

Table 2-8. Research doctorate recipients with temporary visas intending to stay in the United States after doctorate receipt, by region and country or economy of citizenship: 2018–24

(Number and percent)

Region and country or economy of citizenship	2018–24		2018		2019		2020		2021		2022		2023		2024	
	Number	% staying	Number	% staying	Number	% staying	Number	% staying	Number	% staying	Number	% staying	Number	% staying	Number	% staying
All temporary visa holders	130,525	73.4	17,581	72.0	18,324	71.2	18,473	73.0	17,768	70.8	19,618	74.3	19,390	76.2	19,371	75.8
Africa	5,784	77.8	741	70.7	738	72.0	783	72.5	763	73.7	907	78.6	861	86.4	991	86.5
Nigeria	1,509	84.0	147	75.5	145	81.4	161	79.5	193	78.2	294	83.0	265	91.3	304	90.1
Egypt	1,017	80.2	156	73.7	163	74.8	127	81.1	134	79.9	143	81.8	145	84.8	149	86.6
Ghana	782	80.4	103	66.0	88	72.7	106	73.6	88	79.5	125	79.2	124	91.1	148	92.6
Kenya	351	74.4	50	68.0	38	78.9	57	70.2	53	58.5	43	79.1	38	81.6	72	84.7
Libya	323	D	56	76.8	61	68.9	61	77.0	57	78.9	40	77.5	24	D	24	D
Ethiopia	248	D	31	D	35	71.4	28	82.1	30	76.7	43	D	49	87.8	32	D
South Africa	183	56.3	26	53.8	29	51.7	24	54.2	23	60.9	26	38.5	21	61.9	34	70.6
Uganda	171	D	20	50.0	20	45.0	30	53.3	28	42.9	29	72.4	24	66.7	20	D
Zimbabwe	136	D	18	66.7	16	D	22	D	18	D	23	73.9	14	D	25	D
Cameroon	D	D	17	70.6	18	D	14	D	11	D	11	90.9	24	D	D	90.0
Rwanda	100	D	10	D	11	D	28	60.7	12	D	13	61.5	9	D	17	94.1
Tunisia	100	D	8	D	14	D	15	D	14	D	16	D	16	D	17	D
Tanzania	D	D	9	D	7	D	10	D	12	D	8	D	12	D	D	D
Other	684	69.0	90	67.8	93	55.9	100	58.0	90	67.8	93	71.0	96	81.3	122	78.7
Americas	11,340	64.9	1,474	60.0	1,536	60.7	1,669	60.1	1,512	64.3	1,714	68.0	1,716	70.3	1,719	69.3
Canada	2,877	60.1	431	62.2	427	62.3	398	57.8	369	54.5	474	59.1	404	62.6	374	62.0
Brazil	1,910	68.9	178	61.2	253	63.6	318	60.7	273	72.2	282	73.4	298	72.8	308	75.3
Mexico	1,522	72.0	185	71.4	187	64.2	236	64.0	218	71.6	226	76.1	235	79.1	235	76.2
Colombia	1,465	64.6	205	52.7	202	58.9	191	60.2	191	66.5	224	66.5	227	72.7	225	72.4
Chile	688	50.4	91	39.6	100	35.0	106	43.4	85	54.1	92	64.1	111	58.6	103	58.3
Peru	403	71.2	46	50.0	51	76.5	55	72.7	48	72.9	63	76.2	66	72.7	74	73.0
Argentina	397	65.0	60	66.7	52	61.5	64	68.8	46	63.0	42	71.4	68	64.7	65	60.0
Ecuador	356	61.2	44	38.6	50	42.0	49	63.3	54	59.3	44	77.3	55	72.7	60	71.7
Jamaica	225	68.9	44	54.5	32	68.8	30	80.0	30	60.0	28	67.9	26	80.8	35	77.1
Venezuela	224	D	26	76.9	28	82.1	32	D	30	D	43	D	31	D	34	85.3
Costa Rica	223	54.7	28	50.0	26	38.5	31	41.9	35	51.4	41	63.4	34	64.7	28	67.9
Trinidad and Tobago	125	D	21	D	15	66.7	26	57.7	16	68.8	12	58.3	16	62.5	19	57.9
Uruguay	114	D	15	D	18	55.6	15	46.7	16	50.0	18	50.0	11	54.5	21	47.6
Honduras	110	D	14	D	13	D	10	D	12	D	19	D	24	D	18	D
Guatemala	93	D	12	D	11	D	17	70.6	13	46.2	14	D	13	D	13	D
Dominican Republic	87	D	10	50.0	6	D	18	33.3	8	D	18	D	14	64.3	13	D
El Salvador	59	D	12	D	6	D	9	D	9	D	7	D	9	D	7	D
Bolivia	54	D	5	D	8	D	8	D	11	D	5	D	9	D	8	D
Other	408	D	47	66.0	51	66.7	56	D	48	62.5	62	64.5	65	69.2	79	60.8
Asia	85,290	78.2	11,323	77.5	11,622	77.2	11,813	79.0	11,638	75.0	12,852	78.3	13,005	79.9	13,037	80.0

