0	7	0	0	1
Scientific research and development services	5417	7,124	107	104	23	65	32	135	292	24	207	2	500	10	16	179	115	46	16	17	62	7	84	6	1
Biotechnology research and development	541711	1,996	15	18	7	29	12	56	93	5	42	*	63	2	7	13	33	14	3	3	18	*	8	0	*
Data processing, hosting, and related services	other 5417	5,128	92	85	15	37	19	78	200	20	165	2	437	9	9	166	82	32	13	14	44	7	76	6	1
Other professional, scientific, and technical services	other 54	3,888	1	44	2	15	5	81	359	24	463	2	69	*	2	23	1	81	1	49	445	*	4	4	391-415
Other nonmanufacturing	21-23, 44-45, 48-49, 52-53, 55-56, 621-24, 71-72, 81	4,511	1	101	2	26	7	166	216	27	588	*	272	3	17	161	53	4	58	12	88	34	0-15	3-21	388-435

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(Millions of U.S. dollars)

Industry and company size	NAICS code	Total outside the United States	Argentina	Brazil	Chile	Mexico	Other Latin American locations	Australia	China	Hong Kong	India	Indonesia	Japan	Malaysia	New Zealand	Singapore	South Korea	Taiwan	Thailand	Other Asia and Pacific locations	Israel	Other Middle Eastern locations	South Africa	Other African locations	Undistributed	
All companies (number of domestic employees)	-	87,528	353	1,526	119	900	1,470 i	1,844	7,188	423	7,726	42	3,588	789	134	2,192	1,413	1,166	343	932 i	4,318	233	186	132	1,663 i	
Small companies																										
10-19 ^a	-	136	0	0	0-5	0	0-6	1	17	*	6	0	*	0	*	*	14	1	0	*	8	*	0	0	13	
20-49	-	577	*	5	0-5	2	0-6	16	94	*	50	*	19	*	0	1	3	27	1	4	46	0	0	0	201 i	
Medium companies																										
50-99	-	482	4	16	0	1	*	2	62	1	63	*	3	*	*	4	3	7	*	6	60	*	3	0	0-18	
100-249	-	1,380	1	8	1 i	9	13	12	168	22	58	14	11	*	2	53	11 i	82	2	13	28	8	10	0	13 i	
Large companies																										
250-499	-	2,272	13	9	1	32	45	11	235	31	179	0	80	4	2 i	143	142	69	1	63	105	10	2	0	2	
500-999	-	2,516	35	15	2	37	15	52	198	16	105	3	86	26	*	77	17	64	8	6	78	*	1	1	243 i	
1,000-4,999	-	15,143	22	147	11	106	48	307 i	1,346	107	1,839	6	342	60	40	265	121	209	88	441 i	487	5	0-58	3-66	155-183 i	
5,000-9,999	-	14,230	100 i	125 i	22 i	65 i	955 i	180	795	31 i	1,325	2 i	908 i	308 i	27	420 i	196	105 i	169	164	426	29	82 i	6 i	455 i	
10,000-24,999	-	14,505	95	395	39	162	172	172	1,001	34	1,007	4	755	13	38	738	137	257	14	116	254	43	0-58	0-59	404 i	
25,000 or more	-	36,287	81	805	42	486	220	1,091	3,272	179	3,096	12	1,384	377	25	492	767	345	61	119	2,826	137	34	61	154 i	

* = 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. Country detail was not collected from companies reporting less than \$1 million of R&D paid for by the company or reporting less than \$1 million of R&D paid for by others. 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.