

TABLE 74

Domestic sales for companies located in the United States that performed or funded R&D, by business activity: 2008–15

(Millions of U.S. dollars)

Business activity ^a	Business code ^b	2008	2009	2010	2011	2012	2013	2014	2015
All business activities	21100–81000	7,796,340	7,448,495	8,831,739	9,059,299	9,260,168	9,663,848	9,785,269	9,049,901
Oil and gas extraction	21100	127,788	61,582	85,797	178,926	124,569	120,495	124,534	71,425
Mining	21200	NA	D	33,072	38,109	24,837	38,270	22,962	37,584
Support activities for mining, including oil and gas	21300	NA	23,022	34,840	42,645	51,327	72,553	97,302	49,059
Utilities	22100	NA	D	301,613	337,871	309,573	316,082	347,997	334,688
Construction	23000	NA	27,180	81,641	88,626	64,402	60,516	66,835	49,718
Food manufacturing	31100	394,404	503,047	501,332	494,683	503,915	693,438	608,765	553,923
Beverage manufacturing	31210	83,691	78,740	84,764	95,236	83,774	106,580	109,397	122,282
Tobacco manufacturing	31220	28,680	32,431	31,357	29,645	27,706	35,864	36,177	31,715
Textile, apparel, and leather products manufacturing	31990	NA	45,893	56,890	52,532	68,545	55,066	51,532	66,883
Wood products manufacturing	32100	28,183	26,213	25,241	22,344	28,764	36,703	44,706	29,017
Paper manufacturing	32200	100,057	80,030	99,820	103,867	101,033	106,399	106,178	113,735
Printing and related support activities	32300	22,678	33,532	32,163	26,809	26,267	26,281	29,178	40,372
Petroleum refineries	32401	NA	NA	540,612	581,297	578,075	639,569	521,504	336,274
Asphalt paving, roofing, and saturated materials manufacturing	32402	NA	NA	7,549	8,781	8,489	13,260	8,873	9,724
Other petroleum and coal products manufacturing, including motor oil, hydraulic fluid, and charcoal	32403	NA	NA	21,658	20,509	20,440	13,722	12,852	11,797
Basic chemicals manufacturing	32510	158,621	103,950	150,240	206,723	344,515	198,843	195,066	154,369
Resin, synthetic rubber, and artificial synthetic fibers and filaments manufacturing	32520	60,269	61,805	64,684	58,263	68,104	67,845	73,542	62,312
Pesticide, fertilizer, and other agricultural chemical manufacturing	32530	28,010	47,317	41,528	33,380	40,317	45,660	55,122	47,038
Pharmaceutical, medicinal, botanical, and biological products (except diagnostics) ^c	32541	445,985	309,750	324,266	414,284	428,486	415,199	414,154	410,003
In vitro diagnostic substances manufacturing ^c	32542	15,353	9,805	12,835	13,735	14,646	8,141	14,006	6,219
Biotechnology-based pharmaceutical and biological products (except diagnostics)	32543	NA	NA	NA	NA	NA	36,856	48,419	62,549
Soap, cleaning compound, and toilet preparations manufacturing	32591	69,942	71,452	81,151	70,851	82,518	87,034	101,458	81,150
Paint, adhesive, and other chemical manufacturing	32592	63,149	62,724	60,506	64,497	79,372	67,504	73,975	68,584
Plastics and rubber products manufacturing	32600	118,523	114,191	137,777	173,290	194,568	153,705	165,082	155,868
Clay and glass products manufacturing	32710	24,394	19,014	25,143	21,754	20,164	22,987	21,577	23,855
Cement, concrete, lime, gypsum, and other nonmetallic mineral products manufacturing	32790	43,373	31,599	24,141	24,235	33,359	33,428	25,941	27,887
Primary metal manufacturing	33100	NA	97,493	161,558	148,670	153,926	137,000	104,419	89,553
Fabricated metal products manufacturing	33200	142,788	102,595	119,246	130,090	155,294	160,359	168,139	149,613
Agricultural machinery and equipment manufacturing	33311	27,543	25,669	29,904	29,258	35,667	45,717	36,857	32,055
Construction machinery manufacturing	33312	18,228	13,180	19,480	25,854	31,853	42,912	41,256	35,849
Mining, oil, and gas field machinery and equipment manufacturing	33319	NA	33,167	39,264	53,050	60,556	46,949	43,531	38,215
Semiconductor machinery manufacturing	33321	9,091	4,765	11,918	15,018	6,839	10,807	11,067	8,529
Industrial machinery manufacturing (except semiconductor machinery)	33322	19,452	15,372	21,762	29,736	31,127	29,265	35,077	32,739
Photographic and photocopying equipment manufacturing	33331	NA	5,392	3,927	4,791	D	6,885	7,246	7,136

