

## **DATA TABLES**

### **SURVEY OF EARNED DOCTORATES 1996-1997**



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Table 1 Doctorates Awarded by U.S. Colleges and Universities, 1956-1997

Year	Number	Year	Number	Year	Number
1956	8,517	1971	31,867	1986	31,902
1957	8,611	1972	33,041	1987	32,370
1958	8,773	1973	33,755	1988	33,500
1959	9,213	1974	33,047	1989	34,327
1960	9,733	1975	32,952	1990	36,067
1961	10,413	1976	32,946	1991	37,534
1962	11,500	1977	31,716	1992	38,890
1963	12,728	1978	30,875	1993	39,801
1964	14,325	1979	31,239	1994	41,034
1965	16,340	1980	31,020	1995	41,743
1966	17,949	1981	31,356	1996	42,415
1967	20,403	1982	31,111	1997	42,705
1968	22,937	1983	31,281		
1969	25,743	1984	31,337		
1970	29,498	1985	31,297		

SOURCE: NSF/NIH/NEH/USED/USDA, Survey of Earned Doctorates.

Table 2 Annual Percentage Change in Doctorates Awarded by U.S. Colleges and Universities, 1956-1997

Year	Annual Change	Year	Annual Change	Year	Annual Change
1956	-4.4	1971	8.0	1986	1.9
1957	1.1	1972	3.7	1987	1.5
1958	1.9	1973	2.2	1988	3.5
1959	5.0	1974	-2.1	1989	2.5
1960	5.6	1975	-0.3	1990	5.1
1961	7.0	1976	0.0	1991	4.1
1962	10.4	1977	-3.7	1992	3.6
1963	10.7	1978	-2.7	1993	2.3
1964	12.5	1979	1.2	1994	3.1
1965	14.1	1980	-0.7	1995	1.7
1966	9.8	1981	1.1	1996	1.6
1967	13.7	1982	-0.8	1997	0.7
1968	12.4	1983	0.5		
1969	12.2	1984	0.2		
1970	14.6	1985	-0.1		

SOURCE: NSF/NIH/NEH/USED/USDA, Survey of Earned Doctorates.

Table 3 Doctorates Awarded by U.S. Colleges and Universities per Institution, 1961-1997

Year	Number of Ph.D.s	Number of Institutions	Ph.D.s per Institution	Year	Number of Ph.D.s	Number of Institutions	Ph.D.s per Institution
1961	10,413	174	60	1980	31,020	325	95
1962	11,500	175	66	1981	31,356	328	96
1963	12,728	186	68	1982	31,111	333	93
1964	14,325	196	73	1983	31,281	337	93
1965	16,340	206	79	1984	31,337	336	93
1966	17,949	216	83	1985	31,297	342	92
1967	20,403	220	93	1986	31,902	345	92
1968	22,937	230	100	1987	32,370	353	92
1969	25,743	232	111	1988	33,500	355	94
1970	29,498	242	122	1989	34,327	360	95
1971	31,867	264	121	1990	36,067	358	101
1972	33,041	271	122	1991	37,534	367	102
1973	33,755	290	116	1992	38,890	370	105
1974	33,047	297	111	1993	39,801	375	106
1975	32,952	297	111	1994	41,034	377	109
1976	32,946	299	110	1995	41,743	384	109
1977	31,716	309	103	1996	42,415	392	108
1978	30,875	316	98	1997	42,705	382	112
1979	31,239	316	99				

SOURCE: NSF/NIH/NEH/USED/USDA, Survey of Earned Doctorates.

Table 4 Distribution of Graduate Institutions and Doctoral Degrees by Carnegie Foundation Classification

Carnegie Category	Number of Institutions	Number of Ph.D.s Awarded	Percent of all Ph.D.s Awarded	Average Number Ph.D.s/Institution
Research II	88	28,778	67.4	327
Research II	37	4,794	11.2	130
Doctoral I	51	4,475	10.5	88
Doctoral II	60	2,044	4.8	34
Other	146	2,614	6.1	18

SOURCE: NSF/NIH/NEH/USED/USDA, Survey of Earned Doctorates and a Classification of Institutions of Higher Education, 1994 Edition, The Carnegie Foundation for Advancement of Teaching.

Table 5 Major Field of Doctorate Recipients for Selected Years, 1967-1997

Field	1967	1972	1977	1982	1987	1992	1997
All Fields	20,403	33,041	31,716	31,111	32,370	38,890	42,705
Physical Sci/Math	4,333	5,538	4,379	4,291	5,030	6,502	6,574
Physics/Astronomy	1,312	1,634	1,150	1,014	1,237	1,537	1,576
Chemistry	1,773	2,019	1,571	1,680	1,975	2,214	2,115
Earth, Atmos., & Marine Sci.	418	604	694	657	628	824	882
Mathematics	830	1281	933	720	740	1,058	1,112
Computer Sciences*	0	0	31	220	450	869	889
Engineering	2,604	3,503	2,643	2,646	3,712	5,438	6,052
Life Sciences	3,143	5,084	4,923	5,709	5,754	7,115	8,213
Biological Sciences	2,360	3,600	3,484	3,893	3,839	4,799	5,717
Health Sciences	177	467	511	686	800	1,112	1,394
Agricultural Sciences	606	1017	928	1,130	1,115	1,204	1,102
Social Sciences	3,102	5,467	6,070	5,837	5,790	6,216	6,917
Psychology	1,295	2,279	2,990	3,159	3,173	3,263	3,487
Anthropology	147	260	385	333	352	320	430
Economics	691	893	837	761	821	910	1,011
Poli. Sci./Int'l. Relations	501	911	710	536	486	589	738
Sociology	331	639	725	568	423	495	571
Other Social Sciences	137	485	423	480	535	639	680
Humanities	3,087	5,055	4,562	3,561	3,500	4,444	5,387
History	733	1,186	961	692	586	724	954
Amer. & Eng. Lang. & Lit	797	1,370	1,076	770	668	903	1080
Foreign Lang. & Lit	470	812	728	490	444	562	653
Other Humanities	1,087	1,687	1,797	1,609	1,802	2,255	2,700
Education	3,481	7,085	7,455	7,251	6,454	6,677	6,497
Teacher Education	418	663	502	588	447	407	282
Teaching Fields	817	1705	1439	1333	1065	1008	894
Other Education	2,246	4,717	5,514	5,330	4,942	5,262	5,321
Professional/Other	653	1,309	1,684	1,816	2,130	2,498	3,065
Business & Management	425	765	671	685	981	1,248	1,221
Communications	34	166	302	266	309	330	325
Other Professional Fields	169	270	687	841	778	880	756
Other / Unknown Fields	25	108	24	24	62	40	763

\*Computer Sciences first appeared on the survey form in 1978.

SOURCE: NSF/NIH/NEH/USED/USDA, Survey of Earned Doctorates.

Table 6 Sex of Doctorate Recipients, by Broad Field for Selected Years, 1967-1997

Field		1967	1972	1977	1982	1987	1992	1997
All Fields	Group Total	20,403	33,041	31,716	31,111	32,370	38,890	42,705
	Male	17,961	27,754	23,858	21,018	20,938	24,235	24,999
	Female	2,442	5,287	7,858	10,093	11,432	14,436	17,322
Physical Sciences*	Group Total	4,333	5,538	4,379	4,291	5,030	6,502	6,574
	Male	4,124	5,171	3,949	3,715	4,200	5,174	5,088
	Female	209	367	430	576	830	1,283	1,441
Engineering	Group Total	2,604	3,503	2,643	2,646	3,712	5,438	6,052
	Male	2,595	3,481	2,569	2,522	3,470	4,860	5,264
	Female	9	22	74	124	242	506	747
Life Sciences	Group Total	3,143	5,084	4,923	5,709	5,754	7,115	8,213
	Male	2,725	4,311	3,894	4,073	3,724	4,282	4,487
	Female	418	773	1,029	1,636	2,030	2,802	3,669
Social Sciences	Group Total	3,102	5,467	6,070	5,837	5,790	6,216	6,917
	Male	2,654	4,441	4,346	3,679	3,296	3,226	3,241
	Female	448	1,026	1,724	2,158	2,494	2,964	3,613
Humanities	Group Total	3,087	5,055	4,562	3,561	3,500	4,444	5,387
	Male	2,509	3,755	2,903	2,051	1,929	2,364	2,774
	Female	578	1,300	1,659	1,510	1,571	2,063	2,572
Education	Group Total	3,481	7,085	7,455	7,251	6,454	6,677	6,497
	Male	2,791	5,439	4,870	3,712	2,897	2,688	2,367
	Female	690	1,646	2,585	3,539	3,557	3,976	4,079
Professional/Other	Group Total	653	1,309	1,684	1,816	2,130	2,498	3,065
	Male	563	1,156	1,327	1,266	1,422	1,641	1,778
	Female	90	153	357	550	708	842	1,201

\*Includes mathematics and computer sciences

SOURCE: NSF/NIH/NEH/USED/USDA, Survey of Earned Doctorates.

