
International Graduate Applications and Enrollment: Fall 2018

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HIGHLIGHTS

- ❖ The number of international graduate applications received by institutions participating in the CGS International Graduate Admissions Survey declined by 4% between Fall 2017 and Fall 2018, while first-time graduate enrollment decreased by 1%. (Tables 9 and 11)
- ❖ There was no change in the number of graduate applications and first-time enrollments from Chinese nationals at participating institutions between Fall 2017 and Fall 2018; graduate applications from Indian nationals declined by 12% and first-time enrollment declined by 2%. (Tables 9 and 11)
- ❖ First-time graduate enrollment at participating institutions declined between Fall 2017 and Fall 2018 for the Middle East & North Africa (-12%), Oceania (-10%), and Europe (-3%). (Table 11)
- ❖ Although first-time graduate enrollment at participating institutions from Latin America & Caribbean as an aggregate increased (5%) between Fall 2017 and Fall 2018, first-time enrollment of Brazilian (-3%) and Mexican (-1%) graduate students declined. (Table 11)
- ❖ First-time graduate enrollment of Sub-Saharan African graduate students at participating institutions continued to grow with a 5% increase between Fall 2017 and Fall 2018. (Table 11)
- ❖ Across broad fields of study, including other fields (8%), mathematics and computer sciences (6%), and health sciences (5%) international graduate applications increased between Fall 2017 and Fall 2018. By contrast, engineering (-16%), physical & earth sciences (-9%), and business (-8%) experienced decreases in international graduate applications during this period (Table 10). Despite the decline in first-time enrollment over the past year, engineering (25%) still had the largest share of international graduate applications in Fall 2018. (Table 2)
- ❖ Between Fall 2017 and Fall 2018, the largest one-year decreases in first-time international graduate enrollment by broad field of study were in public administration & services (-27%) and physical & earth sciences (-13%). (Table 12)

Contents

HIGHLIGHTS	3
KEY TAKEAWAYS	5
DATA TABLES	9
Final Applications by Region and Selected Country of Origin, Fall 2018	9
Final Applications by Broad Field of Study, Fall 2018.....	10
Offers of Admission, Fall 2018.....	10
First-time International Graduate Enrollment by Region/Select Country of Origin, Fall 2018.....	12
First-time International Graduate Enrollment by Broad Field of Study, Fall 2018	13
Total International Graduate Enrollment, Fall 2018.....	13
Changes in Final Applications between Fall 2017 and Fall 2018	15
Changes in First-time Enrollment between Fall 2017 and Fall 2018.....	16
NOTES AND DEFINITIONS	18
About the CGS International Graduate Admissions Survey	18
Data Analysis Methods.....	18
Definitions.....	20
References	21
List of Institutions Contributing Fall 2018 Data.....	22
End Note.....	25

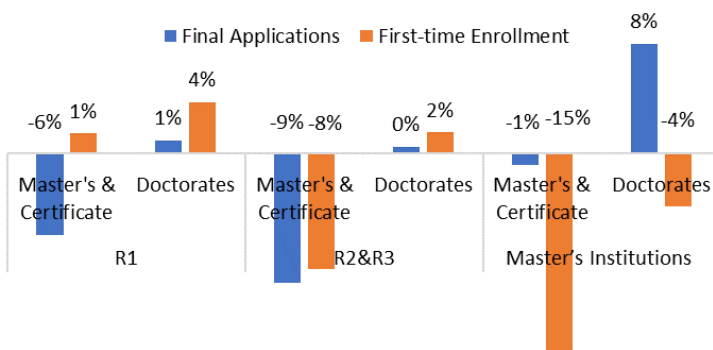
KEY TAKEAWAYS

Uncertainty over U.S. visa policies, political rhetoric regarding immigration, and strained relations with China have emerged as potential impediments to the continued free flow of international scholars and graduate students. In addition, changing economies in countries of origin and preferences for specific types of universities and fields of study also influence international enrollment trends. While this report does not directly investigate all of these factors, the CGS International Graduate Admissions Survey has been, since 2004, a reliable first look at application and enrollment patterns for master's and doctoral students coming to the United States from abroad. Here we offer some high-level takeaway points from the Fall 2018 admission cycle.

International Graduate Application Counts Declined Two Years in a Row

Based on 240 institutions who contributed data for both Fall 2017 and Fall 2018, the number of graduate applications from prospective international students declined by 4%. By comparison, between Fall 2016 and Fall 2017, the number of graduate applications declined by 3% (Table 9). This overall decline was driven by the 6% decline in master's applications; the number of doctoral applications actually increased by 1% between Fall 2017 and Fall 2018. Declines in master's applications were particularly pronounced at Doctoral Universities with Highest Research Activity (n = 66, -6%), other Doctoral Universities (n = 81, -9%), and Master's Colleges and Universities and Other Institutions (n = 93, -1%) between Fall 2017 and Fall 2018 (Figure 1).

Figure 1. Annual Changes in International Graduate Applications and First-time Enrollment by Degree Objective and Institutional Type, Fall 2017 to Fall 2018



Notes: R1=Doctoral Universities: Highest Research Activity, R2&R3= Doctoral Universities: Higher or Moderate Research Activity, Master's Institutions=Master's Colleges and Universities and Other Institutions.
Data Source: Council of Graduate Schools, International Graduate Applications and Enrollment, Fall 2018.

First-time Graduate Enrollment at Doctorate-granting Universities is Up

In contrast to international graduate applications, first-time enrollment decreased only slightly between Fall 2017 and Fall 2018 (-1%), despite the decline in master's first-time enrollment (-2%). Doctoral first-time enrollment of international graduate students increased by 3% overall. Although master's first-time enrollment declined overall, at Doctoral Universities with Highest Research Activity, first-time enrollment for master's degrees increased by 1%. The overall decline of master's first-time enrollment appears to be driven by -8% decline at the other types of Doctorate-granting Universities and the 15% decline at Master's Colleges and Universities and Other Institutions. Overall, both Doctoral Universities with Highest Research Activity (4%) and other international graduate enrollment experienced increases at the doctoral level between Fall 2017 and Fall 2018.

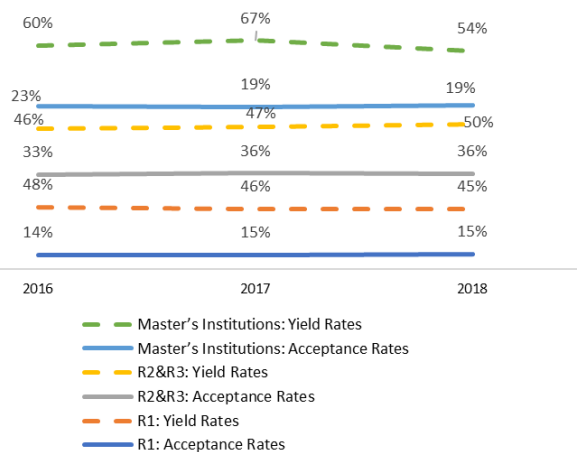
Master's Colleges and Universities and Other Institutions, however, saw first-time international graduate enrollment decline by 4% at the doctoral level (Figure 1).

Aggregated International Graduate Application Acceptance Rates and Yield Rates

Despite declines in international graduate application counts and first-time international enrollment, the aggregated international graduate application acceptance rates and yield rates for Fall 2018 were similar to those of Fall 2017 across degree level and institutional types. At the doctoral level, there was no change in the aggregated international graduate application acceptance rates across institutional types for Fall 2018, compared to those in Fall 2017. The doctoral aggregated yield rates at Master's Colleges and Universities and Other Institutions in Fall 2018 was lower (54%), compared to the 67% in Fall 2017 (Figure 2).

