

TABLE 88. Importance of design patents for R&D-active and non-R&D-active companies, by industry: 2009

(Percent)

Industry and company size	NAICS code	All companies			R&D-active companies ^a			Non-R&D-active companies		
		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	2	3	95	13	17	70	1	3	96
Manufacturing industries	31-33	7	8	85	16	19	64	3	4	92
Food	311	2	5	92	7	8	85	1	4	95
Beverage and tobacco products	312	4	5	90	7	11	82	4	4	92
Textiles, apparel, and leather products	313-316	7	9	84	11	23	66	6	1	89
Wood products	321	2	3	95	16	14	70	D	2	D
Paper	322	4	13	83	18	21	61	1	11	88
Printing and related support activities	323	3	3	94	6	23	72	3	1	96
Petroleum and coal products	324	6	3	90	18	10	73	D	D	D
Chemicals	325	9	11	81	13	14	73	3	6	91
Basic chemicals	3251	17	12	71	25	17	58	8	7	85
Resin, synthetic rubber, fibers, and filaments	3252	10	21	70	15	22	63	1	D	1
Pesticide, fertilizer, and other agricultural chemical	3253	12	9	79	22	12	65	D	D	D
Pharmaceuticals and medicines	3254	10	15	75	13	18	70	D	1	92
Soap, cleaning compound, and toilet preparation	3256	9	10	81	19	19	63	2	3	95
Paint, coating, adhesive, and other chemical	3255, 3259	3	6	91	4	7	89	D	5	D
Plastics and rubber products	326	10	11	79	25	22	53	3	6	91
Nonmetallic mineral products	327	2	5	93	8	7	85	1	5	94
Primary metals	331	6	6	87	11	17	72	6	5	90
Fabricated metal products	332	4	6	90	15	19	66	3	4	94
Machinery	333	9	11	80	17	22	62	6	6	88
Agricultural implements	33311	11	15	74	19	36	46	6	4	89
Semiconductor machinery	333295	30	31	39	35	32	34	D	D	61
Engine, turbine, and power transmission equipment	3336	10	11	79	34	20	46	D	7	D
Other machinery	other 333	9	11	81	15	20	65	6	6	88
Computer and electronic products	334	15	18	67	21	28	51	7	6	87
Communications equipment	3342	14	19	67	19	24	57	D	7	D
Semiconductor and other electronic components	3344	17	11	72	35	19	46	4	6	91
Navigational, measuring, electromedical, and control instruments	3345	11	25	64	13	34	54	9	4	87
Electromedical, electrotherapeutic, and irradiation apparatus	334510, 334517	21	13	66	28	23	50	D	D	88
Search, detection, navigation, guidance, aeronautical, and nautical system and instruments	334511	14	17	68	17	21	62	D	D	89
Other measuring and controlling instruments	other 3345	9	28	63	10	38	53	9	5	86
Computer and peripheral equipment and other computer and electronic products	3341, 3343, 3346	19	18	63	22	30	48	16	7	77
Electrical equipment, appliances, and components	335	13	22	65	20	31	48	7	13	80
Transportation equipment	336	11	14	75	21	24	55	5	9	87
Automobiles, bodies, trailers, and parts	3361-3363	8	14	79	14	24	62	5	9	85
Aerospace products and parts	3364	19	16	65	27	24	49	D	D	D
Aircraft, aircraft engine, and aircraft parts	336411-336413	20	16	65	28	24	48	D	D	D
Guided missile, space vehicle, and related parts	336414, 336415, 336419	D	D	81	D	D	62	0	0	100

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Military armored vehicle, tank, and tank components	336992	D	D	62	D	D	27	0	0	100
Other transportation equipment	other 336	12	13	75	35	19	46	3	11	86
Furniture and related products	337	2	6	92	10	19	71	1	4	95
Miscellaneous manufacturing	339	12	8	80	20	14	65	8	4	88
Medical equipment and supplies	3391	13	8	79	26	16	58	6	3	90
Other miscellaneous manufacturing	3399	12	8	80	18	13	69	9	5	86
Nonmanufacturing industries	21–23, 42–81	1	3	96	10	13	76	1	3	96
Mining, extraction, and support activities	21	0	1	99	15	7	78	0	1	99
Utilities	22	8	3	89	14	31	56	7	D	D
Construction	23	1	2	97	15	21	63	1	2	97
Wholesale trade	42	4	6	90	11	6	83	4	6	90
Retail trade	44, 45	1	3	96	3	5	92	1	3	96
Electronic shopping and mail-order houses	4541	3	3	94	D	D	49	3	3	94
Other retail trade	other 44, 45	1	3	96	3	2	95	1	3	96
Transportation and warehousing	48, 49	0	4	96	1	1	1	D	4	D
Information	51	5	7	89	8	13	79	3	5	92
Publishing	511	2	7	91	4	11	85	1	5	94
Newspaper, periodical, book, and directory publishers	5111	1	4	95	D	3	D	1	4	95
Software publishers	5112	4	12	84	5	12	83	D	D	89
Telecommunications	517	1	4	95	2	10	88	1	3	97
Data processing, hosting, and related services	518	14	11	75	23	14	63	9	10	81
Other information	other 51	5	6	89	7	19	74	4	4	92
Finance and insurance	52	0	2	98	16	9	75	0	2	98
Real estate and rental and leasing	53	0	2	98	21	16	63	D	2	D
Professional, scientific, and technical services	54	3	4	92	12	13	75	2	3	95
Architectural, engineering, and related services	5413	3	6	91	7	14	78	2	5	93
Computer systems design and related services	5415	9	9	82	17	10	74	4	9	87
Scientific R&D services	5417	12	10	78	12	12	77	11	5	84
Biotechnology R&D	541711	10	11	79	10	11	79	D	D	78
Physical, engineering, and life sciences (except biotechnology) R&D	541712	16	12	72	15	13	72	23	8	69
Social sciences and humanities R&D	541720	D	2	D	D	7	D	0	0	100
Other professional, scientific, and technical services	other 54	2	3	95	10	16	74	2	2	96
Health care services	621–623	0	2	98	1	1	97	D	2	D
Other nonmanufacturing	55, 56, 61, 624, 71, 72, 81	1	3	97	2	31	67	1	2	97
All companies	21–23, 31–33, 42–81	2	3	95	13	17	70	1	3	96
Small companies (number of domestic employees) ^b										
5–499	–	2	3	95	13	16	71	1	3	96
5–99	–	2	3	95	12	15	72	1	3	96
5–49	–	1	3	95	11	14	75	1	3	96

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5-24	-	1	3	96	10	13	77	1	3	96
25-49	-	2	4	94	14	16	70	1	4	95
50-99	-	3	4	93	19	25	57	1	2	96
100-249	-	3	6	90	18	22	60	1	5	94
250-499	-	7	9	85	22	20	58	4	7	90
Medium and large companies (number of domestic employees)										
500-999	-	7	7	86	18	23	59	4	2	93
1,000-4,999	-	7	10	84	23	26	51	3	5	92
5,000-9,999	-	10	15	75	21	24	54	D	6	D
10,000-24,999	-	19	20	62	31	31	38	D	4	D
25,000 or more	-	18	24	58	34	38	29	5	12	83

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

NAICS = 2007 North American Industry Classification System.

^a Statistics are representative of companies located in United States that performed or funded R&D.

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

NOTES: Detail may not add to total because of rounding. Industry classification based on dominant business code for domestic R&D performance where available. For companies that did not report business codes, 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, 2009.