Table 7 Women as a Percentage of all Doctorate Recipients from U.S. Colleges and Universities, 1921-1997

Year	Percent	Year	Percent
1921	16.2	1960	10.7
1922	14.4	1961	10.8
1923	14.8	1962	10.7
1924	15.0	1963	10.9
1925	16.7	1964	10.9
1926	13.9	1965	10.8
1927	15.1	1966	11.6
1928	14.5	1967	12.0
1929	16.7	1968	12.8
1930	15.1	1969	13.2
1931	15.4	1970	13.5
1932	16.0	1971	14.4
1933	14.1	1972	16.0
1934	13.0	1973	18.0
1935	14.6	1974	19.5
1936	15.2	1975	21.9
1937	14.6	1976	23.3
1938	15.2	1977	24.8
1939	14.4	1978	27.0
1940	13.1	1979	28.6
1941	11.6	1980	30.3
1942	12.4	1981	31.5
1943	15.2	1982	32.4
1944	17.1	1983	33.7
1945	20.3	1984	34.1
1946	19.2	1985	34.3
1947	14.0	1986	35.4
1948	12.1	1987	35.3
1949	10.0	1988	35.3
1950	9.5	1989	36.5
1951	9.3	1990	36.3
1952	9.5	1991	37.0
1953	9.4	1992	37.1
1954	9.1	1993	38.0
1955	9.9	1994	38.6
1956	9.5	1995	39.3
1957	11.6	1996	40.0
1958	11.3	1997	40.6
1959	10.6		

SOURCE: NSF/NIH/NEH/USED/USDA, Survey of Earned Doctorates.

Table 8 Race/Ethnicity of U.S. Citizen Doctorate Recipients, by Broad Field for Selected Years, 1977-1997

Field	Race/Ethnicity	1977	1982	1987	1992	1997
All Fields	Group Total	26,119	24,394	22,984	26,010	27,668
	Known Race/Ethnicity	25,019	23,795	22,514	25,657	26,861
	Asian	339	452	543	848	1,328
	Black	1,113	1,048	771	971	1,335
	Hispanic	437	538	617	778	1,028
	American Indian	65	77	115	149	149
	White	23,065	21,680	20,468	22,911	23,021
Physical Sciences*	Group Total	3,344	3,120	3,093	3,539	3,559
	Known Race/Ethnicity	3,151	3,028	3,000	3,475	3,430
	Asian	61	81	104	180	249
	Black	41	30	29	34	59
	Hispanic	49	34	64	88	95
	American Indian	7	5	10	17	13
	White	2,993	2,878	2,793	3,156	3,014
Engineering	Group Total	1,472	1,169	1,558	2,109	2,682
	Known Race/Ethnicity	1,403	1,122	1,509	2,064	2,580
	Asian	67	72	135	214	285
	Black	11	9	12	32	82
	Hispanic	20	23	24	57	75
	American Indian	1	3	7	11	12
	White	1,304	1,015	1,331	1,750	2,126
Life Sciences	Group Total	3,892	4,610	4,242	4,708	5,092
	Known Race/Ethnicity	3,744	4,475	4,154	4,643	4,957
	Asian	63	112	145	180	314
	Black	64	69	78	89	164
	Hispanic	32	62	77	114	167
	American Indian	8	12	16	19	17
	White	3,577	4,220	3,838	4,241	4,295
Social Sciences	Group Total	5,181	4,802	4,402	4,672	5,016
	Known Race/Ethnicity	4,961	4,690	4,322	4,609	4,888
	Asian	55	67	76	101	182
	Black	187	194	136	185	252
	Hispanic	70	115	146	175	229
	American Indian	13	20	22	26	28
	White	4,636	4,294	3,942	4,122	4,197
Humanities	Group Total	4,053	3,023	2,733	3,468	4,120
	Known Race/Ethnicity	3,848	2,941	2,676	3,424	3,985
	Asian	38	28	26	52	110
	Black	95	96	73	96	135
	Hispanic	106	108	96	107	169
	American Indian	5	6	11	19	20
	White	3,604	2,703	2,470	3,150	3,551
Education	Group Total	6,795	6,280	5,493	5,852	5,365
	Known Race/Ethnicity	6,599	6,171	5,408	5,804	5,285
	Asian	41	69	41	80	97
	Black	666	577	383	467	525
	Hispanic	136	177	185	200	242
	American Indian	29	29	41	50	48
	White	5,727	5,319	4,758	5,007	4,373
Professional/Other	Group Total	1,382	1,390	1,463	1,662	1,834
	Known Race/Ethnicity	1,313	1,368	1,445	1,638	1,736
	Asian	14	23	16	41	91
	Black	49	73	60	68	118
	Hispanic	24	19	25	37	51
	American Indian	2	2	8	7	11
	White	1,224	1,251	1,336	1,485	1,465

\*Includes mathematics and computer sciences.

SOURCE: NSF/NIH/NEH/USED/USDA, Survey of Earned Doctorates.

Table 9 Major Field of U.S. Citizen Ph.D.s, by Race/Ethnicity, 1997

	Total U.S. Citizen Ph.D.s	Known Race/ Ethnicity	U.S. Citizens				
			Asians *	Blacks	Hispanics	American Indians†	Whites
TOTAL	27,668	26,861	1,328	1,335	1,028	149	23,021
PHYSICAL SCIENCES	3,559	3,430	249	59	95	13	3,014
Physics & Astronomy	875	843	72	15	22	3	731
Chemistry	1,222	1,182	83	29	30	6	1,034
Earth, Atmos., & Marine Sci.	531	512	18	5	15	2	472
Mathematics	514	494	34	6	13	1	440
Computer Science	417	399	42	4	15	1	337
ENGINEERING	2,682	2,580	285	82	75	12	2,126
LIFE SCIENCES	5,092	4,957	314	164	167	17	4,295
Biological Sciences	3,624	3,525	256	97	127	9	3,036
Health Sciences	939	924	41	51	25	5	802
Agricultural Sciences	529	508	17	16	15	3	457
SOCIAL SCIENCES	5,016	4,888	182	252	229	28	4,197
Psychology	2,884	2,840	99	142	160	17	2,422
Anthropology	331	304	7	10	16	3	268
Economics	409	397	35	12	15	1	334
Poli. Sci./Int'l. Relations	559	540	16	23	11		490
Sociology	397	382	9	37	15	4	317
Other Social Sciences	436	425	16	28	12	3	366
HUMANITIES	4,120	3,985	110	135	169	20	3,551
History	807	771	15	27	23	4	702
Amer. & Eng. Lang. & Lit	937	914	23	28	23	3	837
Foreign Lang. & Lit	403	388	12	7	59	1	309
Other Humanities	1,973	1,912	60	73	64	12	1,703
EDUCATION	5,365	5,285	97	525	242	48	4,373
Teacher Education	243	240	1	15	8	4	212
Teaching Fields	716	710	15	44	24	6	621
Other Education	4,406	4,335	81	466	210	38	3,540
PROFESSIONAL/OTHER	1,834	1,736	91	118	51	11	1,465
Business & Management	775	759	27	51	17	5	659
Communications	238	232	5	13	7		207
Other Professional Fields	545	533	17	41	16	4	455
Other Fields	276	212	42	13	11	2	144

NOTE: See technical notes in Appendix C for the rate of nonresponse to the survey question on race/ethnicity.

\*Asians includes Pacific Islanders.

†American Indians includes Alaskan Natives.

SOURCE: NSF/NIH/NEH/USED/USDA, Survey of Earned Doctorates.

Table 10 Leading U.S. Baccalaureate Institutions of U.S. Minority Ph.D.s, 1993-1997 (ranked by number of Ph.D.s)

Institution	Number	Institution	Number
<u>Asians</u>		<u>Hispanics</u>	
University of California-Berkeley	374	University of Puerto Rico-Rio Piedras Campus	455
University of California-Los Angeles	152	University of Puerto Rico-Mayaguez	166
Massachusetts Institute of Technology	136	University of California-Berkeley	91
University of Hawaii at Manoa	112	University of California-Los Angeles	91
Harvard University	103	The University of Texas at Austin	85
Stanford University	83	University of Miami, FL	71
University of California-Davis	79	The University of Texas at El Paso	58
California Institute of Technology	74	University of New Mexico	48
Cornell University-Endowed Colleges	70	University of Florida	46
University of Michigan	67	Florida International University	45
University of Illinois at Urbana	63	University of Arizona	43
Princeton University	63	Stanford University	41
University of California-Irvine	57	University of California-Santa Barbara	39
Yale University	52	Pontifical Catholic Univ. of Puerto Rico-Ponce	37
University of Washington	49	Massachusetts Institute of Technology	36
University of California-San Diego	47	California State University Los Angeles	35
University of Chicago	44	University of California-Irvine	34
Johns Hopkins University	44	San Diego State University	33
University of Maryland-College Park Campus	44	Cornell University -Endowed Colleges, NY	33
University of Southern California	43	Texas A&M University -College Station	33
<i>Top 20 U.S. Institutions</i>	<i>1,756</i>	<i>Top 20 U.S. Institutions</i>	<i>1,520</i>
<i>Total U.S. Institutions Reported (537)</i>	<i>3,959</i>	<i>Total U.S. Institutions Reported (669)</i>	<i>4,219</i>
<u>Blacks</u>		<u>American Indians</u>	
Howard University *	156	University of Oklahoma Norman Campus	21
Wayne State University	79	Oklahoma State University-Main Campus	14
Florida A & M University*	73	Michigan State University	12
Spelman College*	72	Auburn University Main Campus, AL	10
Hampton University*	69	University of California-Berkeley	10
Tuskegee University*	68	Northeastern State University	10
Jackson State University*	61	University of Central Oklahoma	9
North Carolina A & T St. University*	61	University of Arizona	7
Southern Univ. and A&M College-Baton Rouge*	58	The University of Texas at Austin	7
Chicago State University	53	University of Wisconsin-Madison	7
North Carolina Central University*	50	University of Arkansas at Fayetteville	6
University of Maryland-College Park Campus	46	University of California-Santa Barbara	6
Morgan State University*	46	University of North Carolina at Chapel Hill	6
Tennessee State University*	42	University of North Carolina-Pembroke	6
Grambling State University*	41	University of Virginia-Main Campus	6
University of Michigan	41	Northern Arizona University	5
Michigan State University	40	San Jose State University	5
Fisk University *	40	The University of Montana-Missoula	5
University of California-Berkeley	37	Oklahoma Baptist University	5
CUNY City College	37	Texas Tech University	5
Temple University	37	University of Washington	5
South Carolina State University*	37		
<i>Top 22 U.S. Institutions</i>	<i>1,244</i>	<i>Top 21 U.S. Institutions</i>	<i>167</i>
<i>Total U.S. Institutions Reported (887)</i>	<i>5,799</i>	<i>Total U.S. Institutions Reported (379)</i>	<i>723</i>

