

TABLE 11. Definite postgraduation commitments of doctorate recipients, by citizenship status, major field, and location: 2009

Citizenship and field	All recipients	Recipients with definite commitments	Location of definite commitments						
			United States				Abroad	Unknown	
			Total	Postdoctoral study	Academic employment	Industry employment <sup>a</sup>			Other <sup>b</sup>
All fields	49,554	31,194	28,142	10,292	8,870	4,400	4,580	3,030	22
Science and engineering	33,466	21,142	18,780	9,321	3,562	3,911	1,986	2,346	16
Science	25,820	16,475	14,645	7,873	3,189	2,010	1,573	1,818	12
Agricultural sciences	1,167	716	608	288	121	89	110	108	0
Biological sciences	8,024	4,887	4,523	3,597	337	294	295	359	5
Computer sciences	1,609	1,062	957	211	209	467	70	105	0
Earth, atmospheric, and ocean sciences	877	618	547	327	73	99	48	71	0
Mathematics	1,553	1,026	882	365	294	143	80	143	1
Physical sciences	4,284	2,783	2,434	1,592	211	473	158	347	2
Chemistry	2,392	1,529	1,404	876	127	311	90	125	0
Physics and astronomy	1,892	1,254	1,030	716	84	162	68	222	2
Psychology	3,472	2,197	2,117	1,066	492	196	363	79	1
Social sciences	4,834	3,186	2,577	427	1,452	249	449	606	3
Engineering	7,646	4,667	4,135	1,448	373	1,901	413	528	4
Aerospace, aeronautical, and astronautical engineering	297	182	164	54	22	56	32	18	0
Chemical engineering	807	553	504	205	15	255	29	49	0
Civil engineering	709	427	375	118	63	139	55	52	0
Electrical, electronics, and communications engineering	1,695	1,028	906	225	71	524	86	120	2
Industrial and manufacturing engineering	252	133	111	25	23	53	10	22	0
Materials science engineering	625	347	302	140	11	120	31	45	0
Mechanical engineering	1,094	684	601	218	58	274	51	82	1
Other engineering	2,167	1,313	1,172	463	110	480	119	140	1
Non-science and engineering	16,088	10,052	9,362	971	5,308	489	2,594	684	6
U.S. citizen or permanent resident	32,319	21,846	20,964	6,813	7,415	2,531	4,205	873	9
Science and engineering	19,715	13,297	12,612	6,028	2,764	2,114	1,706	680	5
Science	16,550	11,202	10,616	5,420	2,532	1,277	1,387	583	3
Agricultural sciences	670	439	420	157	103	62	98	19	0
Biological sciences	5,525	3,478	3,308	2,523	286	230	269	169	1
Computer sciences	734	535	503	105	142	205	51	32	0
Earth, atmospheric, and ocean sciences	559	419	388	219	64	62	43	31	0
Mathematics	772	553	513	197	204	49	63	40	0
Physical sciences	2,355	1,625	1,493	889	166	307	131	132	0
Chemistry	1,391	950	902	501	101	225	75	48	0
Physics and astronomy	964	675	591	388	65	82	56	84	0
Psychology	2,907	2,035	1,999	1,003	451	191	354	35	1
Social sciences	3,028	2,118	1,992	327	1,116	171	378	125	1
Engineering	3,165	2,095	1,996	608	232	837	319	97	2
Aerospace, aeronautical, and astronautical engineering	160	111	D	26	13	41	D	D	0
Chemical engineering	410	294	284	101	D	153	D	10	0

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Civil engineering	262	188	183	40	35	65	43	5	0
Electrical, electronics, and communications engineering	578	383	366	78	44	180	64	17	0
Industrial and manufacturing engineering	70	43	D	8	9	14	D	D	0
Materials science engineering	254	148	D	53	D	50	25	D	0
Mechanical engineering	421	285	273	83	43	110	37	11	1
Other engineering	1,010	643	606	219	70	224	93	36	1
Non-science and engineering	12,604	8,549	8,352	785	4,651	417	2,499	193	4
Temporary visa holder	14,714	9,281	7,119	3,460	1,437	1,858	364	2,152	10
Science and engineering	12,211	7,793	6,123	3,274	788	1,788	273	1,662	8
Science	7,998	5,231	3,993	2,437	650	726	180	1,232	6
Agricultural sciences	436	273	184	130	18	25	11	89	0
Biological sciences	2,188	1,399	1,207	1,067	50	64	26	189	3
Computer sciences	787	524	451	106	66	260	19	73	0
Earth, atmospheric, and ocean sciences	295	199	159	108	9	37	5	40	0
Mathematics	713	470	366	167	89	93	17	103	1
Physical sciences	1,730	1,149	935	698	45	165	27	213	1
Chemistry	888	575	499	373	26	85	15	76	0
Physics and astronomy	842	574	436	325	19	80	12	137	1
Psychology	258	159	115	62	40	5	8	44	0
Social sciences	1,591	1,058	576	99	333	77	67	481	1
Engineering	4,213	2,562	2,130	837	138	1,062	93	430	2
Aerospace, aeronautical, and astronautical engineering	126	70	D	28	9	15	D	D	0
Chemical engineering	383	257	219	103	D	102	D	38	0
Civil engineering	418	237	190	78	26	74	12	47	0
Electrical, electronics, and communications engineering	1,049	643	538	147	27	342	22	103	2
Industrial and manufacturing engineering	174	90	D	17	14	39	D	D	0
Materials science engineering	350	199	D	87	D	70	6	D	0
Mechanical engineering	645	398	327	134	15	164	14	71	0
Other engineering	1,068	668	564	243	39	256	26	104	0
Non-science and engineering	2,503	1,488	996	186	649	70	91	490	2

D = suppressed to avoid disclosure of confidential information.

<sup>a</sup> Includes doctorate recipients who indicated self-employment.

<sup>b</sup> Includes doctorate recipients who indicated government, nonprofit, elementary/secondary school, or other employment, and those with unknown employment.

NOTES: Persons of unknown citizenship are included in total but are not shown separately. Categories are grouped according to National Science Foundation taxonomy, which is different from the classification listed in questionnaire and summary reports. That is, the following categories are included in social sciences and not in humanities: American/U.S. studies; history, science and technology, and society; and archaeology. In addition, public administration is included in social sciences and not in professional fields, agricultural economics is included in social sciences and not in biological sciences, and agricultural business and management is included in business management/administration and not in agricultural sciences.

SOURCE: National Science Foundation/National Center for Science and Engineering Statistics, Survey of Earned Doctorates, 2009.