



# Contents

KEY TAKEAWAYS	. 4
DATA TABLES	10
Annual Changes Between Fall 2015 and Fall 2020 Admission Cycles	10
Table A.1 Annual Changes in Final International Graduate Applications by Region/Country of Origin, Fall 2015 to Fall 2020 Admission Cycles	
Table A.2 Annual Changes in First-time International Graduate Enrollment by Region/Country of Origin, Fall 2015 to Fall 2020 Admission Cycles	11
Table A.3 Annual Changes in Final International Graduate Applications by Field of Study, Fall 2015 to Fall 2020 Admission Cycles	
Table A.4 Annual Changes in First-time International Graduate Enrollment by Field of Study, Fall 2011 to Fall 2020 Admission Cycles	
Fall 2020 International Graduate Admissions Data by Region/Country of Origin	14
Table B.1 Final International Graduate Applications by Region/Country of Origin, Fall 2020 Admissio Cycle	
Table B.2 Offers of Admission to International Graduate Applicants by Region/Country of Origin, Fal 2020 Admission Cycle	
Table B.3 First-time International Graduate Enrollment by Region/Country of Origin, Fall 2020 Admission Cycle	16
Table B.4 Deferred Admissions and First-time International Graduate Enrollment as Percentage Shares of Offers of Admission by Region/Country of Origin, Fall 2020 Admission Cycle	
Table B.5 Total International Graduate Enrollment by Region/Country of Origin, Fall 2020 Admission Cycle	
Fall 2020 International Graduate Admissions Data by Field of Study	19
Table C.1 Final International Graduate Applications by Field of Study, Fall 2020 Admission Cycle	19
Table C.2 Offers of Admission to International Graduate Applicants by Field of Study, Fall 2020 Admission Cycle	20
Table C.3 First-time International Graduate Enrollment by Field of Study, Fall 2020 Admission Cycle 2	21
Table C.4 Deferred Admissions and First-time International Graduate Enrollment as Percentage Shares of Offers of Admission by Field of Study, Fall 2020 Admission Cycle	
Table C.5 Total International Graduate Enrollment by Field of Study, Fall 2020 Admission Cycle2	23
NOTES AND DEFINITIONS	24
About the CGS International Graduate Admissions Survey	24
Data Collection	24
Data Analysis Methods	24
Table D.1 Characteristics of Institutions with Valid Responses for Fall 2020 First-time Enrollment	25



Table D.2 Characteristics of Institutions with Valid Responses for Fall 2019 and Fall 2020 First-tim Enrollment	
NAGAP/CGS Survey Methodology	26
International Graduate Admissions Supplemental Questionnaire Methodology	26
Countries and Regions of Origin	27
Carnegie Classification	28
Taxonomy	28
References	28
List of Institutions Contributing Fall 2020 Data	29
End Note	33
Author Contributions and Acknowledgments	33
The 2021 CGS Committee on Research and Information Services	33
Contact and Suggested Citation	33



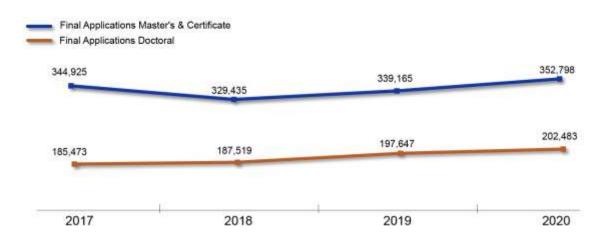
# **KEY TAKEAWAYS**

The number of applications received from prospective international graduate students by U.S. institutions in the CGS International Graduate Admissions Survey increased for both master's and doctoral programs. Doctoral applications have continued to grow since the Fall 2017 cycle, master's applications since the Fall 2018 cycle. Compared to Fall 2019 figures, however, first-time enrollment has declined substantially for both master's and doctoral programs in Fall 2020. The decline is likely due to the COVID-19 pandemic. According to the survey, a large share of admitted students for Fall 2020 deferred their offers until later academic terms.

While this report does not directly investigate the impact of the pandemic, 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. This report includes the Fall 2020 admissions data received from 326 U.S. colleges and universities with 69% from public universities and 65% from doctoral universities (Table D.1). The Fall 2020 data are combined with historical enrollment data for trend analysis. Only those institutions who submitted their records for two time points are included in the computation. More methodological notes can be found in the Notes and Definitions. With those caveats, in the section that follows, we offer context and additional takeaways from the Fall 2020 admission cycle data. Supplementary data tables are included at the end of the report.

The Largest Volume of International Graduate Applications. The total number of international graduate applications received by U.S. degree-granting institutions participating in the CGS International Graduate Admissions Survey increased by 3% between Fall 2019 and Fall 2020, the same increase as between Fall 2018 and Fall 2019 (<u>Table A.1</u>). The number of applications for master's & certificate programs for Fall 2020 exceeded that for Fall 2017, the prior record high, and doctoral applications have also increased (Figure 1). These increases were driven by increases at Doctoral Universities. Both master's and doctoral applications increased across different institution types. (See more details in the additional data tables for CGS members)

Figure 1. Total International Graduate Applications by Degree Type, Fall 2017 to Fall 2020

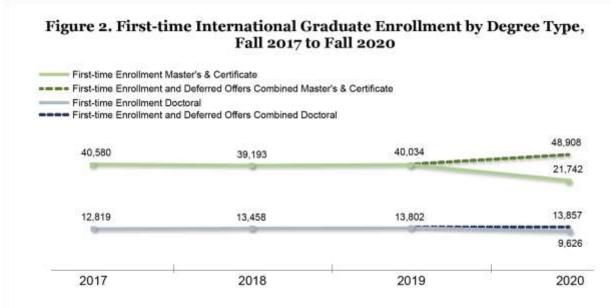


Data Source: Council of Graduate Schools, International Graduate Applications and Enrollment, 2017-2020. Note: Not all responding institutions provided valid data for all the section of the survey (i.e., final applications, offers of admission, first-time enrollment, and total enrollment). The number of institutions included in the master's applications (n=190) and doctors applications (n=190).



**Significant Decline in First-time Enrollment**. First-time graduate enrollment decreased by 39% between Fall 2019 and Fall 2020. Both master's (-43%) and doctoral (-26%) first-time enrollment of international graduate students declined (<u>Table A.2</u>). The decline was consistent across institutional types. The master's & certificate first-time enrollment decreased by 46% at Doctoral Universities Very High Research Activity and by 41% at Doctoral Universities High Research Activity and Doctoral/Professional Universities.