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Commercial, service industry, temperature control, and air-flow control machinery manufacturing	33332	NA	33,493	48,407	43,626	54,363	64,333	71,628	72,621
Digital cameras manufacturing	33333	NA	NA	NA	NA	NA	NA	15	1,728
Engine, turbine, and power transmission equipment manufacturing	33360	58,560	30,093	46,693	68,243	74,148	89,526	45,367	48,797
Metalworking and other general purpose machinery manufacturing	33390	54,007	43,998	58,532	71,081	86,258	81,492	98,230	100,229
Computers and peripheral equipment manufacturing and magnetic and optical media ^d	33412	NA	136,666	167,290	174,898	143,492	180,146	165,617	153,211
Telephone apparatus manufacturing, including routers, modems, and gateways	33421	26,447	35,592	40,631	32,334	34,783	39,026	40,004	92,411 i
Radio, television, and wireless communication equipment manufacturing	33422	46,641	46,769	61,641	55,217	82,027	94,606 i	96,564 i	34,951
Other communication equipment manufacturing (except radio, television, and wireless communication equipment)	33429	11,185	8,644	8,841	12,452	13,908	16,604	12,801	14,678
Audio and video equipment manufacturing	33430	10,969	10,929	19,142	7,296	14,633	14,832	13,162	31,815 i
Semiconductor and other electronic components manufacturing	33440	119,612	117,302	138,124	151,590	146,764	123,263	162,118	177,381
Electromedical, electrotherapeutic, and irradiation apparatus manufacturing	33451	28,976	18,709	19,647	25,057	27,605	31,248	28,949	28,780
Search, detection, navigation, guidance, aeronautical, and nautical systems and instruments manufacturing	33452	33,348	46,237	57,639	40,372	53,425	52,990	55,142	48,811
Measuring and control instruments manufacturing (not listed elsewhere)	33459	37,609	42,753	50,643	49,752	58,909	52,984	55,954	58,712
Electrical equipment, appliances, and components manufacturing	33500	106,551	85,758	105,982	106,576	110,094	133,238	141,600	143,276
Motor vehicles manufacturing	33610	346,591	274,985	329,874	373,194	375,113	459,721	385,647	526,675
Motor vehicle body and trailer manufacturing	33620	9,363	15,184	22,168	14,423	31,982	25,726	32,146	23,107
Motor vehicle parts manufacturing	33630	97,433	77,528	146,257	125,593	130,372	155,179	244,948	192,524
Aircraft manufacturing	33641	97,973	69,001 i	81,666	111,748	91,545 i	145,641	132,472	139,077
Aircraft engine and engine parts manufacturing	33642	35,056	24,737	25,563	27,491	26,706	46,618	41,051	32,463
Other aircraft parts and auxiliary equipment manufacturing	33643	21,141	26,755	31,157	43,898	34,541	47,588	68,545	76,184
Guided missiles, space vehicles, and related parts manufacturing	33644	38,114	D	25,391	35,889	14,656	14,770	27,872	29,272
Railroad rolling stock manufacturing	33651	6,354	2,763	7,095 i	7,204	11,800	10,875	16,122	16,135
Ship and boat building	33660	14,880	D	10,531	11,647	22,778 i	15,008	32,077 i	13,569
Motorcycle, bicycle, and parts manufacturing	33691	8,078	6,282	6,081	7,422	7,067	10,406	7,777	7,687
Military armored vehicle, tank, and tank components manufacturing	33692	13,092	9,674	9,072	5,755	4,668	4,190 i	4,895	4,294
All other transportation equipment manufacturing	33699	7,131	5,438	11,079	11,066	16,258	15,809	D	11,479
Furniture and related products manufacturing	33700	36,218	31,479	32,876	32,881	37,447 i	35,446	39,675	38,156
Medical equipment and supplies manufacturing	33910	105,647	102,585	169,760	225,177	136,664	160,263	155,890	155,233
Miscellaneous manufacturing not listed elsewhere (games, office supplies, slot machines, etc.)	33990	80,689	84,846	71,000	78,674	80,879	93,078	90,517	95,327
Merchant wholesalers, durable goods	42300	238,101	196,341	206,240	171,815	221,488	353,401 i	161,500	230,363
Merchant wholesalers, nondurable goods	42400	274,190	239,385	247,311	266,388	349,833	362,965	457,745	393,398
Wholesale electronic markets and agents and brokers (business to business)	42500	2,481	D	3,331	3,008	65,076 i	33,264	65,562	20,928
Retail trade (except electronic shopping and electronic auctions)	44000	NA	D	195,958	70,424	214,728 i	128,479	400,192	214,306