NOTE: See technical notes in Appendix C for total numbers of U.S. minority Ph.D.s in the period; the percentage reporting foreign institutions; and rates of non response to the survey questions on baccalaureate institution, citizenship and race/ethnicity.

\*This institution is one of the "Historically Black Colleges and Universities" (HBCUs) founded during legal segregation in the late 1800s and early 1900s for the specific purpose of educating blacks. There are currently 102 HBCUs, 89 of which award baccalaureates.

SOURCE: NSF/NIH/NEH/USED/USDA, Survey of Earned Doctorates.

Table 11 Leading Ph.D. Institutions of U.S. Minority Ph.D.s, 1993-1997 (ranked by number of Ph.D.s)

Institution	Number	Institution	Number
<u>Asians</u>		<u>Hispanics</u>	
University of California-Berkeley	204	The University of Texas at Austin	105
University of California-Los Angeles	193	University of Puerto Rico-Rio Piedras Campus	101
Stanford University	166	University of California-Berkeley	93
University of Southern California	106	University of California-Los Angeles	92
Massachusetts Institute of Technology	103	Texas A&M University-College Station	89
University of Michigan	96	Harvard University, MA	67
Harvard University	93	Stanford University, CA	66
University of Illinois at Urbana	89	University of Southern California	63
University of California-Davis	77	University of Michigan	58
Columbia Univ in the City of New York	70	Arizona State University-Main Campus	54
University of Hawaii at Manoa	65	University of New Mexico	54
University of Wisconsin-Madison	63	New York University	54
Yale University	59	University of Miami, FL	53
Cornell University-Endowed Colleges	58	Nova Southeastern University, FL	52
University of Washington	58	The Pennsylvania State University	52
University of California-San Diego	56	University of Arizona	51
Northwestern University	54	University of Wisconsin-Madison	47
University of California-Irvine	53	University of Colorado at Boulder	46
Princeton University	52	University of Massachusetts-Amherst	46
The University of Texas at Austin	51	Caribbean Center for Advanced Studies, PR	43
<i>Top 20 Institutions</i>	<i>1,766</i>	<i>Top 20 Institutions</i>	<i>1,286</i>
<i>Total Institutions Reported (294)</i>	<i>5,400</i>	<i>Total Institutions Reported (287)</i>	<i>4,615</i>
<u>Blacks</u>		<u>American Indians</u>	
Nova Southeastern University	217	University of Oklahoma Norman Campus	27
Howard University*	176	Oklahoma State University-Main Campus	16
Ohio State University-Main Campus	114	University of California-Berkeley	11
University of Michigan	109	University of Wisconsin-Madison	11
Wayne State University	104	University of Arizona	10
Teachers College at Columbia Univ	93	University of Arkansas at Fayetteville	10
Univ of Maryland-College Park Campus	92	Stanford University	10
Temple University	85	Harvard University	9
Clark Atlanta University*	83	University of Michigan	9
Virginia Polytech Inst and State University	72	The Univ of Texas at Austin	9
Walden University	67	University of Washington	9
Florida State University	63	Michigan State University	8
Michigan State University	60	North Carolina State University at Raleigh	8
Texas Southern University*	60	The Pennsylvania State University	8
University of Massachusetts-Amherst	58	Texas A&M University-College Station	8
North Carolina State University at Raleigh	57	University of California-Los Angeles	7
The University of Texas at Austin	57	University of Missouri-Columbia	7
University of North Carolina at Chapel Hill	56	University of North Carolina at Chapel Hill	7
University of California-Berkeley	55	University of North Dakota-Main Campus	7
University of Florida	55	Purdue University-Main Campus	7
<i>Top 20 Institutions</i>	<i>1,733</i>	<i>Top 20 Institutions</i>	<i>198</i>
<i>Total Institutions Reported (297)</i>	<i>6,171</i>	<i>Total Institutions Reported (182)</i>	<i>747</i>

\*Historically Black College and University.

Note: 396 institutions awarded doctorates between 1993 and 1997

SOURCE: NSF/NIH/NEH/USED/USDA, Survey of Earned Doctorates.

Table 12 Citizenship Status of Doctorate Recipients, by Broad Field for Selected Years, 1967-1997

Field/Citizenship	1967	1972	1977	1982	1987	1992	1997
All Fields	20,403	33,041	31,716	31,111	32,370	38,890	42,705
U.S. Citizenship	17,029	27,479	26,119	24,394	22,984	26,010	27,668
Non-U.S., Permanent Visa	876	2,093	1,368	1,228	1,578	1,980	2,915
Non-U.S., Temporary Visa	2,048	2,831	3,448	4,204	5,612	9,953	8,475
Unknown Citizenship	450	638	781	1,285	2,196	947	3,647
Physical Sciences*	4,333	5,538	4,379	4,291	5,030	6,502	6,574
U.S. Citizenship	3,539	4,392	3,344	3,120	3,093	3,539	3,559
Non-U.S., Permanent Visa	194	445	268	201	255	355	619
Non-U.S., Temporary Visa	508	620	676	838	1,368	2,458	1,960
Unknown Citizenship	92	81	91	132	314	150	436
Engineering	2,604	3,503	2,643	2,646	3,712	5,438	6,052
U.S. Citizenship	1,926	2,330	1,472	1,169	1,558	2,109	2,682
Non-U.S., Permanent Visa	229	622	326	296	355	411	593
Non-U.S., Temporary Visa	409	519	773	1,030	1,532	2,743	2,401
Unknown Citizenship	40	32	72	151	267	175	376
Life Sciences	3,143	5,084	4,923	5,709	5,754	7,115	8,213
U.S. Citizenship	2,454	3,988	3,892	4,610	4,242	4,708	5,092
Non-U.S., Permanent Visa	133	364	242	184	258	352	744
Non-U.S., Temporary Visa	511	629	672	749	923	1,932	1,858
Unknown Citizenship	45	103	117	166	331	123	519
Social Sciences	3,102	5,467	6,070	5,837	5,790	6,216	6,917
U.S. Citizenship	2,605	4,640	5,181	4,802	4,402	4,672	5,016
Non-U.S., Permanent Visa	138	252	189	196	248	289	333
Non-U.S., Temporary Visa	279	459	541	535	654	1,048	897
Unknown Citizenship	80	116	159	304	486	207	671
Humanities	3,087	5,055	4,562	3,561	3,500	4,444	5,387
U.S. Citizenship	2,734	4,527	4,053	3,023	2,733	3,468	4,120
Non-U.S., Permanent Visa	113	215	160	139	176	246	325
Non-U.S., Temporary Visa	142	205	216	226	327	614	544
Unknown Citizenship	98	108	133	173	264	116	398
Education	3,481	7,085	7,455	7,251	6,454	6,677	6,497
U.S. Citizenship	3,266	6,600	6,795	6,280	5,493	5,852	5,365
Non-U.S., Permanent Visa	37	131	108	145	172	165	166
Non-U.S., Temporary Visa	124	284	380	572	421	553	365
Unknown Citizenship	54	70	172	254	368	107	601
Professional/Other	653	1,309	1,684	1,816	2,130	2,498	3,065
U.S. Citizenship	505	1,002	1,382	1,390	1,463	1,662	1,834
Non-U.S., Permanent Visa	32	64	75	67	114	162	135
Non-U.S., Temporary Visa	75	115	190	254	387	605	450
Unknown Citizenship	41	128	37	105	166	69	646

\*Includes mathematics and computer sciences.

