

NATIONAL CENTER ON IMMIGRANT INTEGRATION POLICY

Brain Waste in the Washington State Workforce: Select Labor Force Characteristics of College-Educated Native-Born and Foreign-Born Adults

Research by the Migration Policy Institute (MPI) in the United States and Europe has demonstrated the challenges facing foreign-educated individuals who seek high-skilled employment that utilizes their talents and professional experience. In the United States, these challenges include difficulties in obtaining recognition of professional experiences and credentials earned from educational institutions abroad, acquiring professional-level English skills, navigating costly or time-consuming recertification processes, and building professional networks and U.S. iob search skills.

This fact sheet on Washington State is part of a series that assesses the extent of "brain waste" in the United States and twelve key states—that is, the number of college-educated immigrant² and native-born adults ages 25 and older who are either unemployed or have jobs that are significantly below their education and skill levels. The fact sheet also provides calculations of underutilization³ of education among immigrant and native-born professionals in Washington State with engineering, nursing, and teaching degrees at the undergraduate level.

Among the key findings:

- 32,500, or 19 percent, of the nearly 167,000 college-educated immigrants ages 25 and older in the civilian labor force in Washington State are affected by brain waste—e.g. are in low-skilled jobs or are unemployed, according to MPI analysis of the most recent U.S. Census Bureau American Community Survey data.
- Brain waste particularly affects the foreign born in Washington State who earned their bachelor's degrees abroad, with 23 percent in low-skilled jobs or unemployed.
- 18 percent of the state's college-educated immigrants who obtained their academic degree abroad worked in low-skilled jobs, compared to 13 percent of college-educated native-born workers.

See, for example: Jeanne Batalova and Michael Fix with Peter A. Creticos, *Uneven Progress: The Employment Pathways of Skilled Immigrants in the United States* (Washington, DC: Migration Policy Institute, 2008), www.migrationpolicy.org/research/uneven-progress-employment-pathways-skilled-immigrants-united-states; Madeleine Sumption, *Tackling Brain Waste: Strategies to Improve the Recognition of Immigrants' Foreign Qualifications* (Washington, DC: Migration Policy Institute, 2013), http://migrationpolicy.org/research/tackling-brain-waste-strategies-improve-recognition-immigrants%E2%80%99-foreign-qualifications.

^{2.} The terms *immigrant* and *foreign born* are used interchangeably, and describe persons who had no U.S. citizenship at birth. This population includes naturalized citizens, lawful permanent residents (LPRs), certain legal nonimmigrants (e.g., persons on student or work visas), those admitted under refugee or asylee status, and persons illegally residing in the United States; the native born are persons born in the United States, U.S. outlying territories, or abroad to at least one U.S. citizen parent.

^{3.} The terms *brain waste* and *skill underutilization* are used interchangeably and describe a phenomenon when college-educated persons are either unemployed or employed in *low-skilled jobs*, i.e., jobs that require only moderate on-the-job training or less, such as nursing, psychiatric, and home health aides, personal care aides, maids and housekeeping cleaners, taxi and truck drivers, and cashiers.

I. Number and Share of College-Educated Adults in the Washington State Labor Force by Nativity and Place of Education⁴

More than 1 million adults ages 25 and older engaged in Washington State's civilian labor force have at least a bachelor's degree, according to the most recent American Community Survey (ACS) data from the U.S. Census Bureau. Of these adults, 167,000 are college-educated immigrants. While immigrants represent 13 percent of the overall Washington State population, they account for 16 percent of the college-educated civilian labor force.

We estimate that about 85,000 (or 51 percent) of the 167,000 college-educated immigrants obtained their education abroad, with the remaining 82,000 U.S.-educated. Each group makes up about 8 percent of the overall Washington State college-educated civilian labor force.

Table 1. College-Educated Adults in the Washington Civilian Labor Force, by Nativity and Place of Education

	Native Born	Foreign Born			
		Total	Foreign-Educated Immigrants	U.SEducated Immigrants	
College-educated civilian labor force	898,600	166,900	84,600	82,300	
Share of foreign-born by place of education	1		51%	49%	
Share of the total college- educated by nativity	84%	16%	8%	8%	

Source: Migration Policy Institute (MPI) tabulation of U.S. Census Bureau pooled 2010-12 American Community Survey (ACS) data.