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Electronic shopping and electronic auctions	45411	NA	NA	32,624	40,254	53,712	59,174	43,787	86,712
Transportation	48000	NA	D	95,591	83,912	107,212	87,113	111,576	56,049
Couriers, messengers, and express delivery services	49200	D	D	36,420	D	D	D	123,456	D
Warehousing and storage	49300	28,723	1,296	23,982	21,910	3,157	12,235	1,971	2,307
Newspaper, periodical, book, and directory publishers (except Internet)	51110	12,383	16,369	18,917	22,488	26,549	15,003	8,481	5,753
Software publishers (except Internet) ^e	51120	121,028	118,001	129,649	132,970	136,905	154,237	163,059	159,589
Motion picture and sound recording (except Internet)	51200	10,053	14,356	11,375	9,824	7,281	13,722	D	5,203
Broadcasting (except Internet)	51500	NA	34,110	45,779	39,563	59,926	73,283	59,724	68,837
Wired telecommunications carriers	51710	99,917	D	209,490	261,484	216,736	181,127	227,778	213,921
Wireless telecommunications carriers (except satellite)	51720	134,162	153,937	138,473	156,525	193,254	205,148	247,714	210,821
Satellite telecommunications	51740	14,005	6,743	15,845	2,430	2,822	3,143	3,518	43,818
Other telecommunications (not listed elsewhere)	51790	4,374	8,108	7,222	15,929	14,610	16,325	5,973	13,669
Data processing, hosting, and related services ^e	51800	NA	29,903	31,417	51,197	82,997	49,201	67,167	64,996
Cloud computing applications and Internet-based software services	51801	NA	NA	NA	NA	NA	19,455	26,461	26,701
Other information services, including Internet publishing, broadcasting, and Web search portals ^e	51910	NA	27,907	47,397	28,424	28,760	36,613	57,405	53,714
Finance: banking and credit intermediation	52200	NA	D	992,651	601,628	631,902	305,994	317,147	284,213
Securities, commodity contracts, and other financial investments and related activities, including funds and trusts	52310	NA	D	113,669	117,167	88,244	83,913	54,342	59,996
Insurance carriers and related activities	52400	NA	282,640	265,110	265,293	349,252	363,799	347,710	398,777
Real estate	53100	6,053	D	4,615	4,727	8,069	8,227	10,128	8,449
Rental and leasing services	53200	NA	D	27,719	18,597	21,801	26,614	15,330	24,817
Lessors of nonfinancial intangible assets, including patent licensing	53300	D	1,484	1,702	2,350	2,125	10,764	1,608	1,981
Legal, accounting, tax preparation, bookkeeping, and payroll services	54111	NA	D	14,565	7,394	9,093	11,974	18,498	18,560
Architectural, engineering, and related services	54130	37,749	81,565	113,603	65,209	94,868	80,859	85,535	90,682
Specialized design services	54140	3,325	D	3,522	2,353	3,301	2,714	1,487	769
Computer systems design and related services ^e	54150	124,832	140,234	143,787	224,144	167,759	158,858	168,793	165,438
Management, scientific, and technical consulting services	54160	33,588	36,811	28,351	52,489	57,925	59,508	84,830	75,643
Research and development services in social sciences and humanities	54172	NA	978	1,168	820	934	1,297	969	1,042
Research and development services in biotechnology ^c	54173	NA	18,691	7,194	7,388	9,769	10,689	15,872	6,938
Research and development services in physical, engineering, and life sciences (except biotechnology)	54174	NA	16,041	15,845	19,094	27,670	32,098	27,450	26,404
Advertising and related services	54180	14,574	D	11,336	21,227	27,500	34,889	34,379	38,464
Professional, scientific, and technical services (not listed elsewhere)	54190	15,690	28,298	33,134	46,048	53,969	38,936	24,808	27,969
Management of companies and enterprises	55100	752	2,310	3,347	11,847	4,131	176,993	8,497	D
Administrative and support services	56100	NA	29,045	25,660	22,146	38,874	26,981	214,331	23,326
Waste management and remediation services	56200	NA	D	13,971	7,223	6,080	5,650	4,152	23,157