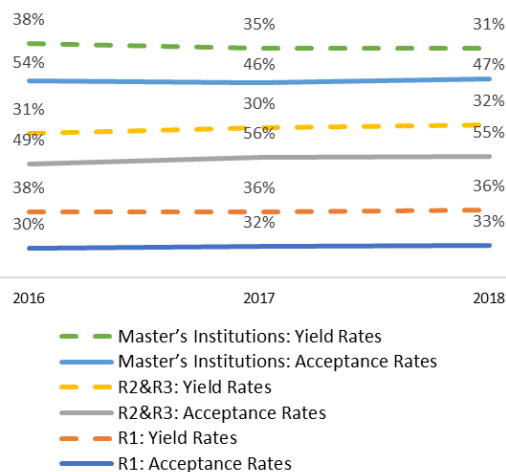
At the master's and certificate level at Master's Colleges and Universities and Other Institutions, the aggregated international graduate application acceptance rate and yield rate was 47% and 31% for Fall 2018, compared to 46% and 35% in Fall 2017. Moreover, the aggregated yield rates of master's degrees at Doctoral Universities with Highest Research Activity were 36% for both Fall 2017 and Fall 2018. These aggregated international graduate application acceptance rates and yield rates suggest that the international graduate admissions process remains competitive in the United States. (Figure 3).

Figure 2. Aggregated International Doctoral Application Acceptance Rate and Yield Rate by Institutional Type, Fall 2016 to Fall 2018



Notes: R1=Doctoral Universities: Highest Research Activity, R2&R3= Doctoral Universities: Higher or Moderate Research Activity, Master's Institutions=Master's Colleges and Universities and Other Institutions. Data Source: Council of Graduate Schools, International Graduate Applications and Enrollment, Fall 2018.

Figure 3. Aggregated International Master's Application Acceptance Rate and Yield Rate by Institutional Type, Fall 2016 to Fall 2018



Notes: R1=Doctoral Universities: Highest Research Activity, R2&R3= Doctoral Universities: Higher or Moderate Research Activity, Master's Institutions=Master's Colleges and Universities and Other Institutions.

China and India

Unsurprisingly, China and India continue to send the two largest numbers of international graduate students to the United States. In this year's report, China surpassed India by 11 percentage points. Graduate applications from Chinese nationals did not change between Fall 2017 and Fall 2018, in comparison applications from Indian nationals decreased by 12%. First-time enrollment of Indian nationals decreased by 2% between Fall 2017 and Fall 2018 while first-time enrollment of Chinese nationals did not change (Tables 9 and 11). In fact, 42% of first-time international master's & certificate students and 34% of first-time international doctoral students were Chinese nationals in Fall 2018 (Table 5).

By comparison, 31% and 13% respectively, were Indian first-time master's & certificate students and Indian first-time doctoral students. This stands in contrast to Fall 2015, when both Chinese and Indian nationals comprised 36% of first-time international graduate enrollment (Table 5). In Fall 2015, the U.S. graduate schools in this study received more master's & certificate program applications from Indian nationals (40%) than Chinese nationals (39%). However, in Fall 2018, the number of master's & certificate applications from Chinese nationals (47%) surpassed those from Indian nationals (34%) by more than double-digits (Table 1).

Sub-Saharan African Nations

Between the Fall 2017 and Fall 2018 admission cycles, applications and first-time enrollment of Sub-Saharan African graduate students increased by 28% and 5% respectively (Tables 9 and 11). A relatively small share of international students at U.S. graduate schools participating in this study were from countries in the Sub-Saharan Africa region (3%), compared to Middle Eastern & North African countries (7%) and Latin American & Caribbean countries (6%) (Table 7). However, particularly in master's & certificate programs, their presence appears to be growing. In Fall 2018, 4% of first-time international master's & certificate enrollment was from Sub-Saharan African students, compared to 5% from Latin American & Caribbean students and 3% from Middle Eastern & North African students (Table 5).

In terms of percent shares by degree objectives, in Fall 2018, 71% of graduate applications and 74% of first-time graduate enrollments from Sub-Saharan African students were at the master's and certificate level (Tables 1 and 5).

Mexico and Canada

The U.S. graduate schools in this study received fewer graduate applications from our neighbor to the south (-4%) between Fall 2017 and Fall 2018. There was no change in the number of applications received from Canadian nationals. The application numbers from Mexican students declined for a second year, but the decline was smaller this year than in the previous one. First-time enrollment of Mexican graduate students dropped by 1% between Fall 2017 and Fall 2018. The rate of decline was smaller in comparison to the 10% decline between Fall 2016 and Fall 2017. However, this is also in contrast to the Latin American & Caribbean region as a whole, where the U.S. graduate schools in this study saw a 4% increase in applications and 5% increase in overall first-time enrollments. First-time graduate enrollment of Canadian students increased by 6% between Fall 2017 and Fall 2018 (Tables 9 and 11).

Middle East and North Africa

Graduate applications from Middle Eastern & North African students to U.S. graduate schools in this study fell by 14% between the Fall 2017 and Fall 2018 admission cycles. This was a slower rate of decline as compared to the prior cycle; however, the number of graduate applications from prospective Iranian students declined by 27% this year. Graduate applications from Saudi Arabian students also decreased between Fall 2017 and Fall 2018, but at a more modest rate (-6%) (Table 9). However, first-time enrollment of Saudi Arabian students dropped by 21%, a larger decline than for their Iranian counterparts (-8%) (Table 11). In Fall 2018, only 1% of first-time students in master's & certificate programs were Saudi Arabian nationals, compared to the 2% share in doctoral programs in Fall 2018 (Table 5).

Europe

The number of graduate applications from European students declined by 13% between Fall 2017 and Fall 2018. First-time enrollment of European graduate students at U.S. graduate schools participating in this study also decreased by 3%. This is in contrast to the substantial 18% increase in applications to U.S. graduate schools between Fall 2016 and Fall 2017 (Tables 9 and 11). In terms of overall composition of international graduate students in the United States in Fall 2018, European students' share shrunk to 6% of all first-time international graduate students and 5% of all first-time students in master's & certificate programs, in comparison to 7% of all first-time international graduate students and 6% of all first-time students in master's & certificate programs in the previous fall. They still constitute 10% of first-time doctoral students, surpassing Middle Eastern & North African students (9%) (Table 5).

Final Thoughts

For two consecutive Fall semesters, graduate applications from prospective international students declined at U.S. graduate schools participating in this study; however, first-time graduate enrollment appears to be holding relatively constant. Nationally, China and India—the two most populous nations in the world—remain, unsurprisingly, as the two largest countries of origin for international graduate students. However, institutions may want to consider strategies that broaden and diversify countries of origin for their international graduate students, so their enrollment trends are not disproportionately dependent on any particular country. It should also be noted that international graduate enrollment trends differ at the master's and doctoral levels and across different types of universities.

The national, aggregate data in this report are essential indicators and benchmarks for decision making at institutions, as well as good starting points for campus conversations about enrollment management and international graduate recruitment strategies. Indeed, we offer some conversation starters in this area (Okahana & Zhou, 2018). However, these data points are most useful when augmented and interpreted along with appropriate institutional contexts. Given the number of institutions engaging in concerted efforts to recruit and support international graduate students, there may be approaches and initiatives that work particularly well. We encourage those institutions to look to those promising practices in addition to national trends.