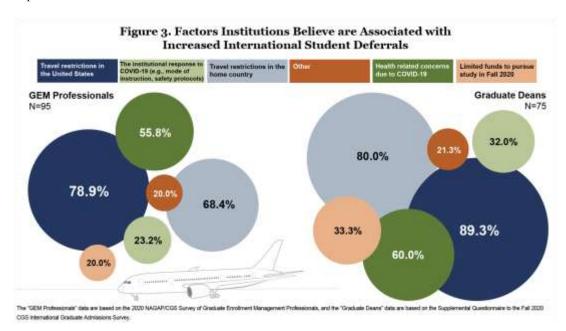
Although the decline in first-time enrollment was substantial, there were also many offers of admissions for Fall 2020 that have been deferred to future academic terms. In particular, at the master's and certificate level, of the offers of admissions made, 12% were deferred and 17% enrolled for the first time in Fall 2020. At the doctoral level, 10% of the offers of admissions were deferred and 33% enrolled for the first-time (<u>Table B.4</u>). The sum of the deferred admissions and first-time enrollment for Fall 2020 exceeds the first-time enrollment figures for Fall 2019 (Figure 2).



Data Source: Council of Graduate Schools, International Graduate Applications and Enrollment, 2017-2020. Note: Not all responding institutions provided valid data for all the sections of the survey (i.e., final applications, offers of admisssion, first-time enrollment, and total enrollment). The number of institutions included in the master's first-time enrollment (n=180) and doctoral first-time enrollment (n=132).



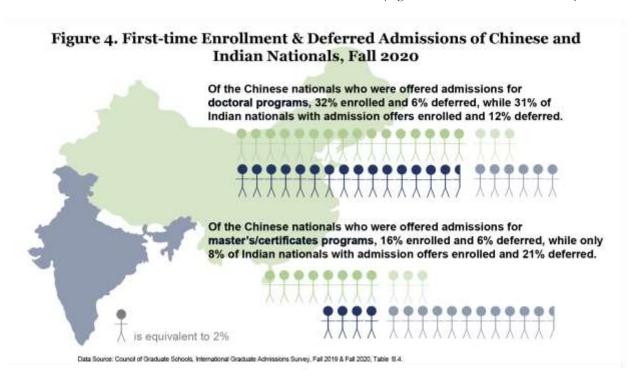
To ensure a complete and consistent understanding of the context of graduate enrollment over the past year, CGS conducted two additional surveys to collect information that was not included in the 2020 International Graduate Applications and Enrollment Survey: the 2020 NAGAP/CGS Survey of Graduate Enrollment Management and the 2020 CGS International Graduate Admissions Supplemental Survey. Of those surveyed from both the NAGAP/CGS Survey of Graduate Enrollment Management Professionals and the Supplemental Questionnaire over 80% reported an increase in the number of newly admitted international graduate students who deferred enrollment in Fall 2020. Furthermore, more institutions have reported that the increase of deferred enrollment is significant – that increase is greater than 5%. This suggests that the large volume of deferrals reported in the 2020 CGS International Graduate Admissions Survey is an anomaly. Most respondents to both surveys noted travel restrictions in the United States and their home countries as the leading factors for the increased deferrals in Fall 2020. Over half the institutions indicated that health-related concerns due to the COVID-19 pandemic also explained the increased deferrals.



Approximately 92% of institutions from both surveys utilized e-mails to stay in touch with prospective international graduate students who deferred enrollment in Fall 2020. Over half of the institutions also hosted virtual events to stay connected. In general, the international enrollment deferral and outreach efforts in Fall 2020, as reported from the two surveys, are consistent and not entirely unexpected. Across all survey results, there is a general trend towards more deferments associated with visa issues worldwide, and it is evident that a large proportion of institutions kept students engaged through virtual formats.



Other Key Points. Graduate applications of Chinese nationals (6%) and Indian nationals (5%) both increased between Fall 2019 and Fall 2020 admission cycles. However, first-time graduate enrollment declined by 37% and 66%, respectively. This is explained in part by the higher number of admissions deferrals by Indian nationals. Of the Indian nationals who were offered admissions to U.S. graduate schools for master's/certificates and doctoral programs, 21% and 12% respectively, deferred. By contrast, only 6% of offers made to Chinese nationals for Fall 2020 admissions were deferred (Figure 4, Tables A.1, A.2 and B.4).



Although first-time enrollment continued to decline, graduate applications to U.S. institutions from **Iranian nationals** increased for two consecutive admissions cycles, growing by 8% between Fall 2019 and Fall 2020. Iranian nationals, who accounted for more than one-half of the offers of doctoral admissions made to individuals from the Middle East & North Africa region, also accounted for 27% of offers deferred in Fall 2020. Only 13% of offers of doctoral admissions to Iranian nationals converted to first-time enrollment, compared to 33% for the overall offers of doctoral admissions to prospective international students (<u>Tables A.1</u> and <u>B.4</u>).

Other regions showed more positive developments. Although it is the region with the fewest number of international graduate students in the United States, the number of applications and first-time enrollment of graduate students from Oceania increased by 14% and 5%, respectively between Fall 2019 and Fall 2020. Also, the number of first-time international graduate students in the United States from Canada (-5%) and Mexico (-6%) did not decline as much as the other countries and regions did (Figure 5, Tables A.1 and A.2).



Saudi Arabia inal Applications -21% irst-time Enrollment -36 Middle East & North Africa Final Applications 6% Final Applications -3% First-time Enrollment -36% First-time Enrollment -37% Mexico Final Applications 12% Final Applications 14% First-time Enrollment -6% First-time Enrollment 5% Sub-Saharan Africa nal Applications 7% st-time Enrollment -28 Final Applications 5% First-time Enrollment -66%

Figure 5. One-year Change in International Graduate Applications & First-time Enrollment by Selected Country & Region of Origin between Fall 2019 and Fall 2020

In terms of the graduate application trends by fields of study, **Biological & Agricultural Sciences** (10%) and Mathematics & Computer Sciences (12%) continued robust growth. The volatility of Engineering applications may be plateauing, and there was no change in graduate applications in Engineering between Fall 2019 and Fall 2020. While still one of the largest broad fields, Business (-1%) continued to experience decreases in international graduate applications during this period. There were a large number of deferred offers received by participating institutions across all fields at both the master's and doctoral level. The share of international graduate students who deferred offers in master's degree admissions in Engineering was 16%, and the share in deferred offers of admissions in Mathematics & Computer Sciences was 15%. At the doctoral level, the largest shares of deferred offers were in Public Administration & Services (15%), Biological & Agricultural Sciences (12%), and Engineering (12%) (Tables A.3 and C.4).

