

Immigrant Scientists, Engineers, and Technicians

1993

Detailed Statistical Tables

Division of Science Resources Studies
Directorate for Social, Behavioral and Economic Sciences

National Science Foundation



NSF 96-322

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Contributors

Data collection, preparation, and tabulations were performed by Mathematica Policy Research, Inc., for the National Science Foundation. The Project Officer for this report was Joanne P. Streeter.

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GENERAL NOTES

The United States is historically an immigrant country, and the flow of immigration to the United States has included significant numbers of scientists and engineers. The first study of immigrant scientific and technical personnel was prepared by the National Science Foundation (NSF) and published in 1958 as *Immigration of Professional Workers to the United States: 1953-56*, Scientific Manpower Bulletin No. 8, NSF 58-4. This document included statistical data from as early as 1949.

The Immigration and Naturalization Service (INS) compiles information on immigrants, i.e., aliens admitted to the United States for legal permanent residence. The INS supplies NSF with data on those immigrants who classified their occupations as scientists, engineers and technicians. Individuals are categorized as scientists, engineers or technicians on the basis of their educational or employment background; however, those who cite their occupation as researcher, manager, teacher, or student are not included in this report. Also excluded are those who did not list an occupation or who were unemployed or not in the labor force at their time of entry into this country. The data in this report update those previously published for fiscal years (FYs) 1967-78, 1982-87, 1988-90, 1991-92; data for 1979-81 are not available.

Since 1966, the Division of Science Resources Studies (SRS) of the National Science Foundation has compiled the INS data on the annual inflows of scientists and engineers from abroad. The objective of this collection effort is to provide policymakers and researchers with the following data:

- (1) Levels and trends in the immigration of scientists and engineers;
- (2) Characteristics of scientists and engineers from abroad; e.g., age, sex, field of specialization, and type of entry;
- (3) Country of birth and last permanent residence of these personnel (many immigrants born in one country reside elsewhere for a year or more before coming to the United States); and

(4) Numbers of scientists and engineers receiving certification from the U.S. Department of Labor and entering the United States to work in shortage occupations.

In the Glossary section of the 1993 INS *Statistical Yearbook*, the term "occupation" is defined as the employment held in the country of last or legal residence or in the United States or the employment for which a labor certification has been issued. The Yearbook states that, "labor certification is awarded by the Secretary of Labor when there are insufficient numbers of U.S. workers available to undertake the employment sought by an applicant and the alien's employment will not have an adverse affect on the wages and working conditions of United States workers similarly employed. Determination of labor availability in the United States is made at the time of a visa application and at the location where the applicant wishes to work."

As used in this report, the term "immigrant" refers to "an alien admitted to the United States as a lawful permanent resident." Immigrants may be issued immigrant visas by the Department of State overseas or adjusted to permanent resident status by the Immigration and Naturalization Service after their arrival in the United States.

The term "adjustment-of-status" refers to a change from a temporary to a permanent visa for those originally admitted with a specific temporary purpose, temporary work, or to attend college. "Certification" or "certified admission" refers to those admitted based on their job skills and certification by the Department of Labor as described above.

Except as noted, the data used in this report come from the FY 1993 Immigrant Public Tape prepared by the Statistics Division of the Office of Strategic Planning at the Immigration and Naturalization Service. For 1993 INS reports 23,534 new permanent visas for immigrants in science and engineering occupations.

INS determines an immigrant's occupation differently for occupation-based and non-occupation-based admissions. For those admitted under an occupational

preference, the occupation recorded is the job the immigrant will be taking in the United States. For all other immigrants, occupation is recorded as the occupation held in the last country of residence.

Users of this document should also note that all data in this report reflect gross rather than net migration of scientists and engineers to the United States, since neither INS nor NSF has information on the number of permanent-resident immigrants who emigrate from the United States. For all immigrants, estimates of emigration of the foreign-born suggest that net migration to the United States is between one-half and two-thirds of

the gross immigration numbers reported in INS data.¹ No information is available on whether immigrant scientists, engineers and technicians are more or less likely than other immigrants to emigrate.

For additional information on this or earlier NSF reports on immigration of scientists, engineers, and technicians, please contact the Science and Engineering Personnel Program, Division of Science Resources Studies, National Science Foundation, 4201 Wilson Boulevard, Suite 965, Arlington, VA 22230, (703) 306-1776.

¹ For examples of emigration estimates, see Robert Warren and Ellen Percy Karaly, *The Elusive Exodus: Emigration From the United States* (Washington, DC: Population Reference Bureau, 1985) and Guillermina Jasso and Mark Rosenzweig, *The New Chosen People: Immigrants in the United States* (New York: Russell Sage Foundation, 1990).

SECTION A. HIGHLIGHTS

SECTION A. HIGHLIGHTS

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INTRODUCTION

The data in this report are derived from the 1988-93 Immigrant Public Use data files of the U.S. Immigration and Naturalization Service (INS). The INS compiles information on aliens admitted to the United States each year for legal permanent residence. These immigrants may either be new arrivals entering the United States with an immigrant visa issued by the U.S. Department of State or temporary U.S. residents who adjusted their status to that of legal permanent residents by petitioning the INS.

In assessing the data presented in this report, note that the definition of “scientist” or “engineer” as used in the INS data does not necessarily correspond with that used by NSF in its surveys of scientists and engineers (S&Es) in the United States. Thus, comparisons between the two populations should be made with caution.

Despite an overall decline in immigration to the United States in 1993, the admission of scientists and engineers (S&Es) continued to rise. According to INS data² 23,534 S&Es were admitted to the United States on permanent visas in 1993, representing a 3.1-percent increase over S&E immigration in 1992. This increase follows the large jump in admissions in 1992 totaling 22,870, 62 percent higher than S&E immigration in 1991 (14,100). The total immigration to the United States in 1993 is estimated at 904,292, thus, S&Es constituted 2.6 percent of the total.

Prior to 1991, most S&E immigrants in a given year were new arrivals; a minority were already in the United States and had their resident status adjusted from temporary to permanent. Data for 1991 show proportions of both new arrivals and adjustment-of-status cases to be roughly equal, whereas in 1992, adjustment-of-status cases increased to 65 percent of S&E immigration. This trend continued in 1993, with 68.5 percent of all S&E immigration resulting from adjustment-of-status cases.

In the wake of the 1989 Tiananmen Square incident, Congress enacted the Chinese Student Protection Act of 1992, permitting Chinese nationals temporarily residing in the United States to adjust to permanent

resident status. Under the provisions of this act, 1,403 S&Es were admitted in 1993. These S&Es are included in the 1993 total S&E immigration of 23,534. According to the INS,³ this provision allowed 26,915 Chinese persons who had been living continuously in the United States since April 1990 to adjust to permanent resident status.

The Chinese nationals that were eligible for adjustment had been allowed to remain in the United States under Executive Order 12711, which provided a temporary safe haven to students and other temporary residents. The State Department issued 41,684 visas under this provision in fiscal year 1993. Of that total only 26,915 adjusted because their applications had not been completed by the end of the year. Also admitted under the act were 654 technologists and technicians. Further adjustment-of-status cases resulting from this act will be reflected in the 1994 data.

S&Es employed in science occupations⁴ represented 38.6 percent of 1993 S&E immigration, with mathematical scientists and computer specialists accounting for nearly half of the scientists admitted. Engineers made up 61.6 percent (14,497) of the total in 1993—a 36 percent increase over the 1992 total (10,492).

Women represented 21.3 percent (5,020) of the S&Es being admitted with permanent resident status. The INS data for 1989 to 1993 show that the number, as well as the proportion, of women immigrating to the United States has been consistently increasing over time. The average age of the S&E women was in the 30 to 44 year range. Their region of birth was most frequently cited as the Far East. Of the women S&Es admitted to the United States on permanent visas by broad occupational groups, there were a total of 3,130 women scientists and 1,890 women engineers. Also 1,327 of these women cited California as their intended State of residence.

² INS 1993 Statistical Yearbook of the Immigration and Naturalization Service and the Immigrant Public Use data files.

³ *Ibid.*, p. 13, “I. Immigrants.”

⁴ “Occupation” as reported in INS data refers to the employment held in the country of last or legal residence or in the United States. For an alien with a labor certification, occupation is the employment for which certification has been issued. Note that these definitions of S&Es do not directly correspond with those used in other NSF surveys of S&Es.

The INS data show that 10,234 technologists and technicians were admitted to the United States as legal permanent residents in 1993, 26.5 percent more than in 1992. This number had been fairly constant at approximately 6,000 from 1988 through 1990. A third of all technologists and technicians admitted to the United States were women. Compared with S&E admissions in 1993, technologists and technicians were more likely to be new arrivals, with 44.2 percent being adjustment-of-status cases and citing their region of birth as Eastern Europe (3,414). The Middle Atlantic region was cited as the intended residence for 3,066 of the technologists and technicians admitted to the United States on permanent visas.

Immigrants from the Far East constitute a large and growing proportion of all S&E immigration. The largest portion of S&Es admitted to the United States as permanent residents identify their country of birth as being in the Far East (13,616). In 1991, 44.7 percent of all S&Es admitted were from the Far East. This percentage rose to 55.3 percent in 1992 and 57.8 percent in 1993. According to the 1993 data, the People's

Republic of China was reported as the country of birth for 20 percent of all S&E immigrants and India was reported by another 17 percent of those admitted.

Immigrants admitted to the United States on permanent visas by region and country of birth and by occupation from the newly independent states of the former Soviet Union increased 41 percent from 826 in 1992 to 1,165 in 1993. The occupations of the S&Es admitted from that region were: 774 engineers; 219 natural scientists; 116 mathematical scientists and computer specialists; and 56 social scientists. Most of the immigrants from the former Soviet Union were not certified. Some 41 percent (426) came from Russia and another 38 percent (394) came from the Ukraine. The technologists and technicians admitted from that region also increased 148 percent in 1993 to 703, up from 475 in 1992. Both the S&Es and the technicians and technologists from the newly independent states of the former Soviet Union most frequently reported their region and intended state of residence as the Middle Atlantic states.

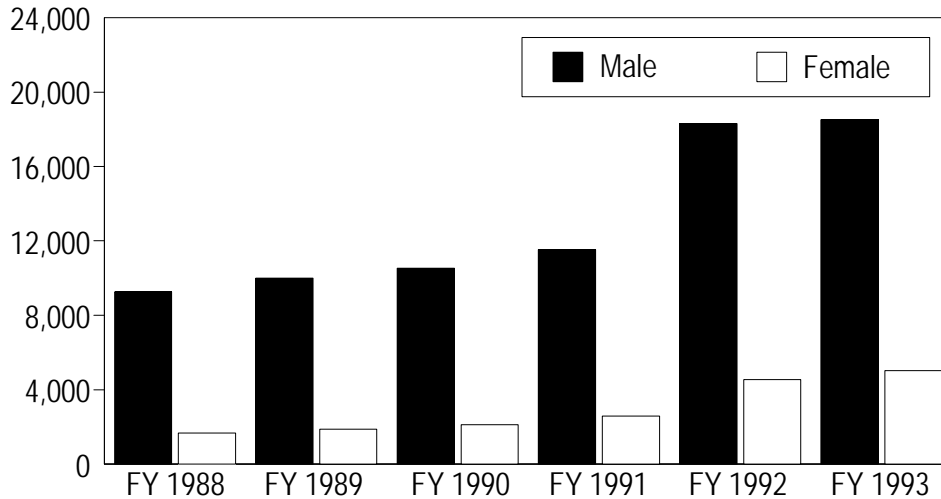
SELECTED SUMMARY CHARTS

Chart 1 depicts the number of scientists and engineers admitted to the United States on permanent visas, by fiscal year of admission and sex from 1988 through 1993. Women immigrating to the United States have been consistently increasing over time. S&E women in-

creased threefold between 1988 and 1993, from 1,667 to 5,020. Men only doubled their numbers from 9,251 in 1988 to 18,511 in 1993.

