

TECHNICAL TABLE A-10

Unit response rates, by industry and company size: 2018

(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	42,314	30,808	72.8	7,195	17.0
Manufacturing industries	31-33	17,091	12,693	74.3	4,181	24.5
Food	311	1,010	734	72.7	188	18.6
Beverage and tobacco products	312	372	261	70.2	28	7.5
Textile, apparel, and leather products	313-16	552	383	69.4	59	10.7
Wood products	321	392	296	75.5	21	5.4
Paper	322	354	242	68.4	39	11.0
Printing and related support activities	323	981	716	73.0	32	3.3
Petroleum and coal products	324	152	112	73.7	33	21.7
Chemicals	325	2,071	1,630	78.7	995	48.0
Basic chemicals	3251	301	242	80.4	122	40.5
Resin, synthetic rubber, and artificial synthetic fibers and filaments	3252	168	122	72.6	46	27.4
Pesticide, fertilizer, and other agricultural chemicals	3253	122	81	66.4	29	23.8
Pharmaceuticals and medicines	3254	913	775	84.9	660	72.3
Soap, cleaning compound, and toilet preparation	3256	220	149	67.7	55	25.0
Paint, coating, adhesive, and other chemicals	3255, 3259	348	262	75.3	84	24.1
Plastics and rubber products	326	956	706	73.8	204	21.3
Nonmetallic mineral products	327	400	276	69.0	40	10.0
Primary metals	331	403	286	71.0	70	17.4
Fabricated metal products	332	1,924	1,469	76.4	261	13.6
Machinery	333	1,819	1,373	75.5	507	27.9
Agricultural implement	33311	165	114	69.1	42	25.5
Semiconductor machinery	333242	61	49	80.3	27	44.3
Engine, turbine, and power transmission equipment	3336	126	95	75.4	34	27.0
Other machinery	other 333	1,470	1,118	76.1	407	27.7
Computer and electronic products	334	1,739	1,269	73.0	702	40.4
Communications equipment	3342	249	186	74.7	118	47.4
Semiconductor and other electronic components	3344	500	373	74.6	200	40.0
Navigational, measuring, electromedical, and control instruments	3345	765	559	73.1	302	39.5
Electromedical, electrotherapeutic, and irradiation apparatus	334510, 334517	188	122	64.9	69	36.7
Search, detection, navigation, guidance, aeronautical, and nautical systems and instruments	334511	107	81	75.7	39	36.4
Other measuring and controlling devices	other 3345	470	356	75.7	194	41.3
Other computer and electronic products	other 334	225	151	67.1	82	36.4
Electrical equipment, appliances, and components	335	636	468	73.6	196	30.8
Transportation equipment	336	1,066	806	75.6	374	35.1
Motor vehicles, bodies, trailers, and parts	3361-63	587	459	78.2	217	37.0
Aerospace products and parts	3364	254	192	75.6	106	41.7
Aircraft, aircraft engine, and aircraft parts	336411-13	217	163	75.1	86	39.6

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Guided missile, space vehicle, and related parts	336414–15, 336419	37	29	78.4	20	54.1
Military armored vehicle, tank, and tank component	336992	12	10	83.3	5	41.7
Other transportation equipment	other 336	215	147	68.4	47	21.9
Furniture and related products	337	919	665	72.4	46	5.0
Miscellaneous manufacturing	339	1,363	1,018	74.7	400	29.3
Medical equipment and supplies	3391	651	487	74.8	257	39.5
Other miscellaneous	3399	712	531	74.6	143	20.1
Nonmanufacturing industries	21–23, 42–81	25,228	18,119	71.8	3,017	12.0
Mining, extraction, and support activities	21	615	432	70.2	40	6.5
Utilities	22	184	143	77.7	23	12.5
Wholesale trade	42	5,086	3,594	70.7	71	1.4
Electronic shopping and electronic auctions	454111–12	332	218	65.7	17	5.1
Transportation and warehousing	48–49	490	329	67.1	31	6.3
Information	51	3,255	2,295	70.5	983	30.2
Publishing	511	1,128	787	69.8	306	27.1
Newspaper, periodical, book, and directory publishers	5111	481	325	67.6	9	1.9
Software publishers	5112	647	462	71.4	297	45.9
Telecommunications	517	446	302	67.7	66	14.8
Data processing, hosting, and related services	518	1,145	839	73.3	524	45.8
Other information	other 51	537	368	68.5	87	16.2
Finance and insurance	52	868	675	77.8	84	9.7
Real estate and rental and leasing	53	405	266	65.7	13	3.2
Lessors of nonfinancial intangible assets (except copyrighted works)	533	77	43	55.8	D	D
Other real estate and rental and leasing	other 53	328	223	68.0	D	D
Professional, scientific, and technical services	54	8,926	6,495	72.8	1,476	16.5
Architectural, engineering, and related services	5413	2,713	2,202	81.2	273	10.1
Computer systems design and related services	5415	2,841	1,967	69.2	428	15.1
Scientific research and development services	5417	1,887	1,208	64.0	566	30.0
Biotechnology research and development	541711	418	234	56.0	115	27.5
Physical, engineering, and life sciences (except biotechnology) research and development	541712	1,329	866	65.2	439	33.0
Social sciences and humanities research and development	541720	140	108	77.1	12	8.6
Other professional, scientific, and technical services	other 54	1,485	1,118	75.3	209	14.1
Health care services	621–23	1,285	966	75.2	64	5.0
Other nonmanufacturing	23, 44–45 (excluding 454111–12), 55–56, 624, 71–72, 81	3,789	2,713	71.6	219	5.8
All companies (number of domestic employees)	–	42,314	30,808	72.8	7,195	17.0
Small companies						
10–19 ^c	–	8,174	5,949	72.8	505	6.2
20–49	–	10,842	8,116	74.9	1,134	10.5

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Medium companies						
50–99	–	6,600	4,848	73.5	1,084	16.4
100–249	–	7,077	5,093	72.0	1,481	20.9
Large companies						
250–499	–	3,649	2,555	70.0	1,005	27.5
500–999	–	2,239	1,537	68.6	657	29.3
1,000–4,999	–	2,558	1,779	69.5	876	34.2
5,000–9,999	–	508	398	78.3	193	38.0
10,000–24,999	–	407	327	80.3	161	39.6
25,000 or more	–	D	D	D	99	39.3
Undistributed ^d	–	D	D	D	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 2018.

Source(s):

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