

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: 2017**

(Millions of U.S. dollars)

Industry and company size	NAICS code	Biotechnology R&D								
		Domestic R&D		Total		Paid for by the company		Paid for by others		
		Companies <sup>a</sup> (number)	Amount	Companies <sup>b</sup> (number)	Amount	Companies <sup>b</sup> (number)	Amount	Companies <sup>b</sup> (number)	Amount	
All industries	21-23, 31-33, 42-81	20,884	400,100	1,772	51,637	1,560	39,856	509	11,781	
Manufacturing industries	31-33	12,151	257,227	1,250	44,753	1,171	38,089	279	6,664	
Food	311	563	4,697	77	761	75	740	6	21	
Chemicals	325	1,840	74,977	746	38,205	714	32,087	195	6,118	
Basic chemicals	3251	269	2,574	64	469	58	361	14	108	
Pharmaceuticals and medicines	3254	841	66,202	609	36,642	583	30,786	175	5,856	
Other chemicals	other 325	731	6,202	74	1,094	73	939	6	155	
Plastics and rubber products	326	638	3,754	44	278	44	278	0	0	
Nonmetallic mineral products	327	193	1,334	17	2	17	2	0	0	
Fabricated metal products	332	1,260	2,206	7	15	6	9	D	6	
Machinery	333	1,793	13,197	15	12	14	12	D	1	
Agricultural implement	33311	183	1,570	D	2	D	2	0	0	
Semiconductor machinery	333242	39	3,694	D	1	D	1	0	0	
Engine, turbine, and power transmission equipment	3336	120	2,080	D	3	D	3	0	0	
Other machinery	other 333	1,452	5,853	10	7	9	6	D	1	
Computer and electronic products	334	1,793	78,575	125	2,974	116	2,567	20	407	
Semiconductor and other electronic components	3344	471	30,148	6	566	6	566	0	0	
Other electronic products	other 334	1,322	48,427	119	2,408	110	2,001	20	407	
Electrical equipment, appliances, and components	335	731	4,291	12	16	7	11	7	5	
Transportation equipment	336	844	53,292	10	177	10	170	D	6	
Automobiles, bodies, trailers, and parts	3361-63	396	23,881	4	7	4	7	0	0	
Other transportation	other 336	449	29,410	6	170	6	163	D	6	
Miscellaneous manufacturing	339	1,428	15,695	D	2,087 - 2,191	150	2,088	D	0 - 103	
Other manufacturing	312-16, 321-24, 331, 337	1,078	5,209	D	126 - 230	17	127	D	0 - 103	
Nonmanufacturing industries	21-23, 42-81	8,736	142,874	522	6,884	390	1,767	230	5,118	
Mining, extraction, and support activities	21	117	3,150	6	27	6	26	D	1	
Utilities	22	36	317	D	1	D	1	D	*	
Wholesale trade	42	691	534	D	1	D	1	0	0	
Information	51	2,527	80,252	15	55	15	55	D	* i	

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				Total		Paid for by the company		Paid for by others		
		Companies <sup>a</sup> (number)	Amount	Companies <sup>b</sup> (number)	Amount	Companies <sup>b</sup> (number)	Amount	Companies <sup>b</sup> (number)	Amount	Companies <sup>b</sup> (number)
Publishing	511	1,074	34,338	11	48	11	48	D	*	i
Telecommunications	517	D	3,682 - 3,806	0	0	0	0	0	0	0
Data processing, hosting, and related services	518	1,131	16,155	4	7	4	7	0	0	0
Other information	other 51	D	25,954 - 26,077	0	0	0	0	0	0	0
Professional, scientific, and technical services	54	4,304	36,922	460	i 6,230	328	i 1,138	222		5,092
Architectural, engineering, and related services	5413	1,265	2,708	43	i 60	39	i 27	8	i	33
Scientific research and development services	5417	1,035	17,321	365	i 6,020	250	1,052	199	i	4,968
Biotechnology research and development	541711	212	4,449	188	i 2,746	150	701	95		2,045
Other scientific research and development	other 5417	823	12,872	177	i 3,273	100	i 351	104	i	2,923
Other professional, scientific, and technical services	other 54	2,005	16,893	52	150	40	59	15		91
Health care services	621-23	177	1,101	31	i 561	30	i 536	D		24
Other nonmanufacturing	23, 44-45, 48-49, 52-53, 55-56, 624, 71-72, 81	885	20,598	5	10	5	10	0		0
All companies (number of domestic employees)	-	20,884	400,100	1,772	51,637	1,560	39,856	509		11,781
Small companies										
10-19 <sup>c</sup>	-	3,618	3,311	338	i 673	272	477	118	i	196
20-49	-	6,420	9,435	515	i 2,235	443	i 1,755	168	i	480
Medium companies										
50-99	-	3,806	10,141	330	2,637	304	2,160	73		477
100-249	-	3,176	17,216	244	4,628	223	3,746	56		882
Large companies										
250-499	-	1,475	14,103	111	3,249	101	2,875	29		374
500-999	-	939	17,871	57	2,707	54	2,418	15		289
1,000-4,999	-	984	65,112	94	12,458	88	8,551	23		3,907
5,000-9,999	-	206	40,198	32	4,375	27	1,517	7	i	2,858
10,000-24,999	-	154	73,485	36	15,706	34	14,118	13	i	1,588
25,000 or more	-	105	149,227	15	2,970	15	2,239	6		730

\* = 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.

<sup>a</sup> Statistics for the number of companies are based only on companies in the United States that reported to the survey. These statistics do not 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.

<sup>b</sup> Statistics for the number of companies are based only on companies in the United States that reported to the survey. These statistics do not include an adjustment to the weight to account for unit nonresponse. These company count estimates reflect a new 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.

<sup>c</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. 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 R&D. Companies could report R&D in one, more than one, or no application area. 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.