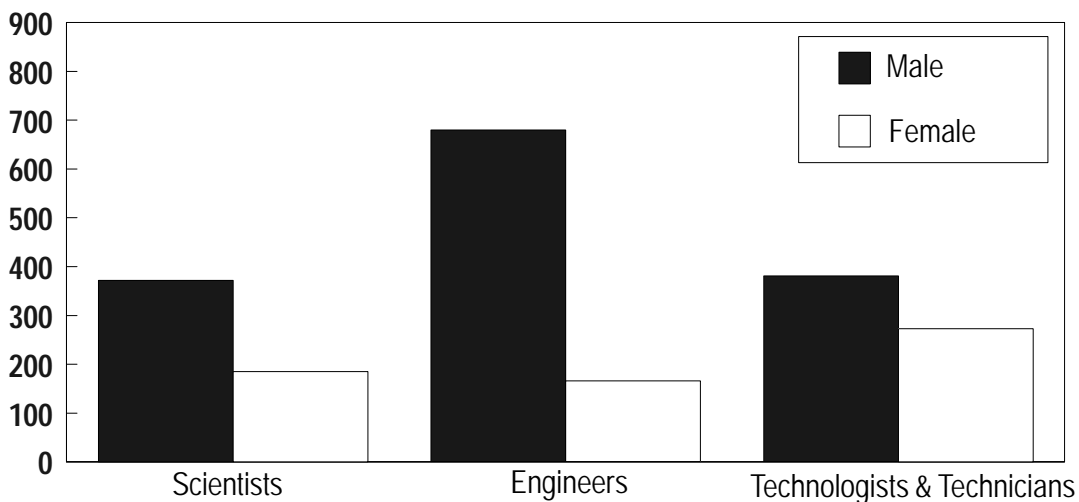
Chart 2 shows the gender, and number of the scientists, engineers, technologists, and technicians admitted to the United States on permanent visas under the Chinese Student Protection Act 1993.

Chart 1. Scientists and engineers admitted to the United States on permanent visas, by fiscal year of admission and sex: 1988-93



SOURCE: National Science Foundation/SRS, using unpublished data from the U.S. Department of Justice/Immigration & Naturalization Service

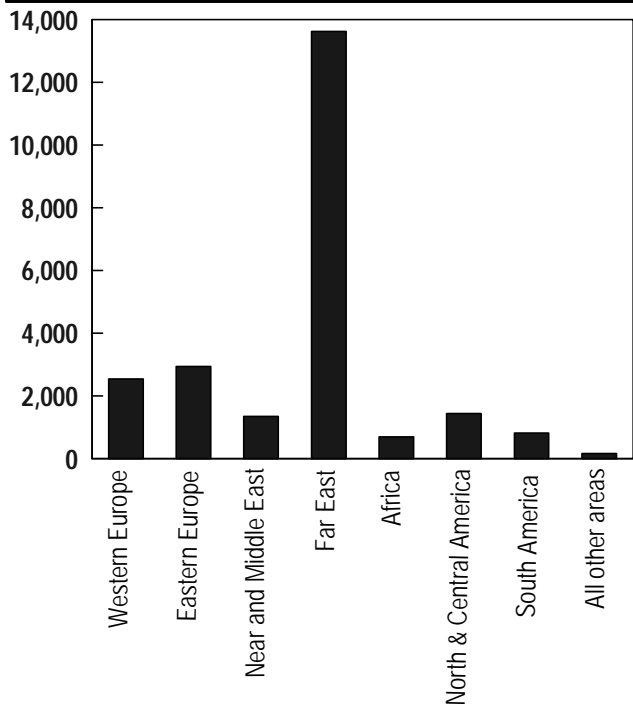
Chart 2. Scientists, engineers, technologists, and technicians admitted to the United States on permanent visas under the Chinese Student Protection Act: 1993



SOURCE: National Science Foundation/SRS, using unpublished data from the U.S. Department of Justice/Immigration & Naturalization Service

Chart 3 shows the number of scientists and engineers admitted to the United States on permanent visas, by region of birth in 1993. Nearly 14,000 immigrants reported the Far East as their region of birth and about 3,000 reported their region of birth as the Eastern Europe region.

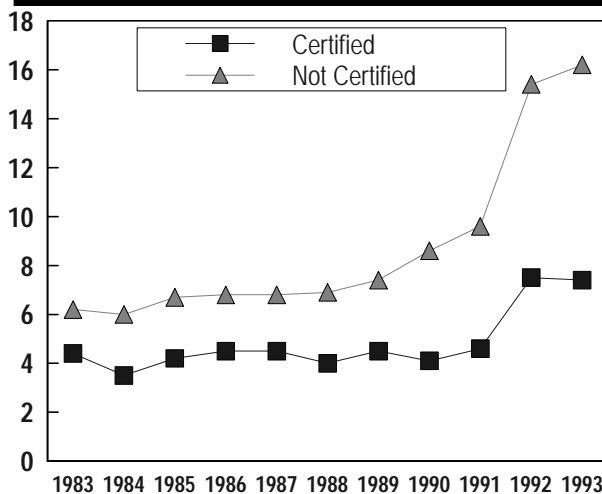
Chart 3. Scientists and engineers admitted to the United States on permanent visas, by region of birth: 1993



SOURCE: National Science Foundation/SRS, using unpublished data from the U.S. Department of Justice/Immigration & Naturalization Service

Chart 4 shows the total number of scientists and engineers admitted to the United States on permanent visas, by labor certification status over a ten year period. The number of noncertified immigrants admitted to the United States has increased dramatically from 6,000 in 1983 to nearly 17,000 in 1993.

Chart 4. Scientists and engineers admitted to the United States on permanent visas, by labor certification status: 1983-1993



SOURCE: National Science Foundation/SRS, using unpublished data from the U.S. Department of Justice/Immigration & Naturalization Service

SECTION B. DETAILED STATISTICAL TABLES:
SCIENTISTS AND ENGINEERS

SECTION B. DETAILED STATISTICAL TABLES: SCIENTISTS AND ENGINEERS

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Table B-1. Scientists and engineers admitted to the United States on permanent visas, by occupation: 1968-93

[In thousands]

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Year	Total, all immigrant S&Es	Engineers	Natural scientists	Mathematical scientists and computer specialists	Social scientists
1968.....	13.1	9.3	2.8	0.4	0.6
1969.....	10.3	7.2	2.4	0.2	0.5
1970.....	13.3	9.3	2.9	0.3	0.8
1971.....	13.1	9.0	3.1	0.4	0.6
1972.....	11.2	7.4	2.9	0.3	0.6
1973.....	6.5	4.4	1.6	0.1	0.4
1974.....	6.4	3.9	1.3	0.6	0.6
1975.....	7.4	4.6	1.5	0.7	0.6
1976.....	7.7	5.1	1.5	0.5	0.6
1977.....	8.2	5.2	1.8	0.6	0.6
1978.....	10.6	6.8	2.1	0.9	0.8
1979.....	-	-	-	-	-
1980.....	-	-	-	-	-
1981.....	-	-	-	-	-
1982.....	12.2	7.9	1.8	1.8	0.7
1983.....	10.5	6.8	1.5	1.6	0.6
1984.....	9.6	6.1	1.4	1.5	0.6
1985.....	10.9	8.1	1.3	1.0	0.5
1986.....	11.2	8.4	1.3	1.0	0.5
1987.....	11.3	8.3	1.3	1.2	0.5
1988.....	11.0	8.1	1.2	1.2	0.5
1989.....	11.8	8.7	1.2	1.5	0.4
1990.....	12.6	9.3	1.2	1.6	0.5
1991.....	14.1	10.5	1.3	1.7	0.6
1992.....	22.9	15.6	2.8	3.4	1.1
1993.....	23.6	14.5	3.9	4.2	1.0

NOTE: Figures are rounded to the nearest hundred. Because of rounding, items may not add to totals.

KEY: - = Not available
S&Es = Scientists and engineers

SOURCES: National Science Foundation/SRS, using unpublished data provided by the U.S. Department of Justice/Immigration and Naturalization Service

Table B-2. Scientists and engineers admitted to the United States on permanent visas, by labor certification status^{1/}: 1968-93

[In thousands]

Page 1 of 1

Year	Total, all immigrant S&Es	Labor certification status	
		Worker certifications	Not certified
1968.....	13.1	9.1	3.9
1969.....	10.3	7.2	3.0
1970.....	13.3	10.3	3.0
1971.....	13.1	10.0	3.1
1972.....	11.2	8.3	3.0
1973.....	6.5	3.4	3.2
1974.....	6.4	2.6	3.7
1975.....	7.4	3.4	4.0
1976.....	7.7	2.9	4.9
1977.....	8.2	2.7	5.5
1978.....	10.6	3.0	7.6
1979.....	-	-	-
1980.....	-	-	-
1981.....	-	-	-
1982.....	12.2	5.0	7.2
1983.....	10.5	4.4	6.2
1984.....	9.6	3.5	6.0
1985.....	10.9	4.2	6.7
1986.....	11.2	4.5	6.8
1987.....	11.3	4.5	6.8
1988.....	11.0	4.0	6.9
1989.....	11.8	4.5	7.4
1990.....	12.6	4.1	8.6
1991.....	14.1	4.6	9.6
1992.....	22.9	7.5	15.4
1993.....	23.6	7.4	16.2

NOTE: Figures are rounded to the nearest hundred. Because of rounding, items may not add to totals.

KEY: - = Not available
S&Es = Scientists and engineers

SOURCES: National Science Foundation/SRS, using unpublished data provided by the U.S. Department of Justice/Immigration and Naturalization Service

^{1/} Due to data problems for fiscal year 1992, occupational class of admissions was used in lieu of labor certification status. This is a substantially equivalent measure.

**Table B-3. Scientists and engineers admitted to United States on permanent visas,
by region and country of birth and by occupation: 1993**

Page 1 of 2

Region and country of birth	Total, all immigrant S&Es	Engineers	Natural scientists	Mathematical scientists and computer specialists	Social scientists
All countries.....	23,534	14,497	3,901	4,157	979
Europe.....	5,478	3,384	932	603	559
Western Europe.....	2,540	1,599	463	390	88
Austria.....	27	16	4	7	0
Belgium.....	27	15	7	2	3
Denmark.....	42	30	6	5	1
France.....	153	103	26	18	6
Germany.....	237	127	72	26	12
Greece.....	82	51	16	15	0
Ireland.....	571	399	82	73	17
Italy.....	64	27	19	14	4
Netherlands.....	71	34	24	9	4
Norway.....	30	26	1	3	0
Spain.....	44	19	10	7	8
Sweden.....	74	57	3	9	5
Switzerland.....	45	28	9	5	3
United Kingdom.....	1,026	639	180	188	19
Other.....	47	28	4	9	6
Eastern Europe.....	2,937	1,785	468	213	471
Newly independent states of the former Soviet Union.....	1,165	774	219	116	56
Poland.....	1,213	653	145	45	370
Yugoslavia.....	139	88	25	9	17
Other.....	408	261	78	41	28
Asia.....	14,957	9,176	2,558	3,061	162
Near and Middle East.....	1,341	1,009	139	147	46
Iran.....	466	351	59	41	15
Iraq.....	66	55	4	6	1
Israel.....	225	143	27	43	12
Lebanon.....	185	149	16	16	4
Other.....	399	311	33	41	14
Far East.....	13,616	8,167	2,419	2,914	116
Hong Kong.....	521	343	35	140	3
People's Republic of China.....	4,810	2,510	1,381	861	58
India.....	4,120	2,635	558	898	29
Pakistan.....	285	235	22	27	1
Japan.....	168	95	32	37	4
Korea.....	248	141	54	49	4
Philippines.....	994	662	83	244	5
Taiwan.....	1,605	990	159	449	7
Other.....	865	556	95	209	5
Africa.....	689	418	100	146	25
Egypt.....	176	135	21	17	3
Other.....	513	283	79	129	22

See explanatory information and SOURCE(S) at end of table.