Discussion. The Fall 2020 CGS International Graduate Admissions Survey data offer an important snapshot of the state of international graduate enrollment at U.S. institutions. Given that nearly one out of five U.S. master's and doctoral students are international students (Okahana, Zhou, & Gao, 2020), the trend data we offer are critical information for graduate education administrators and enrollment management professionals. Our analysis is based on about 280 U.S. based institutions, predominantly doctoral universities (Table D.2). Our data reflect those from many of the institutions with the largest graduate program offerings (see full listing of the participating institutions), though readers should note that the analysis is not a census, but a subset of institutions. The national, aggregate data in this report provide important benchmarks to inform recruitment, admissions, and other enrollment management decisions (Okahana & West, 2019).

The overall increase in international graduate students' applications to U.S. institutions participating in this survey is encouraging, particularly given what seems to be a rebound from the decline we experienced between Fall 2016 and Fall 2017, and again in Fall 2018. However, due to factors such as the suspension of U.S. consular activities and the border closures in response to the COVID-19 pandemic, many new international graduate students were unable to begin their studies in Fall 2020. Results are consistent with an earlier report that the



global pandemic has impacted the flow of international graduate students to the U.S. (Baer & Martel, 2020). Many institutions have reported increased deferred admissions cases in Fall 2020, compared to the prior years. In fact, 12% of offers of master's admissions and 10% of offers of doctoral admissions to prospective international graduate students were deferred in Fall 2020 (<u>Table B.4</u>). We estimate that had it not been for the global pandemic, we might have more international graduate students enrolled at U.S. institutions in Fall 2020 than Fall 2019.

The total enrollment of master's international graduate students declined over the past year. This is not surprising given the substantial declines in first-time enrollment and relatively quick turnover of master's students. The number of continuing international doctoral students, however, appears to have increased between Fall 2019 and Fall 2020. This might reflect the fact that the cycle of doctoral degree programs is much longer than master's programs. Some students may have opted to postpone their graduation, given the present circumstance.

Looking to the Fall 2021 admissions cycle and beyond, we remain optimistic about the overall appeal and attractiveness of U.S. graduate education to international talents. However, it remains uncertain how larger than usual volumes of deferred admissions will impact new enrollment for Fall 2021 and enrollment management strategies going forward.



# DATA TABLES

# Annual Changes Between Fall 2015 and Fall 2020 Admission Cycles

Table A.1 Annual Changes in Final International Graduate Applications by Region/Country of Origin, Fall 2015 to Fall 2020 Admission Cycles

Table A.1 Annual Changes in Final International Graduate Applications by Region/Country of Origin, Fall 2015 to Fall 2020 Admission Cycles

	Fall 2015 to Fall	Fall 2016 to Fall	Fall 2017 to Fall	Fall 2018 to Fall	Fall 2019 to Fal
	2016	2017	2018	2019	2020
Total	1%	-3%	-4%	3%	3%
Asia	2%	-5%	-3%	3%	5%
China	4%	-1%	0%	3%	6%
India	-1%	-15%	-12%	0%	5%
Japan	6	-11%	-6%	13%	-1%
South Korea	-5%	-8%	0%	-6%	3%
Taiwan	1%	0%	0%	3%	11%
Europe	0%	18%	-13%	0%	-12%
Latin America & Caribbean	-3%	-4%	4%	-3%	-5%
Brazil	-11%	9%	1%	-2%	-12%
Mexico	2%	-14%	-4%	4%	12%
Middle East & North Africa	-5%	-17%	-14%	-1%	-3%
Iran	(4)	-18%	-27%	2%	8%
Saudi Arabia	-20%	-21%	-6%	-5%	-21%
North America (Canada only)	-12%	-9%	0%	3%	2%
Oceania	-11%	-7%	-3%	3%	14%
Sub-Saharan Africa	-9%	12%	28%	11%	7%

Data Source: Council of Graduate Schools, International Graduate Admissions Survey

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

Between the Fall 2019 and Fall 2020 admission cycles, total applications from prospective international graduate students at responding institutions increased by 3%. Applications from prospective graduate students in Europe (-12%), Latin America & Caribbean (-5%), and the Middle Eastern & North African region (-3%) declined. Additionally, graduate applications from Brazilian (-12%) and Saudi Arabian (-21%) students continued to decline, while Chinese (6%) applications increased to U.S. institutions over two consecutive years, after no change in counts between the Fall 2017 and Fall 2018 admission cycles.



Table A.2 Annual Changes in First-time International Graduate Enrollment by Region/Country of Origin, Fall 2015 to Fall 2020 Admission Cycles

Table A.2 Annual Changes in First-time International Graduate Enrollment by Region/Country of Origin, Fall 2015 to Fall 2020 Admission Cycles

	Fall 2015 to Fall 2016	Fall 2016 to Fall 2017	Fall 2017 to Fall 2018	Fall 2018 to Fall 2019	Fall 2019 to Fa 2020
Total	5%	-1%	1%	4%	-39%
Asia	8%	-2%	1%	6%	-47%
China	0%	5%	1%	3%	-37%
India	-7%	-13%	0%	196	-66%
Japan	8.	3%	-17%	8%	-20%
South Korea	10%	-12%	-4%	1%	-11%
Taiwan	14%	10%	1%	5%	-35%
Europe	8%	1%	-3%	-3%	-26%
Latin America & Caribbean	5%	-10%	4%	0%	-20%
Brazil	-9%	18%	-2%	-7%	-33%
Mexico	12%	-10%	-5%	10%	-6%
Middle East & North Africa	-11%	-5%	-12%	0%	-36%
Iran	¥)	-16%	-10%	-7%	-56%
Saudi Arabia	-13%	-2%	-18%	1%	-36%
North America (Canada only)	-3%	-7%	3%	6%	-5%
Oceania	7%	-6%	-9%	7%	5%
Sub-Saharan Africa	3%	27%	19%	22%	-28%

Data Source: Council of Graduate Schools, International Graduate Admissions Survey

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

Compared to Fall 2019, first-time international graduate enrollment in Fall 2020 decreased by 39%, almost certainly because of the pandemic. There were substantial decreases in first-time graduate enrollment in the Asian (-47%) and Middle Eastern & North African (-36%) regions. In particular, the number of Indian first-time graduate students decreased by 66% this past year. There was a 37% decrease in first-time graduate enrollment for Chinese nationals. First-time graduate enrollment for students hailing from Saudi Arabia dropped by 36%, and Iranian first-time graduate enrollment decreased by 56% between Fall 2019 and Fall 2020. In addition, Sub-Saharan African (-28%) first-time graduate enrollment declined. Compared to Asian and Middle East & North Africa, Europe (-26%), Latin America & Caribbean (-20%), and Canada (-5%) reported smaller declines in first-time graduate enrollment. Another notable finding is that Oceania first-time graduate enrollment increased by 5%.



