

TABLE 24
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: 2020
(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	401,052	360,199	40,853	70,378	59,636	10,742	330,674	300,563	30,111	i
Manufacturing industries	31-33	229,008	203,609	25,400	47,693	41,898	5,796	181,315	161,711	19,604	
Chemicals	325	65,168	62,192	2,976	22,501	20,901	1,600	42,667	41,291	1,376	
Pharmaceuticals and medicines	3254	59,065	56,420	2,644	20,422	19,124	1,298	38,643	37,297	1,346	
Other chemicals	other 325	6,104	5,772	332	2,079	1,777	302	4,024	3,994	30	
Computer and electronic products	334	91,026	82,355	8,671	12,321	9,985	2,336	78,705	72,371	6,335	i
Semiconductor and other electronic components	3344	40,215	39,280	935	4,195	3,441	754	36,020	35,839	181	i
Other computer and electronic products	other 334	50,811	43,075	7,736	8,126	6,544	1,582	42,685	36,531	6,154	i
Nonmanufacturing industries	21-23, 42-81	172,044	156,590	15,453	22,684	17,738	4,946	149,359	138,852	10,507	i
Information	51	113,256	112,811	445	8,400	8,268	132	104,856	104,543	313	
Software publishers					2,362 - 2,378			28,720 - 28,735		28,421	
Other information	5112	31,098	30,681	417	6,022 - 6,037	2,260	103 - 117	76,121 - 76,137		299 - 314	
Other information	other 51	82,158	82,130	29		6,008	14 - 29		76,122	0 - 14	
Professional, scientific, and technical services	54	27,190	12,257	14,933	7,693	2,882 - 2,922	4,772 - 4,811	19,497	9,335 - 9,376	10,122 - 10,162	i
Scientific research and development services	5417	14,611	715	13,897	4,465	257	4,208	10,147	458	9,689	i
Other professional, scientific, and technical services	other 54	12,578	11,542	1,036	3,228	2,624 - 2,665	563 - 603	9,350	8,876 - 8,918	432 - 473	i
Total foreign R&D performance											
All industries	21-23, 31-33, 42-81	109,705	98,187	11,518	17,011	13,872	3,138	92,694	84,315	8,380	i
Manufacturing industries	31-33	66,243	64,829	1,414	11,111	10,880	231	55,132	53,949	1,183	
Chemicals	325	19,362	19,118	244	4,810	4,743	67	14,552	14,375	177	
Pharmaceuticals and medicines	3254	16,761	16,548	213	4,012	3,968	43	12,749	12,579	170	
Other chemicals	other 325	2,601	2,570	30	798	775	24	1,802	1,796	7	
Computer and electronic products	334	26,567	26,222	346	2,769	2,734	36	23,798	23,488	310	
Semiconductor and other electronic components	3344	13,023	12,868	155	1,450	1,448	2	11,573	11,419	153	i
Other computer and electronic products	other 334	13,544	13,354	190	1,319	1,285	34	12,225	12,069	156	
Nonmanufacturing industries	21-23, 42-81	43,462	33,359	10,104	5,900	2,993	2,907	37,563	30,366	7,197	i
Information	51	22,900	22,869	31	1,999	1,995	3	20,901	20,874	28	
Software publishers	5112	7,683	7,654	29	696	693	3	6,987	6,961	26	
Other information	other 51	15,217	15,215	1	1,303	1,303	*	13,914	13,913	1	i
Professional, scientific, and technical services	54	13,744	3,731	10,013	3,581	719	2,863	10,163	3,012	7,151	i
Scientific research and development services	5417	10,070	196	9,874	2,863	77	2,786	7,207	119	7,087	i

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Other professional, scientific, and technical services	other 54	3,675	3,535	140	718 i	642 i	76 i	2,956 i	2,893 i	63 i

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

NAICS = 2017 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 or funded \$50,000 or more of R&D and are not comparable 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 Census Bureau, Business Enterprise Research and Development Survey, 2020.