Table B-3. Scientists and engineers admitted to United States on permanent visas, by region and country of birth and by occupation: 1993

Page 2 of 2

Region and country of birth	Total, all immigrant S&Es	Engineers	Natural scientists	Mathematical scientists and computer specialists	Social scientists
North and Central America.....	1,432	968	150	174	140
Canada.....	507	300	80	103	24
Mexico.....	165	121	20	15	9
Other.....	760	547	50	56	107
South America.....	817	479	120	136	82
Argentina.....	138	72	34	22	10
Bolivia.....	18	10	1	5	2
Brazil.....	118	55	18	34	11
Chile.....	34	9	16	6	3
Colombia.....	137	73	19	19	26
Ecuador.....	43	28	5	3	7
Peru.....	141	97	12	19	13
Venezuela.....	106	73	10	18	5
Other.....	82	62	5	10	5
All other areas.....	161	72	41	37	11
Australia.....	114	48	28	30	8
New Zealand.....	38	19	11	5	3
Other.....	9	5	2	2	0

KEY: S&Es = Scientists and engineers

SOURCES: National Science Foundation/SRS, using unpublished data provided by the U.S. Department of Justice/Immigration and Naturalization Service

Table B-4. Scientists and engineers admitted to United States on permanent visas, by region and country of last permanent residence and by occupation: 1993

Page 1 of 2

Region and country of last permanent residence	Total, all immigrant S&Es	Engineers	Natural scientists	Mathematical scientists and computer specialists	Social scientists
All countries.....	23,534	14,497	3,901	4,157	979
Europe.....	5,671	3,458	997	657	559
Western Europe.....	2,923	1,796	565	464	98
Austria.....	26	17	5	4	0
Belgium.....	33	21	5	4	3
Denmark.....	41	28	6	6	1
France.....	241	146	57	33	5
Germany.....	314	167	100	29	18
Greece.....	89	57	16	15	1
Ireland.....	523	367	73	69	14
Italy.....	70	32	20	16	2
Netherlands.....	89	48	26	11	4
Norway.....	34	25	2	6	1
Spain.....	53	24	12	8	9
Sweden.....	94	70	5	14	5
Switzerland.....	82	39	26	9	8
United Kingdom.....	1,186	723	208	233	22
Other.....	48	32	4	7	5
Eastern Europe.....	2,747	1,662	431	193	461
Newly independent states of the former Soviet Union.....	1,127	752	211	113	51
Poland.....	1,171	627	135	40	369
Yugoslavia.....	128	79	22	10	17
Other.....	321	204	63	30	24
Asia.....	14,362	8,863	2,406	2,937	156
Near and Middle East.....	1,302	965	126	165	46
Iran.....	322	243	38	30	11
Iraq.....	38	31	0	6	1
Israel.....	299	184	41	56	18
Lebanon.....	140	113	13	11	3
Other.....	503	394	34	62	13
Far East.....	13,060	7,898	2,280	2,772	110
Hong Kong.....	545	373	34	135	3
People's Republic of China..	4,601	2,382	1,324	839	56
India.....	3,896	2,517	503	851	25
Pakistan.....	254	216	16	21	1
Japan.....	208	122	41	40	5
Korea.....	235	135	51	45	4
Philippines.....	945	636	80	224	5
Taiwan.....	1,615	1,014	156	437	8
Other.....	761	503	75	180	3

See explanatory information and SOURCE(S) at end of table.

Table B-4. Scientists and engineers admitted to United States on permanent visas, by region and country of last permanent residence and by occupation: 1993

Region and country of last permanent residence	Total, all immigrant S&Es	Engineers	Natural scientists	Mathematical scientists and computer specialists	Social scientists
Africa.....	549	335	73	118	23
Egypt.....	144	112	16	14	2
Other.....	405	223	57	104	21
North and Central America.....	1,895	1,243	257	243	152
Canada.....	972	578	183	172	39
Mexico.....	166	124	21	13	8
Other.....	757	541	53	58	105
South America.....	796	476	112	130	78
Argentina.....	134	70	31	22	11
Bolivia.....	18	10	1	5	2
Brazil.....	130	61	20	38	11
Chile.....	23	8	11	3	1
Colombia.....	126	68	16	16	26
Ecuador.....	43	28	5	3	7
Peru.....	130	90	12	16	12
Venezuela.....	123	87	12	18	6
Other.....	69	54	4	9	2
All other areas.....	261	122	56	72	11
Australia.....	196	87	44	57	8
New Zealand.....	54	28	11	13	2
Other.....	11	7	1	2	1

KEY: S&Es = Scientists and engineers

SOURCES: National Science Foundation/SRS, using unpublished data provided by the U.S. Department of Justice/Immigration and Naturalization Service

Table B-5. Scientists and engineers admitted to United States on permanent visas, by region and country of last permanent residence and by region of birth: 1993

Page 1 of 2

Region and country of last permanent residence	Total, all immigrant S&Es	Region of birth							
		Western Europe	Eastern Europe	Near and Middle East	Far East	Africa	North and Central America	South America	All other areas
All countries.....	23,534	2,540	2,937	1,341	13,616	689	1,432	817	161
Europe.....	5,671	2,320	2,812	143	216	108	37	22	12
Western Europe.....	2,923	2,315	75	142	213	107	37	22	12
Austria.....	26	15	3	6	1	1	0	0	0
Belgium.....	33	24	1	3	3	1	1	0	0
Denmark.....	41	38	1	0	2	0	0	0	0
France.....	241	164	2	24	30	15	4	2	0
Germany.....	314	210	24	31	29	9	7	4	0
Greece.....	89	72	8	6	2	1	0	0	0
Ireland.....	523	514	2	1	2	2	1	0	1
Italy.....	70	53	5	2	7	1	0	2	0
Netherlands.....	89	72	3	3	9	0	1	1	0
Norway.....	34	27	0	1	5	0	0	1	0
Spain.....	53	38	0	6	4	0	2	3	0
Sweden.....	94	74	3	5	7	1	2	2	0
Switzerland.....	82	58	6	6	8	0	1	2	1
United Kingdom.....	1,186	918	15	47	103	71	17	5	10
Other.....	48	38	2	1	1	5	1	0	0
Eastern Europe.....	2,747	5	2,737	1	3	1	0	0	0
Newly independent states of the former Soviet Union.....	1,127	1	1,123	0	2	1	0	0	0
Poland.....	1,171	3	1,168	0	0	0	0	0	0
Yugoslavia.....	128	0	128	0	0	0	0	0	0
Other.....	321	1	318	1	1	0	0	0	0
Asia.....	14,362	48	52	1,138	13,062	47	3	11	1
Near and Middle East.....	1,302	18	48	1,122	71	33	2	8	0
Iran.....	322	3	1	318	0	0	0	0	0
Iraq.....	38	0	0	37	1	0	0	0	0
Israel.....	299	11	46	224	1	7	2	8	0
Lebanon.....	140	0	0	139	0	1	0	0	0
Other.....	503	4	1	404	69	25	0	0	0
Far East.....	13,060	30	4	16	12,991	14	1	3	1
Hong Kong.....	545	5	0	0	538	0	0	1	1
People's Republic of China.....	4,601	1	0	0	4,599	0	0	1	0
India.....	3,896	4	1	12	3,868	11	0	0	0
Pakistan.....	254	0	0	3	251	0	0	0	0
Japan.....	208	9	1	0	195	2	0	1	0
Korea.....	235	1	0	0	234	0	0	0	0
Philippines.....	945	1	0	0	943	1	0	0	0
Taiwan.....	1,615	0	0	0	1,615	0	0	0	0
Other.....	761	9	2	1	748	0	1	0	0

See explanatory information and SOURCE(S) at end of table.

Table B-5. Scientists and engineers admitted to United States on permanent visas, by region and country of last permanent residence and by region of birth: 1993

Region and country of last permanent residence	Total, all immigrant S&Es	Region of birth							
		Western Europe	Eastern Europe	Near and Middle East	Far East	Africa	North and Central America	South America	All other areas
Africa.....	549	19	4	11	23	489	2	1	0
Egypt.....	144	1	0	3	0	140	0	0	0
Other.....	405	18	4	8	23	349	2	1	0
North and Central America.....	1,895	111	57	33	244	37	1,383	28	2
Canada.....	972	99	55	29	231	35	512	9	2
Mexico.....	166	2	0	0	2	0	158	4	0
Other.....	757	10	2	4	11	2	713	15	0
South America.....	796	12	4	5	13	2	6	754	0
Argentina.....	134	2	1	0	2	0	0	129	0
Bolivia.....	18	1	0	0	1	0	0	16	0
Brazil.....	130	2	1	2	8	1	0	116	0
Chile.....	23	0	0	0	0	0	0	23	0
Colombia.....	126	1	0	0	0	0	0	125	0
Ecuador.....	43	0	0	0	0	0	0	43	0
Peru.....	130	1	0	0	0	0	0	129	0
Venezuela.....	123	5	1	3	0	1	6	107	0
Other.....	69	0	1	0	2	0	0	66	0
All other areas.....	261	30	8	11	58	6	1	1	146
Australia.....	196	26	6	10	43	4	1	0	106
New Zealand.....	54	4	2	1	12	2	0	0	33
Other.....	11	0	0	0	3	0	0	1	7

KEY: S&Es = Scientists and engineers

SOURCES: National Science Foundation/SRS, using unpublished data provided by the U.S. Department of Justice/Immigration and Naturalization Service

Table B-6. Scientists and engineers admitted to United States on permanent visas, by region and intended State of residence and by region of birth: 1993

Page 1 of 2

Region and intended State of residence	Total, all immigrants S&Es	Region of birth							
		Western Europe	Eastern Europe	Near and Middle	Far East	Africa	North and Central	South America	All other
All States.....	23,534	2,540	2,937	1,341	13,616	689	1,432	817	161
New England.....	1,588	277	209	100	784	55	100	50	13
Connecticut.....	356	49	73	19	168	11	18	17	1
Maine.....	16	4	0	1	8	0	2	0	1
Massachusetts.....	1,087	200	117	71	548	41	71	30	9
New Hampshire.....	77	13	12	4	38	2	4	2	2
Rhode Island.....	40	5	7	4	18	1	4	1	
Vermont.....	12	6	0	1	4	0	1	0	
Middle Atlantic.....	4,721	477	852	173	2,443	152	385	220	19
New Jersey.....	1,805	126	252	62	1,151	64	86	58	6
New York.....	2,359	275	503	82	1,005	63	282	139	10
Pennsylvania.....	557	76	97	29	287	25	17	23	3
East North Central.....	3,580	255	706	168	2,173	83	116	64	15
Illinois.....	1,701	119	499	51	929	25	33	37	8
Indiana.....	318	25	20	16	235	7	10	4	1
Michigan.....	777	57	93	55	489	19	50	12	2
Ohio.....	615	38	75	37	414	24	18	8	1
Wisconsin.....	169	16	19	9	106	8	5	3	3
West North Central.....	423	42	44	18	278	16	13	7	5
Iowa.....	48	7	5	3	29	2	0	1	1
Kansas.....	89	8	6	4	60	5	2	2	2
Minnesota.....	108	14	12	3	64	6	6	1	2
Missouri.....	127	9	17	7	87	2	4	1	
Nebraska.....	37	2	4	0	28	1	0	2	
North Dakota.....	8	1	0	0	7	0	0	0	
South Dakota.....	6	1	0	1	3	0	1	0	
South Atlantic.....	2,689	362	190	143	1,357	125	286	213	13
Delaware.....	55	7	2	1	37	2	4	2	
District of Columbia.....	45	10	2	1	12	4	7	7	2
Florida.....	834	112	73	38	274	26	181	127	3
Georgia.....	305	40	11	16	194	9	24	10	1
Maryland.....	571	66	43	38	335	37	22	25	5
North Carolina.....	351	57	23	16	207	18	23	7	
South Carolina.....	80	13	4	0	51	4	3	5	
Virginia.....	428	54	32	33	233	24	20	30	2
West Virginia.....	20	3	0	0	14	1	2	0	
East South Central.....	512	56	32	29	339	19	18	16	3
Alabama.....	163	12	6	10	119	8	1	7	
Kentucky.....	110	11	13	4	73	4	3	1	1
Mississippi.....	32	1	1	1	22	0	3	2	2
Tennessee.....	207	32	12	14	125	7	11	6	

See explanatory information and SOURCE(S) at end of table.

Table B-6. Scientists and engineers admitted to United States on permanent visas, by region and intended State of residence and by region of birth: 1993

Region and intended State of residence	Total, all immigrants S&Es	Region of birth							
		Western Europe	Eastern Europe	Near and Middle	Far East	Africa	North and Central	South America	All other
West South Central.....	1,640	169	91	96	1,080	55	99	44	6
Arkansas.....	40	8	1	2	27	2	0	0	
Louisiana.....	84	13	3	6	50	3	5	4	
Oklahoma.....	73	9	2	11	38	4	7	0	2
Texas.....	1,443	139	85	77	965	46	87	40	4
Mountain.....	639	95	75	24	352	16	49	18	10
Arizona.....	197	29	15	9	109	5	23	6	1
Colorado.....	186	28	36	8	88	10	8	3	5
Idaho.....	21	3	4	0	12	0	2	0	
Montana.....	6	2	1	0	3	0	0	0	
Nevada.....	43	7	4	2	19	0	6	4	1
New Mexico.....	30	9	4	3	8	0	4	1	1
Utah.....	147	16	11	2	107	1	4	4	2
Wyoming.....	9	1	0	0	6	0	2	0	
Pacific.....	7,365	773	707	583	4,615	161	279	170	76
Alaska.....	12	1	3	0	7	1	0	0	
California.....	6,740	685	657	555	4,233	150	239	158	62
Hawaii.....	100	7	1	3	79	2	2	1	5
Oregon.....	148	24	6	9	94	3	8	3	1
Washington.....	365	56	40	16	202	5	30	8	8
Outlying areas.....	99	2	0	0	29	0	61	6	1

KEY: S&Es = Scientists and engineers

SOURCES: National Science Foundation/SRS, using unpublished data provided by the U.S. Department of Justice/Immigration and Naturalization Service

Table B-7. Scientists and engineers admitted to United States on permanent visa by region and intended State of residence and by occupation: 1993