Table A.3 Annual Changes in Final International Graduate Applications by Field of Study, Fall 2015 to Fall 2020 Admission Cycles

Table A.3 Annual Changes in Final International Graduate Applications by Field of Study, Fall 2015 to Fall 2020 Admission Cycles Fall 2015 to Fall 2016 to Fall 2017 to Fall 2018 to Fall 2019 to Fall 2017 Fall 2020 Fall 2016 Fall 2018 Fall 2019 Total 1% -3% -4% 3% 3% Arts & Humanities 2% -9% 1% 6% -1% **Biological & Agricultural Sciences** -5% -5% 3% 14% 10% Business 8% -8% -3% -3% -1% Education 0% -11% 4% -4% 2% Engineering -3% -10% -16% -2% 0% Health Sciences -17% 7% 2% -11% 5% Mathematics & Computer Sciences 5% -2% 6% 7% 12% Physical & Earth Sciences 6% -9% 2% 17% -6% **Public Administration & Services** -7% -15% -1% 1% -12% Social & Behavioral Sciences -3% -1% 3% 3% 6%

-2%

8%

23%

-16%

Data Source: Council of Graduate Schools, International Graduate Admissions Survey

Other Fields

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

14%



Table A.4 Annual Changes in First-time International Graduate Enrollment by Field of Study, Fall 2015 to Fall 2020 Admission Cycles

	Fall 2015 to	Fall 2016 to	Fall 2017 to	Fall 2018 to	Fall 2019 to
	Fall 2016	Fall 2017	Fall 2018	Fall 2019	Fall 2020
Total	5%	-1%	1%	4%	-39%
Arts & Humanities	6%	-12%	-7%	0%	-32%
Biological & Agricultural Sciences	2%	-1%	-4%	10%	-35%
Business	7%	-11%	-7%	-2%	-41%
Education	7%	-16%	-31%	9%	-33%
Engineering	-3%	-10%	-17%	1%	-52%
Health Sciences	-14%	3%	-16%	8%	-38%
Mathematics & Computer Sciences	4%	2%	1%	11%	-53%
Physical & Earth Sciences	-3%	-1%	-15%	6%	-33%
Public Administration & Services	7%	4%	-49%	8%	-51%
Social & Behavioral Sciences	9%	0%	-6%	11%	-28%
Other Fields	11%	4%	-2%	9%	-46%

Data Source: Council of Graduate Schools, International Graduate Admissions Survey

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



Fall 2020 International Graduate Admissions Data by Region/Country of Origin Table B.1 Final International Graduate Applications by Region/Country of Origin, Fall 2020 Admission Cycle

	% Share:	s by Region/Country	of Origin	% Shares by Degree Objective		
l	Total	Master's & Certificate	Doctorates	Master's & Certificate	Doctorates	
Total	805,711	528,101	277,610	66%	34%	
Asia	81%	86%	72%	69%	31%	
China	42%	43%	39%	68%	32%	
India	27%	34%	13%	83%	17%	
Japan	1%	0%	1%	62%	38%	
South Korea	3%	2%	7%	31%	69%	
Taiwan	3%	3%	3%	62%	38%	
Europe	5%	3%	8%	40%	60%	
Latin America & Caribbean	3%	2%	4%	53%	47%	
Brazil	1%	0%	1%	51%	49%	
Mexico	1%	0%	1%	52%	48%	
Middle East & North Africa	5%	3%	9%	38%	62%	
Iran	2%	1%	5%	20%	80%	
Saudi Arabia	1%	1%	2%	57%	43%	
North America (Canada only)	1%	1%	2%	54%	46%	
Oceania	0%	0%	0%	51%	49%	
Sub-Saharan Africa	5%	5%	5%	65%	35%	

Prospective Chinese and Indian students accounted for 69% of the more than 805,000 international graduate applications received by institutions responding to the 2020 CGS International Graduate Admissions Survey. Graduate applications submitted by Indian nationals accounted for 27% of all international applications. The share of Indian nationals' (34%) master's and certificate applications increased by three percentage points. Chinese nationals (42%) had a decreased share of master's and certificate applications by four percentage points from last year. Prospective Chinese graduate students sent more than one third of the total international doctoral applications (39%) during the Fall 2020 admission cycle, topping India by more than 26 percentage points.

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. By contrast, a large majority of applications from Iran (80%) and the Republic of Korea (South Korea, 69%) were for doctoral programs. Similarly, 62% of applications from the Middle East & North Africa and 60% of applications from Europe were for doctoral programs.



Table B.2 Offers of Admission to International Graduate Applicants by Region/Country of Origin, Fall 2020 Admission Cycle

	% Share	s by Region/Country	of Origin	% Shares by Degree Objective		
	Total	Master's & Certificate	Doctorates	Master's & Certificate	Doctorates	
Total	264,727	220,722	44,005	83%	17%	
Asia	82%	85%	70%	86%	14%	
China	42%	43%	36%	86%	14%	
India	29%	32%	12%	93%	7%	
Japan	1%	1%	1%	79%	21%	
South Korea	2%	2%	6%	57%	43%	
Talwan	2%	2%	3%	83%	17%	
Europe	4%	3%	8%	68%	32%	
Latin America & Caribbean	3%	3%	6%	74%	26%	
Brazil	1%	1%	1%	71%	29%	
Mexico	1%	1%	1%	74%	26%	
Middle East & North Africa	4%	3%	10%	60%	40%	
Iran	1%	1%	5%	39%	61%	
Saudi Arabia	1%	1%	2%	73%	27%	
North America (Canada only)	1%	1%	2%	78%	22%	
Oceania	0%	0%	1%	75%	25%	
Sub-Saharan Africa	5%	5%	5%	83%	17%	

Eighty-three percent of Fall 2020 admission offers made to prospective international graduate students were for master's/certificate programs. Regions/countries of origin with higher concentrations of doctoral applications did not necessarily receive offers of admission in the same proportion. For example, 68% of graduate applications from Europe were made in master's and certificate programs, but only 32% of admission offers were for doctoral programs. Similarly, 57% of South Korean applications were for master's/certificate programs, but only 43% of admission offers were for doctoral programs.



