

TABLE 8-6
U.S. utility patents citing S&E literature, by patent assignee sector, article author sector, and patent issue year: 2013–16

(Number)

Patent assignee sector and article author sector	2013	2014	2015	2016
USPTO utility patents				
All utility patents	278,517	301,643	299,382	304,126
Patents citing S&E literature, all assignee sectors	64,572	70,124	68,761	69,025
Foreign	24,641	26,902	26,664	26,941
Unknown country	92	93	91	107
United States	39,839	43,129	42,006	41,977
Government	716	751	719	695
Private	33,354	36,161	35,004	34,688
Academic	4,334	4,700	4,844	5,176
Other	324	326	337	301
Individuals	1,106	1,149	1,035	1,073
No information on organization or unclassified	7	42	67	44
S&E articles				
All S&E articles, all article author sectors	14,210,554	15,085,104	16,048,163	17,069,262
All cited S&E articles, all article author sectors	274,312	290,951	288,922	290,433
Foreign	150,246	160,215	161,203	163,365
Unknown country	1,469	1,477	1,313	1,259
United States	122,597	129,259	126,407	125,809
Federal government	5,979	6,138	6,001	5,849
Industry	20,385	21,103	19,890	18,919
Academic	81,736	86,965	85,996	86,797
FFRDCs	2,425	2,651	2,580	2,637
Nonprofit	6,635	6,843	6,782	6,510
State and local government	153	138	137	165



Patent assignee sector and article author sector	2013	2014	2015	2016
Joint or unknown sectors	5,285	5,421	5,020	4,932
Citations from USPTO utility patents to S&E articles				
All citations, all article author sectors	582,179	640,922	633,407	615,028
Foreign	301,659	336,684	337,309	329,291
Unknown country	3,098	3,232	2,913	2,744
United States	277,423	301,006	293,185	282,993
Federal government	11,738	12,428	12,114	11,396
Industry	51,465	56,946	52,842	49,392
Academic	181,090	195,796	193,748	189,995
FFRDCs	5,476	6,011	5,644	5,562
Nonprofit	14,893	16,213	16,367	15,195
State and local government	296	309	269	333
Joint or unknown sectors	12,466	13,304	12,199	11,119

FFRDC = federally funded research and development center; USPTO = U.S. Patent and Trademark Office.

Note(s)

Article and citation counts are from the set of journals covered by Scopus. Articles are assigned to a sector on the basis of the institutional address(es) listed in the article. Articles and citations are credited on a fractional-count basis (i.e., for articles with collaborating institutions from multiple sectors, each sector receives fractional credit on the basis of the proportion of its participating institutions). Citation counts are based on an 11-year window with a 5-year lag (e.g., citations for 2012 are references in U.S. patents issued in 2012 to articles published in 1997–2007). Article counts are a sum of articles in the cited-year window. Detail may not add to total because of rounding. Data in the table are not comparable to previous versions due to changes in the cited-year window.

Source(s)

National Science Foundation, National Center for Science and Engineering Statistics; SRI International; Science-Metrix; PatentsView and USPTO data; Elsevier, Scopus abstract and citation database (<https://www.scopus.com/>), accessed April 2017 (patent data) and July 2017.

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