Page 1 of 2

Region and intended State of residence	Total, all immigrant S&Es	Engineers	Natural scientists	Mathematical scientists and computer specialists	Social scientists
All States.....	23,534	14,497	3,901	4,157	979
New England.....	1,588	810	357	340	81
Connecticut.....	356	125	113	100	18
Maine.....	16	10	6	0	0
Massachusetts.....	1,087	583	219	233	52
New Hampshire.....	77	60	5	6	6
Rhode Island.....	40	23	12	1	4
Vermont.....	12	9	2	0	1
Middle Atlantic.....	4,721	2,364	964	1,063	330
New Jersey.....	1,805	883	252	571	99
New York.....	2,359	1,186	595	377	201
Pennsylvania.....	557	295	117	115	30
East North Central.....	3,580	2,087	656	621	216
Illinois.....	1,701	901	317	331	152
Indiana.....	318	186	58	68	6
Michigan.....	777	544	94	111	28
Ohio.....	615	366	154	75	20
Wisconsin.....	169	90	33	36	10
West North Central.....	423	226	99	84	14
Iowa.....	48	28	8	10	2
Kansas.....	89	52	23	12	2
Minnesota.....	108	58	20	25	5
Missouri.....	127	65	33	27	2
Nebraska.....	37	16	13	6	2
North Dakota.....	8	3	1	3	1
South Dakota.....	6	4	1	1	0
South Atlantic.....	2,689	1,618	409	539	123
Delaware.....	55	22	17	15	1
District of Columbia.....	45	22	3	10	10
Florida.....	834	588	106	95	45
Georgia.....	305	166	45	88	6
Maryland.....	571	321	106	111	33
North Carolina.....	351	161	65	112	13
South Carolina.....	80	52	13	14	1
Virginia.....	428	271	51	92	14
West Virginia.....	20	15	3	2	0
East South Central.....	512	243	161	101	7
Alabama.....	163	74	30	55	4
Kentucky.....	110	61	31	17	1
Mississippi.....	32	16	13	3	0
Tennessee.....	207	92	87	26	2

See explanatory information and SOURCE(S) at end of table.

Table B-7. Scientists and engineers admitted to United States on permanent visa by region and intended State of residence and by occupation: 1993

Page 2 of 2

Region and intended State of residence	Total, all immigrant S&Es	Engineers	Natural scientists	Mathematical scientists and computer specialists	Social scientists
West South Central.....	1,640	1,024	386	205	25
Arkansas.....	40	18	8	13	1
Louisiana.....	84	65	15	1	3
Oklahoma.....	73	46	15	9	3
Texas.....	1,443	895	348	182	18
Mountain.....	639	433	127	58	21
Arizona.....	197	159	22	11	5
Colorado.....	186	132	27	20	7
Idaho.....	21	16	3	2	0
Montana.....	6	2	1	3	0
Nevada.....	43	32	4	2	5
New Mexico.....	30	14	11	4	1
Utah.....	147	74	56	14	3
Wyoming.....	9	4	3	2	0
Pacific.....	7,365	5,402	725	1,099	139
Alaska.....	12	11	0	1	0
California.....	6,740	4,909	670	1,047	114
Hawaii.....	100	78	10	6	6
Oregon.....	148	112	17	12	7
Washington.....	365	292	28	33	12
Outlying areas.....	99	79	3	2	15

KEY: S&Es = Scientists and engineers

SOURCES: National Science Foundation/SRS, using unpublished data provided by the U.S. Department of Justice/Immigration and Naturalization Service

Table B-8. Scientists and engineers admitted to United States on permanent visas, by broad occupational group, sex, age group, and region of last permanent residence: 1993

Broad occupational group, sex, and age group	Total all immigrant S&Es	Region of last permanent residence							
		Western Europe	Eastern Europe	Near and Middle East	Far East	Africa	North and Central America	South America	All other areas
All occupational groups	23,534	2,540	2,937	1,341	13,616	689	1,432	817	161
Male, total.....	18,511	2,168	1,858	1,149	10,866	576	1,149	612	133
Age group.....									
Under 30.....	5,009	761	217	304	3,112	108	336	141	30
30-44.....	10,939	1,166	1,078	657	6,514	396	665	369	94
45 and over.....	2,562	241	563	188	1,239	72	148	102	9
Female, total.....	5,020	371	1,079	192	2,748	113	283	205	28
Age group.....									
Under 30.....	1,566	179	187	68	918	36	97	64	16
30-44.....	2,888	175	630	113	1,598	68	175	119	10
45 and over.....	566	17	262	11	232	9	11	22	2
Scientists, total.....	9,037	941	1,152	332	5,449	271	464	338	89
Male, total.....	5,905	679	501	243	3,743	193	276	202	68
Age group									
Under 30.....	1,314	202	58	60	841	30	65	46	12
30-44.....	3,933	424	311	152	2,545	140	176	133	52
45 and over.....	658	53	132	31	357	23	35	23	4
Female, total.....	3,130	262	651	89	1,704	78	188	136	21
Age group									
Under 30.....	841	115	120	24	460	19	56	35	11
30-44.....	1,924	131	378	56	1,092	51	124	84	8
45 and over.....	365	16	153	9	152	8	8	17	2
Engineers, total.....	14,497	1,599	1,785	1,009	8,167	418	968	479	72
Male, total.....	12,606	1,489	1,357	906	7,123	383	873	410	65
Age group									
Under 30.....	3,695	559	159	244	2,271	78	271	95	18
30-44.....	7,006	742	767	505	3,969	256	489	236	42
45 and over.....	1,904	188	431	157	882	49	113	79	5
Female, total.....	1,890	109	428	103	1,044	35	95	69	7
Age group									
Under 30.....	725	64	67	44	458	17	41	29	5
30-44.....	964	44	252	57	506	17	51	35	2
45 and over.....	201	1	109	2	80	1	3	5	0

KEY: S&Es = Scientists and engineers

SOURCES: National Science Foundation/SRS, using unpublished data provided by the U.S. Department of Justice/Immigration and Naturalization Service

Table B-9. Scientists and engineers admitted to United States on permanent visas, by broad occupational group, sex, age group, and region of birth: 1993

Page 1 of 1

Broad occupational group, sex, and age group	Total, all immigrant S&Es	Region of birth							
		Western Europe	Eastern Europe	Near and Middle East	Far East	Africa	North and Central America	South America	All other areas
All occupational groups.....	23,534	2,540	2,937	1,341	13,616	689	1,432	817	161
Male, total.....	18,511	2,168	1,858	1,149	10,866	576	1,149	612	133
Age group									
Under 30.....	5,009	761	217	304	3,112	108	336	141	30
30-44.....	10,939	1,166	1,078	657	6,514	396	665	369	94
45 and over.....	2,562	241	563	188	1,239	72	148	102	9
Female, total.....	5,020	371	1,079	192	2,748	113	283	205	28
Age group									
Under 30.....	1,566	179	187	68	918	36	97	64	16
30-44.....	2,888	175	630	113	1,598	68	175	119	10
45 and over.....	566	17	262	11	232	9	11	22	2
Scientists, total.....	9,037	941	1,152	332	5,449	271	464	338	89
Male, total.....	5,905	679	501	243	3,743	193	276	202	68
Age group									
Under 30.....	1,314	202	58	60	841	30	65	46	12
30-44.....	3,933	424	311	152	2,545	140	176	133	52
45 and over.....	658	53	132	31	357	23	35	23	4
Female, total.....	3,130	262	651	89	1,704	78	188	136	21
Age group									
Under 30.....	841	115	120	24	460	19	56	35	11
30-44.....	1,924	131	378	56	1,092	51	124	84	8
45 and over.....	365	16	153	9	152	8	8	17	2
Engineers, total.....	14,497	1,599	1,785	1,009	8,167	418	968	479	72
Male, total.....	12,606	1,489	1,357	906	7,123	383	873	410	65
Age group									
Under 30.....	3,695	559	159	244	2,271	78	271	95	18
30-44.....	7,006	742	767	505	3,969	256	489	236	42
45 and over.....	1,904	188	431	157	882	49	113	79	5
Female, total.....	1,890	109	428	103	1,044	35	95	69	7
Age group									
Under 30.....	725	64	67	44	458	17	41	29	5
30-44.....	964	44	252	57	506	17	51	35	2
45 and over.....	201	1	109	2	80	1	3	5	0

KEY: S&Es = Scientists and engineers

SOURCES: National Science Foundation/SRS, using unpublished data provided by the U.S. Department of Justice/Immigration and Naturalization Service

Table B-10. Scientists and engineers admitted to the United States on permanent visas, by broad occupational group, sex, age group, and region and intended State of residence: 1993

Broad occupational group, sex, and age group	Region and intended State of residence									
	Middle Atlantic, total	Middle Atlantic			East North Central, total	East North Central				
		New Jersey	New York	Pennsylvania		Illinois	Indiana	Michigan	Ohio	Wisconsin
All occupational groups.	4,721	1,805	2,359	557	3,580	1,701	318	777	615	169
Male, total.....	3,512	1,348	1,724	440	2,799	1,261	259	639	497	143
Age group										
Under 30.....	909	341	450	118	756	342	55	196	131	32
30-44.....	2,101	840	986	275	1,663	727	179	370	293	94
45 and over.....	502	167	288	47	380	192	25	73	73	17
Female, total.....	1,207	456	635	116	781	440	59	138	118	26
Age group										
Under 30.....	324	122	171	31	222	116	8	56	37	5
30-44.....	743	304	370	69	450	248	46	73	65	18
45 and over.....	140	30	94	16	109	76	5	9	16	3
Scientists, total.....	2,357	922	1,173	262	1,493	800	132	233	249	79
Male, total.....	1,464	570	712	182	972	483	98	158	176	57
Age group										
Under 30.....	355	138	171	46	250	140	19	42	39	10
30-44.....	975	394	460	121	614	290	68	101	116	39
45 and over.....	134	38	81	15	108	53	11	15	21	8
Female, total.....	891	351	461	79	521	317	34	75	73	22
Age group										
Under 30.....	220	83	118	19	143	89	5	24	20	5
30-44.....	576	251	278	47	296	169	26	44	43	14
45 and over.....	95	17	65	13	82	59	3	7	10	3
Engineers, total.....	2,364	883	1,186	295	2,087	901	186	544	366	90
Male, total.....	2,048	778	1,012	258	1,827	778	161	481	321	86
Age group										
Under 30.....	554	203	279	72	506	202	36	154	92	22
30-44.....	1,126	446	526	154	1,049	437	111	269	177	55
45 and over.....	368	129	207	32	272	139	14	58	52	9
Female, total.....	316	105	174	37	260	123	25	63	45	4
Age group										
Under 30.....	104	39	53	12	79	27	3	32	17	0
30-44.....	167	53	92	22	154	79	20	29	22	4
45 and over.....	45	13	29	3	27	17	2	2	6	0

See explanatory information and SOURCE(S) at end of table.

Table B-10. Scientists and engineers admitted to the United States on permanent visas, by broad occupational group, sex, age group, and region and intended State of residence: 1993

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Broad occupational group, sex, and age group	Region and intended State of residence							
	West North Central, total	West North Central						
		Iowa	Kansas	Minnesota	Missouri	Nebraska	North Dakota	South Dakota
All occupational groups.....	423	48	89	108	127	37	8	6
Male, total.....	318	36	72	72	102	25	5	6
Age group								
Under 30.....	60	11	16	14	16	1	1	1
30-44.....	213	21	49	45	68	21	4	5
45 and over.....	45	4	7	13	18	3	0	0
Female, total.....	105	12	17	36	25	12	3	0
Age group								
Under 30.....	28	4	3	11	6	4	0	0
30-44.....	67	7	14	21	15	7	3	0
45 and over.....	10	1	0	4	4	1	0	0
Scientists, total.....	197	20	37	50	62	21	5	2
Male, total.....	131	11	26	31	47	12	2	2
Age group								
Under 30.....	21	1	7	5	7	1	0	0
30-44.....	99	9	18	23	36	9	2	2
45 and over.....	11	1	1	3	4	2	0	0
Female, total.....	66	9	11	19	15	9	3	0
Age group								
Under 30.....	14	2	1	6	3	2	0	0
30-44.....	44	6	10	10	9	6	3	0
45 and over.....	8	1	0	3	3	1	0	0
Engineers, total.....	226	28	52	58	65	16	3	4
Male, total.....	187	25	46	41	55	13	3	4
Age group								
Under 30.....	39	10	9	9	9	0	1	1
30-44.....	114	12	31	22	32	12	2	3
45 and over.....	34	3	6	10	14	1	0	0
Female, total.....	39	3	6	17	10	3	0	0
Age group								
Under 30.....	14	2	2	5	3	2	0	0
30-44.....	23	1	4	11	6	1	0	0
45 and over.....	2	0	0	1	1	0	0	0

See explanatory information and SOURCE(S) at end of table.