Table B.3 First-time International Graduate Enrollment by Region/Country of Origin, Fall 2020 Admission Cycle

	% Shares	by Region/Count	% Shares by Degree Objective		
	Total	Master's & Certificate	Doctorates	Master's & Certificate	Doctorate
Total	51,613	37,056	14,557	72%	28%
Asia	71%	73%	67%	72%	28%
China	41%	43%	34%	75%	25%
India	15%	16%	11%	78%	22%
Japan	1%	1%	1%	73%	27%
South Korea	4%	3%	8%	51%	49%
Taiwan	3%	3%	2%	71%	29%
Europe	8%	7%	10%	63%	37%
Latin America & Caribbean	8%	7%	8%	70%	30%
Brazil	1%	1%	1%	66%	34%
Mexico	2%	2%	2%	72%	28%
Middle East & North Africa	5%	4%	7%	60%	40%
Iran	1%	1%	2%	37%	63%
Saudi Arabia	2%	2%	2%	71%	29%
North America (Canada only)	3%	4%	3%	77%	23%
Oceania	1%	1%	1%	73%	27%
Sub-Saharan Africa	5%	5%	5%	68%	32%

Of the over 51,613 first-time international graduate students enrolled in U.S. institutions in the Fall of 2020, approximately three quarters (71%) were from Asia, with Chinese nationals (41%) comprising the vast share. Though the share of Indian nationals decreased from Fall 2019, the overall representation of Asian international students remains substantial in master's and certificate programs, accounting for 73% of all first-time students. China (43%) and India (16%) claimed the largest shares. China's share of first-time doctoral students (34%) was larger than that of India (11%), the Middle East & North Africa (7%), and Europe (10%).

The degree objectives of international students also varied by area. For example, first-time Indian graduate students were predominantly (78%) in master's and certificate programs, compared to 72% for students from all countries and regions. In contrast, three quarters (63%) of first-time graduate enrollment of Iranian nationals and 49% of Korean nationals were in doctoral programs.



Table B.4 Deferred Admissions and First-time International Graduate Enrollment as Percentage Shares of Offers of Admission by Region/Country of Origin, Fall 2020 Admission Cycle

Table B.4 Deferred Admissions and First-time	e International Graduate Enrollmen	t as Percentage Shares of Offers of
Admission by Region/Country of Origin, Fall	2020 Admission Cycle	

	M	aster's & Certificate			Doctorates	
	Offers of Admissions	% Deferred	% Enrolled	Offers of Admissions	% Deferred	% Enrolled
Total	220,722	12%	17%	44,005	10%	33%
Asia	184,449	13%	14%	30,259	8%	32%
China	92,971	6%	16%	15,605	6%	32%
India	69,904	21%	8%	5,078	12%	31%
Japan	1,167	8%	28%	303	4%	40%
South Korea	3,705	7%	30%	2,749	4%	39%
Taiwan	5,131	10%	17%	1,088	6%	32%
Europe	7,328	8%	33%	3,431	6%	41%
Latin America & Caribbean	6,703	8%	38%	2,391	7%	47%
Brazil	1,164	8%	33%	477	10%	41%
Mexico	1,312	6%	44%	462	5%	49%
Middle East & North Africa	6,086	14%	24%	4,133	23%	23%
Iran	1,477	18%	12%	2,270	27%	13%
Saudi Arabia	2,019	13%	28%	759	21%	30%
North America (Canada only)	3,019	6%	40%	830	3%	45%
Oceania	732	9%	34%	247	2%	38%
Sub-Saharan Africa	9,914	17%	16%	2,085	15%	35%

Institutions responding to the 2020 CGS International Graduate Admissions Survey presented a total of 220,772 offers of admissions to prospective graduate students in Fall 2020. In 2020, international applicants deferred more offers of acceptance than in a normal year. Approximately 12% of master's offers of admissions and 10% of doctoral offers of admissions were deferred to future semesters in Fall 2020. By region, Sub-Saharan Africa, Middle East & North Africa, and Asia had large shares of deferred offers at both the master's and certificate and the doctoral levels. For example, 21% of master's and certificate offers of admissions to Indian graduate students in Fall 2020 were deferred. Furthermore, at the doctoral level, 27% of offers of admissions to graduate students in Iran were deferred, followed by Saudi Arabia (21%), and India (12%).



Table B.5 Total International Graduate Enrollment by Region/Country of Origin, Fall 2020 Admission Cycle

	% Shares	by Region/Count	% Shares by Degree Object		
	Total	Master's & Certificate	Doctorates	Master's & Certificate	Doctorates
Total	225,975	119,811	106,164	53%	47%
Asia	72%	76%	67%	56%	44%
China	34%	34%	34%	52%	48%
India	21%	29%	13%	71%	29%
Japan	1%	1%	1%	52%	48%
South Korea	4%	3%	6%	33%	67%
Taiwan	2%	2%	2%	48%	52%
Europe	8%	6%	10%	39%	61%
Latin America & Caribbean	7%	7%	7%	51%	49%
Brazil	1%	1%	2%	43%	57%
Mexico	1%	1%	1%	56%	44%
Middle East & North Africa	7%	4%	10%	33%	67%
Iran	2%	1%	4%	15%	85%
Saudi Arabia	2%	2%	2%	48%	52%
North America (Canada only)	2%	3%	2%	57%	43%
Oceania	1%	1%	1%	52%	48%
Sub-Saharan Africa	4%	4%	4%	54%	46%

Data Source: Council of Graduate Schools, International Graduate Admissions Survey 2020

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

Chinese nationals constituted the largest share (34%) of international graduate students with more than 225,000 graduate students enrolled in Fall 2020 at institutions participating in this survey. In addition, Chinese graduate students make up the largest percentage (34%) of international master's and certificate students.