DATA TABLES

Final Applications by Region and Selected Country of Origin, Fall 2018

Prospective Chinese and Indian students accounted for 71% of the more than 749,000 international graduate applications received by institutions responding to the 2018 CGS International Graduate Admissions Survey, with graduate applications submitted by Indian nationals accounting for 27% of all international applications. Chinese nationals (47%) increased their share of master's and certificate applications by five percentage points last year, while the share of Indian nationals' (34%) master's and certificate applications declined by one percentage point. Prospective Chinese graduate students sent more than one third of the total international doctoral applications (39%) during the Fall 2018 admission cycle, topping India by more than 25 percentage points. Iranian nationals accounted for 5% of international applications for doctoral programs, a decrease of two percentage points from the 2017 admission cycle.

For those applicants whose degree levels were reported, overall, about two thirds (66%) submitted applications for master's and certificate programs, and 34% submitted applications for doctoral degree programs. The vast majority of graduate applications from Indian nationals (83%) continue to be for master's and certificate programs. In contrast, a large majority of applications from Iran (81%) and the Republic of Korea (South Korea, 70%) were for doctoral programs. Similarly, 60% of applications from Europe were also for doctoral programs (Table 1).

Table 1: Final International Graduate Applications by Region/Country of Origin, Fall 2018 Admission Cycle

	% Shares by Region/Country of Origin			% Shares by Degree Objective	
	Total	Master's & Certificate	Doctorates	Master's & Certificate	Doctorates
Total	749,329	498,111	251,218	66%	34%
Asia	81%	85%	72%	69%	31%
<i>China</i>	44%	47%	39%	70%	30%
<i>India</i>	27%	34%	13%	83%	17%
<i>Japan</i>	1%	1%	1%	64%	36%
<i>South Korea</i>	4%	2%	8%	30%	70%
<i>Taiwan</i>	3%	3%	3%	65%	35%
Europe	5%	3%	8%	40%	60%
Latin America & Caribbean	3%	3%	4%	55%	45%
<i>Brazil</i>	1%	1%	1%	57%	43%
<i>Mexico</i>	1%	0%	1%	56%	44%
Middle East & North Africa	5%	3%	10%	39%	61%
<i>Iran</i>	2%	1%	5%	19%	81%
<i>Saudi Arabia</i>	2%	1%	2%	56%	44%
North America (Canada only)	1%	1%	2%	53%	47%
Oceania	0%	0%	0%	52%	48%
Sub-Saharan Africa	4%	4%	3%	71%	29%

Data Source: 2018 CGS International Graduate Admissions Survey: Final Applications, Admissions, and Enrollment

NOTE: Not all responding institutions provided valid data for country/region of origin, field of study, or degree objectives.

Final Applications by Broad Field of Study, Fall 2018

By fields of study, engineering continues to receive the most applications from international students for both master's and certificate programs (26%) and doctoral programs (24%). However, the percentage share of engineering applications among all international applications declined for both types of degrees from the last admission cycle. At the master's and certificate level, mathematics & computer sciences (30%) applications increased their share among all international applications by two percentage points compared to Fall 2017.

While master's applications were concentrated in three specific fields – engineering, mathematics & computer science, and business – the pattern for doctoral applications was somewhat more distributed. After engineering, the top four fields of study for international doctoral applicants were mathematics & computer sciences (15%), social & behavioral sciences (15%), biological & agricultural sciences (12%), and physical & earth sciences (12%).

For those applicants whose degree objective levels were reported, the vast majority of applicants in the fields of business (85%), mathematics & computer sciences (79%), public administration & services (79%), and engineering (67%) applied for master's and certificate programs. By contrast, applications for basic science fields, such as physical & earth sciences (86%), biological & agricultural sciences (69%), and social & behavioral sciences (61%), were more likely for doctoral programs (Table 2).

Table 2: Final International Graduate Applications by Field of Study, Fall 2018 Admission Cycle

	% Shares by Field of Study			% Shares by Degree Objective	
	Total	Master's & Certificate	Doctorates	Master's & Certificate	Doctorates
Total	749,329	498,111	251,218	66%	34%
Arts & Humanities	5%	4%	7%	54%	46%
Biological & Agricultural Sciences	6%	3%	12%	31%	69%
Business	14%	18%	6%	85%	15%
Education	2%	2%	2%	65%	35%
Engineering	25%	26%	24%	67%	33%
Health Sciences	3%	3%	4%	60%	40%
Mathematics & Computer Sciences	25%	30%	15%	79%	21%
Physical & Earth Sciences	5%	1%	12%	14%	86%
Public Administration & Services	1%	1%	1%	79%	21%
Social & Behavioral Sciences	9%	5%	15%	39%	61%
Other Fields	6%	7%	3%	83%	17%

Data Source: 2018 CGS International Graduate Admissions Survey: Final Applications, Admissions, and Enrollment

NOTE: Not all responding institutions provided valid data for country/region of origin, field of study, or degree objectives.

Offers of Admission, Fall 2018

Over eight in ten (82%) offers of admission made to prospective international graduate students during the Fall 2018 admission cycle were for master's and certificate programs. Compared to applications, a disproportionate share of admissions offers were made for master's and certificate programs over doctoral programs. Regions/countries of origin with higher concentrations of doctoral applications did not necessarily receive offers of admission in the same proportion. For example, 60% of graduate applications from European nationals were made in doctoral programs, but only 38% of offers of admission were for doctoral programs. Similarly, more than two thirds (70%) of graduate applications from South Korean nationals were for doctoral programs, but only 44% of admission offers were for doctoral programs (Tables 1 and 3).

Table 3: Offers of Admission to International Graduate Applicants by Region/Country of Origin, Fall 2018 Admission Cycle

	% Shares by Region/Country of Origin			% Shares by Degree Objective	
	Total	Master's & Certificate	Doctorates	Master's & Certificate	Doctorates
Total	228,841	186,794	42,047	82%	18%
Asia	81%	84%	68%	84%	16%
<i>China</i>	42%	44%	36%	84%	16%
<i>India</i>	30%	34%	12%	92%	8%
<i>Japan</i>	1%	1%	1%	83%	17%
<i>South Korea</i>	3%	2%	6%	56%	44%
<i>Taiwan</i>	2%	2%	2%	82%	18%
Europe	5%	4%	10%	62%	38%
Latin America & Caribbean	4%	4%	6%	73%	27%
<i>Brazil</i>	1%	1%	1%	70%	30%
<i>Mexico</i>	1%	1%	1%	74%	26%
Middle East & North Africa	5%	3%	10%	57%	43%
<i>Iran</i>	2%	1%	6%	34%	66%
<i>Saudi Arabia</i>	1%	1%	2%	68%	32%
North America (Canada only)	1%	1%	2%	72%	28%
Oceania	0%	0%	1%	68%	32%
Sub-Saharan Africa	4%	4%	3%	84%	16%

Data Source: 2018 CGS International Graduate Admissions Survey: Final Applications, Admissions, and Enrollment

NOTE: Not all responding institutions provided valid data for country/region of origin, field of study, or degree objectives.

Table 4: Offers of Admission to International Graduate Applicants by Field of Study, Fall 2018 Admission Cycle

	% Shares by Field of Study			% Shares by Degree Objective	
	Total	Master's & Certificate	Doctorates	Master's & Certificate	Doctorates
Total	228,841	186,794	42,047	82%	18%
Arts & Humanities	4%	4%	7%	69%	31%
Biological & Agricultural Sciences	4%	3%	10%	55%	45%
Business	16%	19%	3%	97%	3%
Education	3%	3%	3%	79%	21%
Engineering	28%	28%	29%	80%	20%
Health Sciences	3%	3%	4%	76%	24%
Mathematics & Computer Sciences	22%	24%	15%	87%	13%
Physical & Earth Sciences	3%	1%	13%	25%	75%
Public Administration & Services	1%	1%	1%	90%	10%
Social & Behavioral Sciences	7%	6%	12%	68%	32%
Other Fields	8%	8%	3%	91%	9%

Data Source: 2018 CGS International Graduate Admissions Survey: Final Applications, Admissions, and Enrollment

NOTE: Not all responding institutions provided valid data for country/region of origin, field of study, or degree objectives.