Table B-10. Scientists and engineers admitted to the United States on permanent visas, by broad occupational group, sex, age group, and region and intended State of residence: 1993

Broad occupational group, sex, and age group	Region and intended State of residence									
	South Atlantic, total	South Atlantic								
		Delaware	District of Columbia	Florida	Georgia	Maryland	North Carolina	South Carolina	Virginia	West Virginia
All occupational groups....	2,689	55	45	834	305	571	351	80	428	20
Male, total.....	2,211	38	32	692	256	469	281	68	361	14
Age group										
Under 30.....	517	5	14	147	67	112	44	18	106	4
30-44.....	1,325	27	12	406	152	268	202	41	210	7
45 and over.....	369	6	6	139	37	89	35	9	45	3
Female, total.....	477	17	13	142	48	102	70	12	67	6
Age group										
Under 30.....	128	3	6	38	10	26	19	2	22	2
30-44.....	297	12	5	88	35	63	45	8	37	4
45 and over.....	52	2	2	16	3	13	6	2	8	0
Scientists, total.....	1,071	33	23	246	139	250	190	28	157	5
Male, total.....	762	19	13	169	109	181	131	20	118	2
Age group										
Under 30.....	153	2	7	40	23	29	21	5	26	0
30-44.....	512	15	4	106	75	124	98	12	76	2
45 and over.....	97	2	2	23	11	28	12	3	16	0
Female, total.....	309	14	10	77	30	69	59	8	39	3
Age group										
Under 30.....	66	1	5	13	5	14	16	1	11	0
30-44.....	207	11	5	53	23	45	38	6	23	3
45 and over.....	36	2	0	11	2	10	5	1	5	0
Engineers, total.....	1,618	22	22	588	166	321	161	52	271	15
Male, total.....	1,449	19	19	523	147	288	150	48	243	12
Age group										
Under 30.....	364	3	7	107	44	83	23	13	80	4
30-44.....	813	12	8	300	77	144	104	29	134	5
45 and over.....	272	4	4	116	26	61	23	6	29	3
Female, total.....	168	3	3	65	18	33	11	4	28	3
Age group										
Under 30.....	62	2	1	25	5	12	3	1	11	2
30-44.....	90	1	0	35	12	18	7	2	14	1
45 and over.....	16	0	2	5	1	3	1	1	3	0

See explanatory information and SOURCE(S) at end of table.

Table B-10. Scientists and engineers admitted to the United States on permanent visas, by broad occupational group, sex, age group, and region and intended State of residence: 1993

Broad occupational group, sex, and age group	Region and intended State of residence									
	East South Central, total	East South Central				West South total	West South Central			
		Alabama	Kentucky	Mississippi	Tennessee		Arkansas	Louisiana	Oklahoma	Texas
All occupational groups..	512	163	110	32	207	1,640	40	84	73	1,443
Male, total.....	401	142	84	24	151	1,332	33	70	66	1,163
Age group										
Under 30.....	94	46	18	6	24	332	11	9	11	301
30-44.....	259	81	55	15	108	824	20	49	46	709
45 and over.....	48	15	11	3	19	175	2	12	9	152
Female, total.....	111	21	26	8	56	308	7	14	7	280
Age group										
Under 30.....	28	7	6	2	13	100	3	4	1	92
30-44.....	74	13	20	6	35	177	4	9	5	159
45 and over.....	9	1	0	0	8	31	0	1	1	29
Scientists, total.....	269	89	49	16	115	616	22	19	27	548
Male, total.....	195	76	36	10	73	441	17	11	23	390
Age group										
Under 30.....	46	29	8	1	8	92	3	0	5	84
30-44.....	126	41	22	6	57	301	13	9	15	264
45 and over.....	23	6	6	3	8	48	1	2	3	42
Female, total.....	74	13	13	6	42	175	5	8	4	158
Age group										
Under 30.....	14	3	2	1	8	50	2	2	1	45
30-44.....	52	9	11	5	27	103	3	6	3	91
45 and over.....	8	1	0	0	7	22	0	0	0	22
Engineers, total.....	243	74	61	16	92	1,024	18	65	46	895
Male, total.....	206	66	48	14	78	891	16	59	43	773
Age group										
Under 30.....	48	17	10	5	16	240	8	9	6	217
30-44.....	133	40	33	9	51	523	7	40	31	445
45 and over.....	25	9	5	0	11	127	1	10	6	110
Female, total.....	37	8	13	2	14	133	2	6	3	122
Age group										
Under 30.....	14	4	4	1	5	50	1	2	0	47
30-44.....	22	4	9	1	8	74	1	3	2	68
45 and over.....	1	0	0	0	1	9	0	1	1	7

See explanatory information and SOURCE(S) at end of table.

Table B-10. Scientists and engineers admitted to the United States on permanent visas, by broad occupational group, sex, age group, and region and intended State of residence: 1993

Broad occupational group, sex, and age group	Region and intended State of residence						Outlying areas, total
	Pacific, total	Alaska	California	Hawaii	Oregon	Washington	
All occupational groups.....	7,365	12	6,740	100	148	365	99
Male, total.....	5,923	11	5,413	83	118	298	80
Age group							
Under 30.....	1,807	4	1,645	27	42	89	29
30-44.....	3,347	7	3,076	47	59	158	34
45 and over.....	769	0	692	9	17	51	17
Female, total.....	1,442	1	1,327	17	30	67	19
Age group							
Under 30.....	572	0	523	5	9	35	7
30-44.....	725	1	665	11	20	28	10
45 and over.....	145	0	139	1	1	4	2
Scientists, total.....	1,963	1	1,831	22	36	73	20
Male, total.....	1,253	1	1,167	15	23	47	8
Age group							
Under 30.....	256	0	241	3	5	7	3
30-44.....	852	1	797	11	12	31	2
45 and over.....	145	0	129	1	6	9	3
Female, total.....	710	0	664	7	13	26	12
Age group							
Under 30.....	238	0	222	3	4	9	5
30-44.....	402	0	375	4	9	14	7
45 and over.....	70	0	67	0	0	3	0
Engineers, total.....	5,402	11	4,909	78	112	292	79
Male, total.....	4,670	10	4,246	68	95	251	72
Age group							
Under 30.....	1,551	4	1,404	24	37	82	26
30-44.....	2,495	6	2,279	36	47	127	32
45 and over.....	624	0	563	8	11	42	14
Female, total.....	732	1	663	10	17	41	7
Age group							
Under 30.....	334	0	301	2	5	26	2
30-44.....	323	1	290	7	11	14	3
45 and over.....	75	0	72	1	1	1	2

KEY: S&Es = Scientists and engineers

SOURCES: National Science Foundation/SRS, using unpublished data provided by the U.S. Department of Justice/Immigration and Naturalization Service.

Table B-11. Scientists and engineers admitted to the United States on permanent visas, by region and country of last permanent residence, and by labor certification: 1993

Page 1 of 2

	Total, all immigrant S&Es	Certified	Not certified
All countries.....	23,534	7,380	16,154
Europe.....	5,671	1,124	4,547
Western Europe.....	2,923	732	2,191
Austria.....	26	8	18
Belgium.....	33	10	23
Denmark.....	41	16	25
France.....	241	86	155
Germany.....	314	72	242
Greece.....	89	26	63
Ireland.....	523	20	503
Italy.....	70	18	52
Netherlands.....	89	26	63
Norway.....	34	7	27
Spain.....	53	11	42
Sweden.....	94	28	66
Switzerland.....	82	19	63
United Kingdom.....	1,186	367	819
Other.....	48	18	30
Eastern Europe.....	2,747	392	2,355
Newly independent states of the former Soviet Union.....	1,127	96	1,031
Poland.....	1,171	172	999
Yugoslavia.....	128	37	91
Other.....	321	87	234
Asia.....	14,362	5,420	8,942
Near and Middle East.....	1,302	467	835
Iran.....	322	125	197
Iraq.....	38	6	32
Israel.....	299	134	165
Lebanon.....	140	56	84
Other.....	503	146	357
Far East.....	13,060	4,953	8,107
Hong Kong.....	545	248	297
People's Republic of China.....	4,601	1,373	3,228
India.....	3,896	1,689	2,207
Pakistan.....	254	93	161
Japan.....	208	86	122
Korea.....	235	113	122
Philippines.....	945	202	743
Taiwan.....	1,615	810	805
Other.....	761	339	422

See explanatory information and SOURCE(S) at end of table.

Table B-11. Scientists and engineers admitted to the United States on permanent visas, by region and country of last permanent residence, and by labor certification: 1993

Page 2 of 2

	Total, all immigrant S&Es	Certified	Not certified
Africa.....	549	149	400
Egypt.....	144	25	119
Other.....	405	124	281
North and Central America.....	1,895	377	1,518
Canada.....	972	278	694
Mexico.....	166	39	127
Other.....	757	60	697
South America.....	796	219	577
Argentina.....	134	52	82
Bolivia.....	18	6	12
Brazil.....	130	45	85
Chile.....	23	6	17
Colombia.....	126	31	95
Ecuador.....	43	5	38
Peru.....	130	21	109
Venezuela.....	123	38	85
Other.....	69	15	54
All other areas.....	261	91	170
Australia.....	196	70	126
New Zealand.....	54	20	34
Other.....	11	1	10

KEY: S&Es = Scientists and engineers

SOURCES: National Science Foundation/SRS, using unpublished data provided by the U.S. Department of Justice/Immigration and Naturalization Service

Table B-12. Scientists and engineers admitted to the United States on permanent visas, by labor certification status, class of admission, and fiscal year of admission: 1988-93

Labor certification status and class of admission	Fiscal year of admission											
	1988		1989		1990		1991		1992		1993	
	Total	Percent	Total	Percent	Total	Percent	Total	Percent	Total	Percent	Total	Percent
All immigrant S&Es.....	10,918	100.0%	11,868	100.0%	12,659	100.0%	14,111	100.0%	22,871	100.0%	23,534	100.0%
With labor certification												
All classes.....	4,022	36.80	4,492	37.80	4,057	32.00	4,545	32.20	7,513	32.80	7,380	31.40
Without labor certification												
All classes.....	6,896	63.20	7,376	62.20	8,602	68.00	9,566	67.80	15,358	67.20	16,154	68.60
Family-sponsored preferences...	5,490	50.30	5,887	49.60	5,940	46.90	6,046	42.80	5,503	24.10	5,767	24.50
Employment-based preferences	435	4.00	496	4.20	499	3.90	614	4.40	7,533	32.90	6,464	27.50
Refugees.....	453	4.10	613	5.20	783	6.20	1,899	13.50	853	3.70	1,027	4.40
IRCA legislation.....	0	0	0	0	0	0	0	0	0	0	0	0
Amerasian (Vietnam).....	0	0	1	0	10	0.10	18	0.10	8	0	11	0
Legalization dependents.....	0	0	0	0	0	0	0	0	90	0.40	37	0.20
Employees of U.S. businesses in Hong Kong.....	0	0	0	0	0	0	0	0	5	0	6	0
Diversity transition.....	316	2.90	327	2.80	1,324	10.50	937	6.60	1,293	5.70	1,378	5.90
Displaced Tibetans.....	0	0	0	0	0	0	0	0	0	0	3	0
Chinese Student Protection Act...	0	0	0	0	0	0	0	0	0	0	1,400	5.90
Other adjustments.....	201	1.80	51	0.40	45	0.40	52	0.40	71	0.30	59	0.30
Other new arrivals.....	1	0	1	0	1	0	0	0	2	0	2	0

KEY: S&Es = Scientists and engineers

SOURCES: National Science Foundation/SRS, using unpublished data provided by the U.S. Department of Justice/Immigration and Naturalization Service

Table B-13. Scientists and engineers from the newly independent states of the former U.S.S.R. admitted to the United States on permanent visas, by country of birth and occupation: 1993

Page 1 of 1

Country of birth	Total, all immigrant S&Es	Engineers	Natural scientists	Mathematical scientists and computer specialists	Social scientists
All newly independent state	1,165	774	219	116	56
Armenia.....	14	10	2	2	0
Azerbaijan.....	36	26	7	2	1
Belarus.....	84	75	3	2	4
Georgia.....	8	5	2	0	1
Kazakhstan.....	10	6	2	1	1
Kyrgyzstan.....	2	2	0	0	0
Moldova.....	55	37	10	5	3
Russia.....	426	233	123	54	16
Tajikistan.....	6	6	0	0	0
Turkmenistan.....	2	0	1	1	0
Ukraine.....	394	284	53	35	22
Uzbekistan.....	35	21	8	3	3
Unknown.....	93	69	8	11	5