SOURCE: NSF/NIH/NEH/USED/USDA, Survey of Earned Doctorates

Table 13 Visa Status of Ph.D.s from China Versus Other Non-U.S. Citizens, 1990-1997

Citizenship		1990	1991	1992	1993	1994	1995	1996	1997
Non-U.S. Citizens, Total	N	9,791	11,168	11,933	12,191	13,153	13,129	13,376	11,391
Permanent Visas	%	17.3	16.6	16.6	18.5	28.5	32.9	28.1	25.6
Temporary Visas	%	82.7	83.4	83.4	81.5	71.5	67.1	71.9	74.4
Citizens of China, Total	N	1,225	1,919	2,238	2,416	2,772	2,979	3,201	2,409
Permanent Visas	%	4.7	5.8	8.6	16.1	64.6	79.4	56	43.7
Temporary Visas	%	95.3	94.2	91.4	83.9	35.4	20.6	44	56.3
Other Non-U.S. Citizens, Total	N	8,566	9,249	9,695	9,775	10,381	10,150	10,175	8,982
Permanent Visas	%	19.1	18.9	18.4	19.1	18.8	19.2	19.4	20.7
Temporary Visas	%	80.9	81.1	81.6	80.9	81.2	80.8	80.6	79.3

SOURCE: NSF/NIH/NEH/USED/USDA, Survey of Earned Doctorates.

Table 14 Top 30 Countries of Origin of Non-U.S. Citizens Earning Ph.D.s at U.S. Colleges and Universities, 1997 (ranked by number of Ph.D.s)

Country	Number	Country	Number
1. China	2408	16. Thailand	107
2. India	1368	17. France	106
3. Taiwan	1209	18. Hong Kong	95
4. Korea	1071	19. Argentina	91
5. Canada	403	20. Spain	86
6. Germany	243	21. Indonesia	79
7. Japan	214	22. Saudi Arabia	79
8. Turkey	159	23. Australia	79
9. Mexico	159	24. Philippines	78
10. Brazil	159	25. Egypt	75
11. Russia	157	26. Israel	72
12. United Kingdom	135	27. Pakistan	71
13. Greece	116	28. Yugoslavia	69
14. Iran	114	29. Malaysia	65
15. Italy	109	30. Jordan	63
Top 30 Countries of Origin		9,239	
<i>Total Countries Reported (154)</i>		11,390	

SOURCE: NSF/NIH/NEH/USED/USDA, Survey of Earned Doctorates.

Table 15a Leading Ph.D. Institutions of Non-U.S. Citizen Ph.D.s, 1997 (ranked by number of Ph.D.s)

Institution	Number	Institution	Number
University of Wisconsin-Madison	254	Purdue University-Main Campus, IN	166
University of Texas at Austin	248	Cornell University-Endowed Colleges, NY	163
University of Illinois at Urbana	226	Univ of Southern California	155
Texas A&M University-College Station	226	Univ of Maryland-College Park Campus	154
University of Minnesota Twin Cities	223	University of Arizona	148
Ohio State University-Main Campus	221	Rutgers University-New Brunswick, NJ	142
Pennsylvania State Univ-Central Office	201	University of Pittsburgh-Main Campus, PA	135
University of Michigan	186	Harvard University, MA	129
Stanford University, CA	179	Michigan State University, MI	125
Columbia Univ in the City of New York, NY	177	University of Pennsylvania	25
University of Florida	171	Massachusetts Institute of Technology	121
University of California-Los Angeles	170	SUNY at Buffalo	118
University of California-Berkeley	168		
		Top 25 Institutions	4,331
		Total Institutions Reported (313)	11,390

Note: Between 1993 and 1997, 403 institutions awarded doctorates.

SOURCE: NSF/NIH/NEH/USED/USDA, Survey of Earned Doctorates.

Table 15b Leading Ph.D. Institutions of Non-U.S. Citizen Ph.D.s, 1997 (ranked by percentage of foreign-born Ph.D.s)

Institution	Percent	Institution	Percent
Tennessee Tech University	81.8%	Wesleyan University, CT	54.5%
New Jersey Institute of Technology	78.5%	SUNY Health Science Center at Syracuse	54.5%
Polytechnic University, NY	72.2%	Michigan Technological University	54.3%
Northeast Louisiana University	69.2%	Illinois Institute of Technology	53.1%
Massachusetts College of Pharmacy	66.6%	University of Missouri - Rolla	51.6%
Cornell Univ Medical College, NY	66.6%	La Sierra University, CA	50.0%
Medical College of Ohio	66.6%	Lutheran School of Theology at Chicago, IL	50.0%
Alfred University, NY	62.5%	New Mexico Institute of Mining and Technology	50.0%
Clarkson University, NY	62.5%	Stephen F. Austin State University, TX	50.0%
New York Medical College	62.5%	Southern Methodist University, TX	48.8%
Univ of Mississippi Medical Center	60.0%	Northeastern University, WA	48.5%
Worcester Polytechnic Institute, MA	58.3%	Albany Medical College, NY	46.6%
Louisiana State Univ - Shreveport	55.5%		

SOURCE: NSF/NIH/NEH/USED/USDA, Survey of Earned Doctorates.

Table 16 Median Years from Baccalaureate to Doctorate Award, by Broad Field

Field	1972	1977	1982	1987	1992	1997
<b>All Fields</b>						
Total	8.2	8.9	9.7	10.5	10.6	10.5
Registered	5.9	6.1	6.6	7.0	7.2	7.3
<b>Physical Sciences*</b>						
Total	6.6	7.0	7.0	7.5	8.1	8.0
Registered	5.7	5.9	6.0	6.1	6.6	6.8
<b>Engineering</b>						
Total	7.6	7.5	8.0	8.2	8.9	8.7
Registered	5.5	5.7	5.9	6.0	6.3	6.5
<b>Life Sciences</b>						
Total	7.0	7.3	7.7	8.9	9.5	9.2
Registered	5.7	5.9	6.0	6.6	6.9	7.0
<b>Social Sciences</b>						
Total	7.5	8.0	9.2	10.5	10.7	10.0
Registered	5.7	6.0	6.8	7.3	7.6	7.5
<b>Humanities</b>						
Total	9.0	9.9	11.3	12.1	12.0	11.7
Registered	6.3	7.2	8.0	8.5	8.4	8.6
<b>Education</b>						
Total	12.7	12.6	13.7	16.2	19.0	20.0
Registered	6.2	6.5	7.2	8.0	8.2	8.4
<b>Professional/Other</b>						
Total	10.0	10.7	11.7	12.7	13.6	13.5
Registered	5.7	6.2	6.9	7.3	7.7	8.0

\* Includes mathematics and computer sciences.

SOURCE: NSF/NIH/NEH/USED/USDA, Survey of Earned Doctorates.

Table 17 Median Years from Baccalaureate to Doctorate Award, by Demographic Group and Broad Field, 1997

	All Fields	Physical Sci./Math	Engineering	Life Sciences	Social Sciences	Humanities	Education	Prof/Other
<b>Total Time from Baccalaureate</b>								
All Ph.D.s	10.5	8.0	8.7	9.2	10.0	11.7	20.0	13.5
Men	10.0	8.1	8.9	9.0	10.0	11.3	19.3	13.1
Women	11.5	7.9	7.8	9.5	10.0	12.0	20.3	14.0
U.S. Citizens	10.7	7.3	8.0	8.7	9.8	11.7	20.8	15.0
Non-U.S., Permanent Visas	11.3	10.7	11.0	10.8	11.8	12.1	14.2	13.1
Non-U.S., Temporary Visas	9.7	8.9	9.0	9.7	10.2	11.1	13.0	11.2
U.S. Citizens								
Asians	8.9	7.8	8.3	8.0	9.0	10.0	15.2	12.3
Blacks	14.1	8.5	9.0	10.0	10.0	12.5	20.8	17.0
Hispanics	11.0	8.0	8.7	8.3	10.3	11.0	19.4	13.4
American Indians	12.8	6.2	8.1	10.1	8.0	14.6	20.8	14.3
Whites	10.7	7.3	7.7	8.8	9.7	11.7	21.0	15.0
<b>Registered Time from Baccalaureate</b>								
All Ph.D.s	7.3	6.8	6.5	7.0	7.5	8.6	8.4	8.0
Men	7.2	6.8	6.6	7.0	7.5	8.5	8.6	8.0
Women	7.6	6.6	6.3	7.0	7.5	8.9	8.3	7.7
U.S. Citizens	7.4	6.5	6.4	7.0	7.4	8.6	8.6	8.0
Non-U.S., Permanent Visas	7.9	7.8	7.2	7.7	8.5	9.0	8.1	8.7
Non-U.S., Temporary Visas	7.0	6.9	6.5	7.0	7.5	8.5	6.9	7.4
U.S. Citizens								
Asians	7.8	7.0	7.0	7.4	7.5	8.6	8.0	8.2
Blacks	7.7	7.0	6.6	6.8	8.0	8.5	8.6	7.8
Hispanics	7.6	6.6	6.5	6.1	7.0	9.9	9.0	7.9
American Indians	7.4	6.5	6.3	7.0	7.3	8.6	8.6	8.0
Whites								

SOURCE: NSF/NIH/NEH/USED/USDA, Survey of Earned Doctorates.