First-time International Graduate Enrollment by Region/Select Country of Origin, Fall 2018

Of the over 84,000 first-time international graduate students enrolled in U.S. institutions in the Fall of 2018, approximately three quarters (77%) were from Asia, including Chinese nationals (40%), Indian nationals (27%), South Korean nationals (3%), Taiwanese nationals (3%), and Japanese nationals (1%). The shares of both Chinese nationals and Indian nationals increased from the Fall 2017 figure. However, the representation of Asian international students remains substantial in master's and certificate programs, accounting for 81% of all first-time students, with China and India claiming 42% and 31% of the shares, respectively. China's share of first-time doctoral students (34%) is larger than that of India (13%), the Middle East & North Africa region (9%), and Europe (10%).

In terms of degree objectives of international graduate students, first-time Indian graduate students were predominantly (89%) in master's and certificate programs. Similar to the international graduate applications data, three quarters (73%) of first-time graduate enrollment of Iranian nationals were in doctoral programs. In contrast, 69% of first-time Saudi Arabian graduate students in Fall 2018 were enrolled in master's and certificate programs (Table 5).

Table 5: First-time International Graduate Enrollment by Region/Country of Origin, Fall 2018 Admission Cycle

	% Shares by Region/Country of Origin			% Shares by Degree Objective	
	Total	Master's & Certificate	Doctorates	Master's & Certificate	Doctorates
Total	84,325	64,914	19,411	77%	23%
Asia	77%	81%	67%	79%	21%
China	40%	42%	34%	80%	20%
India	27%	31%	13%	89%	11%
Japan	1%	1%	1%	81%	19%
South Korea	3%	2%	6%	54%	46%
Taiwan	3%	3%	2%	79%	21%
Europe	6%	5%	10%	63%	37%
Latin America & Caribbean	6%	5%	7%	70%	30%
Brazil	1%	1%	2%	68%	33%
Mexico	1%	1%	1%	72%	28%
Middle East & North Africa	5%	3%	9%	53%	47%
Iran	1%	0.5%	5%	27%	73%
Saudi Arabia	2%	1%	2%	69%	31%
North America (Canada only)	2%	2%	2%	74%	26%
Oceania	0.4%	0.4%	0%	78%	22%
Sub-Saharan Africa	4%	4%	4%	74%	26%

Data Source: 2018 CGS International Graduate Admissions Survey: Final Applications, Admissions, and Enrollment

NOTE: Not all responding institutions provided valid data for country/region of origin, field of study, or degree objectives.

First-time International Graduate Enrollment by Broad Field of Study, Fall 2018

Not surprisingly, the fields of business (95%), public administration & services (86%), and mathematics & computer sciences (85%) had high concentrations of first-time international students in master’s and certificate programs in Fall 2018. By contrast, doctoral first-time students accounted for 77% of international graduate students in physical & earth sciences and 50% in biological & agricultural sciences. This pattern largely mirrors what was found for all first-time graduate students, including U.S. citizens & permanent residents, in the Fall 2016 version of this report (Okahana, 2017).

While nearly three quarters of first-time master’s and certificate students were in the fields of engineering (23%), mathematics and computer sciences (23%), and business (22%), doctoral students were spread across a more diverse range of disciplines. Engineering (28%) continues to be the field of choice for first-time doctoral enrollment; however, four fields, mathematics & computer sciences (14%), physical & earth sciences (12%), biological & agricultural sciences (11%), and social & behavioral sciences (10%), also have sizeable numbers of first-time doctoral students (Table 6).

Table 6: First-time International Graduate Enrollment by Field of Study, Fall 2018 Admission Cycle

	% Shares by Field of Study			% Shares by Degree Objective	
	Total	Master's & Certificate	Doctorates	Master's & Certificate	Doctorates
Total	84,325	64,914	19,411	77%	23%
Arts & Humanities	5%	5%	7%	68%	32%
Biological & Agricultural Sciences	5%	3%	11%	50%	50%
Business	18%	22%	4%	95%	5%
Education	4%	4%	3%	77%	23%
Engineering	24%	23%	28%	72%	28%
Health Sciences	4%	4%	6%	67%	33%
Mathematics & Computer Sciences	21%	23%	14%	85%	15%
Physical & Earth Sciences	4%	1%	12%	23%	77%
Public Administration & Services	1%	1%	1%	86%	14%
Social & Behavioral Sciences	7%	6%	10%	64%	36%
Other Fields	8%	9%	4%	88%	12%

Data Source: 2018 CGS International Graduate Admissions Survey: Final Applications, Admissions, and Enrollment

NOTE: Not all responding institutions provided valid data for country/region of origin, field of study, or degree objectives.

Total International Graduate Enrollment, Fall 2018

Chinese nationals constituted the largest share (36%) of international graduate students with more than 246,000 graduate students enrolled in Fall 2018 at institutions participating in this survey. In addition, Chinese graduate students make up the largest percentage (39%) of international master’s and certificate students. Engineering fields lead all other fields of study by a substantial margin with respect to total enrollment, consistent with application counts, offers of admission, and first-time enrollment. Approximately three out of ten international graduate students—both master’s and certificate students (23%) and doctoral students (30%)—enrolled in an engineering field (Tables 7 and 8).

Table 7: Total International Graduate Enrollment by Region/Country of Origin, Fall 2018 Admission Cycle

	% Shares by Region/Country of Origin			% Shares by Degree Objective	
	Total	Master's & Certificate	Doctorates	Master's & Certificate	Doctorates
Total	246,369	142,719	103,650	58%	42%
Asia	73%	79%	65%	62%	38%
<i>China</i>	36%	39%	34%	60%	40%
<i>India</i>	24%	33%	12%	78%	22%
<i>Japan</i>	1%	1%	1%	59%	41%
<i>South Korea</i>	4%	3%	6%	34%	66%
<i>Taiwan</i>	3%	3%	2%	58%	42%
Europe	7%	5%	10%	41%	59%
Latin America & Caribbean	6%	6%	7%	52%	48%
<i>Brazil</i>	1%	1%	2%	48%	52%
<i>Mexico</i>	1%	1%	1%	54%	46%
Middle East & North Africa	7%	4%	12%	33%	67%
<i>Iran</i>	3%	1%	6%	16%	84%
<i>Saudi Arabia</i>	2%	2%	2%	53%	47%
North America (Canada only)	2%	2%	2%	50%	50%
Oceania	0%	0%	1%	50%	50%
Sub-Saharan Africa	3%	3%	3%	58%	42%

Data Source: 2018 CGS International Graduate Admissions Survey: Final Applications, Admissions, and Enrollment

NOTE: Not all responding institutions provided valid data for country/region of origin, field of study, or degree objectives.

Table 8: Total International Graduate Enrollment by Field of Study, Fall 2018 Admission Cycle

	% Shares by Field of Study			% Shares by Degree Objective	
	Total	Master's & Certificate	Doctorates	Master's & Certificate	Doctorates
Total	246,369	142,719	103,650	58%	42%
Arts & Humanities	6%	5%	8%	48%	52%
Biological & Agricultural Sciences	7%	3%	12%	28%	72%
Business	14%	21%	3%	91%	9%
Education	4%	5%	4%	64%	36%
Engineering	26%	23%	30%	51%	49%
Health Sciences	4%	4%	5%	52%	48%
Mathematics & Computer Sciences	18%	23%	13%	71%	29%
Physical & Earth Sciences	6%	1%	12%	14%	86%
Public Administration & Services	1%	1%	1%	72%	28%
Social & Behavioral Sciences	7%	6%	10%	43%	57%
Other Fields	6%	8%	4%	75%	25%

Data Source: 2018 CGS International Graduate Admissions Survey: Final Applications, Admissions, and Enrollment

NOTE: Not all responding institutions provided valid data for country/region of origin, field of study, or degree objectives.

