



**Appendix Table 3-21**

**Plans of foreign recipients of U.S. doctorates to stay in the United States, by field of doctorate and place of origin: 2002–13**

Field and place of origin	Foreign S&E doctorate recipients			Plans to stay (%)			Definite plans to stay (%)		
	2002–05	2006–09	2010–13	2002–05	2006–09	2010–13	2002–05	2006–09	2010–13
All S&E fields	41,723	56,111	56,294	73.6	77.3	74.8	49.3	51.5	47.5
China	11,525	17,233	16,299	91.8	89.1	84.4	60.3	57.8	52.8
India	3,624	8,265	8,865	88.3	88.6	85.9	62.9	60.2	54.9
South Korea	4,166	4,976	4,683	69.5	69.6	65.1	42.9	45.4	41.9
Taiwan	1,919	2,115	2,429	65.1	67.3	71.4	38.5	40.7	41.5
Turkey	1,428	1,794	1,775	60.4	70.5	64.7	42.2	48.7	43.0
Canada	1,496	1,745	1,597	66.6	66.4	66.3	50.9	47.4	47.3
Iran	329	657	1,226	89.1	91.9	89.3	58.4	61.6	57.3
Thailand	1,270	994	915	19.4	30.9	30.8	11.3	15.7	15.1
Japan	798	950	868	57.1	57.8	59.8	39.7	41.2	38.1
Germany	775	753	793	67.0	67.5	66.5	51.2	52.9	49.6
Mexico	804	751	749	46.8	53.3	60.9	31.2	40.5	38.6
Colombia	325	492	633	57.2	65.0	61.9	35.4	44.9	37.8
Brazil	579	567	596	43.7	50.4	52.7	31.8	37.0	34.6
Russian Federation	863	792	538	84.6	80.7	78.3	60.7	55.2	48.5
Italy	512	532	519	65.6	66.2	63.4	48.8	48.7	46.2
Other	11,310	13,495	13,809	66.6	69.7	68.2	45.0	47.3	43.3
Physical and earth sciences	6,782	8,812	8,693	80.6	79.9	77.6	57.3	54.9	52.2
China	2,218	3,123	3,007	92.7	88.3	85.3	63.9	58.8	56.3
India	463	922	1,233	86.2	85.9	83.5	67.0	59.0	56.5

	Foreign S&E doctorate recipients			Plans to stay (%)			Definite plans to stay (%)		
Field and place of origin	2002-05	2006-09	2010-13	2002-05	2006-09	2010-13	2002-05	2006-09	2010-13
South Korea	514	600	526	83.3	77.7	69.6	62.3	57.0	50.4
Taiwan	195	226	290	76.4	78.3	74.1	52.3	59.7	50.3
Canada	232	268	213	67.2	64.9	66.2	56.5	47.4	52.1
Turkey	152	223	189	68.4	78.9	74.6	50.0	49.8	52.4
Sri Lanka	57	134	179	80.7	83.6	81.6	50.9	52.2	49.2
Russian Federation	319	279	173	87.5	78.9	86.1	61.8	53.8	64.2
Germany	182	134	150	67.6	53.0	62.0	51.6	41.8	50.7
Nepal	9	59	148	100.0	93.2	89.9	88.9	62.7	60.1
Japan	102	145	118	68.6	57.2	65.3	48.0	40.7	44.1
Mexico	92	94	115	58.7	60.6	60.0	41.3	48.9	40.9
Philippines	43	78	100	88.4	89.7	84.0	46.5	64.1	57.0
France	106	105	98	67.9	64.8	66.3	46.2	50.5	46.9
Thailand	91	87	96	25.3	32.2	36.5	18.7	19.5	19.8
Other	2,007	2,335	2,058	72.8	74.3	70.1	51.1	51.4	45.8
Biological sciences	6,908	9,642	9,993	84.4	83.7	82.3	59.1	56.8	51.8
China	2,438	3,291	3,014	95.5	91.2	86.8	64.5	58.7	54.0
India	687	1,544	1,945	94.0	91.1	89.3	65.2	62.9	53.7
South Korea	493	644	578	92.7	86.6	86.2	69.4	63.7	58.5
Taiwan	320	430	562	85.6	80.0	83.3	58.8	53.7	52.3
Canada	318	403	335	75.5	73.2	72.2	59.7	53.6	47.8
Turkey	124	163	165	66.1	82.8	80.6	48.4	59.5	58.8
Japan	104	143	162	77.9	81.8	75.3	53.8	61.5	50.6
Germany	123	148	150	76.4	75.0	78.0	59.3	58.8	47.3