Table 18 Distribution of 1997 Doctorate Recipients by Age at Doctorate

	Age Grouping					
	21-25	26-30	31-35	36-40	41-45	Over 45
<b>Field of Study</b>						
All Fields	334	12,520	11,570	6,108	4,039	4,921
Physical Sciences	134	3,035	1,936	686	258	146
Engineering	95	2,571	1,991	746	231	123
Life Sciences	45	3,029	2,555	1,081	603	467
Social Sciences	34	2,056	1,905	1,054	623	664
Humanities	14	11,057	1,645	1,023	652	643
Education	9	392	812	974	1,318	2,410
Prof/Other	3	380	726	544	354	468
<b>Sex</b>						
Male	238	7,901	7,548	3,780	2,085	1,881
Female	93	4,615	4,011	2,324	1,951	3,039
<b>Citizenship</b>						
U.S. Citizen	8,708	6,623	4,021	3,215	4,518	
Permanent Resident	26	648	1,153	613	272	143
Temporary Visa	106	2,892	3,408	1,281	446	156
<b>Race/Ethnicity</b>						
Asian	102	2,903	3,660	1,425	493	232
Black	8	339	367	341	308	379
Hispanic	12	380	527	401	231	216
American Indian	2	32	40	26	31	31
White	197	8,452	6,596	3,814	2,853	3,940

SOURCE: NSF/NIH/NEH/USED/USDA, Survey of Earned Doctorates.

Table 19 Primary Sources of Financial Support for Doctorate Recipients, by Broad Field and Demographic Group, 1997  
 (includes only Ph.D.s who reported primary source of support)

Primary Source of Support (responses only)	All Ph.D.s	Men	Women	U.S. Citizens.	Perm. Visas	Temp. Visas	U.S. Citizens*					
							Asians	Blacks	Hispanics	Amer. Indians	Amer. Whites	
<b>All Fields</b>	N	42,705	24,999	17,322	27,668	2,915	8,475	1,328	1,335	1,028	149	23,021
Personal	%	34.5	28.6	43.2	42.1	21.9	15.1	25.3	45.4	40.5	48.9	42.8
University	%	53.9	58.6	47.0	46.7	72.2	71.0	61.9	40.1	42.8	31.1	46.5
Federal	%	4.5	4.8	4.2	5.7	1.4	2.0	7.5	6.2	7.7	12.6	5.4
Other	%	7.0	8.0	5.6	5.6	4.5	11.9	5.2	8.3	9.0	7.4	5.3
<b>Physical Sciences†</b>	N	6,574	5,088	1,441	3,559	619	1,960	249	59	95	13	3,014
Personal	%	11.8	11.7	12.1	15.8	9.2	5.7	11.0	13.7	17.6	16.7	16.0
University	%	76.5	76.7	75.7	69.1	87.6	85.9	74.8	62.7	50.6	50.0	69.5
Federal	%	6.4	6.0	7.9	10.3	0.7	1.3	10.0	11.8	14.1	25.0	10.1
Other	%	5.3	5.6	4.2	4.8	2.4	7.0	4.3	11.8	17.6	8.3	4.3
<b>Engineering</b>	N	6,052	5,264	747	2,682	593	2,401	285	82	75	12	2,126
Personal	%	16.4	17.2	11.1	18.4	15.1	14.2	20.9	19.2	12.1	50.0	18.2
University	%	65.6	65.6	65.4	56.1	77.0	73.6	60.6	43.8	39.4	16.7	56.3
Federal	%	7.8	6.5	16.9	15.5	1.8	1.2	11.4	23.3	28.8	25.0	15.4
Other	%	10.2	10.7	6.7	10.0	6.1	10.9	7.1	13.7	19.7	8.3	10.1
<b>Life Sciences</b>	N	8,213	4,487	3,669	5,092	744	1,858	314	164	167	17	4,295
Personal	%	19.3	16.5	22.6	23.5	12.7	9.8	12.0	18.4	12.2	31.3	24.7
University	%	68.5	70.9	65.7	64.8	83.2	74.1	76.7	62.6	70.7	50.0	64.2
Federal	%	5.1	5.0	5.2	6.6	1.6	2.5	5.3	12.2	10.2	12.5	6.3
Other	%	7.1	7.6	6.4	5.0	2.5	13.5	6.0	6.8	6.8	6.3	4.8
<b>Social Sciences</b>	N	6,917	3,241	3,613	5,016	333	897	182	252	229	28	4,197
Personal	%	44.6	40.4	48.4	49.3	35.1	23.6	39.4	39.6	49.5	38.5	50.4
University	%	45.3	47.8	43.1	42.8	56.5	54.6	49.7	44.7	37.7	38.5	42.9
Federal	%	4.1	4.3	3.9	4.1	2.2	4.5	9.7	6.0	6.9	11.5	3.4
Other	%	6.0	7.5	4.6	3.8	6.1	17.3	1.3	9.8	5.9	11.5	3.3
<b>Humanities</b>	N	5,387	2,774	2,572	4,120	325	544	110	135	169	20	3,551
Personal	%	43.0	43.5	42.6	45.5	38.9	27.7	35.4	24.0	37.0	41.2	46.7
University	%	49.0	47.7	50.4	47.2	53.4	60.6	53.1	63.2	51.4	41.2	46.5
Federal	%	2.5	2.7	2.2	2.6	1.3	2.0	3.1	5.6	1.4	5.9	2.5
Other	%	5.5	6.1	4.8	4.8	6.4	9.7	8.3	7.2	10.3	11.8	4.4
<b>Education</b>	N	6,497	2,367	4,079	5,365	166	365	97	525	242	48	4,373
Personal	%	72.4	70.3	73.6	75.2	57.2	40.5	69.3	71.1	70.7	73.8	76.1
University	%	17.9	17.1	18.4	16.2	37.2	32.8	23.9	20.4	19.2	11.9	15.5
Federal	%	1.9	2.6	1.4	1.8	0.0	3.7	2.3	1.7	3.0	9.5	1.6
Other	%	7.8	10.0	6.5	6.8	5.5	23.0	4.5	6.7	7.1	4.8	6.8
<b>Professional/Other</b>	N	2,414	1,459	921	1,581	133	447	49	107	41	9	1,339
Personal	%	50.7	49.2	52.9	57.3	44.2	30.5	46.3	43.0	57.9	55.6	59.2
University	%	39.7	39.8	39.6	35.1	46.5	53.5	51.2	43.0	39.5	44.4	33.6
Federal	%	1.5	1.4	1.8	1.6	0.8	1.2	0.0	4.0	0.0	0.0	1.4
Other	%	8.1	9.6	5.8	5.9	8.5	14.9	2.4	10.0	2.6	0.0	5.8

NOTE: N represents those Ph.D.s with known primary support; percentages are based on these numbers. Because nonresponse to primary source of support is much greater than for other variables and fluctuates from year to year, the reader is advised not to compare percentages in this table with those published in earlier reports. The overall nonresponse rate for primary source of support was 12.8 percent in 1997, compared to 12.1 percent in 1996, 25.2 percent in 1995, 27.6 percent in 1994, 33.8 percent in 1993, and 30.3 percent in 1992. See technical notes in Appendix C for further information

"Personal" includes loans as well as own earnings and contributions from spouse/family. Federally funded research assistantships (RAs) are grouped under "University" because not all recipients of such support are aware of the actual source of funding. For further definition of "Federal" support, see item A11 on the survey questionnaire in Appendix D. "Other" support includes U.S. nationally competitive fellowships, business/employer funds, foreign government and state government sources.

\*Asians includes Pacific Islanders. American Indians includes Alaskan Natives.

†Includes mathematics and computer sciences.

SOURCE: NSF/NIH/NEH/USED/USDA, Survey of Earned Doctorates.

Table 20 Cumulative Debt Related to the Education of the Doctorate Recipients, by Broad Field, 1997

	All Fields	Physical Science	Engineering	Life Science	Social Science	Humanities	Education	Prof/Other
All Ph.D.s	42,705	6,574	6,052	8,213	6,917	5,387	6,497	2,414
Responses	37,829	5,982	5,564	7,522	6,080	4,832	5,749	2,100
No Debt	50.9	58.4	61.9	51.5	36.4	41.4	56.0	48.2
With Debt	49.1	41.6	38.1	48.5	63.6	58.6	44.0	51.8
\$5,000 or less	10.9	11.7	10.8	12.6	9.3	11.3	10.0	9.2
\$5,001-\$10,000	9.0	9.4	7.5	9.9	10.1	10.6	7.0	8.1
\$10,001-\$15,000	6.9	6.7	5.4	7.1	8.3	8.8	5.3	7.2
\$15,001-\$20,000	5.2	4.3	3.6	5.3	6.4	7.1	4.8	5.1
\$20,001-\$25,000	3.9	2.8	2.4	3.7	5.7	4.9	3.9	4.0
\$25,001-\$30,000	3.1	2.0	1.7	2.6	5.2	4.0	3.0	3.9
\$30,000+	10.0	4.7	6.7	7.3	18.6	11.8	9.8	14.3

SOURCE: NSF/NIH/NEH/USED/USDA, Survey of Earned Doctorates.