Changes in Final Applications between Fall 2017 and Fall 2018

Between the Fall 2017 and Fall 2018 admission cycles, total applications from prospective international graduate students at responding institutions decreased by 4%. Applications from prospective graduate students in Europe (-13%), the Middle Eastern & North African region (-14%), and Iran (-27%) all declined substantially. Additionally, graduate applications from Indian students continued to decline (-12%), while Chinese nationals, who had declined in graduate application counts between the Fall 2016 and Fall 2017 admission cycles, had no change in applications for admission to U.S. institutions between Fall 2017 and Fall 2018 (Table 9). Driven by the drop in master's and certificate applications, engineering (-16%), physical & earth sciences (-9%), business (-8%), and public administration and services (-1%), all saw declines in the total number of applications by international students (Table 10).

Table 9: Annual Changes in Final International Graduate Applications by Region/Country of Origin, Fall 2012 to Fall 2018 Admission Cycles

	Fall 2012 to Fall 2013	Fall 2013 to Fall 2014	Fall 2014 to Fall 2015	Fall 2015 to Fall 2016	Fall 2016 to Fall 2017	Fall 2017 to Fall 2018
Total	2%	10%	3%	1%	-3%	-4%
Asia	-	-	2%	2%	-5%	-3%
<i>China</i>	-3%	-1%	0%	4%	-1%	0%
<i>India</i>	22%	33%	10%	-1%	-15%	-12%
<i>Japan</i>	-	-	-	-	-11%	-6%
<i>South Korea</i>	-15%	-5%	4%	-5%	-8%	0%
<i>Taiwan</i>	-13%	0%	-1%	1%	0%	0%
Europe	-2%	3%	-5%	0%	18%	-13%
Latin America & Caribbean	-	-	-1%	-3%	-4%	4%
<i>Brazil</i>	25%	61%	-13%	-11%	9%	1%
<i>Mexico</i>	-8%	1%	9%	2%	-14%	-4%
Middle East & North Africa	-	-	2%	-5%	-17%	-14%
<i>Iran</i>	-	-	-	-	-18%	-27%
<i>Saudi Arabia</i>	-	-	8%	-20%	-21%	-6%
North America (Canada only)	-5%	1%	3%	-12%	-9%	0%
Oceania	-	-	4%	-11%	-7%	-3%
Sub-Saharan Africa	-	-	7%	-9%	12%	28%

Data Source: 2018 CGS International Graduate Admissions Survey: Final Applications, Admissions, and Enrollment, and Okahana, H., & Zhou, E. (2018). International graduate applications and enrollment: Fall 2017. Washington, DC: Council of Graduate Schools.

NOTE: Not all responding institutions provided valid data for country/region of origin, field of study, or degree objectives.

Table 10: Annual Changes in Final International Graduate Applications by Field of Study, Fall 2012 to Fall 2018 Admission Cycles

	Fall 2012 to Fall 2013	Fall 2013 to Fall 2014	Fall 2014 to Fall 2015	Fall 2015 to Fall 2016	Fall 2016 to Fall 2017	Fall 2017 to Fall 2018
Total	2%	10%	3%	1%	-3%	-4%
Arts & Humanities	1%	5%	1%	2%	-9%	1%
Biological & Agricultural Sciences	-	-	2%	-5%	-5%	3%
Business	1%	7%	2%	8%	-3%	-8%
Education	-2%	4%	4%	0%	-11%	4%
Engineering	5%	12%	2%	-3%	-10%	-16%
Health Sciences	-	-	2%	-17%	-11%	5%
Mathematics & Computer Sciences	-	-	9%	5%	-2%	6%
Physical & Earth Sciences	-	-	-1%	6%	-6%	-9%
Public Administration & Services	-	-	-5%	-7%	-15%	-1%
Social & Behavioral Sciences	-	-	-4%	-3%	-1%	3%
Other Fields	5%	4%	5%	14%	-2%	8%

Data Source: 2018 CGS International Graduate Admissions Survey: Final Applications, Admissions, and Enrollment, and Okahana, H., & Zhou, E. (2018). International graduate applications and enrollment: Fall 2017. Washington, DC: Council of Graduate Schools.

NOTE: Not all responding institutions provided valid data for country/region of origin, field of study, or degree objectives.

Changes in First-time Enrollment between Fall 2017 and Fall 2018

Compared to Fall 2017, first-time international graduate enrollment in Fall 2018 decreased by 1%. Patterns of first-time graduate enrollment across fields of study and countries/regions of origin generally mirror those of final application counts. Compared to the past three admission cycles, first-time graduate enrollment in engineering fields declined substantially (-10%), a 11% decrease from the Fall 2014 to Fall 2015 admission cycle.

After recent increases in first-time graduate enrollment between the Fall 2012 and Fall 2015 admission cycles, the number of Indian first-time graduate students dropped by 2% this past year, adding to the 13% decline seen in the Fall 2016 to Fall 2017 cycle. There was no change in first-time graduate enrollment for Chinese nationals. Canadian (6%), Sub-Saharan African (5%), and Latin American & Caribbean (5%) first-time graduate enrollments saw robust growth, and Taiwan (1%) reported growth in first-time graduate enrollment. Another notable finding is that first-time graduate enrollment for students hailing from the Middle East & North Africa dropped by 12%, with Saudi Arabian first-time graduate enrollment decreasing by 21% between Fall 2017 and Fall 2018 (Tables 11 and 12).

Table 11: Annual Changes in First-time International Graduate Enrollment by Region/Country of Origin, Fall 2012 to Fall 2018 Admission Cycles

	Fall 2012 to Fall 2013	Fall 2013 to Fall 2014	Fall 2014 to Fall 2015	Fall 2015 to Fall 2016	Fall 2016 to Fall 2017	Fall 2017 to Fall 2018
Total	10%	8%	5%	5%	-1%	-1%
Asia	-	-	7%	8%	-2%	0%
<i>China</i>	5%	-1%	12%	0%	5%	0%
<i>India</i>	40%	27%	12%	-7%	-13%	-2%
<i>Japan</i>	-	-	-	-	3%	-15%
<i>South Korea</i>	-12%	-7%	5%	10%	-12%	-4%
<i>Taiwan</i>	-8%	-8%	2%	14%	10%	1%
Europe	3%	1%	-4%	8%	1%	-3%
Latin America & Caribbean	-	-	-6%	5%	-10%	5%
<i>Brazil</i>	17%	91%	-30%	-9%	18%	-3%
<i>Mexico</i>	-2%	8%	6%	12%	-10%	-1%
Middle East & North Africa	-	-	1%	-11%	-5%	-12%
<i>Iran</i>	-	-	-	-	-16%	-8%
<i>Saudi Arabia</i>	-	-	5%	-13%	-2%	-21%
North America (Canada only)	3%	-1%	1%	-3%	-7%	6%
Oceania	-	-	-9%	7%	-6%	-10%
Sub-Saharan Africa	-	-	9%	3%	27%	5%

Data Source: 2018 CGS International Graduate Admissions Survey: Final Applications, Admissions, and Enrollment, and Okahana, H., & Zhou, E. (2018). International graduate applications and enrollment: Fall 2017. Washington, DC: Council of Graduate Schools.

