

TECHNICAL TABLE A-10

Unit response rates, by industry and company size: 2017

(Number and percent)

Industry and company size	NAICS code	Active reporting units ^a	Reporting units that met the response criteria ^b		Reporting units that met the response criteria and reported domestic R&D paid for by the company and others and performed by the company of \$1 million or more	
			Number	Percent	Number	Percent
All industries	21-23, 31-33, 42-81	41,912	31,242	74.5	6,357	15.2
Manufacturing industries	31-33	17,889	13,452	75.2	3,868	21.6
Food	311	1,011	721	71.3	173	17.1
Beverage and tobacco products	312	300	230	76.7	27	9.0
Textile, apparel, and leather products	313-16	617	419	67.9	53	8.6
Wood products	321	582	456	78.4	17	2.9
Paper	322	353	257	72.8	35	9.9
Printing and related support activities	323	1,141	860	75.4	26	2.3
Petroleum and coal products	324	141	108	76.6	26	18.4
Chemicals	325	1,979	1,559	78.8	908	45.9
Basic chemicals	3251	286	214	74.8	113	39.5
Resin, synthetic rubber, and artificial synthetic fibers and filaments	3252	233	181	77.7	49	21.0
Pesticide, fertilizer, and other agricultural chemicals	3253	103	69	67.0	18	17.5
Pharmaceuticals and medicines	3254	797	684	85.8	593	74.4
Soap, cleaning compound, and toilet preparation	3256	217	154	71.0	55	25.3
Paint, coating, adhesive, and other chemicals	3255, 3259	344	258	75.0	81	23.5
Plastics and rubber products	326	997	734	73.6	196	19.7
Nonmetallic mineral products	327	525	388	73.9	43	8.2
Primary metals	331	475	343	72.2	53	11.2
Fabricated metal products	332	2,167	1,655	76.4	252	11.6
Machinery	333	2,060	1,573	76.4	485	23.5
Agricultural implement	33311	173	125	72.3	37	21.4
Semiconductor machinery	333242	65	50	76.9	26	40.0
Engine, turbine, and power transmission equipment	3336	144	113	78.5	32	22.2
Other machinery	other 333	1,679	1,286	76.6	391	23.3
Computer and electronic products	334	1,632	1,177	72.1	648	39.7
Communications equipment	3342	226	162	71.7	98	43.4
Semiconductor and other electronic components	3344	442	336	76.0	187	42.3

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Navigational, measuring, electromedical, and control instruments	3345	752	528	70.2	279	37.1
Electromedical, electrotherapeutic, and irradiation apparatus	334510, 334517	169	106	62.7	63	37.3
Search, detection, navigation, guidance, aeronautical, and nautical systems and instruments	334511	106	81	76.4	41	38.7
Other measuring and controlling devices	other 3345	477	341	71.5	175	36.7
Other computer and electronic products	other 334	212	151	71.2	84	39.6
Electrical equipment, appliances, and components	335	596	438	73.5	171	28.7
Transportation equipment	336	1,060	793	74.8	309	29.2
Motor vehicles, bodies, trailers, and parts	3361-63	550	418	76.0	176	32.0
Aerospace products and parts	3364	270	206	76.3	90	33.3
Aircraft, aircraft engine, and aircraft parts	336411-13	239	181	75.7	77	32.2
Guided missile, space vehicle, and related parts	336414-15, 336419	31	25	80.6	13	41.9
Military armored vehicle, tank, and tank component	336992	18	14	77.8	3	16.7
Other transportation equipment	other 336	223	156	70.0	41	18.4
Furniture and related products	337	912	689	75.5	49	5.4
Miscellaneous manufacturing	339	1,355	1,065	78.6	408	30.1
Medical equipment and supplies	3391	640	492	76.9	277	43.3
Other miscellaneous	3399	715	573	80.1	131	18.3
Nonmanufacturing industries	21-23, 42-81	24,027	17,793	74.1	2,491	10.4
Mining, extraction, and support activities	21	605	470	77.7	34	5.6
Utilities	22	181	142	78.5	21	11.6
Wholesale trade	42	5,113	3,797	74.3	51	1.0
Electronic shopping and electronic auctions	454111-12	347	234	67.4	8	2.3
Transportation and warehousing	48-49	518	385	74.3	19	3.7
Information	51	3,092	2,261	73.1	842	27.2
Publishing	511	1,131	818	72.3	266	23.5
Newspaper, periodical, book, and directory publishers	5111	489	359	73.4	6	1.2
Software publishers	5112	642	459	71.5	260	40.5

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Telecommunications	517	488	347	71.1	58	11.9
Data processing, hosting, and related services	518	995	764	76.8	449	45.1
Other information	other 51	478	332	69.5	69	14.4
Finance and insurance	52	890	708	79.6	69	7.8
Real estate and rental and leasing	53	393	279	71.0	16	4.1
Lessors of nonfinancial intangible assets (except copyrighted works)	533	82	47	57.3	D	D
Other real estate and rental and leasing	other 53	311	232	74.6	D	D
Professional, scientific, and technical services	54	8,342	6,192	74.2	1,243	14.9
Architectural, engineering, and related services	5413	2,523	2,051	81.3	189	7.5
Computer systems design and related services	5415	2,535	1,732	68.3	276	10.9
Scientific research and development services	5417	1,902	1,332	70.0	604	31.8
Biotechnology research and development	541711	411	253	61.6	137	33.3
Physical, engineering, and life sciences (except biotechnology) research and development	541712	1,363	973	71.4	457	33.5
Social sciences and humanities research and development	541720	128	106	82.8	10	7.8
Other professional, scientific, and technical services	other 54	1,382	1,077	77.9	174	12.6
Health care services	621-23	1,154	840	72.8	51	4.4
Other nonmanufacturing	23, 44-45 (excluding 454111-12), 55-56, 624, 71-72, 81	3,397	2,490	73.3	140	4.1
All companies (number of domestic employees)	-	41,912	31,242	74.5	6,357	15.2
Small companies						
10-19 ^c	-	8,030	6,158	76.7	455	5.7
20-49	-	10,428	8,108	77.8	943	9.0
Medium companies						
50-99	-	6,483	4,911	75.8	917	14.1
100-249	-	7,320	5,241	71.6	1,307	17.9
Large companies						
250-499	-	3,580	2,487	69.5	831	23.2

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500–999	–	2,325	1,618	69.6	627	27.0
1,000–4,999	–	2,544	1,789	70.3	829	32.6
5,000–9,999	–	489	385	78.7	198	40.5
10,000–24,999	–	361	303	83.9	151	41.8
25,000 or more	–	246	205	83.3	99	40.2
Undistributed ^d	–	106	37	34.9	0	0.0

D = data withheld to avoid disclosing operations of individual companies.

NAICS = 2012 North American Industry Classification System.

^a Active reporting units are defined as reporting units of active companies that are in the scope of the survey (for-profit companies with locations in the United States, 10 or more employees, business activities in the survey year, and primary business activities in the NAICS codes listed above) after all of the data have been processed. Because of special handling requests made by company respondents, some sampled companies were mailed more than one form. 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 Reporting units were considered to have fulfilled the response criteria if they reported that they performed or funded R&D. If not, a reporting unit fulfilled the response criteria if they reported a value for worldwide sales or domestic sales, or if they reported a positive value for paid worldwide employees or paid domestic employees.

^c Business Research and Development Survey does not include companies with fewer than 10 domestic employees.

^d Companies were not assigned an employment category during 2017.

Source(s)

National Center for Science and Engineering Statistics and U.S. Census Bureau, Business Research and Development Survey, 2017.