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	Number	% staying	Number	% staying	Number	% staying	Number	% staying	Number	% staying	Number	% staying	Number	% staying	Number	% staying
China ^a	45,103	78.0	6,188	79.4	6,316	79.2	6,335	80.1	6,198	73.8	6,659	76.7	6,651	77.6	6,756	79.3
India	16,738	87.6	2,045	87.1	2,056	85.9	2,250	88.0	2,300	85.8	2,674	88.2	2,764	89.0	2,649	88.4
South Korea	7,543	66.5	1,039	63.6	1,168	65.3	1,055	66.9	1,036	63.8	1,075	65.1	1,109	71.1	1,061	69.7
Taiwan	3,181	77.1	514	78.0	492	73.4	468	76.9	410	73.9	416	80.5	462	79.9	419	77.1
Bangladesh	3,057	88.6	280	88.2	292	86.0	392	86.0	397	88.4	551	88.7	552	91.5	593	89.2
Nepal	1,889	92.1	225	88.9	241	89.6	226	94.7	252	92.9	313	92.0	326	94.2	306	91.5
Sri Lanka	1,325	85.1	150	85.3	151	83.4	174	85.1	181	76.8	207	81.6	229	92.1	233	88.4
Vietnam	1,186	80.6	122	80.3	168	76.2	166	74.1	152	79.6	207	86.5	188	82.4	183	83.1
Pakistan	1,078	69.0	110	59.1	112	64.3	157	70.7	135	63.7	167	68.9	177	70.1	220	77.7
Thailand	922	D	177	31.1	159	30.2	127	30.7	125	D	112	48.2	114	35.1	108	36.1
Japan	857	51.5	118	50.0	128	51.6	114	50.0	123	49.6	121	52.1	115	50.4	138	55.8
Singapore	590	43.1	81	25.9	100	38.0	107	49.5	72	37.5	77	50.6	69	52.2	84	47.6
Indonesia	563	D	81	34.6	79	43.0	77	44.2	78	47.4	76	38.2	73	D	99	D
Malaysia	446	65.2	83	59.0	71	50.7	59	52.5	61	70.5	70	78.6	61	83.6	41	63.4
Philippines	358	D	57	73.7	38	65.8	45	64.4	58	51.7	55	D	44	75.0	61	73.8
Kazakhstan	140	D	8	D	11	D	17	70.6	18	72.2	16	68.8	32	78.1	38	63.2
Burma	58	D	6	D	9	D	9	D	7	D	6	D	12	D	9	D
Other	256	D	39	69.2	31	71.0	35	60.0	35	68.6	50	80.0	27	D	39	82.1
Australia-Oceania	508	63.0	66	57.6	81	71.6	80	63.8	69	63.8	76	55.3	64	65.6	72	62.5
Australia	325	65.2	37	64.9	53	73.6	51	66.7	39	64.1	50	54.0	47	68.1	48	64.6
New Zealand	173	D	23	56.5	D	D	D	D	30	63.3	D	D	17	58.8	D	D
Other	10	D	6	16.7	D	D	D	D	0	0.0	D	D	0	0.0	D	D
Europe	12,043	65.9	1,807	63.3	1,755	64.4	1,705	67.4	1,668	63.7	1,734	68.9	1,742	67.2	1,632	66.4
Turkey	2,636	66.8	454	59.7	406	64.5	371	70.1	330	63.0	354	69.8	368	72.8	353	69.7
Italy	1,191	63.9	139	72.7	174	63.8	170	64.1	145	57.2	193	70.5	185	60.0	185	59.5
Germany	1,109	60.1	144	54.2	152	57.9	151	54.3	187	58.3	160	65.0	162	63.6	153	67.3
United Kingdom	918	61.7	110	60.0	128	62.5	119	66.4	152	59.2	138	63.8	124	66.1	147	55.1
Spain	852	64.9	104	61.5	128	57.8	116	64.7	115	71.3	134	68.7	138	63.0	117	67.5
France	830	65.7	133	64.7	118	67.8	118	66.9	106	67.0	133	65.4	112	65.2	110	62.7
Russia	827	75.7	154	73.4	111	73.0	120	82.5	112	66.1	105	72.4	112	75.0	113	87.6
Greece	732	76.4	114	78.1	90	73.3	89	77.5	112	75.0	115	75.7	122	78.7	90	75.6
Ukraine	256	D	35	74.3	43	81.4	43	83.7	32	75.0	23	D	38	73.7	42	73.8
Netherlands	253	59.3	30	66.7	38	55.3	39	59.0	40	42.5	32	68.8	35	65.7	39	61.5
Poland	232	65.9	33	60.6	34	70.6	34	61.8	34	73.5	33	75.8	44	56.8	20	65.0
Romania	212	D	47	61.7	48	D	25	D	27	77.8	22	D	23	69.6	20	70.0
Switzerland	165	47.3	42	38.1	21	38.1	22	63.6	28	64.3	21	33.3	14	42.9	17	52.9
Serbia	158	D	16	D	21	71.4	24	D	21	D	22	77.3	28	D	26	D