KEY: S&Es = Scientists and engineers

SOURCE: National Science Foundation, using unpublished data provided by the U.S. Department of Justice/Immigration and Naturalization Service

Table B-14. Scientists and engineers admitted to United States on permanent visas under the Chinese Student Protection Act, by region and intended State of residence and by occupation: 1993

Page 1 of 2

Region and intended State of residence	Total, all immigrant S&Es	Engineers	Natural scientists	Mathematical scientists and computer specialists	Social scientists
All States.....	1,403	846	256	281	20
New England.....	3	0	1	2	0
Connecticut.....	2	0	0	2	0
Maine.....	0	0	0	0	0
Massachusetts.....	1	0	1	0	0
New Hampshire.....	0	0	0	0	0
Rhode Island.....	0	0	0	0	0
Vermont.....	0	0	0	0	0
Middle Atlantic.....	5	2	2	1	0
New Jersey.....	1	1	0	0	0
New York.....	2	1	1	0	0
Pennsylvania.....	2	0	1	1	0
East North Central.....	425	268	61	91	5
Illinois.....	123	71	23	29	0
Indiana.....	61	42	8	11	0
Michigan.....	94	69	7	18	0
Ohio.....	113	70	14	26	3
Wisconsin.....	34	16	9	7	2
West North Central.....	121	65	11	31	2
Iowa.....	16	7	2	6	1
Kansas.....	20	17	1	2	0
Minnesota.....	37	19	7	10	1
Missouri.....	32	15	5	12	0
Nebraska.....	10	6	1	3	0
North Dakota.....	4	0	1	3	0
South Dakota.....	2	1	0	1	0
South Atlantic.....	162	88	38	32	4
Delaware.....	0	0	0	0	0
District of Columbia.....	0	0	0	0	0
Florida.....	58	34	14	10	0
Georgia.....	43	26	7	10	0
Maryland.....	0	0	0	0	0
North Carolina.....	49	22	16	8	3
South Carolina.....	12	6	1	4	1
Virginia.....	0	0	0	0	0
West Virginia.....	0	0	0	0	0
East South Central.....	61	31	18	18	0
Alabama.....	15	4	4	7	0
Kentucky.....	25	14	4	7	0
Mississippi.....	8	3	4	1	0
Tennessee.....	19	10	6	3	0

See explanatory information and SOURCE(S) at end of table.

Table B-14. Scientists and engineers admitted to United States on permanent visas under the Chinese Student Protection Act, by region and intended State of residence and by occupation: 1993

Page 2 of 2

Region and intended State of residence	Total, all immigrant S&Es	Engineers	Natural scientists	Mathematical scientists and computer specialists	Social scientists
West South Central.....	234	146	35	47	6
Arkansas.....	8	4	0	4	0
Louisiana.....	17	13	2	1	1
Oklahoma.....	9	7	0	1	1
Texas.....	200	122	33	41	4
Mountain.....	101	54	19	26	2
Arizona.....	9	5	4	0	0
Colorado.....	42	21	10	10	1
Idaho.....	7	5	0	2	0
Montana.....	2	0	0	2	0
Nevada.....	2	1	1	0	0
New Mexico.....	4	2	1	0	1
Utah.....	32	19	3	10	0
Wyoming.....	3	1	0	2	0
Pacific.....	268	177	63	27	1
Alaska.....	2	2	0	0	0
California.....	168	105	49	13	1
Hawaii.....	8	3	5	0	0
Oregon.....	26	22	1	3	0
Washington.....	64	45	8	11	0
Outlying areas.....	0	0	0	0	0

KEY: S&Es = Scientists and engineers

SOURCES: National Science Foundation/SRS, using unpublished data provided by the U.S. Department of Justice/Immigration and Naturalization Service

Table B-15. Selected characteristics of scientists and engineers admitted to the United States on permanent visas, by year of admission: 1988-93

Selected characteristics	Fiscal year of admission											
	1988		1989		1990		1991		1992		1993	
	Total	Percent	Total	Percent	Total	Percent	Total	Percent	Total	Percent	Total	Percent
All immigrant S&Es.....	10,918	100	11,868	100	12,659	100	14,111	100	22,871	100	23,534	100
Age group												
Under 30.....	3,585	32.80	3,943	33.20	3,909	30.90	4,202	29.80	6,613	28.90	6,576	27.90
30-44.....	5,847	53.60	6,357	53.60	6,982	55.20	7,810	55.30	13,411	58.60	13,828	58.80
45 and over.....	1,486	13.60	1,568	13.20	1,768	14.00	2,098	14.90	2,845	12.40	3,129	13.30
Marital status												
Married.....	7,911	72.50	8,411	70.90	9,039	71.40	10,470	74.20	16,970	74.20	17,825	75.70
Unmarried.....	3,007	27.50	3,457	29.10	3,620	28.60	3,641	25.80	5,901	25.80	5,709	24.30
Sex												
Male.....	9,251	84.70	9,992	84.20	10,516	83.10	11,535	81.70	18,305	80.00	18,511	78.70
Female.....	1,667	15.30	1,876	15.80	2,130	16.80	2,573	18.20	4,555	19.90	5,020	21.30
Type of case												
Adjustment-of status..	4,843	44.40	5,498	46.30	5,422	42.80	6,962	49.30	14,875	65.00	16,130	68.50
New arrival.....	6,075	55.60	6,370	53.70	7,237	57.20	7,149	50.70	7,996	35.00	7,404	31.50
Labor certification												
Certified.....	4,022	36.80	4,492	37.80	4,057	32.00	4,545	32.20	7,513	32.80	7,380	31.40
Not certified.....	6,896	63.20	7,376	62.20	8,602	68.00	9,566	67.80	15,358	67.20	16,154	68.60

KEY: S&Es = Scientists and engineers

SOURCES: National Science Foundation/SRS, using unpublished data provided by the U.S. Department of Justice/Immigration and Naturalization Service

Table B-16. Selected characteristics of scientists, engineers, technologists(1), and technicians admitted to United States on permanent visas under the Chinese Student Protection Act: 1993

Page 1 of 1

Selected characteristics	Engineers		Scientists		Technologists and technicians	
	Total	Percent	Total	Percent	Total	Percent
All S&Es, technologists, and technicians.....	846	100.00%	557	100.00%	654	100.00%
Age group						
Under 30.....	167	19.70	87	15.60	114	17.40
30-44.....	584	69.00	406	72.90	447	68.30
45 and over.....	94	11.10	64	11.50	90	13.80
Marital status						
Married.....	634	74.90	463	83.10	535	81.80
Unmarried.....	212	25.10	94	16.90	119	18.20
Sex						
Male.....	680	80.40	372	66.80	381	58.30
Female.....	166	19.60	185	33.20	273	41.70
Labor certification						
Certified.....	1	0.10	2	0.40	1	0.20
Not certified.....	845	99.90	555	99.60	653	99.80

1/ Occupations providing technical assistance in engineering and scientific research, development, testing, and related activities.

KEY: S&Es = Scientists and engineers

SOURCES: National Science Foundation/SRS, using unpublished data provided by the U.S. Department of Justice/Immigration and Naturalization Service

SECTION C

DETAILED STATISTICAL TABLES — TECHNOLOGISTS AND TECHNICIANS

SECTION C. DETAILED STATISTICAL TABLES: TECHNOLOGISTS AND TECHNICIANS

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Table C-1. Selected characteristics of technologists^{1/} and technicians admitted to the United States on permanent visas, by region of birth: 1993

Selected characteristics	Total, all technologists and technicians	Region of birth							
		Western Europe	Eastern Europe	Near and Middle East	Far East	Africa	North and Central America	South America	All other areas
All technologists and technicians.....	10,234	920	3,414	421	3,322	297	1,427	367	66
Age group									
Under 30.....	3,235	483	1,002	142	864	96	516	107	25
30-44.....	5,551	375	1,830	217	2,003	166	717	206	37
45 and over.....	1,443	62	581	62	452	35	194	53	4
Marital status									
Married.....	7,894	566	2,833	294	2,643	226	981	294	57
Unmarried.....	2,340	354	581	127	679	71	446	73	9
Male, total.....	6,458	689	1,858	312	2,108	207	980	257	47
Female, total.....	3,776	231	1,556	109	1,214	90	447	110	19
Type of case									
Adjustment-of status.....	4,524	337	876	217	2,394	173	368	127	32
New arrival.....	5,710	583	2,538	204	928	124	1,059	240	34
Labor certification									
Certified.....	1,373	97	281	107	697	46	78	57	10
Not certified.....	8,861	823	3,133	314	2,625	251	1,349	310	56

^{1/}Occupations providing technical assistance in engineering and scientific research, development, testing, and related activities.

SOURCES: National Science Foundation/SRS, using unpublished data provided by the U.S. Department of Justice/Immigration and Naturalization Service

Table C-2. Selected characteristics of technologists^{1/} and technicians admitted to the United States on permanent visas, by region and country of last permanent residence: 1993

Selected characteristics	Total, all technologists and technicians	Region of last permanent residence							
		Western Europe	Eastern Europe	Near and Middle East	Far East	Africa	North and Central America	South America	All other areas
All technologists and technicians.....	10,234	920	3,414	421	3,322	297	1,427	367	66
Age group									
Under 30.....	3,235	483	1,002	142	864	96	516	107	25
30-44.....	5,551	375	1,830	217	2,003	166	717	206	37
45 and over.....	1,443	62	581	62	452	35	194	53	4
Marital status									
Married.....	7,894	566	2,833	294	2,643	226	981	294	57
Unmarried.....	2,340	354	581	127	679	71	446	73	9
Male, total.....	6,458	689	1,858	312	2,108	207	980	257	47
Female, total.....	3,776	231	1,556	109	1,214	90	447	110	19
Type of case									
Adjustment-of status..	4,524	337	876	217	2,394	173	368	127	32
New arrival.....	5,710	583	2,538	204	928	124	1,059	240	34
Labor certification									
Certified.....	1,373	97	281	107	697	46	78	57	10
Not certified.....	8,861	823	3,133	314	2,625	251	1,349	310	56

^{1/} Occupations providing technical assistance in engineering and scientific research, development, testing, and related activities.

SOURCES: National Science Foundation/SRS, using unpublished data provided by the U.S. Department of Justice/Immigration and Naturalization Service

Table C-3. Selected characteristics of technologists ^{1/} and technicians admitted to the United States on permanent visas, by region and intended State of residence: 1993

Selected characteristics	Total, all technologists and technicians	Region and Intended State of Residence							
		New England, total	New England					Rhode Island	Vermont
			Connecticut	Maine	Massachusetts	New Hampshire			
All technologists and technicians.....	10,234	568	233	5	269	9	42	10	
Age group									
Under 30.....	3,235	222	90	1	110	3	12	6	
30-44.....	5,551	289	121	4	134	5	21	4	
45 and over.....	1,443	57	22	0	25	1	9	0	
Marital status									
Married.....	7,894	409	176	4	189	8	26	6	
Unmarried.....	2,340	159	57	1	80	1	16	4	
Male, total.....	6,458	337	131	1	165	3	31	6	
Female, total.....	3,776	231	102	4	104	6	11	4	
Type of case									
Adjustment of status.....	4,524	157	58	1	78	4	10	6	
New arrival.....	5,710	411	175	4	191	5	32	4	
Labor certification									
Certified.....	1,373	46	14	0	26	0	4	2	
Not certified.....	8,861	522	219	5	243	9	38	8	

See explanatory information and SOURCE(S) at end of table.

Table C-3. Selected characteristics of technologists ^{1/} and technicians admitted to the United States on permanent visas, by region and intended State of residence: 1993

Selected characteristics	Region and Intended State of Residence									
	Middle Atlantic, total	Middle Atlantic			East North Central, total	East North Central				
		New Jersey	New York	Pennsylvania		Illinois	Indiana	Michigan	Ohio	Wisconsin
All technologists and technicians.....	3,066	946	1830	290	1,800	1,26	70	212	176	75
Age group										
Under 30.....	1,010	316	0.00	79	537	395	15	65	44	18
30-44.....	1,623	508	0.00	172	986	673	41	116	108	48
45 and over.....	433	122	0.00	39	275	199	14	31	22	9
Marital status										
Married.....	2,309	725	0.00	228	1,477	1,027	63	178	146	62
Unmarried.....	757	221	0.00	62	323	239	7	34	30	13
Male, total.....	1,903	568	0.00	187	1,018	687	46	129	108	48
Female, total.....	1,163	378	0.00	103	782	580	24	83	68	27
Type of case										
Adjustment-of status.....	909	330	396	183	612	218	62	143	138	51
New arrival.....	2,157	616	0.00	107	1,188	1,047	8	69	38	24
Labor certification										
Certified.....	407	120	0.00	70	195	124	9	33	26	3
Not certified.....	2,659	826	0.00	220	1,605	1,147	61	179	150	72

See explanatory information and SOURCE(S) at end of table.

