

TABLE 57. Importance of copyright, trade secret, and mask work intellectual property protections to companies located in the United States that performed or funded R&D, by industry and company size: 2014
(Percent)

Industry and company size	NAICS code	Copyrights			Trade secrets			Mask works		
		Very important	Somewhat important	Not important	Very important	Somewhat important	Not important	Very important	Somewhat important	Not important
All industries	21–23, 31–33, 42–81	28.4	31.5	40.2	58.8	22.8	18.4	5.5	8.8	85.7
Manufacturing industries	31–33	29.8	33.8	36.4	64.4	21.2	14.5	7.2	10.2	82.5
Food	311	39.9	28.3	31.8	77.9	12.4	9.8	D	D	96.8
Beverages and tobacco products	312	42.0	29.0	29.0	75.1	D	D	0.0	13.6	86.4
Textiles, apparel, and leather products	313–16	38.8	36.7	24.5	58.7	23.9	17.4	D	0.0	D
Wood products	321	D	D	31.3	62.5	18.8	18.8	0.0	0.0	100.0
Paper	322	18.2	33.3	48.5	69.7	18.2	12.1	D	0.0	D
Printing and related support activities	323	32.7	22.7	44.6	69.7	15.1	15.1	0.0	12.5	87.5
Petroleum and coal products	324	26.3	52.6	21.1	73.7	D	D	0.0	0.0	100.0
Chemicals	325	22.1	36.7	41.2	69.4	17.6	13.0	3.1	5.5	91.4
Basic chemicals	3251	25.5	39.3	35.2	81.8	10.4	7.8	3.7	4.4	92.0
Resins, synthetic rubber, and artificial synthetic fibers and filaments	3252	25.0	32.6	42.4	76.8	11.1	12.1	D	D	85.1
Pesticides, fertilizers, and other agricultural chemicals	3253	63.5	23.0	13.5	D	D	0.0	0.0	0.0	100.0
Pharmaceuticals and medicines	3254	16.6	37.2	46.2	63.1	22.3	14.6	3.1	5.9	90.9
Soaps, cleaning compounds, and toilet preparations	3256	S	S	S	S	S	S	D	S	D
Paints, coatings, adhesives, and other chemicals	3255, 3259	10.1	48.5	41.4	75.7	5.9	18.3	D	D	89.9
Plastics and rubber products	326	20.1	27.6	52.2	56.9	23.1	20.0	2.6	4.8	92.7
Nonmetallic mineral products	327	15.4	21.5	63.1	64.8	D	D	6.1	6.1	87.7
Primary metals	331	27.4	36.9	35.7	60.8	28.4	10.8	7.0	9.1	83.9
Fabricated metal products	332	14.4	36.0	49.7	42.2	33.4	24.4	2.5	13.9	83.6
Machinery	333	34.2	30.6	35.2	60.8	22.1	17.1	4.1	8.5	87.5
Agricultural implements	33311	30.7	35.8	33.5	41.9	35.4	22.7	D	D	79.8
Semiconductor machinery	333295	34.4	29.0	36.6	82.3	D	D	27.9	12.0	60.1
Engines, turbines, and power transmission equipment	3336	23.7	47.5	28.8	64.7	24.6	10.7	D	D	D
Other machinery	other 333	35.3	28.9	35.8	60.4	21.9	17.7	2.6	7.8	89.6
Computer and electronic products	334	37.2	32.2	30.5	70.1	19.8	10.1	18.1	16.3	65.6
Communications equipment	3342	40.7	16.9	42.4	53.0	27.4	19.6	16.1	10.7	73.2
Semiconductors and other electronic components	3344	26.3	43.4	30.3	72.6	22.8	4.6	35.2	27.4	37.3
Navigational, measuring, electromedical, and control instruments	3345	34.9	36.7	28.4	76.5	14.6	8.9	12.6	12.3	75.2
Electromedical, electrotherapeutic, and irradiation apparatus	334510, 334517	37.5	31.8	30.7	79.5	14.2	6.3	13.8	16.9	69.4
Search, detection, navigation, guidance, aeronautical, and nautical systems and instruments	334511	41.5	29.1	29.4	88.1	D	D	13.2	10.6	76.2
Other measuring and controlling devices	other 3345	32.3	40.7	27.0	72.7	16.7	10.7	11.8	10.4	77.8
Other computer and electronic products	other 334	59.6	22.9	17.5	74.3	17.0	8.7	5.0	16.1	78.9
Electrical equipment, appliances, and components	335	35.9	35.0	29.1	64.9	18.3	16.8	6.9	27.6	65.5
Transportation equipment	336	30.5	23.4	46.0	60.4	16.6	23.1	4.4	11.9	83.8

