

TABLE 34. R&D-active and non-R&D-active companies in the United States that reported new or significantly improved products or processes and the proportion of companies in each industry classification: 2006–08
(Percent)

Industry	NAICS code	Companies ^a (number)	Product								Process							
			Companies that introduced a new or significantly improved product or process		Companies that introduced new or significantly improved goods or services		New goods		New services		Companies that introduced any new or significantly improved process		New manufacturing or production methods		New logistics, delivery, or distribution methods		New support activities	
			Yes	No	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No
All industries	21–23, 31–33, 42–81	1,545,403	12.4	82.3	9.1	86.0	4.6	90.6	6.9	88.2	8.8	86.0	3.6	91.4	3.1	92.0	6.9	88.3
Manufacturing industries	31–33	126,472	28.5	66.1	21.4	73.6	17.9	77.0	9.9	84.8	22.0	72.5	17.4	77.3	6.6	88.0	12.6	82.1
Food	311	9,168	22.6	69.6	17.4	74.8	15.6	76.7	5.1	86.6	16.8	75.4	13.0	79.8	5.8	85.8	7.0	85.1
Beverage and tobacco products	312	1,240	26.7	66.5	16.6	76.6	12.5	80.7	5.9	87.2	15.1	75.1	9.0	81.1	6.1	84.0	8.3	81.2
Textiles, apparel, and leather products	313–316	5,954	23.5	71.4	17.2	78.3	13.6	81.9	7.3	88.3	16.0	79.0	11.0	84.6	5.5	90.1	10.1	85.0
Wood products	321	6,067	17.7	79.2	9.3	87.8	6.1	91.0	5.2	91.9	16.3	80.7	12.7	84.2	2.5	94.6	5.8	91.3
Paper	322	1,696	19.8	76.9	14.2	82.5	14.2	82.5	7.1	89.4	17.2	79.5	10.3	86.4	8.9	87.7	12.1	84.4
Printing and related support activities	323	10,953	22.2	74.0	15.3	81.9	8.4	88.8	13.0	84.2	20.1	76.1	15.3	80.9	5.9	91.2	12.6	84.5
Petroleum and coal products	324	536	23.7	70.2	22.5	71.7	22.2	72.1	6.5	87.6	19.5	74.4	8.7	85.6	5.3	88.9	16.7	77.2
Chemicals	325	6,017	46.1	46.5	41.9	50.8	33.8	58.9	17.8	74.3	34.3	57.6	22.4	69.7	17.5	74.5	20.7	71.3
Basic chemicals	3251	735	36.8	55.8	28.1	64.5	27.9	64.9	10.4	82.2	33.1	59.5	28.5	64.1	14.6	78.1	20.7	72.0
Resin, synthetic rubber, fibers, and filaments	3252	435	42.5	42.1	29.6	55.2	29.1	55.7	18.9	65.7	37.9	46.7	30.3	54.5	16.9	67.7	27.1	57.7
Pesticide, fertilizer, and other agricultural chemical	3253	399	23.1	76.1	20.3	78.9	18.0	81.3	5.4	93.6	12.0	87.3	8.9	90.0	3.9	95.1	9.2	90.0
Pharmaceuticals and medicines	3254	1,600	52.6	43.9	49.2	47.3	29.4	67.2	27.1	68.5	43.9	51.6	21.8	73.8	28.3	67.3	33.0	62.6
Soap, cleaning compound, and toilet preparation	3256	852	55.8	36.2	53.9	37.9	51.0	40.9	21.1	70.4	41.0	51.0	30.9	61.0	18.1	73.6	24.6	67.0
Paint, coating, adhesive, and other chemical	3255, 3259	1,997	45.7	44.6	42.8	47.4	36.3	53.9	14.0	75.6	27.9	61.1	18.0	71.5	12.4	76.7	10.2	79.2
Plastics and rubber products	326	6,023	34.0	61.8	24.7	71.1	21.1	74.7	11.0	84.7	28.0	67.7	24.7	71.0	8.8	87.0	15.0	80.7
Nonmetallic mineral products	327	5,440	19.4	76.5	12.7	83.3	11.4	84.6	5.8	90.1	14.4	81.5	12.0	84.0	4.6	91.3	8.3	87.7
Primary metals	331	2,082	22.0	73.4	17.0	78.4	12.7	82.8	11.2	84.0	18.7	76.6	16.6	78.8	4.0	91.2	10.9	84.2
Fabricated metal products	332	26,154	25.1	69.8	15.5	80.2	11.2	84.3	8.6	86.9	21.5	73.4	18.6	76.9	5.2	89.7	11.5	83.7
Machinery	333	12,117	31.7	63.3	25.6	69.7	23.3	72.0	11.0	83.5	24.2	70.8	20.4	74.6	5.3	89.6	14.3	81.1
Agricultural implements	33311	383	33.5	64.6	32.7	65.4	32.7	65.4	4.6	93.5	20.9	76.9	20.7	77.4	1.8	96.0	2.9	95.0
Semiconductor machinery	333295	244	36.5	62.7	35.6	63.5	35.6	63.5	8.3	90.8	31.9	67.3	31.1	68.1	4.1	95.1	5.7	93.4
Engine, turbine, and power transmission equipment	3336	338	55.0	41.8	53.7	43.1	53.7	43.1	16.2	80.6	33.6	63.2	33.0	63.9	2.1	94.5	15.5	81.3
Other machinery	other 333	11,152	30.8	63.9	24.3	70.8	21.8	73.3	11.1	83.1	23.8	70.9	19.7	75.0	5.5	89.1	14.8	80.3
Computer and electronic products	334	6,719	47.8	42.6	42.1	48.5	40.2	50.6	18.2	71.9	29.7	60.4	23.4	66.8	11.1	79.2	17.8	72.6
Communications equipment	3342	789	56.3	36.0	49.6	42.8	49.1	43.3	20.9	71.5	34.3	58.0	25.5	66.6	7.7	84.6	17.3	75.1
Semiconductor and other electronic components	3344	2,477	35.5	54.9	26.8	64.0	25.1	66.3	10.4	80.3	25.1	65.1	19.2	71.2	7.5	83.2	14.5	76.5
Navigational, measuring, electromedical, and control instruments	3345	2,341	55.1	31.9	53.1	33.9	52.6	34.5	24.8	61.5	32.6	54.3	28.3	58.5	16.0	70.7	22.6	64.3
Electromedical, electrotherapeutic, and irradiation apparatus	334510, 334517	244	61.2	15.5	58.9	17.8	58.1	19.0	29.2	47.1	36.9	39.4	31.6	44.7	20.6	55.7	31.5	44.8

