

TABLE 20
Companies with domestic R&D paid for by the company and others and performed by the company in the biotechnology focus area, by industry and company size: 2018

(Millions of U.S. dollars)

Industry and company size	NAICS code	Domestic R&D		Biotechnology R&D						
		Companies ^a (number)	Amount	Total		Paid for by company		Paid for by others		
				Companies ^b (number)	Amount	Companies ^b (number)	Amount	Companies ^b (number)	Amount	
All industries	21-23, 31-33, 42-81	26,313	441,036	2,470	i 62,862	2,129	i 48,915	650	i 13,947	i
Manufacturing industries	31-33	15,205	274,075	1,733	i 53,272	1,644	i 46,842	293		6,430 i
Food	311	808	4,654	160	i 1,007	i 142	i 983	i 25	i	24
Chemicals	325	2,713	84,137	1,058	i 47,526	1,021	i 41,590	200		5,936 i
Basic chemicals	3251	328	2,443	73	i 384	72	i 272	5		112
Pharmaceuticals and medicines	3254	1,334	74,592	915	i 46,023	882		40,328	192	5,695 i
Other chemicals	other 325	1,052	7,102	70	i 1,119	i 67	i 990	i 3		129
Plastics and rubber products	326	912	2,751	57	i 48	57	i 48	0		0
Nonmetallic mineral products	327	228	1,385	D		1	D	1	0	0
Fabricated metal products	332	1,485	2,327	D		7	D	7	0	0
Machinery	333	2,072	14,799	24		10	22	8	4	i 2 i
Agricultural implement	33311	238	1,872	0		0	0	0	0	0
Semiconductor machinery	333242	47	4,166	0		0	0	0	0	0
Engine, turbine, and power transmission equipment	3336	71	2,483	D		2	D	2	0	0
Other machinery	other 333	1,718	6,278	D		8	D	5	4	i 2 i
Computer and electronic products	334	2,340	83,697	208	i 2,319	i 195	i 1,926	i 27	i	393 i
Semiconductor and other electronic components	3344	648	31,052	7		21	7	21	0	0
Other electronic products	other 334	1,692	52,645	201	i 2,298	i 188	i 1,905	i 27	i	393 i
Electrical equipment, appliances, and components	335	761	4,487	7		5	6	5	D	*
Transportation equipment	336	1,105	52,629	8		35	8	35	0	0
Motor vehicles, bodies, trailers, and parts	3361-63	661	25,586	D		*	D	*	0	0
Other transportation	other 336	445	27,044	D		35	D	35	0	0
Miscellaneous	339	1,251	17,209	176	i 2,147	160	i 2,085	33	i	62
Other manufacturing	312-16, 321-24, 331, 337	1,546	5,999	31		166	30	153	D	13
Nonmanufacturing industries	21-23, 42-81	11,116	166,961	737	i 9,590	485	i 2,073	357	i	7,517
Mining, quarrying, oil and gas extraction, and support activities	21	153	1,905	4		11	4	10	D	1
Utilities	22	61	275	0		0	0	0	0	0
Wholesale trade	42	778	906	i D		1	D	1	0	0
Information	51	2,660	94,349	23		77	23	75	D	2
Publishing	511	987	32,770	12		59	12	57	D	2
Telecommunications	517	183	3,696	0		0	0	0	0	0
Data processing, hosting, and related services	518	1,201	23,306	D		14	D	14	0	0

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				Total		Paid for by company		Paid for by others				
		Companies ^a (number)	Amount	Companies ^b (number)	Amount	Companies ^b (number)	Amount	Companies ^b (number)	Amount			
Other information	other 51	290	34,576	D	4	D	4	0	0			
Professional, scientific, and technical services	54	6,224	44,860	646	i	8,624	394	i	1,110	D	7,514	
Architectural, engineering, and related services	5413	1,283	3,961	112	i	192	27	i	41	90	i	151
Scientific research and development services	5417	1,469	20,185	489	i	8,272	335	i	960	250	i	7,312
Research and development in biotechnology	541711	272	5,857	243	i	3,750	179	i	664	130	i	3,086
Other scientific research and development	other 5417	1,197	14,327	246	i	4,522	156	i	296	120	i	4,226
Other professional, scientific, and technical services	other 54	3,472	20,714	45	i	160	33	i	110	D	51	
Health care services	621-23	229	1,476	51	i	852	51	i	852	0	0	
Other nonmanufacturing	23, 44-45, 48-49, 52-53, 55-56, 624, 71-72, 81	1,015	23,191	i	D	26	D	26	0	0		
All companies (number of domestic employees)	-	26,313	441,036	2,470	i	62,862	2,129	i	48,915	650	i	13,947
Small companies												
10-19 ^c	-	4,294	4,390	582	i	987	480	i	737	183	i	250
20-49	-	7,386	11,252	699	i	2,803	600	i	2,445	185	i	358
Medium companies												
50-99	-	4,591	12,321	311	i	3,508	281		2,932	79		576
100-249	-	5,004	18,547	444	i	4,155	389	i	3,457	86	i	697
Large companies												
250-499	-	2,060	19,645	170		5,313	144		4,783	48	i	530
500-999	-	1,152	17,657	74	i	3,263	63		2,803	18	i	460
1,000-4,999	-	1,263	68,578	100		9,005	94		6,477	23	i	2,527
5,000-9,999	-	241	45,337	32		8,580	26		4,701	11		3,880
10,000-24,999	-	207	84,420	43		21,542	37		17,950	15		3,592
25,000 or more	-	114	158,889	16		3,706	16		2,628	4		1,078

* = amount < \$500,000; D = data withheld to avoid disclosing operations of individual companies; i = > 50% of the estimate is a combination of imputation and reweighting to account for nonresponse.

NAICS = 2012 North American Industry Classification System.

^a Beginning in survey year 2018, these statistics include an adjustment to the weight to account for unit nonresponse. A company having multiple reporting parts for data collection may contribute to the statistics for multiple industries, so the detail may not add to the total for the number of companies.

^b Beginning in survey year 2018, these statistics include an adjustment to the weight to account for unit nonresponse. These company count estimates reflect an imputation process implemented for survey year 2014. This change has affected the comparability of these company count estimates with estimates published for years prior to 2014. A company having multiple reporting parts for data collection may contribute to the statistics for multiple industries, so the detail may not add to the total for the number of companies.

^c 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. 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. Companies could report R&D in one, more than one, or no application area.

Source(s):

National Center for Science and Engineering Statistics and U.S. Census Bureau, Business Research and Development Survey, 2018.