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Automobiles, bodies, trailers, and parts	3361-63	40.3	22.7	37.0	60.5	19.5	20.1	6.3	8.0	85.6
Aerospace products and parts	3364	12.6	22.0	65.4	62.4	8.0	29.6	0.0	20.9	79.1
Aircraft, aircraft engines, and aircraft parts	336411-13	14.2	21.0	64.8	62.8	7.7	29.5	0.0	22.3	77.7
Guided missiles, space vehicles, and related parts	336414-15, 336419	0.0	30.0	70.0	59.9	D	D	0.0	D	D
Military armored vehicles, tanks, and tank components	336992	D	D	57.1	42.9	D	D	0.0	D	D
Other transportation	other 336	25.3	29.8	44.9	57.5	22.2	20.2	D	D	87.0
Furniture and related products	337	37.9	44.8	17.2	37.9	31.0	31.0	D	D	89.7
Miscellaneous manufacturing	339	32.7	45.5	21.8	61.4	29.2	9.3	12.4	6.7	80.9
Medical equipment and supplies	3391	32.6	45.4	22.0	59.1	31.5	9.4	16.2	6.7	77.1
Other miscellaneous manufacturing	3399	33.0	45.5	21.4	67.3	23.4	9.2	3.0	6.7	90.3
Nonmanufacturing industries	21-23, 42-81	26.6	28.6	44.8	52.0	24.8	23.2	3.3	7.1	89.6
Mining, extraction, and support activities	21	8.1	20.1	71.8	51.9	42.9	5.2	D	D	92.9
Utilities	22	24.2	63.6	12.1	45.5	30.3	24.2	D	D	72.7
Wholesale trade	42	S	S	S	S	S	S	S	D	D
Electronic shopping and electronic auctions	454111-12	D	D	D	S	D	D	S	D	D
Transportation and warehousing	48-49	D	D	40.0	30.0	D	D	0.0	0.0	100.0
Information	51	42.6	30.2	27.2	52.7	31.2	16.1	2.7	9.0	88.3
Publishing	511	43.1	23.8	33.1	54.9	33.5	11.6	1.4	5.3	93.2
Newspaper, periodical, book, and directory publishers	5111	D	D	D	D	D	D	S	S	S
Software publishers	5112	42.5	24.0	33.5	55.4	33.9	10.8	1.4	5.4	93.1
Telecommunications	517	50.4	22.2	27.4	52.5	23.9	23.6	14.7	18.6	66.7
Data processing, hosting, and related services	518	38.5	40.4	21.1	52.0	30.6	17.4	1.9	12.2	85.8
Other information	other 51	56.3	22.8	20.9	41.2	24.3	34.4	7.5	9.9	82.6
Finance and insurance	52	16.6	44.6	38.8	42.7	23.2	34.0	0.0	0.0	100.0
Real estate and rental and leasing	53	37.5	D	D	50.0	D	D	0.0	D	D
Lessors of nonfinancial intangible assets (except copyrighted works)	533	D	D	D	D	D	D	D	D	D
Other real estate and rental and leasing	other 53	50.0	D	D	D	50.0	D	0.0	D	D
Professional, scientific, and technical services	54	19.3	26.3	54.4	51.9	20.5	27.7	3.7	5.8	90.5
Architectural, engineering, and related services	5413	18.4	15.0	66.6	46.9	11.8	41.3	2.7	7.0	90.3
Computer systems design and related services	5415	24.7	38.2	37.1	41.7	20.4	37.9	2.2	3.9	93.9
Scientific R&D services	5417	15.5	23.9	60.6	57.8	24.2	18.0	5.9	7.7	86.3
Biotechnology R&D	541711	22.5	27.8	49.7	63.0	26.9	10.1	9.0	3.3	87.7
Physical, engineering, and life sciences (except biotechnology) R&D	541712	13.1	22.5	64.4	56.8	23.6	19.6	4.9	9.2	85.8
Social sciences and humanities R&D	541720	16.2	28.3	55.6	36.0	16.2	47.8	D	D	87.9
Other professional, scientific, and technical services	other 54	19.1	16.2	64.7	60.9	16.5	22.6	1.4	3.6	95.0
Health care services	621-23	14.0	52.0	34.0	69.4	8.8	21.9	0.0	D	D

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Other nonmanufacturing	23, 44-45 (excluding 454111-12), 55-56, 624, 71-72, 81	28.2	28.4	43.4	46.6	28.0	25.3	4.9	12.8	82.3
All companies (number of domestic employees)	-	28.4	31.5	40.2	58.8	22.8	18.4	5.5	8.8	85.7
Small companies ^a										
5-499	-	27.3	28.7	44.0	57.1	23.1	19.8	5.8	7.9	86.4
5-99	-	26.2	26.9	47.0	56.8	22.1	21.1	6.5	7.9	85.7
5-49	-	23.2	25.9	50.9	57.5	20.3	22.3	6.3	8.1	85.6
5-9	-	15.5	34.1	50.4	56.5	24.4	19.1	5.4	4.6	89.9
10-24	-	25.1	20.6	54.3	61.3	19.3	19.4	7.7	10.9	81.4
25-49	-	24.7	28.1	47.1	53.6	19.5	27.0	5.2	6.6	88.2
50-99	-	32.9	29.0	38.1	55.4	26.1	18.5	6.8	7.4	85.8
100-249	-	29.3	30.0	40.8	56.9	25.2	17.9	3.9	7.4	88.7
250-499	-	29.7	36.0	34.3	59.0	24.7	16.4	5.4	8.6	86.0
Medium and large companies										
500-999	-	27.6	42.4	30.0	56.9	26.4	16.7	5.8	13.9	80.3
1,000-4,999	-	31.5	40.8	27.7	67.3	20.9	11.8	3.1	12.0	84.9
5,000-9,999	-	33.5	49.3	17.2	67.2	19.9	13.0	5.3	11.7	83.0
10,000-24,999	-	45.7	42.3	12.0	78.7	13.0	8.3	2.7	10.3	86.9
25,000 or more	-	50.5	37.1	12.4	77.5	13.4	9.1	6.9	9.1	84.0

D = data withheld to avoid disclosing operations of individual companies; S = data withheld as more than 50% of the estimate is a combination of imputation and reweighting to account for nonresponse.

NAICS = 2012 North American Industry Classification System.

^a Upper bound is based on the U.S. Small Business Administration's definition of a small business; the Business R&D and Innovation Survey does not include companies with fewer than five domestic employees.

NOTES: Statistics are representative of companies in the United States that were eligible to receive Form BRDI-1 and performed or funded R&D. These statistics are not comparable to estimates prior to 2012 because those estimates are representative of all companies in the United States. 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.

SOURCE: National Science Foundation, National Center for Science and Engineering Statistics, and U.S. Census Bureau, Business R&D and Innovation Survey, 2014.