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Industry	NAICS code	Compan- ies ^a (number)	Product								Process							
			Companies that introduced a new or significantly improved product or process		Companies that introduced new or significantly improved goods or services		New goods		New services		Companies that introduced any new or significantly improved process		New manufacturing or production methods		New logistics, delivery, or distribution methods		New support activities	
			Yes	No	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No
Search, detection, navigation, guidance, aeronautical, and nautical system and instruments	334511	353	52.0	34.3	51.7	34.7	51.7	34.7	22.4	63.9	18.8	67.6	12.9	73.5	9.6	76.7	16.5	69.9
Other measuring and controlling instruments	other 3345	1,744	54.9	33.7	52.6	36.0	52.0	36.6	24.6	63.0	34.8	53.6	30.9	57.4	16.6	71.6	22.6	65.9
Computer and peripheral equipment and other computer and electronic products	3341, 3343, 3346	1,111	53.7	42.1	47.4	48.6	41.4	54.5	19.9	75.4	30.6	64.6	21.1	74.2	11.1	84.1	15.6	79.6
Electrical equipment, appliances, and components	335	2,676	42.5	53.0	35.0	60.8	34.1	61.7	11.4	84.2	27.5	67.8	22.8	72.9	10.1	85.1	20.1	75.4
Transportation equipment	336	5,427	31.1	60.8	27.1	64.7	24.7	67.1	10.3	81.5	22.8	69.0	17.4	74.3	4.8	87.0	15.1	76.7
Automobiles, bodies, trailers, and parts	3361–3363	3,264	28.2	62.5	23.6	67.0	21.8	68.9	7.8	82.9	21.7	68.9	19.2	71.4	3.2	87.4	13.7	76.9
Aerospace products and parts	3364	863	33.2	54.6	28.9	58.9	26.2	61.5	16.5	71.3	23.6	64.2	14.7	73.0	6.6	81.0	19.1	68.7
Aircraft, aircraft engine, and aircraft parts	336411–336413, 336414, 336415,	805	33.6	58.1	29.2	62.5	26.3	65.2	16.8	74.9	23.3	68.3	14.0	77.5	6.4	85.1	19.1	72.5
Guided missile, space vehicle, and related parts	336419	58	28.0	6.8	24.6	10.3	24.6	10.3	12.6	22.3	28.0	6.8	24.6	10.3	10.3	24.6	19.5	15.4
Other transportation equipment	other 336	1,300	36.9	60.6	34.7	62.8	31.0	66.5	12.5	84.9	24.9	72.6	15.0	82.5	7.5	89.9	16.0	81.4
Furniture and related products	337	7,455	20.5	73.5	14.7	80.2	13.4	80.8	6.7	87.8	16.6	77.4	12.3	81.7	5.7	89.1	8.8	85.4
Miscellaneous manufacturing	339	10,749	37.3	58.8	28.8	67.3	25.4	70.7	11.4	84.4	26.3	69.4	20.3	75.5	7.6	88.1	16.3	79.4
Medical equipment and supplies	3391	4,024	42.7	53.7	32.0	64.3	27.9	68.4	16.3	80.0	35.1	61.3	27.2	69.1	11.1	85.1	19.8	76.6
Other miscellaneous manufacturing	3399	6,725	34.1	61.8	26.9	69.1	24.0	72.0	8.4	87.1	21.1	74.3	16.1	79.4	5.5	89.9	14.3	81.1
Nonmanufacturing industries	21–23, 42–81	1,418,931	10.9	83.8	8.0	87.1	3.4	91.8	6.7	88.6	7.6	87.2	2.4	92.6	2.8	92.4	6.4	88.8
Mining, extraction, and support activities	21	7,608	1.9	87.9	1.4	88.6	1.0	89.0	0.9	89.8	1.6	89.1	0.8	90.0	0.7	89.9	1.2	90.4
Utilities	22	728	22.3	60.2	11.6	70.7	9.7	72.8	10.5	71.8	20.8	61.9	3.4	79.3	3.6	79.0	18.3	64.2
Construction	23	197,574	6.4	89.0	3.6	92.7	1.4	94.9	2.7	93.6	4.4	91.0	1.0	94.9	1.3	94.8	3.7	92.3
Wholesale trade	42	103,628	15.0	80.2	9.4	86.0	6.5	89.1	5.7	90.0	11.4	84.2	3.8	91.7	4.4	91.4	8.4	87.5
Retail trade	44, 45	194,798	9.6	84.7	6.1	88.9	2.9	92.3	4.4	90.6	7.5	87.1	1.2	93.7	2.3	92.8	6.3	89.0
Electronic shopping and mail-order houses	4541	2,960	33.5	62.9	29.5	67.0	16.9	79.7	15.7	80.8	30.8	65.6	20.3	76.4	5.0	91.6	21.2	75.2
Other retail trade	other 44, 45	191,838	9.2	85.0	5.7	89.2	2.7	92.5	4.2	90.8	7.1	87.4	0.9	93.9	2.2	92.8	6.1	89.2
Transportation and warehousing	48, 49	43,231	12.2	85.0	9.7	87.6	1.9	95.2	9.5	87.8	9.6	87.5	3.0	94.2	4.8	92.4	7.8	89.5
Information	51	23,042	32.1	62.4	29.2	65.6	16.3	78.1	24.0	71.0	20.7	73.5	7.3	87.2	10.4	83.8	16.7	77.7
Publishing	511	9,567	40.6	55.1	36.2	59.4	25.8	69.3	27.1	68.9	28.8	66.7	10.0	85.2	11.9	83.6	22.5	72.9
Newspaper, periodical, book, and directory publishers	5111	5,798	14.6	81.3	11.0	84.9	3.5	92.4	10.3	87.3	10.2	87.4	3.8	93.3	5.0	92.6	6.3	91.3
Software publishers	5112	3,769	80.6	14.7	75.0	20.1	60.1	33.9	53.0	40.6	57.4	34.9	19.6	72.7	22.6	69.9	47.5	44.8
Telecommunications	517	2,848	28.3	64.9	27.6	65.7	11.9	81.3	25.2	68.0	10.9	82.3	2.0	91.1	6.9	86.3	8.8	84.4
Internet service providers, Web search portals, and data processing services	518	3,520	45.4	49.4	44.2	50.7	16.8	77.6	40.9	53.9	29.8	63.6	10.8	83.5	13.6	80.0	28.5	65.3
Other information	other 51	7,108	15.8	77.8	13.0	81.4	5.0	88.8	11.0	83.4	9.4	84.1	4.1	90.2	8.2	84.7	6.3	87.5