	Foreign S&E doctorate recipients			Plans to stay (%)			Definite plans to stay (%)		
Field and place of origin	2002-05	2006-09	2010-13	2002-05	2006-09	2010-13	2002-05	2006-09	2010-13
Colombia	68	101	133	55.9	65.3	72.2	35.3	41.6	45.1
Brazil	95	134	127	47.4	56.0	62.2	40.0	40.3	40.9
Thailand	137	108	105	13.9	30.6	33.3	10.9	21.3	22.9
Mexico	117	104	102	60.7	60.6	69.6	43.6	47.1	44.1
United Kingdom	83	85	95	90.4	76.5	83.2	63.9	50.6	54.7
Russian Federation	125	114	90	95.2	83.3	80.0	72.0	56.1	47.8
Argentina	46	102	79	78.3	69.6	73.4	65.2	56.9	58.2
Other	1,630	2,128	2,351	75.1	76.7	76.6	52.3	52.1	48.5
Health sciences	1,683	2,091	2,146	61.8	68.9	70.0	40.6	43.2	40.5
India	191	399	446	88.5	89.2	88.8	59.2	56.1	50.0
China	259	366	382	89.6	84.7	83.2	63.3	54.9	51.3
Taiwan	172	209	178	44.8	52.6	54.5	25.6	30.6	33.7
South Korea	116	190	174	76.7	77.9	72.4	37.9	48.9	37.9
Canada	108	107	114	74.1	66.4	62.3	61.1	45.8	43.9
Thailand	168	92	88	8.9	15.2	11.4	6.0	5.4	1.1
Japan	43	45	55	53.5	53.3	56.4	39.5	35.6	30.9
Jordan	39	41	44	38.5	26.8	38.6	25.6	4.9	9.1
Brazil	53	36	37	41.5	44.4	64.9	26.4	27.8	35.1
Egypt	30	34	36	46.7	61.8	88.9	33.3	35.3	52.8
Nigeria	12	22	31	100.0	77.3	93.5	75.0	36.4	35.5
Colombia	9	15	27	44.4	86.7	66.7	11.1	53.3	44.4
Saudi Arabia	33	26	23	3.0	7.7	13.0	0.0	0.0	0.0
Germany	18	29	21	61.1	69.0	76.2	44.4	34.5	52.4

	Foreign S&E doctorate recipients			Plans to stay (%)			Definite plans to stay (%)		
Field and place of origin	2002-05	2006-09	2010-13	2002-05	2006-09	2010-13	2002-05	2006-09	2010-13
United Kingdom	26	24	19	80.8	79.2	73.7	57.7	62.5	63.2
Other	406	456	471	62.8	63.2	63.7	38.9	40.8	37.2
Mathematics and computer science	4,227	6,885	7,014	75.8	79.4	76.9	55.4	55.8	52.8
China	1,148	2,623	2,651	90.9	90.0	86.5	65.9	62.7	58.2
India	363	973	915	86.8	86.4	83.6	64.7	63.6	58.9
South Korea	362	489	488	77.3	74.0	68.2	49.7	46.0	42.8
Turkey	132	217	221	72.7	62.7	69.7	59.1	46.1	48.9
Taiwan	161	161	208	62.7	68.3	69.7	36.0	42.9	45.2
Canada	127	133	151	63.8	63.2	65.6	51.2	50.4	55.6
Romania	200	191	119	88.5	87.4	83.2	72.0	64.4	63.0
Germany	110	92	117	64.5	55.4	64.1	52.7	43.5	54.7
Iran	43	54	114	81.4	83.3	84.2	60.5	57.4	51.8
Thailand	71	81	110	12.7	24.7	33.6	9.9	9.9	18.2
Vietnam	15	41	105	73.3	73.2	73.3	60.0	53.7	52.4
Mexico	61	69	85	45.9	59.4	69.4	29.5	40.6	49.4
Russian Federation	149	127	83	79.9	81.9	72.3	59.7	59.8	44.6
Italy	54	58	71	64.8	69.0	62.0	53.7	53.4	42.3
Greece	64	88	68	67.2	56.8	70.6	53.1	43.2	54.4
Other	1,167	1,488	1,508	65.1	68.8	66.9	47.6	48.7	46.9
Social science	6,597	7,918	8,047	56.5	60.4	55.9	39.4	43.1	36.1
China	621	1,096	1,145	78.6	77.6	64.5	56.8	56.0	41.1
South Korea	731	853	861	44.6	48.1	45.5	27.5	30.5	28.0