Table 21 Cumulative Debt Related to the Education of the Doctorate Recipients, by Demographic Group, 1997

	All Ph.D.s	Male	Female	U.S. Citzns.	Perm. Visas	Temp. Visas	Asians	Blacks	Hispanics	Amer. Ind.	Whites
All Fields	42,705	24,999	17,322	27,668	2,915	8,475	1,328	1,335	1,028	149	23,021
All Responses	37,836	22,444	15,373	26,243	2,829	8,169	1,167	1,273	942	143	22,175
No Debt	50.9	51.3	50.4	43.9	67.3	67.0	48.7	31.6	30.0	41.3	44.9
With Debt	49.1	48.7	49.6	56.1	32.7	33.0	51.3	68.4	70.0	58.7	55.1
\$5,000 or less	10.9	11.1	10.7	11.1	8.3	11.4	10.4	12.8	10.8	10.5	11.0
\$5,001-\$10,000	9.0	9.2	8.8	10.3	6.4	6.1	10.9	10.8	13.0	9.8	10.2
\$10,001-\$15,000	6.9	6.9	6.9	8.3	5.0	3.4	7.9	7.6	8.9	7.0	8.3
\$15,001-\$20,000	5.2	5.2	5.3	6.5	3.2	1.9	5.9	6.6	9.4	7.0	6.4
\$20,001-\$25,000	3.9	3.9	3.9	4.8	2.3	1.7	2.9	5.8	6.2	4.9	4.8
\$25,001-\$30,000	3.1	2.9	3.4	3.9	1.7	1.2	3.1	5.7	6.4	4.2	3.7
\$30,000+	10.0	9.6	10.6	11.3	5.7	7.2	10.3	19.2	15.3	15.4	10.6

SOURCE: NSF/NIH/NEH/USED/USDA, Survey of Earned Doctorates.

Table 22 Postgraduation Status of Doctorate Recipients, by Broad Field for Selected Years, 1977-1997

		All Fields	Physical Science*	Engineering	Life Science	Social Science	Humanities	Education	Prof./Other
<b>All Ph.D.s</b>									
1977	N	31,716	4,379	2,643	4,923	6,070	4,562	7,455	1,684
1982	N	31,111	4,291	2,646	5,709	5,837	3,561	7,251	1,816
1987	N	32,370	5,030	3,712	5,754	5,790	3,500	6,454	2,130
1992	N	38,890	6,502	5,438	7,115	6,216	4,444	6,677	2,498
1997	N	42,705	6,574	6,052	8,213	6,917	5,387	6,497	3,065
<b>Total Responses to Postgraduation Status</b>									
1977	N	29,720	4,118	2,474	4,649	5,662	4,212	7,030	1,575
1982	N	28,731	4,000	2,383	5,335	5,335	3,263	6,760	1,655
1987	N	29,285	4,545	3,256	5,310	5,160	3,155	5,958	1,901
1992	N	35,805	5,980	4,920	6,672	5,614	4,157	6,177	2,285
1997	N	37,712	5,984	5,549	7,504	6,058	4,815	5,698	2,104
<b>Definite Commitments for Employment or Study</b>									
1977	%	71.8	72.5	73.9	74.8	71.9	59.6	73.2	84.3
1982	%	74.6	79.3	74.2	76.5	71.6	65.8	75.0	82.8
1987	%	72.9	76.7	68.1	75.8	69.6	66.3	74.2	80.4
1992	%	69.3	68.4	60.0	74.5	68.2	61.5	75.3	76.5
1997	%	67.4	69.6	65.3	71.1	64.6	56.3	72.8	72.8
<b>Seeking Employment or Study</b>									
1977	%	28.2	27.5	26.1	25.2	28.1	40.4	26.8	15.7
1982	%	25.4	20.7	25.8	23.5	28.4	34.2	25.0	17.2
1987	%	27.1	23.3	31.9	24.2	30.4	33.7	25.8	19.6
1992	%	30.7	31.6	40.0	25.5	31.8	38.5	24.7	23.5
1997	%	32.6	30.4	34.7	28.9	35.4	43.7	27.2	27.2

NOTE: Percentages are based on the number of Ph.D.s who reported their postgraduation status (definite or seeking), regardless of plans (employment or study). See technical notes in Appendix C for rates of nonresponse to the application questions and for further explanation of postgraduation plans.

\*Includes mathematics and computer sciences.

SOURCE: NSF/NIH/NEH/USED/USDA, Survey of Earned Doctorates.

Table 23 Postgraduation Status of Doctorate Recipients, by Demographic Group for Selected Years, 1977-1997

							U.S. Citizens & Permanent Residents*				
All			U.S. Citizens	Perm. Visas	Temp. Visas	American					
Ph.D.s	Men	Women				Asians	Blacks	Hispanics	Indians	Whites	
<b>All Ph.D.s</b>											
1977	N	31,716	23,858	7,858	26,119	1,368	3,448	910	1,191	489	66
1982	N	31,111	21,018	10,093	24,392	1,228	4,204	1,004	1,144	615	77
1987	N	32,370	20,938	11,432	22,984	1,578	5,612	1,168	910	708	115
1992	N	38,890	24,235	14,436	25,996	1,980	9,953	1,764	1,116	895	149
1997	N	42,705	24,999	17,322	27,668	2,915	8,475	3,140	1,476	1,163	151
<b>Total Responses to Postgraduation Status</b>											
1977	N	29,720	22,387	7,333	25,127	1,316	3,213	871	1,135	480	63
1982	N	28,731	19,364	9,367	23,594	1,164	3,870	943	1,106	598	74
1987	N	29,285	18,786	10,499	22,523	1,471	5,231	1,099	884	690	112
1992	N	35,805	22,406	13,394	24,878	1,818	9,072	1,629	1,026	843	141
1997	N	37,712	22,378	15,318	26,161	2,804	8,163	2,891	1,394	1,060	144
<b>Definite Commitments for Employment or Study</b>											
1977	%	71.8	73.7	66.1	73	60.3	67.7	61.9	69	71.3	79.4
1982	%	74.6	76.7	70.3	75.6	64.9	70.9	69.1	72.7	71.7	64.9
1987	%	72.9	74.1	70.8	74.7	59.2	69.4	65.5	64.4	69.9	74.1
1992	%	69.2	68.6	70.3	73.4	56.1	60.5	60.6	69.7	68.4	70.2
1997	%	67.4	68.1	66.5	69.8	59.2	63.3	63	66.8	68.2	76.4
<b>Seeking Employment or Study</b>											
1977	%	28.2	26.3	33.9	27	39.7	32.3	38.1	31	28.7	20.6
1982	%	25.4	23.3	29.7	24.4	35.1	29.1	30.9	27.3	28.3	35.1
1987	%	27.1	25.9	29.2	25.3	40.8	30.6	34.5	35.6	30.1	25.9
1992	%	30.8	31.4	29.7	26.6	43.9	39.5	39.4	30.3	31.6	29.8
1997	%	32.6	31.9	33.5	30.2	40.8	36.7	37	33.2	31.8	23.6

NOTE: Percentages are based on the number of Ph.D.s who reported their postgraduation status (definite or seeking), regardless of plans (employment or study). See technical notes in Appendix C for rates of nonresponse to the applicable questions and for further explanation of postgraduation plans.

\*Asians includes Pacific Islanders. American Indians includes Alaskan Natives.

SOURCE: NSF/NIH/NEH/USED/USDA, Survey of Earned Doctorates.

Table 24 Postgraduation Commitments of Doctorate Recipients, by Type of Plans and Broad Field for Selected Years, 1977-1997

		All Fields	Physical Sciences*	Engineering	Life Sciences	Social Sciences	Humanities	Education	Prof/Other
<b>All Definite Commitments</b>									
1977	N	21,345	2,986	1,828	3,476	4,071	2,511	5,146	1,327
1982	N	21,430	3,173	1,768	4,080	3,820	2,146	5,072	1,371
1987	N	21,362	3,488	2,216	4,024	3,593	2,091	4,421	1,529
1992	N	24,796	4,091	2,953	4,971	3,827	2,555	4,652	1,747
1997	N	25,430	4,164	3,626	5,335	3,915	2,710	4,149	1,531
<b>Definite Commitments with Responses to Type of Plans</b>									
1977	N	21,154	2,969	1,815	3,450	4,034	2,476	5,095	1,315
1982	N	21,361	3,166	1,764	4,070	3,812	2,139	5,047	1,363
1987	N	21,198	3,478	2,201	4,010	3,568	2,066	4,355	1,520
1992	N	24,636	4,084	2,944	4,961	3,808	2,532	4,565	1,742
1997	N	24,831	4,111	3,561	5,233	3,829	2,617	3,993	1,487
<b>Employment</b>									
1977	%	81.4	60.9	86.5	47.9	88.9	95.1	97.5	97.8
1982	%	80.2	65.7	88.5	45.0	87.8	95.1	97.5	98.5
1987	%	74.2	51.4	80.2	40.5	83.4	93.2	96.1	96.6
1992	%	72.0	49.0	77.9	37.1	82.2	93.9	96.8	97.0
1997	%	71.6	53.4	79.3	38.7	78.6	93.0	96.3	96.9
<b>Study</b>									
1977	%	18.6	39.1	13.5	52.1	11.1	4.9	2.5	2.2
1982	%	19.8	34.3	11.5	55.0	12.2	4.9	2.5	1.5
1987	%	25.8	48.6	19.8	59.5	16.6	6.8	3.9	3.4
1992	%	28.0	51.0	22.1	62.9	17.8	6.1	3.2	3.0
1997	%	28.4	46.6	20.7	61.3	21.4	7.0	3.7	3.1

NOTE: Only Ph.D.s with definite commitments are included. "All Definite Commitments" includes recipients who reported definite commitments but not type of plans (employment or study). Percentages are based on the number of Ph.D.s who reported a definite commitment and a type of plan. See technical notes in Appendix C for rates of nonresponse to the applicable survey questions and for further explanation of postgraduation plans.

