

TABLE 23
 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: 2017

(Millions of U.S. dollars)

Industry	NAICS code	Total	Paid for by the company	Paid for by others	Research (basic and applied)			Development			
					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	300,472	266,198	34,274	56,861	47,832	9,029	243,612	218,366	25,245	i
Manufacturing industries	31-33	192,459	169,176	23,284	43,304	37,559	5,746	149,155	131,617	17,538	i
Chemicals	325	44,441	43,012	1,428	16,127	15,520	607	28,314	27,493	822	
Pharmaceuticals and medicines	3254	38,514	37,468	1,046	14,343	13,873 - 14,119	224 - 470	24,172	23,349 - 23,595	577 - 822	
Other chemicals	other 325	5,926	5,544	382	1,784	1,401 - 1,647	137 - 383	4,143	3,898 - 4,143	0 - 245	i
Computer and electronic products	334	67,751	63,380	4,371	11,258	10,543	715	56,493	52,838	3,656	i
Semiconductor and other electronic components	3344	26,962	26,552	410	5,003	4,958	45	21,959	21,594	365	i
Other computer and electronic products	other 334	40,789	36,828	3,961	6,255	5,584	671	34,534	31,244	3,290	
Nonmanufacturing industries	21-23, 42-81	108,013	97,022	10,991	13,557	10,273	3,283	94,456	86,749	7,707	
Information	51	69,447	68,976	471	6,052	5,974	77	63,395	63,002	394	
Software publishers	5112	30,875	30,458	418	2,914	2,863	50	27,962	27,594	367	
Other information	other 51	38,572	38,518	54	3,138	3,111	27	35,434	35,407	26	
Professional, scientific, and technical services	54	21,228	10,803	10,425	5,543	2,343	3,200	15,685	8,460	7,225	
Scientific R&D services	5417	9,931	553	9,378	2,864	93	2,771	7,067	460	6,607	i
Other professional, scientific, and technical services	other 54	11,298	10,250	1,047	2,679	2,251	428	8,619	8,000	619	
Total foreign R&D performance											
All industries	21-23, 31-33, 42-81	87,528	78,689	8,839	17,141	15,175	1,966	70,387	63,514	6,873	i
Manufacturing industries	31-33	57,270	55,706	1,564	11,986	11,638	348	45,284	44,067	1,217	
Chemicals	325	14,450	14,043	407	3,976	3,810	167	10,474	10,234	240	
Pharmaceuticals and medicines	3254	11,976	11,587	390	3,252	3,099	153	8,725	8,488	237	
Other chemicals	other 325	2,474	2,456	17	725	711	14	1,749	1,746	3	i
Computer and electronic products	334	22,648	22,242	405	4,681	4,591	91	17,967	17,652	315	i
Semiconductor and other electronic components	3344	10,898	10,749	149	2,079	2,077	3	8,818	8,673	146	i
Other computer and electronic products	other 334	11,750	11,493	257	2,602	2,514	88	9,148	8,979	169	
Nonmanufacturing industries	21-23, 42-81	30,258	22,983	7,275	5,155	3,537	1,619	25,103	19,446	5,656	i
Information	51	14,646	14,620	26	1,236	1,232	4	13,410	13,388	22	
Software publishers	5112	8,824	8,817	7	807	807	*	8,017	8,009	7	i

TABLE 23
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: 2017

(Millions of U.S. dollars)

Industry	NAICS code	Total	Paid for by the company	Paid for by others	Research (basic and applied)			Development		
					Total	Paid for by the company	Paid for by others	Total	Paid for by the company	Paid for by others
Other information	other 51	5,822	5,803	18	428	425	4	5,394	5,379	15
Professional, scientific, and technical services	54	11,064	3,892	7,172	2,301	685 - 702	1,599 - 1,616	8,763	3,190 - 3,207	5,556 - 5,574
Scientific R&D services	5417	7,124	82	7,042	1,549	17	1,533	5,574	65	5,509
Other professional, scientific, and technical services	other 54	3,940	3,810	131	751	668 - 685	66 - 83	3,189	3,124 - 3,142	47 - 65

* = 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. Statistics are representative of companies located in the United States that performed foreign 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.