NOTE: Not all responding institutions provided valid data for country/region of origin, field of study, or degree objectives.

Table 12: Annual Changes in First-time International Graduate Enrollment by Field of Study, Fall 2012 to Fall 2018 Admission Cycles

	Fall 2012 to Fall 2013	Fall 2013 to Fall 2014	Fall 2014 to Fall 2015	Fall 2015 to Fall 2016	Fall 2016 to Fall 2017	Fall 2017 to Fall 2018
Total	10%	8%	5%	5%	-1%	-1%
Arts & Humanities	9%	3%	5%	6%	-12%	0%
Biological & Agricultural Sciences	-	-	1%	2%	-1%	-2%
Business	6%	2%	2%	7%	-11%	1%
Education	3%	-1%	0%	7%	-16%	-4%
Engineering	17%	11%	1%	-3%	-10%	-10%
Health Sciences	-	-	-5%	-14%	3%	3%
Mathematics & Computer Sciences	-	-	11%	4%	2%	6%
Physical & Earth Sciences	-	-	6%	-3%	-1%	-13%
Public Administration & Services	-	-	4%	7%	4%	-27%
Social & Behavioral Sciences	-	-	1%	9%	0%	0%
Other Fields	7%	2%	7%	11%	4%	6%

Data Source: 2018 CGS International Graduate Admissions Survey: Final Applications, Admissions, and Enrollment, and Okahana, H., & Zhou, E. (2018). International graduate applications and enrollment: Fall 2017. Washington, DC: Council of Graduate Schools.

NOTE: Not all responding institutions provided valid data for country/region of origin, field of study, or degree objectives.

NOTES AND DEFINITIONS

About the CGS International Graduate Admissions Survey

In 2004, the Council of Graduate Schools (CGS) launched an annual empirical examination of international graduate application, admission, and enrollment trends in response to member institutions' interest in changes in the enrollment of students from abroad seeking master's and doctoral degrees from U.S. colleges and universities. Broadly speaking, the survey is designed to capture information about application counts and offers of admission, as well as first-time and total graduate enrollment of international students for each fall admission cycle. For the purpose of this survey, an international student is defined as a person who was not a citizen, national, or permanent resident of the United States and was in this country on a student visa, or on a temporary basis, and does not have the legal right to remain indefinitely. Undocumented students, individuals with deferred action status, and refugees are not included in this definition of international students.

Beginning in the Fall 2016 admission cycle, the survey was redesigned to collect data by degree objective (master's and graduate certificate vs. doctorate), and for all seven regions of origin, eight countries of origin, and all eleven broad fields of study. Additionally, beginning this survey cycle, the respondent pool was expanded to include institutions that were not CGS members but were members of the Conference of Southern Graduate Schools (CSGS), the Midwestern Association of Graduate Schools (MAGS), the Northeastern Association of Graduate Schools (NAGS), or the Western Association of Graduate Schools (WAGS). These changes were made to make the results more comprehensive, and to make them consistent with the CGS/GRE Survey of Graduate Enrollment & Degrees.

Data Collection

The 2018 CGS International Graduate Admissions Survey was sent to 777 U.S. colleges and universities, which were CGS members as of January 2018 and other institutions which were members of CSGS, MAGS, NAGS, or WAGS. Institutions were asked to report the number of final applications from and offers of admission to prospective international graduate students, as well as first-time and total international graduate enrollment for Fall 2018. The 2018 survey was administered between September 26 and November 26, 2018. A total of 369 institutions, or 47.4%, responded to the survey. While the response rate is less than years in the past, which is largely the result of the fact that the survey population was expanded this year to include CGS regional affiliates (e.g., CSGS, MAGS, NAGS, and WAGS members), it nevertheless reflects the largest number of institutions responding to this survey since it was launched in 2004. The data collection instrument and survey instructions are available on the [project website](#). Each completed data collection instrument submitted by participating institutions was then exported into four databases: final applications, offers of admission, first-time enrollment, and total enrollment.

Data Analysis Methods

Valid respondents for data analysis

Institutions providing data for the overall total count for international graduate students (i.e., sums of master's and certificate international students and doctoral international students) in the respective section of the survey (i.e., final applications, offers of admission, first-time enrollment, and total enrollment) were included in data analysis. This equated to 356 institutions for the final applications section with the reported total of 749,329 applications, 357 institutions for the offers of admission section with the reported total of 228,841 offers of admission, 351 institutions for the first-time enrollment section with the reported total of 84,325 first-time enrollments, and 353 institutions for the total enrollment section with the reported total of 246,369 total enrollments.

The summary of institutional controls and Carnegie classifications of institutions with valid responses for the first-time enrollment section (N=351) is shown in Table 13. Overall, two thirds (65%) of responding institutions were public universities. Over one third (35%) were master's colleges and universities, while the majority (58%) were research universities.

Additional data exclusion rules were applied for computations of percentage distributions of international students by regions/countries of origin and by fields of study, as well as by degree levels within specific regions/countries of origin or fields of study.

Table 13: Characteristics of Institutions with Valid Responses for the First-time Enrollment, Fall 2018 Admission Cycle

	Total		Public	Private, not-for-profit	Private, for-profit
All Institutions	100%	351	65%	35%	0%
<i>Research Universities (very high research activity)</i>	26%	93	71%	29%	0%
<i>Research Universities (high research activity)</i>	22%	77	73%	27%	0%
<i>Doctoral/Research Universities</i>	10%	36	61%	39%	0%
<i>Master's Colleges and Universities (larger programs)</i>	26%	92	61%	39%	0%
<i>Other Master's Colleges and Universities</i>	8%	28	46%	54%	0%
<i>All Other Institutions</i>	7%	25	56%	44%	0%

Data Source: 2018 CGS International Graduate Admissions Survey: Final Applications, Admissions, and Enrollment

Aggregated international graduate application acceptance rates and yield rates

The computations of the international graduate application acceptance rates were based on the aggregated international graduate offers of admission divided by the aggregated final international applications of all institutions reporting data in a particular year. The computations of the international graduate yield rates were based on the aggregated first-time international enrollment divided by the aggregated offers of admission of all institutions reporting data in a particular year. Fall 2017 and Fall 2016 data were drawn from the CGS International Graduate Admissions Survey, Fall 2017 and Fall 2016. The number of participating institutions may be different in each year.

Percentage distributions of international students by regions/countries of origin

For each section of the survey, percentage distributions of master's degree & certificate students, doctoral students, and all students by regions/countries of origin were reported. The computations were based on the disaggregated data reported in regions/countries of origin sections of the data collection instrument, and only those institutions reporting complete data for the respective section were included in the computation. The sum of all six regions and Canada in this section served as the denominator, or 100%. Only institutions with the reported total counts in master's & certificates and doctorates columns matched with calculated totals of all six regions and Canada respectively were included in this calculation. Due to missing values, these sums may be smaller than the total counts reported as the totals of valid respondents noted earlier.

Percentage distributions of international students by fields of study

For each section of the survey, percentage distributions of master's degree & certificate students, doctoral students, and all students by fields of study were reported. The computations were based on the disaggregated data reported in the fields of study section of the data collection instrument, and only those institutions reported complete data for the respective section was included in the computation. The sum of all 11 fields of study in this section served as the denominator, or 100%. Only institutions with the reported total counts in master's & certificates and doctorates columns matched with calculated totals of all eleven fields of study respectively were included in this calculation. Due to missing values, these sums may be smaller than the total counts reported as the totals of valid respondents noted earlier.