\*Includes mathematics and computer sciences.

SOURCE: NSF/NIH/NEH/USED/USDA, Survey of Earned Doctorates.

Table 25 Postgraduation Commitments of Doctorate Recipients, by Type of Plans and Demographic Group for Selected Years, 1977-1997

	All Ph.D.s	Men	Women	U.S. Citizens	Perm Visas	Temp Visas	U.S. Citizens & Permanent Residents					
							Asians	Blacks	Hispanics	Indians	Whites	
<b>All Definite Commitments</b>												
1977	N	21,345	16,494	4,851	18,331	793	2,174	539	783	342	50	16,873
1982	N	21,430	14,848	6,582	17,843	755	2,745	652	804	429	48	16,385
1987	N	21,362	13,929	7,433	16,818	871	3,633	720	569	482	83	15,513
1992	N	24,791	15,379	9,412	18,257	1,020	5,489	987	715	577	99	16,699
1997	N	25,425	15,231	10,194	18,252	1,659	5,171	1,822	931	723	110	15,940
<b>Definite Commitments with Responses to Type of Plans</b>												
1977	N	21,154	16,346	4,808	18,196	785	2,128	535	770	338	50	16,756
1982	N	21,361	14,800	6,561	17,803	751	2,723	647	799	428	48	16,354
1987	N	21,198	13,836	7,362	16,704	865	3,591	719	558	477	82	15,414
1992	N	24,631	15,307	9,324	18,144	999	5,463	980	695	565	99	16,606
1997	N	24,829	14,900	9,929	17,836	1,617	5,046	1,785	895	702	106	15,589
<b>Employment</b>												
1977	%	81.4	80.7	83.8	82.4	72.7	76.3	68.8	93.1	88.2	82	82
1982	%	80.2	79	82.7	80.4	79.8	78.1	73.4	94.2	86.2	72.9	79.9
1987	%	74.2	71.9	78.7	76.4	70.2	65.2	66.2	86.4	77.6	79.3	76.3
1992	%	72	69.2	76.7	75.7	69.3	60.6	64	83.3	76.6	80.8	75.6
1997	%	7.6	69.7	74.4	75.1	66.2	61	63	81.8	77.8	87.7	75.1
<b>Study</b>												
1977	%	18.6	19.3	16.2	17.6	27.3	23.7	31.2	6.9	11.8	18	18
1982	%	19.8	21	17.3	19.6	20.2	21.9	26.6	5.8	13.8	27.1	20.1
1987	%	25.8	28.1	21.3	23.6	29.8	34.8	33.8	13.6	22.4	20.7	23.7
1992	%	28	30.8	23.3	24.3	30.7	39.4	36	16.7	23.4	19.2	24.4
1997	%	28.4	30.3	25.6	24.9	33.8	39	37	18.2	22.2	12.3	24.9

NOTE: Only Ph.D.s with definite commitments are included. "All Definite Commitments" includes recipients who reported definite commitments but not type of plans (employment or study). Percentages are based on the number of Ph.D.s who reported a definite commitment and a type of plan. See technical notes in Appendix C for rates of nonresponse to the applicable survey questions and for further explanation of postgraduation plans.

\*Asians includes Pacific Islanders. American Indians includes Alaskan Natives.

SOURCE: NSF/NIH/NEH/USED/USDA, Survey of Earned Doctorates.

Table 26 Postdoctoral Location of Non-U.S. Citizen Doctorate Recipients with Postgraduation Commitments, by Major Field and Visa Status, 1997

Field of Doctorate (responses only)	Permanent Visas						Temporary Visas			
	Resp. to Location/ Type of Plans (N)	U.S. Location		Foreign Location		Resp. to Location/ Type of Plans (N)	U.S. Location		Foreign Location	
		Empl. (%)	Study (%)	Empl. (%)	Study (%)		Empl. (%)	Study (%)	Empl. (%)	Study (%)
All Fields	1,589	60.4	32.4	5.8	1.4	4,981	35.1	32.8	25.9	6.1
Physical Sciences	351	61.3	34.8	1.4	2.6	1,219	33.8	44.1	12.5	9.7
Physics & Astronomy	92	53.3	40.2	1.1	5.4	287	25.8	53.7	7.3	13.2
Chemistry	120	50.0	47.5	1.7	0.8	357	20.2	64.1	7.8	7.8
Earth, Atmos., & Marine Sci.	31	64.5	32.3	-	3.2	121	18.2	48.8	24.0	9.1
Mathematics	52	75.0	21.2	1.9	1.9	249	45.4	28.9	12.9	12.9
Computer Science	56	83.9	12.5	1.8	1.8	205	63.9	11.2	20.5	4.4
Engineering	327	79.5	13.5	7.0	-	1,361	53.1	22.0	22.2	2.7
Life Sciences	433	27.5	68.8	2.3	1.4	1,163	13.3	60.4	18.7	7.7
Biological Sciences	356	22.5	75.8	0.6	1.1	811	9.4	72.6	9.9	8.1
Health Sciences	29	75.9	20.7	3.4	-	157	30.6	28.7	36.3	4.5
Agricultural Sciences	48	35.4	45.8	14.6	4.2	195	15.9	34.9	41.0	8.2
Social Sciences*	171	65.5	21.6	11.1	1.8	532	32.5	9.8	51.5	6.2
Psychology	52	53.8	44.2	1.9	-	75	29.3	28.0	33.3	9.3
Economics	50	80.0	6.0	14.0	-	271	34.3	3.7	57.2	4.8
Political Sci./International Rel.	13	38.5	7.7	53.8	-	36	33.3	8.3	55.6	2.8
Sociology	19	57.9	26.3	10.5	5.3	42	33.3	9.5	47.6	9.5
Humanities	162	80.9	6.2	11.7	1.2	277	48	10.1	37.2	4.7
Education	73	86.3	1.4	9.6	2.7	159	19.5	4.4	69.2	6.9
Prof/Other Fields*	72	83.3	4.2	12.5	-	270	45.6	3.0	49.6	1.9
Business & Management	51	84.3	3.9	11.8	-	182	58.2	2.7	38.5	0.5

NOTE: Only non-U.S. citizen Ph.D.s with definite commitments are included. "All Definite Commitments" includes recipients who reported

definite commitments but not location (U.S. or foreign). Percentages are based on the number of Ph.D.s who reported a definite commitment and a location. See technical notes in Appendix C for rates of nonresponse to the applicable survey questions and for further explanation of postgraduation plans.

\*Totals include other fields not shown.

SOURCE: NSF/NIH/NEH/USED/USDA, Survey of Earned Doctorates.

Table 27 Postdoctoral Location of Non-U.S. Citizen Doctorate Recipients with Postgraduation Commitments, by Visa Status for Selected Years, 1977-1997

		All Non-U.S. Citizens	Permanent Visas	Temporary Visas
<b>All Definite Commitments</b>				
1977	N	2,967	793	2,174
1982	N	3,500	755	2,745
1987	N	4,504	871	3,633
1992	N	6,509	1,020	5,489
1997	N	6,830	1,659	5,171
<b>Definite Commitments with Responses to Location</b>				
1977	N	2,844	763	2,081
1982	N	3,251	711	2,540
1987	N	4,054	789	3,265
1992	N	6,410	1,006	5,404
1997	N	6,713	1,622	5,091
<b>U.S. Location</b>				
1977	%	50.4	90.7	35.6
1982	%	51.0	90.4	40.0
1987	%	59.0	84.5	52.8
1992	%	63.3	87.4	58.8
1997	%	73.6	92.7	67.5
<b>Foreign Location</b>				
1977	%	49.6	9.3	64.4
1982	%	49.0	9.6	60.0
1987	%	41.0	15.5	47.2
1992	%	36.7	12.6	41.2
1997	%	26.4	7.3	32.5

NOTE: Only non-U.S. citizen Ph.D.s with definite commitments are included. "All Definite Commitments" includes recipients who reported definite commitments but not location (U.S. or foreign). Percentages are based on the number of Ph.D.s who reported a definite commitment and a location.

SOURCE: NSF/NIH/NEH/USED/USDA, Survey of Earned Doctorates.