Table C-3. Selected characteristics of technologists ^{1/} and technicians admitted to the United States on permanent visas, by region and intended State of residence: 1993

Selected characteristics	Region and Intended State of Residence							
	West North Central, total	West North Central						
		Iowa	Kansas	Minnesota	Missouri	Nebraska	North Dakota	South Dakota
All technologists and technicians.....	288	49	37	87	76	33	5	1
Age group								
Under 30.....	91	10	14	33	18	13	3	0
30-44.....	168	33	17	46	51	18	2	1
45 and over.....	29	6	6	8	7	2	0	0
Marital status								
Married.....	251	45	31	71	70	29	5	0
Unmarried.....	37	4	6	16	6	4	0	1
Male, total.....	176	31	21	52	46	23	2	1
Female, total.....	112	18	16	35	30	10	3	0
Type of case								
Adjustment-of status.....	234	43	27	70	63	28	3	0
New arrival.....	54	6	10	17	13	5	2	1
Labor certification								
Certified.....	45	6	3	23	10	3	0	0
Not certified.....	243	43	34	64	66	30	5	1

See explanatory information and SOURCE(S) at end of table.

Table C-3. Selected characteristics of technologists ^{1/} and technicians admitted to the United States on permanent visas, by region and intended State of residence: 1993

Selected characteristics	Region and Intended State of Residence									
	South Atlantic, total	South Atlantic								
		Delaware	District of Columbia	Florida	Georgia	Maryland	North Carolina	South Carolina	Virginia	West Virginia
All technologists and technicians.....	1,35	24	35	635	81	259	103	31	183	6
Age group										
Under 30.....	381	6	9	193	23	59	25	9	56	1
30-44.....	764	14	18	323	49	171	63	19	104	3
45 and over.....	210	4	8	118	9	29	14	3	23	2
Marital status										
Married.....	1,05	20	23	495	60	195	89	28	143	6
Unmarried.....	298	4	12	140	21	64	14	3	40	0
Male, total.....	880	13	26	408	46	177	61	15	131	3
Female, total.....	477	11	9	227	35	82	42	16	52	3
Type of case										
Adjustment-of status	802	20	18	337	47	163	81	19	113	4
New arrival.....	555	4	17	298	34	96	22	12	70	2
Labor certification										
Certified.....	231	11	7	53	11	85	27	3	34	0
Not certified.....	1,12	13	28	582	70	174	76	28	149	6

See explanatory information and SOURCE(S) at end of table.

Table C-3. Selected characteristics of technologists ^{1/} and technicians admitted to the United States on permanent on permanent visas, by region and intended State of residence: 1993

Selected characteristics	Region and Intended State of Residence									
	East South Central, total	East South Central				West South Central, total	West South Central			
		Alabama	Kentucky	Mississippi	Tennessee		Arkansas	Louisiana	Oklahoma	Texas
All technologists and technicians.....	143	28	27	17	71	672	25	47	20	580
Age group										
Under 30.....	52	7	11	2	32	202	7	13	3	179
30-44.....	81	17	14	12	38	387	13	30	17	327
45 and over.....	9	4	2	2	1	83	5	4	0	74
Marital status										
Married.....	117	23	24	15	55	543	19	35	18	471
Unmarried.....	26	5	3	2	16	129	6	12	2	109
Male, total.....	87	11	13	13	50	473	15	31	10	417
Female, total.....	56	17	14	4	21	199	10	16	10	163
Type of case										
Adjustment-of status	114	18	23	16	57	509	21	40	14	434
New arrival.....	29	10	4	1	14	163	4	7	6	146
Labor certification										
Certified.....	29	6	0	5	18	96	9	17	3	67
Not certified.....	114	22	27	12	53	576	16	30	17	513

See explanatory information and SOURCE(S) at end of table.

Table C-3. Selected characteristics of technologists ^{1/} and technicians admitted to the United States on permanent on permanent visas, by region and intended State of residence: 1993

Selected characteristics	Region and Intended State of Residence								
	Mountain, total	Mountain							
		Arizona	Colorado	Idaho	Montana	Nevada	New Mexico	Utah	Wyoming
All technologists and technicians.....	267	53	102	14	5	23	16	49	5
Age group									
Under 30.....	86	17	29	4	3	8	6	18	1
30-44.....	140	27	58	10	2	10	4	25	4
45 and over.....	41	9	15	0	0	5	6	6	0
Marital status									
Married.....	220	39	86	12	5	17	13	43	5
Unmarried.....	47	14	16	2	0	6	3	6	0
Male, total.....	168	39	64	10	3	15	9	25	3
Female, total.....	99	14	38	4	2	8	7	24	2
Type of case									
Adjustment of status.....	178	25	85	9	3	8	8	39	1
New arrival.....	89	28	17	5	2	15	8	10	4
Labor certification									
Certified.....	10	4	1	0	0	2	1	1	1
Not certified.....	257	49	101	14	5	21	15	48	4

See explanatory information and SOURCE(S) at end of table.

Table C-3. Selected characteristics of technologists ^{1/} and technicians admitted to the United States on permanent on permanent visas, by region and intended State of residence: 1993

Selected characteristics	Region and Intended State of Residence						Outlying areas, total
	Pacific, total	Pacific					
		Alaska	California	Hawaii	Oregon	Washington	
All technologists and technicians.....	1,87	8	1,63	41	40	156	111
Age group							
Under 30.....	583	4	500	15	18	46	43
30-44.....	1,00	3	882	19	20	85	59
45 and over.....	286	1	251	7	2	25	9
Marital status							
Married.....	1,35	7	1,17	29	29	121	78
Unmarried.....	519	1	460	12	11	35	33
Male, total.....	1,27	5	1,10	28	29	108	86
Female, total.....	601	3	526	13	11	48	25
Type of case							
Adjustment-of status	953	2	807	21	21	102	16
New arrival.....	925	6	826	20	19	54	95
Labor certification							
Certified.....	304	0	291	6	2	5	2
Not certified.....	1,57	8	1,34	35	38	151	109

^{1/} Occupations providing technical assistance in engineering and scientific research, development, testing, and related activities.

SOURCES: National Science Foundation/SRS, using unpublished data provided by the U.S. Department of Justice/Immigration and Naturalization Service

Table C-4. Selected characteristics of technologists and technicians^{1/} admitted to the United States on permanent visas, by fiscal year of admission: 1988-93

Selected characteristics	Fiscal year of admission											
	1988		1989		1990		1991		1992		1993	
	Total	Percent	Total	Percent	Total	Percent	Total	Percent	Total	Percent	Total	Percent
All technologists and technicians.....	6,134	100	6,119	100	6,184	100	7,001	100	8,092	100	10,234	100
Age group												
Under 30.....	2,378	38.8	2,375	38.8	2,271	36.7	2,308	33.0	2,515	31.1	3,235	31.6
30-44.....	3,070	50.0	3,041	49.7	3,144	50.8	3,725	53.2	4,481	55.4	5,551	54.2
45 and over.....	686	11.2	703	11.5	769	12.4	967	13.8	1,096	13.5	1,443	14.1
Marital status												
Married.....	4,211	68.7	4,250	69.5	4,349	70.3	5,086	72.6	6,146	76.0	7,894	77.1
Unmarried.....	1,923	31.3	1,869	30.5	1,835	29.7	1,915	27.4	1,946	24.0	2,340	22.9
Sex												
Male.....	4,359	71.1	4,194	68.5	4,401	71.2	4,825	68.9	5,161	63.8	6,458	63.1
Female.....	1,775	28.9	1,925	31.5	1,778	28.8	2,176	31.1	2,926	36.2	3,776	36.9
Type of case												
Adjustment-of status.....	2,336	38.1	2,193	35.8	2,179	35.2	3,024	43.2	3,475	42.9	4,524	44.2
New arrival.....	3,798	61.9	3,926	64.2	4,005	64.8	3,977	56.8	4,617	57.1	5,710	55.8
Labor certification												
Certified.....	861	14.0	908	14.8	678	11.0	664	9.5	1,338	16.5	1,373	13.4
Not certified.....	5,273	86.0	5,211	85.2	5,506	89.0	6,337	90.5	6,754	83.5	8,861	86.6

^{1/} Occupations providing technical assistance in engineering and scientific research, development, testing, and related activities.

SOURCES: National Science Foundation/SRS, using unpublished data provided by the U.S. Department of Justice/Immigration and Naturalization Service

Table C-5. Technologists and technicians from the newly independent states of the former U.S.S.R. admitted to the United States on permanent visas, by country of birth and occupation: 1993

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Country of birth	Total, all technologists and technicians	Technologists and technicians, except health	Health technologists and technicians
All newly independent states.....	715	629	86
Armenia.....	15	12	3
Azerbaijan.....	26	23	3
Belarus.....	60	51	9
Georgia.....	5	4	1
Kazakhstan.....	4	2	2
Kyrgyzstan.....	2	2	0
Moldova.....	46	42	4
Russia.....	213	195	18
Tajikistan.....	3	3	0
Turkmenistan.....	0	0	0
Ukraine.....	257	224	33
Uzbekistan.....	26	20	6
Unknown.....	58	51	7

KEY: S&Es = Scientists and engineers

SOURCES: National Science Foundation/SRS, using unpublished data provided by the U.S. Department of Justice/Immigration and Naturalization Service

Table C-6. Technologists and technicians^{1/} admitted to the United States on permanent visas, by region and country of last permanent residence and by region of birth: 1993

09

Region and country of last permanent residence	Total, all technologists and technicians	Region of birth							
		Western Europe	Eastern Europe	Near and Middle East	Far East	Africa	North and Central America	South America	All other areas
All countries.....	10,234	920	3,414	421	3,322	297	1,427	367	66
Europe.....	4,389	864	3,377	51	51	25	15	4	2
Western Europe.....	1,039	858	37	48	51	25	14	4	2
Austria.....	17	4	4	8	0	1	0	0	0
Belgium.....	14	12	1	1	0	0	0	0	0
Denmark.....	13	12	1	0	0	0	0	0	0
France.....	39	26	1	4	5	2	1	0	0
Germany.....	121	84	8	14	11	2	2	0	0
Greece.....	39	28	5	4	1	0	0	0	1
Ireland.....	308	306	1	0	0	1	0	0	0
Italy.....	33	23	8	1	0	1	0	0	0
Netherlands.....	33	28	2	1	1	1	0	0	0
Norway.....	25	20	0	0	3	1	1	0	0
Spain.....	20	11	0	0	1	0	6	2	0
Sweden.....	31	28	0	3	0	0	0	0	0
Switzerland.....	23	20	1	0	1	1	0	0	0
United Kingdom.....	307	241	5	12	27	15	4	2	1
Other.....	16	15	0	0	1	0	0	0	0
Eastern Europe.....	3,350	6	3,340	3	0	0	1	0	0
Newly Independent States of the Former Soviet Union.....	703	0	699	3	0	0	1	0	0
Poland.....	2,463	6	2,457	0	0	0	0	0	0
Yugoslavia.....	40	0	40	0	0	0	0	0	0
Other.....	144	0	144	0	0	0	0	0	0
Asia.....	3,577	12	21	358	3,171	11	1	2	1
Near and Middle East.....	406	6	21	351	21	4	1	2	0
Iran.....	123	0	1	122	0	0	0	0	0
Iraq.....	8	0	0	8	0	0	0	0	0
Israel.....	99	0	18	75	1	3	0	2	0

See explanatory information and SOURCE(S) at end of table.

Table C-6. Technologists and technicians^{1/} admitted to the United States on permanent visas, by region and country of last permanent residence and by region of birth: 1993

Region and country of last permanent residence	Total, all technologists and technicians	Region of birth							
		Western Europe	Eastern Europe	Near and Middle East	Far East	Africa	North and Central America	South America	All other areas
Asia (continued)									
Lebanon.....	49	0	0	49	0	0	0	0	0
Other.....	127	6	2	97	20	1	1	0	0
Far East.....	3,171	6	0	7	3,150	7	0	0	1
Hong Kong.....	150	1	0	0	149	0	0	0	0
People's Republic of China.....	1,379	2	0	0	1,376	1	0	0	0
India.....	518	1	0	1	510	6	0	0	0
Pakistan.....	41	0	0	4	37	0	0	0	0
Japan.....	42	1	0	1	39	0	0	0	1
Korea.....	93	0	0	0	93	0	0	0	0
Philippines.....	457	1	0	1	455	0	0	0	0
Taiwan.....	254	0	0	0	254	0	0	0	0
Other.....	237	0	0	0	237	0	0	0	0
Africa.....	276	7	2	1	9	256	0	0	1
Egypt.....	39	0	0	1	1	37	0	0	0
Other.....	237	7	2	0	8	219	0	0	1
North and Central America.....	1,547	29	12	9	72	3	1,404	15	3
Canada.....	334	25	11	9	66	3	209	9	2
Mexico.....	119	1	0	0	0	0	115	2	1
Other.....	1,094	3	1	0	6	0	1,080	4	0
South America.....	361	3	1	0	4	1	6	346	0
Argentina.....	37	0	1	0	1	0	0	35	0
Bolivia.....	8	0	0	0	0	0	0	8	0
Brazil.....	26	1	0	0	1	1	0	23	0
Chile.....	16	0	0	0	0	0	0	16	0

See explanatory information and SOURCE(S) at end of table.