^{4.} College-educated civilian labor force: defined as civilian adults ages 25 and older with at least a bachelor's degree who were either employed or unemployed but looking for work. Civilian labor force excludes members of the armed forces (Army, Navy, Air Force, Coast Guard, and Marines); Place of education: The ACS survey does not ask for respondents' place of education. We use the following definitions: foreign-educated immigrants are immigrants who have at least a bachelor's degree and who arrived to the United States at the age 25 or older; U.S.-educated immigrants are immigrants with at least a BA and who arrived to the United States before age 25.

II. College-Educated Native-Born and Foreign-Born Adults in Washington State by Job Skill and Place of Education with Number and Share Affected by Brain Waste

Among both native-born and foreign-born college-educated adults, a majority of individuals are employed in high-skilled positions. About 533,000 (59 percent) of native-born workers are employed in high-skilled positions, with 117,000 (13 percent) employed in low-skilled positions. Among the foreign born, a slightly larger share—61 percent or 33,000—is employed in high-skilled jobs, with about 25,000 (15 percent) in low-skilled jobs. Among college-educated immigrants, those educated in the United States are more likely to be employed in high-skilled jobs than those with foreign credentials (58 percent versus 63 percent). The greatest disparity exists between foreign-educated immigrants and their native-born and U.S.-educated counterparts: 18 percent of foreign-educated college graduates who are immigrants are employed in low-skilled jobs versus 13 percent and 12 percent of their U.S.-educated counterparts (native born and foreign born respectively).

Comparing college-educated native- and foreign-born individuals who are either employed in low-skilled jobs or unemployed, one finds that foreign-born individuals are also more generally affected by brain waste, with 19 percent in low-skilled jobs or unemployed compared to 18 percent of the native born. Among the foreign-born labor force, those educated abroad are again more likely to be affected by brain waste, with 23 percent in low-skilled jobs or unemployed compared to 18 percent of native-born college-educated adults and 16 percent of U.S.-educated immigrants.

Table 2. College-Educated Native-Born and Foreign-Born Adults in Washington State, by Job Skill and Place of Education with Number and Share Affected by Brain Waste

	Native Born	Foreign Born		
		Total	Foreign- Educated Immigrants	U.S Educated Immigrants
College-educated labor force	898,600	166,900	84,600	82,300
	100%	100%	100%	100%
Employed workers by job skill				
High-skilled	532,600	101,300	49,100	52,200
Share high-skilled	59%	61%	58%	63%
Middle-skilled	208,200	33,000	16,200	16,900
Share middle-skilled	23%	20%	19%	21%
Low-skilled	116,700	24,800	15,100	9,600
Share low-skilled	13%	15%	18%	12%
Unemployed	41,000	7,700	4,100	3,600
Share unemployed	5%	5%	5%	4%
Affected by brain waste				
Number (i.e., in low-skilled jobs or unemployed)	157,800	32,500	19,300	13,200
Share	18%	19%	23%	16%

Notes: High-skilled jobs require at least a four-year bachelor's degree plus a substantial amount of work-related skills, knowledge, or experience; Middle-skilled jobs typically require that workers have trained in vocational schools, have related on-the-job experience, or hold an associate's degree; Low-skilled jobs require only moderate on-the-job training or less. Unemployed refers to those adults who do not have a job but are looking for work.

Source: MPI tabulation of U.S. Census Bureau pooled 2010-12 ACS data.

III. Number and Share of Immigrants in Washington State with Engineering, Nursing, or Teaching Degrees Earned at the Undergraduate Level

Immigrants account for 16 percent of the Washington State college-educated labor force, but they are overrepresented among workers with bachelor's degrees in engineering and underrepresented among workers with bachelor's degrees in nursing and teaching. Of the roughly 116,000 college-educated individuals who earned a bachelor's degree in engineering, about 37,000 or 32 percent are foreign born. Among the 37,000 individuals with undergraduate degrees in nursing, almost 6,000 (15 percent) are foreign born. However, immigrants are significantly underrepresented among those with teaching degrees—accounting for only about 9,000 or 8 percent of individuals in the workforce with a bachelor's degree focused on teaching.