Fall 2020 International Graduate Admissions Data by Field of Study
Table C.1 Final International Graduate Applications by Field of Study, Fall 2020 Admission Cycle

	% Sha	ares by Field o	% Shares by Degre Objective		
	Total	Master's & Certificate	Doctorates	Master's & Certificate	Doctorates
Total	805,711	528,101	277,610	66%	34%
Arts & Humanities	5%	3%	7%	49%	51%
Biological & Agricultural Sciences	7%	3%	14%	28%	72%
Business	13%	16%	6%	85%	15%
Education	2%	2%	2%	66%	34%
Engineering	24%	24%	24%	66%	34%
Health Sciences	3%	3%	4%	58%	42%
Mathematics & Computer Sciences	28%	34%	15%	81%	19%
Physical & Earth Sciences	5%	2%	11%	22%	78%
Public Administration & Services	1%	1%	0%	76%	24%
Social & Behavioral Sciences	9%	6%	14%	44%	56%
Other Fields	5%	6%	3%	80%	20%

By fields of study, Mathematics & Computer Sciences received the most international graduate applications for master's and certificate programs (34%), while Engineering received the most applications from international students for doctoral programs (24%). The percentage share of Mathematics & Computer Sciences applications among all international applications increased for both types of degrees from the last admission cycle. The share of Engineering applications among all international applications at the master's and certificate level has no change when compared to Fall 2019.

While master's applications were concentrated in three specific fields – Engineering, Mathematics & Computer Sciences, and Business – the pattern for doctoral applications was more distributed. After Engineering, the top four fields of study for international doctoral applicants were Mathematics & Computer Sciences (15%), Social & Behavioral Sciences (14%), Biological & Agricultural Sciences (14%), and Physical & Earth Sciences (11%).



For those applicants whose degree objective levels were reported, the vast majority of applicants in the fields of Business (85%), Mathematics & Computer Sciences (81%), Public Administration & Services (76%), Education (66%), and Engineering (66%) applied for master's and certificate programs. By contrast, applications for basic science fields, such as Physical & Earth Sciences (78%), Biological & Agricultural Sciences (72%), and Social & Behavioral Sciences (56%), were more often for doctoral programs.

Table C.2 Offers of Admission to International Graduate Applicants by Field of Study, Fall 2020 Admission Cycle

	% Sha	ares by Field of	% Shares by Degree Objective		
	Total	Master's & Certificate	Doctorates	Master's & Certificate	Doctorates
Total	264,727	220,722	44,005	83%	17%
Arts & Humanities	3%	3%	7%	68%	32%
Biological & Agricultural Sciences	4%	3%	9%	61%	39%
Business	16%	18%	3%	97%	3%
Education	2%	2%	3%	78%	22%
Engineering	26%	25%	31%	80%	20%
Health Sciences	3%	3%	3%	81%	19%
Mathematics & Computer Sciences	28%	30%	16%	90%	10%
Physical & Earth Sciences	4%	2%	14%	47%	53%
Public Administration & Services	1%	1%	1%	88%	12%
Social & Behavioral Sciences	7%	6%	10%	76%	24%
Other Fields	6%	7%	3%	91%	9%

Data Source: Council of Graduate Schools, International Graduate Admissions Survey 2020

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



Table C.3 First-time International Graduate Enrollment by Field of Study, Fall 2020 Admission Cycle

	% Sha	res by Field o	% Shares by Degree Objective		
	Total	Master's & Certificat	Doctorate s	Master's & Certificat	Doctorate s
Total	51,613	37,056	14,557	72%	28%
Arts & Humanities	5%	4%	8%	55%	45%
Biological & Agricultural Sciences	6%	4%	11%	49%	51%
Business	20%	26%	5%	92%	8%
Education	4%	4%	4%	75%	25%
Engineering	20%	17%	28%	59%	41%
Health Sciences	4%	5%	4%	73%	27%
Mathematics & Computer Sciences	19%	21%	15%	78%	22%
Physical & Earth Sciences	4%	1%	11%	26%	74%
Public Administration & Services	1%	1%	1%	79%	21%
Social & Behavioral Sciences	9%	8%	10%	66%	34%
Other Fields	7%	9%	4%	84%	16%

Not surprisingly, the fields of Business (92%), Other Fields (84%), Public Administration & Services (79%), Mathematics & Computer Sciences (78%), and Education (75%) had high concentrations of first-time international students in master's and certificate programs in Fall 2020. By contrast, doctoral first-time students accounted for 74% of international graduate students in Physical & Earth Sciences and 51% 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 (17%), Mathematics & Computer Sciences (21%), and Business (26%), doctoral student enrollment was spread across a wider range of disciplines. Engineering (28%) continues to be the field of choice for first-time doctoral enrollment; however, four fields, Mathematics & Computer Sciences (15%), Biological & Agricultural Sciences (11%), Physical & Earth Sciences (11%), and Social & Behavioral Sciences (10%), also have sizeable numbers of first-time doctoral students.



Table C.4 Deferred Admissions and First-time International Graduate Enrollment as Percentage Shares of Offers of Admission by Field of Study, Fall 2020 Admission Cycle

Table C.4 Deferred Admissions and First-time International Graduate Enrollment as Percentage Shares of Offers of Admission by Field of Study, Fall 2020 Admission Cycle

	Mast	ter's & Certific	ate	Doctorates			
	Offers of Admissions	% Deferred	% Enrolled	Offers of Admissions	% Deferred	% Enrolled	
Total	220,722	12%	17%	44,005	10%	33%	
Arts & Humanities	6,178	9%	23%	2,901	8%	39%	
Biological & Agricultural Sciences	6,305	10%	24%	3,988	12%	40%	
Business	39,853	9%	23%	1,342	6%	56%	
Education	4,988	6%	31%	1,439	9%	36%	
Engineering	53,525	16%	11%	13,247	12%	30%	
Health Sciences	6,141	10%	27%	1,404	10%	43%	
Mathematics & Computer Sciences	64,849	15%	11%	6,873	8%	31%	
Physical & Earth Sciences	5,316	0%	10%	5,901	9%	26%	
Public Administration & Services	1,877	12%	21%	254	15%	41%	
Social & Behavioral Sciences	13,825	8%	21%	4,452	5%	34%	
Other Fields	14,399	10%	21%	1,414	10%	41%	

Data Source: Council of Graduate Schools, International Graduate Admissions Survey 2020

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

Of the offers of admission made to international graduate students for master's/certificate programs in Fall 2020, 17% of them enrolled for the first-time and 12% deferred their offers. At the doctoral level, in contrast, 33% of them enrolled and 10% of them deferred. For master's/certificate programs, the rates of deferrals were the highest for Engineering (16%) and Mathematics & Computer Sciences (15%). For both fields, only 11% of offers of admission, respectively, turned into first-time enrollments in Fall 2020.