Table 2-1 Non-U.S. Citizen Doctorate Recipients Who Began Their Undergraduate Studies in the United States, by Leading Country

Country	Number	Country	Number
India	57	Germany	22
Iran	56	Greece	19
Canada	45	Saudi Arabia	14
Korea	39	France	13
Malaysia	35	Cyprus	12
China	31	Italy	11
Hong Kong	30	Kenya	11
Japan	28	Mexico	11
United Kingdom	25	Thailand	11
Taiwan	24	Lebanon	10

SOURCE: NSF/NIH/NEH/USED/USDA, Survey of Earned Doctorates.

Table 2-2 Doctorate Recipients by Citizenship Status and Sex

Sex	U.S. Citizens	Permanent Residents	Temporary Visa Holders	Total
Male	14,804	1,824	6,455	23,083
Female	<u>12,852</u>	<u>1,090</u>	<u>2011</u>	<u>15,953</u>
Total Known	27,656	2,914	8466	39036

SOURCE: NSF/NIH/NEH/USED/USDA, Survey of Earned Doctorates.

Table 2-3 Doctorate Recipients by Marital Status and Citizenship

Marital Status	U.S. Citizens	Permanent Residents	Temporary Visa Holders	Total
Married	15,317	2,247	5,064	22,628
Not Married	<u>10,710</u>	<u>620</u>	<u>3,309</u>	<u>14,639</u>
Total Known	26,027	2,867	8,373	37,267

SOURCE: NSF/NIH/NEH/USED/USDA, Survey of Earned Doctorates.

Table 2-4 Educational Attainment of Fathers of 1997 Doctorate Recipients, by Citizenship

Country	High School or Less		Some College		Advanced Degree	
	Number	Percent	Number	Percent	Number	Percent
Canada	173	41.7	113	27.2	129	31.1
Mexico	69	42.6	56	34.6	37	22.8
Italy	48	43.2	24	21.6	39	35.1
Greece	49	41.9	48	41.0	20	17.1
France	46	42.2	22	20.2	41	37.6
United Kingdom	65	39.2	45	27.1	56	33.7
Germany	100	40.7	30	12.2	116	47.2
Scandinavia	33	33.0	24	24.0	43	43.0
Western Europe	110	37.8	84	28.9	97	33.3
Eastern Europe	60	11.9	115	22.7	331	65.4
India	166	12.0	551	39.9	665	48.1
Korea	372	34.6	470	43.8	232	21.6
Taiwan	555	45.6	549	45.1	113	9.3
China	855	35.0	1,210	49.6	375	15.4
Hong Kong	71	74.7	20	21.1	4	4.2
Japan	77	36.0	107	50.0	30	14.0
Middle East	229	50.0	117	25.5	112	24.5
Other Asia	289	40.5	244	34.2	181	25.4
Central America	59	52.2	24	21.2	30	26.5
South America	171	36.1	131	27.6	172	36.3
Africa	239	54.2	103	23.4	99	22.4
Australia & Pacific Islands	44	39.3	34	30.4	34	30.4

SOURCE: NSF/NIH/NEH/USED/USDA, Survey of Earned Doctorates.

Table 2-5 Comparison of Fathers' and Mothers' Levels of Educational Attainment for 1997 Doctorate Recipients, by Citizenship

Citizenship	High School Diploma or Less		1-4 Years of College		Advanced Degree	
	Number	Percent	Number	Percent	Number	Percent
U.S. Citizens						
Fathers	7,855	28.4	8,980	32.5	10,833	39.2
Mothers	9,741	35.2	11,008	39.8	6,919	25.0
Permanent Residents						
Fathers	986	33.8	1,105	37.9	824	28.3
Mothers	1,444	49.5	1,023	35.1	448	15.4
Temporary Visa Holders						
Fathers	3,113	36.7	3,150	37.2	2,212	26.1
Mothers	4,847	57.2	2,481	29.3	1,147	13.5

SOURCE: NSF/NIH/NEH/USED/USDA, Survey of Earned Doctorates.

Table 2-6 Educational Attainment of Mothers of 1997 Doctorate Recipients, by Citizenship

Country	High School or Less		Some College		Advanced Degree	
	Number	Percent	Number	Percent	Number	Percent
Canada	195	47.0	160	38.6	60	14.5
Mexico	101	62.3	44	27.2	17	10.5
Italy	65	58.6	26	23.4	20	18.0
Greece	80	68.4	30	25.6	7	6.0
France	58	53.2	24	22.0	27	24.8
United Kingdom	82	49.4	53	31.9	31	18.7
Germany	135	54.9	43	17.5	68	27.6
Scandinavia	46	46.0	35	35.0	19	19.0
Western Europe	154	52.9	84	28.9	53	18.2
Eastern Europe	85	16.8	154	30.4	267	52.8
India	553	40.0	503	36.4	326	23.6
Korea	686	63.9	317	29.5	71	6.6
Taiwan	863	70.9	309	25.4	45	3.7
China	1,174	48.1	1,009	41.4	257	10.5
Hong Kong	76	80.0	16	16.8	3	3.2
Japan	136	63.6	74	34.6	4	1.9
Middle East	329	71.8	89	19.4	40	8.7
Other Asia	446	62.5	178	24.9	90	12.6
Central America	74	65.5	26	23.0	13	11.5
South America	282	59.5	116	24.5	76	16.0
Africa	328	74.4	76	17.2	37	8.4
Australia & Pacific Islands	66	58.9	30	26.8	16	14.3

SOURCE: NSF/NIH/NEH/USED/USDA, Survey of Earned Doctorates.

Table 2-7 Doctorate Recipients by Broad Field and Citizenship

Field	U.S. Citizen	Permanent Resident	Temporary Visa Holder	Total
Physical Sci/Math	3,559	619	1,960	6,138
Engineering	2,682	593	2,401	5,676
Life Sciences	5,092	744	1,858	7,694
Social Sciences	5,016	333	897	6,246
Humanities	4,120	325	544	4,989
Education	5,365	166	365	5,896
Prof/Other Fields	<u>1,834</u>	<u>135</u>	<u>450</u>	<u>2,419</u>
<b>TOTAL</b>	<b>27,668</b>	<b>2,915</b>	<b>8,475</b>	<b>39,058</b>

SOURCE: NSF/NIH/NEH/USED/USDA, Survey of Earned Doctorates.

Table 2-8 1997 International Doctorate Recipients by Broad Field and Country of Origin

Country	Physical Sci/Math	Engineering	Life Sciences	Social Sciences	Humanities	Education	Prof/Other Fields	Total
<u>Leading Countries</u>								
China	719	628	819	116	52	52	54	2,440
India	288	584	252	101	25	18	114	1,382
Taiwan	221	420	296	106	36	83	55	1,217
Korea	190	292	165	163	100	56	108	1,074
Canada	62	45	93	70	87	34	24	415
<u>Other Countries</u>								
Germany	82	27	40	29	56	5	7	246
Japan	28	37	13	58	42	26	10	214
United Kingdom	26	12	35	25	46	11	11	166
Mexico	24	26	50	30	18	11	3	162
Brazil	40	40	44	14	13	5	4	160
Turkey	21	86	13	21	5	2	12	160
Russia	104	21	20	7	3	2	1	158
Greece	36	30	19	16	6	5	5	117
Iran	20	58	23	7	2	1	3	114
Italy	35	11	15	24	22	1	3	111
France	31	12	20	12	30	2	2	109
Thailand	11	35	29	12	3	12	5	107
Hong Kong	38	13	22	12	5	0	5	95
Argentina	22	15	13	16	19	5	1	91
Spain	12	9	18	10	35	1	1	86
Saudi Arabia	10	29	7	13	3	7	12	81
Australia	13	8	18	14	13	10	4	80
Indonesia	6	21	17	17	4	9	6	80
Philippines	23	10	20	11	6	4	4	78
Egypt	13	44	9	4	2	2	1	75

SOURCE: NSF/NIH/NEH/USED/USDA, Survey of Earned Doctorates.

Table 2-9 1997 Doctorate Recipients by Citizenship Status and the Institution's Carnegie Classification

Carnegie Classification	U.S. Citizen	Permanent Resident	Temporary Visa Holder	Total
Research I	18,017	2,041	6,093	26,151
Research II	3,171	303	1,033	4,507
Doctoral I	2,981	238	530	3,749
Doctoral II	1,371	138	350	1,859
Other	1,684	149	286	2,119
<b>TOTAL</b>	<b>27,224</b>	<b>2,869</b>	<b>8,292</b>	<b>38,385</b>

SOURCE: NSF/NIH/NEH/USED/USDA, Survey of Earned Doctorates.

Table 2-10 Ph.D. Recipients Who Report United States as Postdoctoral Location, by Country/Region of Citizenship

Country	Number	Percent
Canada	239	62.7
Mexico	68	46.3
Italy	58	56.9
Greece	73	68.9
France	57	64.0
United Kingdom	125	81.7
Germany	145	65.6
Scandinavia	51	53.1
W. Europe	162	61.1
E. Europe	404	86.9
India	1,131	91.1
Korea	387	39.1
Taiwan	639	57.1
China	1,976	95.0
Hong Kong	68	80.0
Japan	96	48.2
Middle East	202	49.1
Other Asia	326	50.5
Central America	59	58.4
South America	207	48.3
Africa	218	58.6
Australia & Pacific Islands	55	53.4

SOURCE: NSF/NIH/NEH/USED/USDA, Survey of Earned Doctorates.