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Business activity ^a	Business code ^b	2008	2009	2010	2011	2012	2013	2014	2015
Offices of physicians	62110	7,492	25,751	24,133	23,844	35,513	36,233	19,041	36,613
Medical and diagnostic laboratories	62150	19,930	14,359	36,288	15,778	19,655	17,027	5,024	11,777
Other ambulatory health care services (ambulance, dental, home health care)	62199	NA	D	8,333	D	3,334 i	10,919	5,274	5,651
Hospitals and nursing care facilities	62200	NA	D	7,831	16,084	870 i	1,227	26,866	27,485
Social assistance services	62400	D	D	448	326	249	1,036	1,336	63
Arts, entertainment, and recreation	71000	NA	14,265	12,920	12,727	15,248	13,180	12,903	16,304
Accommodation and food services	72000	NA	D	37,218	27,476	54,266 i	57,908	31,664	39,626
Other services (not listed elsewhere)	81000	NA	9,638	35,994	118,268	44,823	120,458	60,949	53,720
Less: intersegment eliminations	–	219,384	110,499	132,754	117,417	136,579	136,540	160,374	128,220
Undistributed	–	756,553	1,137,705	412,892	450,613 i	108,244 i	D	1,945	18,890 i

D = data withheld to avoid disclosing operations of individual companies; i = > 50% of the estimate is a combination of imputation and reweighting to account for nonresponse; NA = not available.

NAICS = 2012 North American Industry Classification System.

^a Data are tabulated independent of the industry classification of the company. Companies were asked to report their sales and R&D activity in one or more business activity codes.

^b Business codes and descriptions are based on 2012 NAICS industry definitions.

^c Estimates for this business code may not be comparable to those from prior years due to the introduction of a related business code for survey year 2013 and beyond: 32543, Biotechnology-based pharmaceutical and biological products (except diagnostics).

^d Estimates for this business code may not be comparable to those from prior years due to the introduction of a related business code for survey year 2014 and beyond: 33333, Digital cameras manufacturing.

^e Estimates for this business code may not be comparable to those from prior years due to the introduction of a related business code for survey year 2013 and beyond: 51801, Cloud computing applications and Internet-based software services.

Note(s)

Detail may not add to total because of rounding. For companies that did not report business codes, the classification used for sampling was assigned. Statistics are representative of companies located in the United States that performed or funded R&D. Most statistics for years prior to 2015 have been revised since originally published. Revised statistics include adjustments based on information obtained after the original statistics were prepared. For survey year 2008, industry classification was based on the 2002 NAICS. For survey years 2009–13, industry classification was based on the 2007 NAICS.

Source(s)

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