Table C.5 Total International Graduate Enrollment by Field of Study, Fall 2020 Admission Cycle

	% S	hares by Field o	% Shares by Degree Objectiv		
	Total	Master's & Certificate	Doctorates	Master's & Certificate	Doctorate
Total	225,975	119,811	106,164	53%	47%
Arts & Humanities	5%	4%	7%	36%	64%
Biological & Agricultural Sciences	8%	4%	12%	28%	72%
Business	12%	19%	3%	86%	14%
Education	3%	3%	4%	52%	48%
Engineering	27%	23%	31%	45%	55%
Health Sciences	4%	5%	4%	58%	42%
Mathematics & Computer Sciences	20%	26%	14%	68%	32%
Physical & Earth Sciences	6%	1%	12%	11%	89%
Public Administration & Services	1%	1%	1%	68%	32%
Social & Behavioral Sciences	8%	6%	10%	41%	59%
Other Fields	5%	7%	3%	70%	30%

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 (31%)—enrolled in an Engineering field.



# 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 (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 2020 CGS International Graduate Admissions Survey was sent to 771 U.S. colleges and universities, which were CGS members as of January 2020 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 2020. The 2020 survey was administered between October 7, 2020 and November 30, 2020. A total of 360 institutions, or 46.7%, responded to the survey. While the response rate is less than in years past, largely due to expanding the survey population 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 351 institutions for the final applications section with the reported total of 805,711 applications, 349 institutions for the offers of admission section with the reported total of 264,727 offers of admission, 326 institutions for the first-time enrollment section with the reported total of 51,613 first-time enrollments, and 330 institutions for the total enrollment section with the reported total of 225,975 total enrollments.

The summary of institutional control, region, and Carnegie Classification of institutions with valid responses for the first-time enrollment in Fall 2020 (N=326) is shown in Table D.1. Overall, two thirds (69%) of



responding institutions were public universities. Over one third (35%) were master's colleges and universities, while the majority (65%) were research universities. Similarly, the summary of institutional control, region, and Carnegie Classification of institutions with valid responses for the first-time enrollment in both Fall 2019 and Fall 2020 (N=280) is shown in Table D.2.

Table D.1 Characteristics of Institutions with Valid Responses for Fall 2020 First-time Enrollment

			Institution Control			Region			
	То	tal	Public	Private, not- for-profit	Private, for- profit	Midwest	Northeast	West	South
All Institutions	100%	326	69%	31%	0%	18%	20%	18%	43%
Doctoral Universities. Very High Research Activity	32%	103	75%	25%	0%	32%	13%	16%	39%
Doctoral Universities: High Research Activity	23%	75	73%	27%	.0%	16%	25%	19%	41%
Doctoral/Professional Universities	10%	33	45%	55%	0%	23%	24%	15%	38%
Master's-focused Institutions	29%	95	69%	31%	0%	26%	21%	5%	47%
All Other Institutions	6%	20	60%	40%	0%	23%	20%	16%	40%

Data Source: Council of Graduate Schools, International Graduate Admissions Survey 2020

Table D.2 Characteristics of Institutions with Valid Responses for Fall 2019 and Fall 2020 First-time Enrollment

			Institution Control			Region			
	Сто	enf	Public	Private, not- for-profit	Private, for- profit	Midwest	Northeast	West	South
All Institutions	100%	280	70%	30%	0%	18%	21%	1996	41%
Doctoral Universities: Very High Research Activity	34%	94	76%	24%	0%	32%	15%	15%	39%
Doctoral Universities: High Research Activity	22%	62	76%	24%	0%	1996	22%	19%	4196
Doctoral/Professional Universities	10%	27	48%	52%	0%	23%	24%	18%	35%
Master's-focused Institutions	28%	79	68%	32%	0%	28%	17%	6%	50%
All Other Institutions	6%	18	67%	33%	0%	23%	20%	17%	40%

Data Source: Council of Graduate Schools, International Graduate Admissions Survey 2020

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.

#### 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 2019 and Fall 2020

Changes between Fall 2019 and Fall 2020 are expressed as percentage differences, and only those institutions reporting valid data for both admission cycles were included in the computation. Fall 2019 data was drawn from the CGS International Graduate Admissions Survey, Fall 2019.

#### NAGAP/CGS Survey Methodology

The 2020 NAGAP/CGS Survey of Graduate Enrollment Management Professionals was fielded by the Council of Graduate Schools (CGS), in partnership with NAGAP, The Association for Graduate Enrollment Management. The survey asked a series of questions regarding U.S. international and domestic graduate enrollment trends in Fall 2020, outreach efforts, and graduate school pipeline issues, among other topics. The survey was sent out through Qualtrics to a diverse range of professionals who are part of the NAGAP community on November 10 and remained open until January 4, 2021. A total of 217 institutions responded to the survey.

### International Graduate Admissions Supplemental Questionnaire Methodology

As a short component of 2020 CGS International Graduate Admissions Survey, the Supplemental Questionnaire asks the overall first-time and continuing U.S. domestic and international enrollment in master's and doctoral programs for Fall 2019 and Fall 2020 as well as enrollment deferral, outreach efforts, and suspension of graduate admissions. The survey was sent out to graduate deans (or equivalent) at 761 CGS member institutions through Qualtrics on October 8, 2020 and remained open until January 8, 2021. A total of 115 membership institutions responded to the survey.



### 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), Oceana, and Sub-Saharan Africa. Specific definitions are listed below:

#### Asia

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, Taikistan, 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, and Taiwan.

#### Europe

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

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

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

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

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 2018 Carnegie Basic Classification. In the analysis of first-time enrollment by Carnegie Classification, the responding institutions were classified as Doctoral Universities: Very High Research Activity, Doctoral Universities: High Research Activity, Doctoral/Professional Universities, Master's Colleges and Universities, and All Other 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 on the project website.