	Foreign S&E doctorate recipients			Plans to stay (%)			Definite plans to stay (%)		
Field and place of origin	2002-05	2006-09	2010-13	2002-05	2006-09	2010-13	2002-05	2006-09	2010-13
India	366	478	575	79.8	79.5	72.0	53.8	57.9	48.2
Canada	478	492	463	57.9	57.7	56.4	43.1	42.3	40.6
Turkey	273	416	420	44.7	53.8	39.0	29.3	40.6	25.7
Japan	356	406	351	46.3	47.3	52.4	32.9	35.0	32.5
Taiwan	279	282	324	41.2	39.4	43.8	22.9	23.4	21.6
Germany	188	229	223	65.4	69.9	62.3	53.7	57.2	49.3
Mexico	185	185	164	33.5	48.1	53.0	23.2	38.9	32.9
Argentina	120	131	149	60.8	64.9	57.7	50.0	52.7	48.3
Brazil	129	153	140	40.3	41.8	42.1	31.0	31.4	27.1
Italy	151	144	135	60.3	61.8	51.9	53.0	47.2	37.8
United Kingdom	124	111	128	76.6	74.8	64.1	58.1	55.0	45.3
Israel	113	126	122	67.3	62.7	57.4	49.6	50.8	41.8
Russian Federation	116	149	110	75.0	75.8	65.5	56.0	52.3	32.7
Other	2,367	2,667	2,737	54.2	58.8	56.1	36.5	40.7	35.2
Engineering	13,695	18,916	18,553	76.0	81.3	78.4	46.5	51.3	47.7
China	4,509	6,361	5,748	91.9	90.5	86.3	55.9	55.4	50.7
India	1,466	3,741	3,476	88.5	89.9	87.5	63.0	59.7	56.6
South Korea	1,782	2,052	1,925	66.2	68.1	64.6	34.6	41.6	40.7
Iran	186	453	917	91.4	92.9	91.3	57.5	64.0	59.3
Taiwan	718	756	811	68.1	71.8	76.8	35.9	36.2	39.7
Turkey	614	741	748	66.1	77.1	71.9	44.8	51.7	45.5
Thailand	576	397	328	24.8	40.6	36.6	13.5	18.6	16.5
Canada	182	284	279	73.6	77.1	78.5	45.1	48.2	52.3



Field and place of origin	Foreign S&E doctorate recipients			Plans to stay (%)			Definite plans to stay (%)		
	2002-05	2006-09	2010-13	2002-05	2006-09	2010-13	2002-05	2006-09	2010-13
Egypt	238	189	230	66.8	78.3	69.1	42.4	50.3	39.6
Colombia	89	151	209	71.9	75.5	67.5	43.8	50.3	37.3
Mexico	222	180	195	54.5	61.1	63.6	33.8	45.0	39.0
Jordan	140	176	177	66.4	62.5	58.2	33.6	37.5	32.2
Bangladesh	84	144	166	89.3	86.8	84.3	54.8	55.6	47.6
Italy	101	134	156	74.3	70.9	72.4	50.5	49.3	54.5
Pakistan	57	100	152	80.7	72.0	51.3	42.1	45.0	32.9
Other	2,731	3,057	3,036	66.0	71.2	69.3	41.3	46.8	41.5

NOTES: For each broad field of doctorate, data are presented for the source countries with the largest numbers of U.S. doctorate recipients in that field in 2010-13. Data include foreign doctorate recipients who are on permanent or temporary visas and also those whose visa status are unknown. The information on a plan to stay or a definite plan to stay reflects intentions within the year after graduation as reported by the doctoral recipient around the graduation date. Recipients who plan to stay think they will locate in the United States; those with definite plans have a postdoctoral research appointment or a definite employment plan in the United States. Percentages are based on the total number of foreign S&E doctorate recipients, including those who did not report their postgraduate location plans or employment plans. The percentage of foreign S&E doctorate recipients who did not report postgraduate location plans ranged from 2.0% to 4.1% over the 2002-13 period, and the percentage who either did not report postgraduate location plans or did not report employment plans ranged from 3.3% to 6.7% over that period.

SOURCE: National Science Foundation, National Center for Science and Engineering Statistics, special tabulations of Survey of Earned Doctorates (2002-13). *Science and Engineering Indicators 2016*