

Appendix table 5-39

(Page 1 of 2)

**Coauthorship of U.S. S&E articles, by field and sector: 1988**

Field and sector	Articles Number	All		Internationally
		coauthored articles	U.S. coauthored articles	coauthored articles
		Percent		
<b>All fields</b>				
All sectors .....	187,242	47.5	37.2	10.3
Academic .....	148,506	52.2	42.1	10.1
Industry.....	20,232	50.2	42.0	8.2
Federal Government .....	22,048	67.5	57.6	9.9
Nonprofit institutions .....	19,452	71.8	62.5	9.3
FFRDCs .....	7,352	59.8	43.6	16.2
State/local government.....	3,684	75.4	70.0	5.4
<b>Clinical medicine</b>				
All sectors .....	57,384	61.0	52.0	8.0
Academic.....	46,391	65.6	57.8	7.7
Industry.....	3,885	66.0	56.4	9.6
Federal Government.....	9,035	79.8	70.3	9.5
Nonprofit institutions .....	11,734	76.8	69.8	7.0
FFRDCs.....	396	72.5	61.4	11.1
State/local government .....	2,072	84.5	79.1	5.4
<b>Biomedical research</b>				
All sectors .....	29,203	51.7	39.5	12.2
Academic.....	23,944	55.7	44.1	11.6
Industry.....	2,303	61.9	50.5	11.4
Federal Government.....	3,777	68.0	54.3	13.7
Nonprofit institutions .....	3,468	71.4	57.9	13.5
FFRDCs.....	626	60.5	47.4	13.1
State/local government .....	445	68.3	59.1	9.2
<b>Biology</b>				
All sectors .....	13,522	40.7	30.7	9.9
Academic.....	11,150	44.3	34.5	9.8
Industry.....	563	60.7	53.6	7.1
Federal Government.....	2,435	53.3	45.7	7.6
Nonprofit institutions .....	623	61.2	41.9	19.3
FFRDCs.....	145	52.4	49.0	3.4
State/local government .....	323	65.0	58.5	6.5
<b>Chemistry</b>				
All sectors .....	13,896	31.2	21.1	10.1
Academic.....	10,432	35.5	24.7	10.7
Industry.....	2,696	32.8	26.5	6.3
Federal Government.....	987	47.8	38.1	9.7
Nonprofit institutions .....	278	45.7	34.2	11.5
FFRDCs.....	701	56.9	44.4	12.6
State/local government .....	47	40.4	34.0	6.4
<b>Physics</b>				
All sectors .....	19,686	45.4	28.9	16.5
Academic.....	13,853	53.5	36.0	17.5
Industry.....	4,138	45.3	35.2	10.1
Federal Government.....	1,439	58.9	48.0	10.8
Nonprofit institutions .....	331	62.8	44.1	18.7
FFRDCs.....	3,319	61.0	40.6	20.4
State/local government .....	8	50.0	50.0	0.0
<b>Earth/space sciences</b>				
All sectors .....	8,784	49.6	32.9	16.7
Academic.....	6,413	55.1	38.4	16.7
Industry.....	884	69.6	58.9	10.6
Federal Government.....	1,771	62.9	49.3	13.6
Nonprofit institutions .....	603	68.2	43.3	24.9
FFRDCs.....	907	67.4	47.6	19.7
State/local government .....	183	60.7	56.3	4.4

Appendix table 5-39

(Page 2 of 2)

**Coauthorship of U.S. S&E articles, by field and sector: 1988**

Field and sector	Articles	All	U.S.	Internationally
		coauthored articles	coauthored articles	coauthored articles
	Number		Percent	
<b>Engineering/technology</b>				
All sectors .....	8,784	49.6	32.9	16.7
Academic .....	6,413	55.1	38.4	16.7
Industry .....	884	69.6	58.9	10.6
Federal Government .....	1,771	62.9	49.3	13.6
Nonprofit institutions .....	603	68.2	43.3	24.9
FFRDCs .....	907	67.4	47.6	19.7
State/local government .....	183	60.7	56.3	4.4
<b>Mathematics</b>				
All sectors .....	4,301	39.7	20.3	19.5
Academic .....	4,009	41.0	21.2	19.8
Industry .....	230	57.0	43.0	13.9
Federal Government .....	126	53.2	44.4	8.7
Nonprofit institutions .....	79	65.8	45.6	20.3
FFRDCs .....	86	60.5	51.2	9.3
State/local government .....	5	80.0	80.0	0.0
<b>Psychology</b>				
All sectors .....	7,343	37.6	32.8	4.8
Academic .....	6,805	39.3	34.5	4.8
Industry .....	231	64.1	58.9	5.2
Federal Government .....	338	70.1	65.7	4.4
Nonprofit institutions .....	467	70.7	66.2	4.5
FFRDCs .....	10	70.0	70.0	0.0
State/local government .....	162	74.7	71.6	3.1
<b>Social sciences</b>				
All sectors .....	9,043	30.5	23.7	6.8
Academic .....	7,854	32.9	26.1	6.8
Industry .....	355	42.8	40.8	2.0
Federal Government .....	560	44.3	39.3	5.0
Nonprofit institutions .....	699	49.4	40.6	8.7
FFRDCs .....	76	40.8	35.5	5.3
State/local government .....	78	56.4	55.1	1.3
<b>Health sciences/professional fields</b>				
All sectors .....	11,649	34.4	31.1	3.4
Academic .....	0	38.5	34.8	3.7
Industry .....	0	37.0	35.8	1.2
Federal Government .....	546	51.6	48.7	2.9
Nonprofit institutions .....	0	52.4	49.7	2.7
FFRDCs .....	0	47.9	47.9	0.0
State/local government .....	0	57.8	56.5	1.3

FFRDC federally funded research and development center

NOTES: Coauthorship is based on author's institutional address. Article volume is on a whole-count basis, where each institutional author is credited with a whole count.

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.