Percentage distributions of international students by degree-levels within particular regions/countries of origin

Percentage distributions of international students by degree-levels (i.e., master's and certificate students v. doctoral students) were computed for each region/country of origin. Calculated sums for master's and certificate students and doctoral students to each category (e.g., Asia, India, etc.) served as the denominator, or 100%. Due to missing values, these sums may be smaller than the total counts reported as the totals of valid respondents noted earlier.

Percentage distributions of international students by degree-levels within particular fields of study

Percentage distributions of international students by degree-levels (i.e., master's and certificate students v. doctoral students) were computed for each field of study. Calculated sums for master's and certificate students and doctoral students for each category (e.g., business, engineering, etc.) served as the denominator, or 100%. Due to missing values, these sums may be smaller than the total counts reported as the totals of valid respondents noted earlier.

Changes between Fall 2017 and Fall 2018

Changes between Fall 2017 and Fall 2018 are expressed as percentage differences, and only those institutions reporting valid data for both admission cycles were included in the computation. Fall 2017 data was drawn from the CGS International Graduate Admissions Survey, Fall 2017.

Definitions

Countries and Regions of Origin

The survey collected data on eight countries of origin, including: Brazil, Canada, China, India, Mexico, Saudi Arabia, Republic of Korea (South Korea), and Taiwan. These eight countries were selected because they represent the top countries of origin for international graduate students in the United States, or for other geopolitical reasons. The survey also collected data from all seven regions of the world: Asia, Europe, Latin America & Caribbean, Middle East & North Africa, North America (for the purpose of this study, North America includes only Canada), Oceania, and Sub-Saharan Africa. Specific definitions are listed below:

Asia includes: Afghanistan, Bangladesh, Bhutan, Brunei, Burma (Myanmar), Cambodia, China, East Timor, Hong Kong, India, Indonesia, Japan, Kazakhstan, Kyrgyzstan, Laos, Macau, Malaysia, Maldives, Mongolia, Nepal, Pakistan, People's Democratic Republic of Korea (North Korea), Philippines, Republic of Korea (South Korea), Singapore, Sri Lanka, Taiwan, Tajikistan, Thailand, Turkmenistan, Uzbekistan, and Vietnam.

For the purpose of this survey, China refers to the People's Republic of China and excludes Hong Kong, Macau, Taiwan, etc.

Europe includes: Albania, Andorra, Armenia, Austria, Azerbaijan, Belarus, Belgium, Bosnia and Herzegovina, Bulgaria, Croatia, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Georgia, Germany, Gibraltar, Greece, Hungary, Iceland, Ireland, Italy, Kosovo, Latvia, Liechtenstein, Lithuania, Luxembourg, Macedonia, Malta, Moldova, Monaco, Montenegro, Netherlands, Norway, Poland, Portugal, Romania, Russia, San Marino, Serbia, Slovakia, Slovenia, Spain, Sweden, Switzerland, Turkey, Ukraine, United Kingdom, and Vatican City (Holy See).

Latin America & Caribbean includes: Anguilla, Antigua and Barbuda, Argentina, Aruba, Bahamas, Barbados, Belize, Bermuda, Bolivia, Brazil, British Virgin Islands, Cayman Islands, Chile, Colombia, Costa Rica, Cuba, Curacao, Dominica, Dominican Republic, Ecuador, El Salvador, Falkland Islands, French Guiana, Grenada, Guadeloupe, Guatemala, Guyana, Haiti, Honduras, Jamaica, Martinique, Mexico, Montserrat, Netherlands Antilles, Nicaragua, Panama, Paraguay, Peru, Sint Maarten, St. Kitts and Nevis, St. Lucia, St. Vincent and the Grenadines, Suriname, Trinidad & Tobago, Turks and Caicos Islands, Uruguay, and Venezuela.

Middle East & North Africa includes: Algeria, Bahrain, Egypt, Iran, Iraq, Israel, Jordan, Kuwait, Lebanon, Libya, Morocco, Oman, Palestinian Territories, Qatar, Saudi Arabia, Syria, Tunisia, United Arab Emirates, and Yemen.

Oceania includes: Australia, Cook Islands, Fiji, French Polynesia, Kiribati, Marshall Islands, Micronesia, Nauru, New Caledonia, New Zealand, Niue, Palau, Papua New Guinea, Samoa, Solomon Islands, Tonga, Tuvalu, Vanuatu, and Wallis & Futuna.

Sub-Saharan Africa includes: Angola, Benin, Botswana, Burkina Faso, Burundi, Cameroon, Cape Verde, Central African Republic, Chad, Comoros, Cote d'Ivoire (Ivory Coast), Democratic Republic of Congo (Kinshasa, Republic of Congo), Djibouti, Equatorial Guinea, Eritrea, Ethiopia, Gabon, Gambia, Ghana, Guinea, Guinea-Bissau, Kenya, Lesotho, Liberia, Madagascar, Malawi, Mali, Mauritania, Mauritius, Mozambique, Namibia, Niger, Nigeria, Republic of the Congo (Brazzaville), Rwanda, Saint Helena, Sao Tome and Principe, Senegal, Seychelles, Sierra Leone, Somalia, South Africa, South Sudan, Sudan, Swaziland, Tanzania, Togo, Uganda, Zambia, and Zimbabwe.

Carnegie Classification

Institutions were coded according to their 2015 Carnegie basic classification. In the analysis of applications by Carnegie classification, the responding institutions classified as doctoral universities: highest research activity, doctoral universities: higher research activity, or doctoral universities: moderate research activity were grouped as doctoral institutions. The responding institutions classified as master's colleges & universities: larger programs, master's colleges & universities: medium programs, or master's colleges & universities: small programs were grouped as master's institutions. Responding institutions classified as specialized or baccalaureate institutions were excluded from many analyses due the small number of applications reported by these institutions.

Taxonomy

The survey collected data for all 11 broad fields of study, including: arts & humanities, biological & agricultural sciences, business, education, engineering, health sciences, mathematics & computer sciences, physical & earth sciences, public administration & services, social & behavioral sciences, and other fields. These are the same fields of study as used by the CGS/GRE Survey of Graduate Enrollment & Degrees. The detailed taxonomy is available in the [project website](#).

References

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Okahana, H. & Zhou, E. (2018). [*International graduate applications and enrollments: Fall 2017*](#). Washington, DC: Council of Graduate Schools.

Okahana, H. Zhou, E. (2018, October). [*Trends in international first-time graduate enrollment*](#). *CGS Research-in-Brief*. Washington, DC: Council of Graduate Schools.

