

Appendix table 5-42

(Page 1 of 2)

Cross-sectoral coauthorship of U.S. S&E articles, by field and sector: 2001

Field and sector	Cross-sectoral articles	Share of cross-sectoral articles					State and local government
		Academic	Industry	Federal Government	Nonprofit institutions	FFRDCs	
	Number	Percent					
All fields							
All sectors	48,872	na	na	na	na	na	na
Academic	44,994	na	25.7	31.7	37.0	11.3	5.8
Industry	18,334	83.4	na	17.3	17.0	0.9	4.2
Federal Government	16,420	86.8	14.6	na	14.6	5.0	3.7
Nonprofit institutions	13,874	90.8	12.9	13.1	na	0.5	4.6
FFRDCs	5,875	86.2	14.8	14.0	5.4	na	1.7
State/local government	3,037	85.5	13.0	20.2	23.3	0.3	na
Clinical medicine							
All sectors	20,418	na	na	na	na	na	na
Academic	18,977	na	22.2	32.0	51.9	1.1	7.4
Industry	5,015	83.8	na	16.6	32.3	0.9	4.2
Federal Government	6,755	89.8	12.3	na	20.3	1.5	4.8
Nonprofit institutions	10,788	91.4	15.0	12.7	na	0.5	4.6
FFRDCs	297	72.7	14.8	34.3	17.8	na	1.7
State/local government	1,628	86.7	13.0	20.1	30.8	0.3	na
Biomedical research							
All sectors	7,991	na	na	na	na	na	na
Academic	7,502	na	21.5	33.5	44.8	6.6	4.3
Industry	1,870	86.4	na	16.0	18.8	4.2	2.1
Federal Government	2,797	89.9	10.7	na	13.8	3.9	2.4
Nonprofit institutions	3,599	93.4	9.8	10.7	na	2.5	1.8
FFRDCs	614	80.5	12.7	17.8	14.5	na	1.5
State/local government	371	86.0	10.8	17.8	17.8	2.4	na
Biology							
All sectors	2,649	na	na	na	na	na	na
Academic	2,424	na	18.9	54.7	19.6	2.7	11.9
Industry	566	80.7	na	25.8	7.6	1.1	6.2
Federal Government	1,493	88.8	9.8	na	6.3	1.5	7.1
Nonprofit institutions	544	87.3	7.9	17.3	na	1.8	5.7
FFRDCs	77	85.7	7.8	29.9	13.0	na	0.0
State/local government	357	80.7	9.8	29.7	8.7	0.0	na
Chemistry							
All sectors	1,988	na	na	na	na	na	na
Academic	1,799	na	41.4	21.8	9.9	31.5	1.4
Industry	870	85.6	na	13.6	2.9	7.2	0.3
Federal Government	501	78.2	23.6	na	4.8	11.6	0.6
Nonprofit institutions	222	80.6	11.3	10.8	na	5.9	0.9
FFRDCs	638	88.9	9.9	9.1	2.0	na	0.2
State/local government	30	83.3	10.0	10.0	6.7	3.3	na
Physics							
All sectors	4,388	na	na	na	na	na	na
Academic	4,026	na	31.0	19.8	4.5	53.1	0.2
Industry	1,529	81.6	na	16.2	1.5	20.0	0.0
Federal Government	1,000	79.8	24.7	na	3.0	14.0	0.1
Nonprofit institutions	215	83.7	10.7	14.0	na	17.7	0.0
FFRDCs	2,337	91.4	13.1	6.0	1.6	na	0.0
State/local government	8	87.5	0.0	12.5	0.0	0.0	na
Earth/space sciences							
All sectors	4,017	na	na	na	na	na	na
Academic	3,483	na	18.1	43.4	21.5	27.3	4.4
Industry	898	70.2	na	39.5	9.0	12.7	5.0
Federal Government	1,888	80.1	18.8	na	13.2	16.3	2.0
Nonprofit institutions	907	82.7	8.9	27.5	na	14.0	1.3
FFRDCs	1,127	84.3	10.1	27.2	11.3	na	0.4
State/local government	195	78.5	23.1	19.0	6.2	2.6	na

Appendix table 5-42

(Page 2 of 2)

Cross-sectoral coauthorship of U.S. S&E articles, by field and sector: 2001

Field and sector	Cross-sectoral articles	Share of cross-sectoral articles					
		Academic	Industry	Federal Government	Nonprofit institutions	FFRDCs	State and local government
	Number	Percent					
Engineering/technology							
All sectors	3,326	na	na	na	na	na	na
Academic	2,936	na	61.4	22.5	4.2	19.8	0.6
Industry	2,131	84.6	na	13.6	2.5	9.2	0.8
Federal Government	870	76.0	33.2	na	4.7	9.0	0.0
Nonprofit institutions	187	65.8	28.3	21.9	na	8.0	1.1
FFRDCs	724	80.1	27.2	10.8	2.1	na	0.0
State/local government	32	59.4	50.0	0.0	6.3	0.0	na
Mathematics							
All sectors	270	na	na	na	na	na	na
Academic	260	na	51.5	15.4	25.0	10.8	0.8
Industry	144	93.1	na	5.6	2.8	3.5	0.0
Federal Government	46	87.0	17.4	na	10.9	2.2	0.0
Nonprofit institutions	66	98.5	6.1	7.6	na	0.0	0.0
FFRDCs	31	90.3	16.1	3.2	0.0	na	0.0
State/local government	2	100.0	0.0	0.0	0.0	0.0	na
Psychology							
All sectors	1,072	na	na	na	na	na	na
Academic	1,025	na	16.7	29.6	43.0	0.1	11.6
Industry	202	84.7	na	13.9	19.8	0.0	2.5
Federal Government	321	94.4	8.7	na	10.0	0.0	2.8
Nonprofit institutions	468	94.2	8.5	6.8	na	0.0	5.8
FFRDCs	1	100.0	0.0	0.0	0.0	na	0.0
State/local government	122	97.5	4.1	7.4	22.1	0.0	na
Social sciences							
All sectors	834	na	na	na	na	na	na
Academic	788	na	15.5	24.2	54.6	1.9	5.7
Industry	142	85.9	na	9.9	11.3	0.7	0.7
Federal Government	222	86.0	6.3	na	19.4	1.8	1.8
Nonprofit institutions	457	94.1	3.5	9.4	na	0.4	0.4
FFRDCs	20	75.0	5.0	20.0	10.0	na	0.0
State/local government	48	93.8	2.1	8.3	4.2	0.0	na
Health/professional							
All sectors	1,919	na	na	na	na	na	na
Academic	1,774	na	24.6	25.6	44.7	0.5	11.7
Industry	507	86.0	na	12.6	20.1	0.4	3.9
Federal Government	527	86.1	12.1	na	22.0	0.2	11.6
Nonprofit institutions	881	90.0	11.6	13.2	na	0.0	7.4
FFRDCs	9	88.9	22.2	11.1	0.0	na	0.0
State/local government	244	84.8	8.2	25.0	26.6	0.0	na

FFRDC federally funded research and development center

na Not applicable

NOTES: Article counts are on a whole-count basis, where each institutional author is credited with a whole count. Sector shares may exceed 100 percent in cases of articles with multiple institutional authors. Sum of the institutional article counts exceeds the total number of cross sectoral articles because of whole counting of articles with multiple institutional authors.

SOURCES: Institute for Scientific Information, Science Citation Index and Social Sciences Citation Index; CHI Research, Inc.; and National Science Foundation, Division of Science Resources Statistics, special tabulations.