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			Yes	No	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No
Finance and insurance	52	55,835	10.8	79.3	7.6	82.6	1.0	90.0	7.5	82.7	7.4	83.5	1.4	89.7	2.4	88.2	7.0	84.0
Real estate and rental and leasing	53	48,964	9.5	87.0	6.7	90.3	5.6	91.4	4.9	92.1	6.2	90.3	1.7	95.3	1.6	94.9	6.1	90.9
Professional, scientific, and technical services	54	173,858	17.2	79.6	13.4	83.6	5.8	91.0	11.9	85.0	11.8	84.8	4.4	92.0	4.6	92.0	9.8	87.0
Architectural, engineering, and related services	5413	32,174	17.2	79.7	12.4	85.0	4.0	93.2	11.2	86.1	13.4	82.8	5.5	90.8	4.4	92.5	11.2	85.6
Computer systems design and related services	5415	19,355	38.6	55.9	34.7	60.4	19.5	75.0	29.6	65.2	24.9	68.4	8.1	85.4	7.4	85.9	23.1	71.1
Scientific R&D services	5417	3,066	39.5	52.6	32.9	59.4	23.2	69.1	21.0	71.2	25.1	67.0	14.1	78.1	6.7	85.6	14.9	77.2
Other professional, scientific, and technical services	other 54	119,263	13.2	84.2	9.7	87.6	3.6	93.5	9.0	88.3	8.8	88.5	3.2	93.7	4.1	93.0	7.1	90.2
Health care services	621–623	183,741	12.0	82.7	9.7	85.8	2.7	92.7	9.1	86.4	8.0	86.7	3.3	92.0	3.2	92.2	6.6	88.6
Other nonmanufacturing	55, 56, 61, 624, 71, 72, 81	385,925	8.4	85.3	6.6	87.5	2.6	91.6	5.4	88.7	5.6	88.3	1.9	92.1	1.9	92.3	4.9	89.2

NAICS = 2002 North American Industry Classification System.

^aWeighted totals for companies that reported to survey, whether they did or did not perform or fund R&D.

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, 2008.