

TABLE 29

For companies that performed foreign R&D, domestic and foreign R&D paid for by the company and others and performed by the company, by type of R&D and selected industry: 2019

(Millions of U.S. dollars)

Industry	NAICS code	Total	Paid for by		Research (basic and applied)			Development			
			the company	by others	Total	Paid for by the company	Paid for by others	Total	Paid for by the company	Paid for by others	
Total domestic R&D performance											
All industries	21-23, 31-33, 42-81	359,341	325,595	33,746	66,277	58,001	8,276	293,064	267,594	25,470	i
Manufacturing industries	31-33	209,614	191,043	18,572	44,682	41,208	3,474	164,932	149,834	15,098	
Chemicals	325	65,887	63,703	2,184	22,029	21,473	556	43,858	42,230	1,628	
Pharmaceuticals and medicines	3254	59,464	57,637	1,826	19,626	19,419	207	39,838	38,218	1,619	
Other chemicals	other 325	6,423	6,065	358	2,403	2,053	350	4,020	4,012	9	
Computer and electronic products	334	76,515	69,012	7,503	11,361	9,905	i 1,456	65,154	59,107	6,047	
Semiconductor and other electronic components	3344	31,900	i 30,620	i 1,280	3,747	i 3,376	i 371	28,153	i 27,244	i 910	
Other computer and electronic products	other 334	44,615	38,392	6,223	7,614	6,529	1,085	37,001	31,863	5,138	
Nonmanufacturing industries	21-23, 42-81	149,727	134,552	15,174	i 21,594	16,792	4,802	128,132	117,760	10,373	i
Information	51	94,642	94,184	458	7,852	7,715	137	86,791	86,469	321	
Software publishers	5112	30,216	29,778	438	2,539	2,411	128	27,677	27,367	310	
Other information	other 51	64,427	64,406	21	5,313	5,304	9	59,114	59,102	11	
Professional, scientific, and technical services	54	30,932	16,324	14,608	i 7,672	3,070	4,602	23,260	i 13,254	i 10,006	i
Scientific research and development services	5417	14,174	i 456	i 13,718	i 4,237	161	4,076	9,936	i 295	9,641	i
Other professional, scientific, and technical services	other 54	16,759	15,868	891	3,435	2,909	526	13,324	i 12,959	i 365	
Total foreign R&D performance											
All industries	21-23, 31-33, 42-81	104,464	93,944	10,519	i 17,066	14,324	2,742	87,398	79,620	7,778	i
Manufacturing industries	31-33	64,351	63,006	1,345	11,824	11,585	239	52,527	51,421	1,105	
Chemicals	325	18,568	18,323	245	4,650	4,595	55	13,918	13,728	190	
Pharmaceuticals and medicines	3254	15,868	15,654	214	4,033	4,001	31	11,835	11,652	183	
Other chemicals	other 325	2,700	2,669	31	617	594	24	2,083	2,076	7	
Computer and electronic products	334	25,452	i 24,940	i 512	3,132	i 3,052	i 80	22,320	i 21,888	i 432	
Semiconductor and other electronic components	3344	13,007	i 12,809	i 198	1,490	i 1,446	i 44	11,517	i 11,363	i 154	
Other computer and electronic products	other 334	12,445	12,131	314	1,642	1,606	36	10,803	10,525	278	
Nonmanufacturing industries	21-23, 42-81	40,113	30,939	9,175	i 5,242	2,740	2,503	34,871	i 28,199	i 6,672	i
Information	51	19,051	19,002	48	1,614	1,599	14	17,437	17,403	34	
Software publishers	5112	6,949	6,901	48	754	740	14	6,195	6,161	34	

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					Total	Paid for by the company	Paid for by others	Total	Paid for by the company	Paid for by others							
Other information	other 51	12,102	12,101	* i	859	859	* i	11,242	i	11,242	i	*					
Professional, scientific, and technical services	54	14,790	5,778	9,012	i	3,198	711	2,487	11,592	i	5,066	i	6,526	i			
Scientific research and development services	5417	9,006	i	99	8,908	i	2,449	i	27	i	2,422	i	6,558	i	72	6,486	i
Other professional, scientific, and technical services	other 54	5,784	5,679	105	749	684	65	5,034	i	4,994	i	40					

* = 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.

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. 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.

Source(s):

National Center for Science and Engineering Statistics and Census Bureau, Business Enterprise Research and Development Survey, 2019.