Table C-6. Technologists and technicians^{1/} admitted to the United States on permanent visas, by region and country of last permanent residence and by region of birth: 1993

Region and country of last permanent residence	Total, all technologists and technicians	Region of birth							
		Western Europe	Eastern Europe	Near and Middle East	Far East	Africa	North and Central America	South America	All other areas
South America (continued)									
Colombia.....	89	0	0	0	0	0	1	88	0
Ecuador.....	28	0	0	0	0	0	0	28	0
Peru.....	56	0	0	0	0	0	1	55	0
Venezuela.....	42	2	0	0	1	0	4	35	0
Other.....	59	0	0	0	1	0	0	58	0
All other areas.....	84	5	1	2	15	1	1	0	59
Australia.....	54	3	1	1	11	1	1	0	36
New Zealand.....	18	2	0	0	2	0	0	0	14
Other.....	12	0	0	1	2	0	0	0	9

^{1/} Occupations providing technical assistance in engineering and scientific research, development, testing, and related activities.

SOURCES: National Science Foundation/SRS, using unpublished data provided by the U.S. Department of Justice/Immigration and Naturalization Service

Table C-7. Technologists and technicians ^{1/} admitted to the United States on permanent visas, by region and State of intended residence and by region of birth: 1993

Region and intended State of residence	Total, all technologists and technicians	Region of birth							
		Western Europe	Eastern Europe	Near and Middle East	Far East	Africa	North and Central America	South America	All other areas
All States.....	10,234	920	3414	421	3322	297	1427	367	66
New England.....	568	108	256	19	77	15	72	19	2
Connecticut.....	233	20	160	5	31	1	6	10	0
Maine.....	5	0	2	0	0	0	3	0	0
Massachusetts.....	269	76	80	13	42	9	41	7	1
New Hampshire.....	9	3	1	0	1	1	2	0	1
Rhode Island.....	42	6	9	1	2	4	18	2	0
Vermont.....	10	3	4	0	1	0	2	0	0
Middle Atlantic.....	3,066	230	1330	45	678	59	593	123	8
New Jersey.....	946	67	420	17	277	27	102	35	1
New York.....	1,830	127	808	21	295	22	470	82	5
Pennsylvania.....	290	36	102	7	106	10	21	6	2
East North Central.....	1,800	71	1154	39	446	29	36	22	3
Illinois.....	1,267	28	1011	15	177	14	11	10	1
Indiana.....	70	1	14	1	47	0	6	1	0
Michigan.....	212	15	75	17	76	7	15	7	0
Ohio.....	176	18	40	4	100	8	2	3	1
Wisconsin.....	75	9	14	2	46	0	2	1	1
West North Central.....	288	19	55	12	179	8	6	6	3
Iowa.....	49	1	14	1	32	0	0	0	1
Kansas.....	37	3	4	4	23	1	2	0	0
Minnesota.....	87	5	12	3	55	3	4	4	1
Missouri.....	76	7	13	1	49	3	0	2	1

See explanatory information and SOURCE(S) at end of table.

Table C-7. Technologists and technicians ^{1/} admitted to the United States on permanent visas, by region and State of intended residence and by region of birth: 1993

Region and intended State of residence	Total, all technologists and technicians	Region of birth							
		Western Europe	Eastern Europe	Near and Middle East	Far East	Africa	North and Central America	South America	All other areas
West North Central (continued)									
Nebraska.....	33	3	8	3	18	1	0	0	0
North Dakota.....	5	0	4	0	1	0	0	0	0
South Dakota.....	1	0	0	0	1	0	0	0	0
South Atlantic.....	1,357	157	165	60	448	83	328	108	8
Delaware.....	24	2	1	1	14	3	1	0	2
District of Columbia.....	35	1	1	5	8	8	11	1	0
Florida.....	635	71	95	13	102	11	275	66	2
Georgia.....	81	14	8	4	40	7	5	3	0
Maryland.....	259	25	19	20	135	25	15	19	1
North Carolina.....	103	15	16	2	52	4	10	1	3
South Carolina.....	31	9	4	1	10	1	5	1	0
Virginia.....	183	18	19	14	85	24	6	17	0
West Virginia.....	6	2	2	0	2	0	0	0	0
East South Central.....	143	24	17	7	75	2	10	6	2
Alabama.....	28	4	0	4	17	0	2	1	0
Kentucky.....	27	5	7	1	11	1	1	1	0
Mississippi.....	17	0	0	0	14	0	1	2	0
Tennessee.....	71	15	10	2	33	1	6	2	2
West South Central.....	672	70	53	38	372	33	78	24	4
Arkansas.....	25	3	4	1	14	0	3	0	0
Louisiana.....	47	5	2	3	22	2	9	4	0
Oklahoma.....	20	3	1	1	12	1	2	0	0
Texas.....	580	59	46	33	324	30	64	20	4

See explanatory information and SOURCE(S) at end of table.

Table C-7. Technologists and technicians ¹⁷ admitted to the United States on permanent visas, by region and State of intended residence and by region of birth: 1993

Region and intended State of residence	Total, all technologists and technicians	Region of birth							
		Western Europe	Eastern Europe	Near and Middle East	Far East	Africa	North and Central America	South America	All other areas
Mountain.....	267	46	45	10	114	6	35	4	7
Arizona.....	53	15	13	2	13	1	8	0	1
Colorado.....	102	22	19	3	40	3	9	2	4
Idaho.....	14	0	0	1	8	1	3	1	0
Montana.....	5	0	0	0	1	0	3	0	1
Nevada.....	23	4	3	1	9	1	5	0	0
New Mexico.....	16	2	1	2	9	0	2	0	0
Utah.....	49	2	9	1	32	0	3	1	1
Wyoming.....	5	1	0	0	2	0	2	0	0
Pacific.....	1,878	183	323	185	884	61	164	51	27
Alaska.....	8	2	4	0	2	0	0	0	0
California.....	1,633	161	285	181	751	49	138	48	20
Hawaii.....	41	5	0	0	34	0	1	1	0
Oregon.....	40	7	5	1	20	2	3	1	1
Washington.....	156	8	29	3	77	10	22	1	6
Outlying areas.....	111	0	0	0	18	1	90	2	0

¹⁷ Occupations providing technical assistance in engineering and scientific research, development, testing, and related activities.

SOURCES: National Science Foundation/SRS, using unpublished data provided by the U.S. Department of Justice/Immigration and Naturalization Service

Table C-8. Technologists and Technicians^{1/} admitted to the United States on permanent visas under the Chinese Student Protection Act, by region and intended State of residence and by occupation: 1993

Page 1 of 2

Region and intended State of residence	Total, all technologists and technicians	Health technologists and technicians	Technologists and technicians, except health
All states.....	654	58	596
New England.....	1	0	1
Connecticut.....	0	0	0
Maine.....	0	0	0
Massachusetts.....	1	0	1
New Hampshire.....	0	0	0
Rhode Island.....	0	0	0
Vermont.....	0	0	0
Middle Atlantic.....	2	1	1
New Jersey.....	1	1	0
New York.....	1	0	1
Pennsylvania.....	0	0	0
East North Central.....	196	4	192
Illinois.....	73	1	72
Indiana.....	23	0	23
Michigan.....	34	2	32
Ohio.....	41	1	40
Wisconsin.....	25	0	25
West North Central.....	85	2	83
Iowa.....	12	0	12
Kansas.....	9	1	8
Minnesota.....	24	0	24
Missouri.....	29	1	28
Nebraska.....	10	0	10
North Dakota.....	1	0	1
South Dakota.....	0	0	0
South Atlantic.....	60	10	50
Delaware.....	0	0	0
District of Columbia.....	0	0	0
Florida.....	19	5	14
Georgia.....	18	4	14
Maryland.....	0	0	0
North Carolina.....	21	1	20
South Carolina.....	2	0	2
Virginia.....	0	0	0
West Virginia.....	0	0	0
East South Central.....	29	3	26
Alabama.....	8	1	7
Kentucky.....	6	0	6
Mississippi.....	5	0	5
Tennessee.....	10	2	8

See explanatory information and SOURCE(S) at end of table.

Table C-8. Technologists and Technicians^{1/} admitted to the United States on permanent visas under the Chinese Student Protection Act, by region and intended State of residence and by occupation: 1993

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Region and intended State of residence	Total, all technologists and technicians	Health technologists and technicians	Technologists and technicians, except health
West South Central.....	84	20	64
Arkansas.....	1	0	1
Louisiana.....	6	1	5
Oklahoma.....	4	0	4
Texas.....	73	19	54
Mountain.....	39	1	38
Arizona.....	5	0	5
Colorado.....	16	1	15
Idaho.....	2	0	2
Montana.....	0	0	0
Nevada.....	2	0	2
New Mexico.....	1	0	1
Utah.....	12	0	12
Wyoming.....	1	0	1
Pacific.....	151	17	140
Alaska.....	0	0	0
California.....	111	9	102
Hawaii.....	8	3	5
Oregon.....	7	0	7
Washington.....	31	5	26
Outlying areas.....	0	0	0

^{1/} Occupations providing technical assistance in engineering and scientific research, development, testing, and related activities.

SOURCES: National Science Foundation/SRS, using unpublished data provided by the U.S. Department of Justice/Immigration and Naturalization Service

APPENDIX A.

IMMIGRATION REGULATIONS

The regulations pursuant to the Immigration Act of 1990 (the act) as amended, underlie the data that appear in this report. The act restructured the immigrant categories of admission and made other modifications to the act. It also divided the preference classes into two general categories: family-sponsored and employment-based. Limits on the number of visas issued in these two categories are determined annually.

The act specified that the family-sponsored limit may not go below a minimum of 226,000 in any year. The number of legal permanent residents issued visas or who adjusted in fy 92 under categories: 1) immediate relatives of U.S. citizens; 2) children born subsequent to the issuance of a visa to an accompanying parent, and 3) children born abroad to lawful permanent residents on temporary trips abroad, plus certain unused preferences in the previous fiscal year.

A total of 12,000 visas may be issued annually during fiscal years 1991-93 to employees of certain businesses operating in Hong Kong and their spouses and children. The number of unused visas in 1991 and 1993 were added to the 1993 limit. The number of visas issued in 1991-92 was 5,210, so the 1993 limit is 30,790.

The act also established a preference system for persons subject to the worldwide limitation as follows:

FAMILY-SPONSORED

PREFERENCES: 232,483⁵

First - Unmarried sons and daughters of U.S. citizens and their children (23,400).

Second - Spouses, children, and unmarried sons and daughters of permanent resident aliens. Spouses and children received at least 77 percent of the visas issued. The remaining visas are issued to unmarried

sons and daughters who were at least 21 years of age (120,683).

Third - Married sons and daughters of U.S. citizens and their spouses and children (23,400).

Fourth - Brothers and sisters of U.S. citizens that were at least 21 years of age and their spouses and children (65,000).

EMPLOYMENT- BASED

PREFERENCES: 161,207

First - Priority workers and their spouses and children. Priority workers are persons of extraordinary ability; outstanding professors and researchers; and certain multinational executives and managers (46,105).

Second - Professionals with advanced degrees or aliens of exceptional ability and their spouses and children (46,105).

Third - Skilled workers, professionals (without advanced degrees), needed unskilled workers, and their spouses and children. (46,105) The number of unskilled workers is limited to 10,000.

Fourth - Special immigrants and their spouses and children. (11,446) The number of certain religious workers is limited to 5,000.

Fifth - Employment creation ("investors") and their spouses and children (11,446).

Other numerically limited immigrants specified in the Immigration Act of 1990:

⁵ Ibid.,p.A.2-3, table A, "Immigration Limits: Fiscal Year 1993."

- Spouses and children of aliens legalized under the Immigration Reform and Control Act (IRCA) of 1986 (55,000);
- Aliens from countries “adversely affected” by the Immigration and Nationality Act Amendments of 1965 and their spouses and children (41,019);
- Displaced Tibetans and their spouses and children (554);
- Asylees and their spouses and children (10,000); and
- Employees of certain U.S. businesses operating in Hong Kong and their spouses and children (30,790).