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Portugal	138	D	25	52.0	24	62.5	20	55.0	17	58.8	24	50.0	20	70.0	8	D
Austria	126	55.6	14	50.0	17	52.9	22	54.5	20	50.0	15	66.7	21	61.9	17	52.9
Ireland	125	D	20	55.0	24	45.8	17	D	7	D	20	75.0	20	55.0	17	47.1
Hungary	119	D	20	40.0	17	D	24	66.7	15	60.0	10	D	19	52.6	14	57.1
Bulgaria	117	D	23	78.3	21	D	15	D	16	D	14	D	13	38.5	15	D
Belgium	104	D	18	55.6	13	53.8	16	50.0	16	D	16	62.5	18	50.0	7	D
Sweden	93	D	14	64.3	12	D	15	46.7	7	D	16	62.5	15	D	14	57.1
Czechia	83	D	13	D	17	64.7	11	D	15	60.0	10	D	8	D	9	D
Cyprus	74	D	11	45.5	9	D	11	D	10	D	9	D	10	50.0	14	50.0
Albania	71	D	9	88.9	14	D	12	D	9	D	7	D	9	D	11	D
Denmark	69	D	7	D	8	D	8	D	14	35.7	15	D	8	D	9	D
Norway	66	D	8	D	12	D	10	D	8	D	10	D	6	D	12	58.3
Other	487	61.6	70	62.9	55	65.5	83	54.2	73	61.6	83	63.9	70	62.9	53	62.3
Middle East	12,375	59.1	1,748	62.3	2,079	56.6	2,102	58.0	1,749	57.9	1,812	62.0	1,517	61.5	1,368	55.3
Iran	5,683	91.7	935	91.4	964	91.5	963	92.2	815	91.2	859	91.7	647	93.2	500	90.8
Saudi Arabia	3,533	13.5	403	14.9	554	12.8	614	14.3	485	10.1	492	11.6	483	16.6	502	14.1
Iraq	846	D	122	27.0	202	19.8	192	35.4	152	44.7	110	60.0	42	71.4	26	D
Jordan	642	63.1	77	57.1	89	56.2	114	51.8	83	57.8	93	72.0	75	76.0	111	72.1
Israel	482	51.9	64	50.0	80	53.8	69	50.7	65	55.4	71	50.7	71	49.3	62	53.2
Lebanon	388	D	51	76.5	53	79.2	39	84.6	42	D	65	83.1	71	90.1	67	88.1
Kuwait	309	D	46	D	68	7.4	45	11.1	46	10.9	45	11.1	31	D	28	D
Oman	70	D	13	D	7	D	8	D	10	D	12	D	12	D	8	D
United Arab Emirates	65	D	9	D	13	D	10	D	5	D	6	D	12	D	10	D
Armenia	D	D	5	D	10	D	10	D	8	D	13	D	10	D	D	87.5
Syria	D	D	7	D	12	D	10	D	6	D	6	D	9	D	D	D
Other	238	72.3	16	81.3	27	77.8	28	78.6	32	68.8	40	85.0	54	68.5	41	56.1
Region and country or economy unknown	3,185	53.1	422	45.5	513	49.7	321	48.9	369	54.7	523	52.6	485	61.0	552	56.9

D = suppressed to avoid disclosure of confidential information.

^a China includes Hong Kong.**Note(s):**

Countries or economies with five or more doctoral recipients in every year on the table are listed separately; countries under each region are ordered based on the total number of doctorate recipients in the years shown. Percentages are based on the number of doctorate recipients on temporary visas and not just those with definite commitments for employment or postdoctoral study.

Source(s):

National Center for Science and Engineering Statistics, Survey of Earned Doctorates.