Table 3. Number and Share of Immigrants in Washington State with Undergraduate Engineering, Nursing, or Teaching Degrees

	Total College- Educated Labor Force	Foreign Born	Foreign-Born Share (%)
Persons with engineering major **	116,300	37,200	32%
Persons with nursing major***	36,800	5,700	15%
Persons with teaching major ****	106,100	8,700	8%

Notes: The ACS requests degree major information only at the bachelor's level. If a respondent earned a master's degree the subject area would not be reflected in the data; if a respondent earned two bachelor's degrees, each would be counted separately.

** Engineering or engineering technologies was indicated as the degree of field at the bachelor of arts (BA) or the bachelor of science (BS) level; *** Nursing was indicated as the degree of field at the BA/BS level; **** Education was indicated as the degree of field at the BA/BS level (e.g., general, elementary, early childhood, secondary teacher, or special needs education, mathematics, science, and computer teacher education, art and music education).

Source: MPI tabulation of U.S. Census Bureau pooled 2010-12 ACS data.

IV. Adults in Washington State Who Earned Bachelor's Degrees in Engineering, Nursing, or Teaching by Job Skill, Nativity, and Place of Education for Foreign Born

Engineering/engineering technology major college graduates. Though the majority of individuals with engineering degrees at the undergraduate level in Washington State tend to be employed in high-skilled positions, significant disparities exist among native-born and foreign-born college graduates, especially for engineers who were educated abroad. Foreign-educated immigrant engineers are almost twice as likely to be employed in a low-skilled job (11 percent) as their native-born counterparts (6 percent); while 84 percent of U.S.-trained immigrant engineers are employed in high-skilled positions, only 72 percent of those educated abroad are.

Nursing major college graduates. Foreign-educated immigrants with a nursing bachelor's degree are more than four times more likely to have a low-skilled job (18 percent) than their U.S.-born counterparts (4 percent), and 14 percent work in high-skilled positions (compared to 22 percent of native-born college-graduates with a nursing degree). While U.S.-educated immigrant nurses are just as likely as those educated abroad to work in a high-skilled position (about 14 percent each), only 7 percent work in low-skilled positions.

Teaching major college graduates. Data on the underemployment of foreign-educated teachers show the greatest disparities of all three fields. Just under one-third of foreign-educated immigrant teachers (32 percent) have low-skilled jobs, making them almost three times more likely than U.S.-born teachers to be employed in low-skilled jobs. And while 69 percent of U.S.-born individuals with teaching degrees are employed in high-skilled jobs, only 34 percent of foreign-educated immigrants with a teaching degree and 47 percent of those educated in the United States hold high-skilled positions.

Table 4. Adults in Washington State with Bachelor's Degrees in Engineering, Nursing, or Teaching by Job Skill, Nativity, and Place of Education for Foreign Born

	Native Born	Foreign- Educated Immigrants	U.SEducated Immigrants
Persons with engineering major at the BA/BS level**	79,100	20,100	17,100
High-skilled	78%	72%	84%
Middle-skilled	13%	14%	10%
Low-skilled	6%	11%	4%
Unemployed	3%	3%	2%
Persons with nursing major at the BA/BS level***	31,100	2,800	2,800
High-skilled	22%	14%	14%
Middle-skilled	73%	61%	79%
Low-skilled	4%	18%	7%
Unemployed	2%	7%	4%
Persons with teaching major at the BA/BS level****	97,400	5,300	3,400
High-skilled	69%	34%	47%
Middle-skilled	16%	26%	26%
Low-skilled	11%	32%	21%
Unemployed	4%	6%	3%

Notes: The ACS requests degree major information only at the bachelor's level. If a respondent earned a master's degree the subject area would not be reflected; if a respondent earned two bachelor's degrees each would be counted separately.

Source: MPI tabulation of U.S. Census Bureau pooled 2010-12 American Community Survey data.

^{**} Engineering or engineering technologies was indicated as the degree of field at the bachelor's level; *** Nursing was indicated as the degree of field at the bachelor's level; e.g., general, elementary, early childhood, secondary teacher, or special needs education, mathematics, science, and computer teacher education, art and music education).

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For questions or to arrange an interview, please contact Michelle Mittelstadt at 202-266-1910 or mmittelstadt@migrationpolicy.org.

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