List of Institutions Contributing Fall 2018 Data

Adelphi University
Alfred University
American University
Angelo State University
Antioch University
Appalachian State University
Arizona State University
Arkansas Tech University
Auburn University
Auburn University at Montgomery
Augusta University
Azusa Pacific University
Ball State University
Baylor College of Medicine Graduate School of Biomedical Sciences
Benedictine University
Berry College
Boston University
Brandeis University
Brenau University
Brigham Young University
Brown University
Bryant University
Bryn Mawr College
Butler University
Caldwell University
California Institute of Integral Studies
California Institute of Technology
California Lutheran University
California State Polytechnic University, Pomona
California State University, East Bay
California State University, Fresno
California State University, Fullerton
California State University, Los Angeles
Cameron University
Carson Newman University
Case Western Reserve University
Central Connecticut State University
Champlain College
Chatham University
Christopher Newport University
Claremont Graduate University
Clark Atlanta University
Clemson University
Cleveland State University
College of Charleston Graduate School
College of Saint Rose
College of William and Mary
Colorado School of Mines
Colorado State University
Columbia College
Columbia College Chicago
Columbia University
Columbus State University
Cornell University
Creighton University
Dartmouth College
Dominican University
Drew University
Duke University Graduate School
Duquesne University
D'Youville College
East Carolina University
East Stroudsburg University
East Tennessee State University
Eastern Michigan University
Eastern Washington University
Embry-Riddle Aeronautical University - Daytona Beach Campus
Emerson College
Emory University
Emporia State University
Fitchburg State University
Florida Atlantic University
Florida International University
Florida State University
Fordham University
Fort Hays State University
Fort Valley State University
Gallaudet University
Geneva College
George Mason University
Georgetown University
Georgia College & State University
Georgia Institute of Technology
Georgia Southern University
Georgia Southwestern State University
Gonzaga University
Hardin-Simmons University
Harvard University
Hood College
Humboldt State University
Illinois Institute of Technology
Illinois State University
Indiana State University
Indiana University
Indiana University of Pennsylvania
Indiana University Purdue University Indianapolis
Inter American University of Puerto Rico
Iona College
Iowa State University
Ithaca College
Jackson State University
James Madison University
John Brown University
John Carroll University
Johns Hopkins University Carey Business School
Kansas State University
Kennesaw State University
Kent State University
Kutztown University of Pennsylvania
La Salle University
La Sierra University
Lehigh University
Lewis University
Longwood University
Loras College
Louisiana State University
Louisiana Tech University
Loyola Marymount University
Loyola University Chicago
Loyola University Maryland
Madonna University
Marquette University
Marymount University
McNeese State University
Medical University of South Carolina
Meharry Medical College
Mercy College
Merrimack College
Miami University
Michigan State University
Michigan Technological University
MidAmerica Nazarene University
Middlebury Institute of Int'l Studies at Monterey
Mississippi State University
Missouri State University

Montana State University
Montana Technological
University
Morgan State University
Mount Saint Joseph University
Murray State University
New Jersey Institute of
Technology
New Mexico State University
Newman University
North Carolina A&T State
University
North Carolina Central
University
North Carolina State University
Northeastern Illinois University
Northeastern University
Northern Arizona University
Northern State University
Northwestern State University
Northwestern University
Nova Southeastern University
NYU Tandon School of
Engineering
Occidental College
Ohio University
Oklahoma State University
Old Dominion University
Oregon State University
Pace University
Pacific Lutheran University
Pennsylvania State University
Point Park University
Portland State University
Princeton University Graduate
School
Purdue University
Purdue University Fort Wayne
Radford University
Rhode Island School of Design
Rochester Institute of
Technology
Rowan University
Rutgers University - Camden
Salisbury University
San Jose State University
Savannah College of Art and
Design
Seattle Pacific University
Seattle University
Shenandoah University
Siena Heights University
Simmons University
Slippery Rock University
South Carolina State University

South Dakota State University
Southeast Missouri State
University
Southeastern Louisiana
University
Southern Arkansas University
Southern Illinois Univ
Edwardsville
Southern Illinois University
Carbondale
Southern Methodist University
St. Ambrose University
St. Bonaventure University
St. Catherine University
St. John Fisher College
St. John's University
St. Mary's University
Stanford University
State University of New York at
Binghamton
Stony Brook University
Suffolk University
SUNY Buffalo State
SUNY College of Environmental
Science & Forestry
SUNY Fredonia
SUNY Polytechnic Institute
SUNY Upstate Medical
University
Syracuse University
Tarleton State University
Teachers College, Columbia
University
Tennessee Tech University
Texas A&M Corpus Christi
Texas A&M International
University
Texas A&M University
Texas A&M University at
Galveston
Texas A&M University College of
Dentistry
Texas A&M University-Central
Texas
Texas A&M University-
Commerce
Texas A&M University-Kingsville
Texas Christian University
Texas Southern University
Texas State University
Texas Woman's University
The Catholic University of
America
The Chicago School of
Professional Psychology

The College at Brockport State
University of New York
The College of New Rochelle
The Medical College of
Wisconsin
The New School
The University of Akron
The University of Alabama
The University of Mississippi
The University of North Carolina
at Pembroke
The University of Scranton
The University of Southern
Mississippi
The University of Texas at Austin
The University of Texas at Dallas
The University of Texas at San
Antonio
The University of Texas Medical
Branch
The University of Texas of the
Permian Basin
The University of Vermont
Towson University
Troy University
Tufts University
Tulane University
University of Nebraska at Omaha
University of Bridgeport
University at Buffalo
University of Alabama in
Huntsville
University of Arizona
University of Arkansas
University of Arkansas for
Medical Sciences
University of California, Berkeley
University of California, Davis
University of California, Irvine
University of California, Los
Angeles
University of California, Merced
University of California, San
Diego
University of California, San
Francisco
University of California, Santa
Barbara
University of California, Santa
Cruz
University of Central Florida
University of Central Missouri
University of Central Oklahoma
University of Chicago

University of Colorado, Colorado Springs
University of Colorado, Denver
University of Connecticut
University of Dayton
University of Delaware
University of Denver
University of Florida
University of Georgia
University of Hartford
University of Hawaii at Manoa
University of Houston
University of Idaho
University of Illinois at Chicago
University of Illinois Springfield
University of Illinois Urbana-Champaign
University of Iowa
University of Kansas
University of Kentucky
University of Louisville
University of Maine
University of Maryland, Baltimore County
University of Maryland, College Park
University of Maryland, Eastern Shore
University of Massachusetts Amherst
University of Massachusetts Medical School
University of Massachusetts, Boston
University of Massachusetts, Dartmouth
University of Memphis
University of Miami
University of Michigan
University of Michigan-Flint
University of Minnesota
University of Mississippi Medical Center
University of Missouri, Columbia
University of Missouri, St. Louis
University of Montana
University of Nebraska, Kearney

University of Nevada, Las Vegas
University of Nevada, Reno
University of New Hampshire
University of New Haven
University of New Mexico
University of New Orleans
University of North Alabama
University of North Carolina at Chapel Hill
University of North Carolina at Charlotte
University of North Carolina at Greensboro
University of North Carolina at Wilmington
University of North Dakota
University of North Florida
University of North Georgia
University of Northern Iowa
University of Notre Dame
University of Oklahoma
University of Oklahoma Health Sciences Center
University of Oregon
University of Pennsylvania
University of Pittsburgh
University of Rochester
University of San Francisco
University of South Carolina
University of South Dakota
University of South Florida - Tampa
University of Southern California
University of St. Thomas
University of Tennessee at Martin
University of Tennessee Chattanooga
University of Texas at El Paso
University of Texas Rio Grande Valley
University of the Incarnate Word
University of the Pacific
University of Tulsa
University of Utah
University of Virginia
University of Washington
University of West Alabama

University of West Georgia
University of Wisconsin-Madison
University of Wisconsin-Milwaukee
University of Wisconsin-River Falls
University of Wisconsin-Stevens Point
University of Wyoming
University of Northern Colorado
UT MDACC UTHHealth (GSBS)
UT Southwestern
Utah State University
Valparaiso University
Virginia Commonwealth University
Virginia Polytechnic & State Institution
Walsh University
Washington State University
Washington University in St. Louis
Watson School of Biological Sciences
Wayland Baptist University
Wayne State University
Wesleyan University
West Chester University of Pennsylvania
West Virginia University
Western Illinois University
Western Kentucky University
Western Michigan University
Western Washington University
Westfield State University
Wheaton College
Wichita State University
William Paterson University
Worcester Polytechnic Institute
Wright State University
Yale Graduate School of Arts and Sciences

**This list comprises all institutions that submitted data for this report. It is not a comprehensive list of institutions that provided complete validated data.*

End Note

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