



TABLE 51-A

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: 2018 (part A)

(Millions of U.S. dollars)

Industry and company size	NAICS code	Total outside United States	Puerto Rico <sup>a</sup>	Canada	Austria	Belgium	Czechia	Denmark	Finland	France	Germany	Hungary	Ireland	Italy	Luxembourg	Netherlands	Norway	Poland	Russia	Spain	Sweden	Switzerland	Turkey	United Kingdom	Other European locations					
Scientific research and development services	5417	8,370 - 8,379	0 - 8 i	420	46	156	65	33	42	483	516	73	127	199	0	310	i	8	i	156	125	212	58	440	24	2,081	339			
Research and development in biotechnology	541711	2,590	0	78	4	60	24	9	5	142	194	26	23	72	0	45	4	64	33	81	20	394	6	594	111					
Other scientific research and development	other 5417	5,779 - 5,790	0 - 8 i	342	42	96	41	i	24	37	341	323	48	103	127	0	264	i	4	i	92	i	92	131	38	47	17	1,487	228	
Other professional, scientific, and technical services	other 54	4,871	0	466	8	10	69	6	*	141	328	1	314	40	0	45	11	31	5	45	7	71	2	442	99					
Other nonmanufacturing	21-23, 44-45, 48-49, 52-53, 55-56, 621-24, 71-72, 81	5,002 i	0 - 13	263 i	4 i	8 i	26	22	2 i	86 i	327 i	*	628 i	31 i	59 - 88 i	210	3 i	24 i	2	34 i	42 i	113 i	0 - 25	586 i	138 i					
All companies (number of domestic employees)	-	100,376	493	6,140	746	2,549	547	641	578	3,332	8,391	238	4,043	1,670	259	2,289	391	854	450	1,168	1,311	4,434	109	11,278	2,527					
Small companies																														
10-19 <sup>b</sup>	-	128	0	4	5	0	2	0	*	2	7	0	2	2	0	1	0	*	0	*	5	10	0	8	6					
20-49	-	569	0	43	44	20	i	*	2	*	15	30	*	3	4	0	5	0	5	6	24	*	3	0	60	58				
Medium companies																														
50-99	-	692	*	30	i	1	5	13	4	0	20	68	3	1	2	0	13	*	2	5	5	11	4	*	92	26				
100-249	-	1,872	2	87	1	7	8	7	1	36	145	*	59	39	*	20	12	13	10	6	25	332	*	249	31					
Large companies																														
250-499	-	2,179	*	162	4	2	3	4	3	40	89	2	154	28	0	72	8	4	7	18	11	72	*	322	79					
500-999	-	2,557	0	115	9	19	41	24	20	87	151	14	72	29	4	17	18	32	34	37	19	40	8	579	144					
1,000-4,999	-	15,184	28	2,095	36	214	44	232	121	702	1,335	75	494	204	0 - 43	469	36	101	75	132	324	647	0 - 37	1,286	566					
5,000-9,999	-	15,538	9	886	118	183	148	104	63	i	634	940	62	580	231	2	404	45	i	226	96	i	280	294	579	i	42	1,923	373	i
10,000-24,999	-	22,356	432	769	372	426	36	87	78	1,049	2,135	40	355	615	120 - 166	770	94	169	78	466	258	695	0 - 37	2,358	646					
25,000 or more	-	39,301	21	1,949	155	1,671	252	178	291	745	3,491	42	2,322	515	89	i	518	177	301	138	199	365	2,052	24	4,400	597				

\* = 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.

<sup>a</sup> Puerto Rico is not included in the U.S. total due to its classification as a U.S. territory.

<sup>b</sup> 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. Beginning in survey year 2018, statistics are representative of companies located in the United States that performed or funded \$50,000 or more of R&D. This change has affected the comparability of these estimates with estimates published for years prior to 2018. 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, 2018.