# References

Baer, J., & Martel, M. (2020, November). Fall 2020 International Student Enrollment Snapshot Survey. Institute of International Education. Https://www.iie.org/en/Research-and-Insights/Publications/Fall-2020-International-Student-Enrollment-Snapshot

Okahana, H. (2017). International Graduate Applications and Enrollment: Fall 2016. Council of Graduate Schools.

Okahana, H., & West, C.P.L. (2019, October). Select insights from the NAGAP/CGS Survey of Graduate Enrollment Management Professionals. CGS Research-in-Brief. Council of Graduate Schools.

Okahana, H., Zhou, E., & Gao, J. (2020). *Graduate Enrollment and Degrees: 2009 to 2019.* Council of Graduate Schools.



# List of Institutions Contributing Fall 2020 Data

Albert Einstein College of Medicine

Albertus Magnus College Alfred University

Angelo State University

Antioch University-New England Appalachian State University

Arizona State University-Tempe Arkansas Tech University

Auburn University

Auburn University at Montgomery

Augusta University Ball State University

Baylor College of Dentistry-Texas A&M Univ HSC

Baylor College of Medicine Bemidji State University Benedictine University

Berry College

Binghamton University Boston University Bradley University Brenau University

Brigham Young University-Provo

Bryant University Buffalo State College

Caldwell University

California Institute of Integral Studies California Institute of Technology California Lutheran University

California Polytechnic State University-San Luis Obispo California State Polytechnic University-Pomona

California State University - San Bernardino California State University-Bakersfield California State University-East Bay California State University-Fresno

California State University-Fullerton California State University-Los Angeles

California State University-Los Angeles
California State University-Sacramento

California State University-San Marcos

Cameron University

Carson-Newman University
Case Western Reserve University
Central Connecticut State University

Central Michigan University Chapman University Chatham University

Christopher Newport University Claremont Graduate University Clark Atlanta University Clemson University Cleveland State University

College of Charleston Colorado School of Mines

Colorado State University-Fort Collins

Columbia College

Columbia College Chicago

Columbia University in the City of New York

Concordia University-Chicago

Cornell University Creighton University CUNY City College Dartmouth College Delta State University Duke University

East Carolina University

East Stroudsburg University of Pennsylvania

East Tennessee State University
Eastern Illinois University
Eastern Kentucky University
Eastern Michigan University

Eastern Washington University

Embry-Riddle Aeronautical University-Daytona Beach

Emory University

Fitchburg State University Florida Atlantic University Florida Institute of Technology Florida International University

Florida State University Fordham University Gallaudet University Geneva College

George Washington University Georgetown University

Georgia Institute of Technology-Main Campus

Georgia Southern University Georgia State University Gonzaga University

Governors State University Grand Valley State University

Hampton University Harvard University Hofstra University Howard University Illinois State University

Indiana University of Pennsylvania-Main Campus



Indiana University-Bloomington

Indiana University-Purdue University-Indianapolis Inter American University of Puerto Rico-Metro

Iona College

Iowa State University

Ithaca College

John Brown University John Carroll University Johns Hopkins University Kansas State University Kennesaw State University

Kent State University at Kent

Kutztown University of Pennsylvania

Lamar University Lehigh University Lewis University

Lincoln Memorial University Longwood University

Louisiana State University and Agricultural & Mechanical

College

Louisiana State University Health Sciences Center-New

Orleans

Loyola University Chicago Loyola University Maryland

Madonna University Marquette University Marymount University

Massachusetts Institute of Technology

McNeese State University Medical College of Wisconsin

Mercy College

Metropolitan State University of Denver

Michigan State University Michigan Technological University MidAmerica Nazarene University Middle Tennessee State University

Mississippi State University

Missouri State University-Springfield

Missouri University of Science & Technology

Missouri Western State University

Montana State University Morgan State University Mount Saint Joseph University New Jersey Institute of Technology

New Mexico State University-Main Campus

New York Institute of Technology

New York University

North Carolina A & T State University North Carolina Central University North Carolina State University at Raleigh North Dakota State University-Main Campus

Northeastern Illinois University Northeastern University Northern Arizona University Northern State University Northwestern University

Nova Southeastern University

Oakland City University
Oakland University

Ohio State University-Main Campus Ohio University-Main Campus

Oklahoma State University-Main Campus

Old Dominion University Oregon State University

Pace University

Pacific Lutheran University

Pennsylvania State University-Main Campus

Piedmont College

Pittsburg State University Portland State University Prairie View A & M University

Princeton University

Purdue University-Main Campus

Quinnipiac University Radford University

Rhode Island School of Design

Rice University

Rochester Institute of Technology

Rockefeller University

Rose-Hulman Institute of Technology Rutgers University - New Brunswick

Rutgers University-Camden Sacred Heart University Saint Ambrose University Salem State University Salisbury University San Jose State University Seattle Pacific University Seattle University

Shenandoah University Simmons University

Slippery Rock University of Pennsylvania South Dakota School of Mines and Technology

South Dakota State University Southeast Missouri State University Southeastern Louisiana University Southern Adventist University

Southern Arkansas University Main Campus



Southern Illinois University-Carbondale Southern Illinois University-Edwardsville

St Bonaventure University St. Mary's University Stanford University

State University of New York at New Paltz

Stevens Institute of Technology

Stockton University Stony Brook University Suffolk University SUNY at Fredonia

SUNY College at Brockport SUNY College at Oswego

SUNY College of Environmental Science and Forestry

SUNY Polytechnic Institute

Syracuse University
Tarleton State University

Teachers College at Columbia University

Temple University

Tennessee Technological University
Texas A & M International University
Texas A & M University-College Station
Texas A & M University-Corpus Christi
Texas A & M University-Kingsville

Texas Christian University Texas State University Texas Woman's University

The Catholic University of America

The College of Saint Rose

The New School

The University of Alabama

The University of Tennessee Health Science Center

The University of Tennessee-Chattanooga
The University of Tennessee-Knoxville
The University of Tennessee-Martin
The University of Texas at Arlington
The University of Texas at Austin
The University of Texas at Dallas
The University of Texas at El Paso
The University of Texas at San Antonio
The University of Texas at Tyler

The University of Texas Health Science Center at

Houston

The University of Texas Health Science Center at San

Antonio

The University of Texas Medical Branch at Galveston

The University of Texas of the Permian Basin

Towson University
Troy University

Tulane University of Louisiana

University at Buffalo

University of Akron Main Campus University of Alabama in Huntsville

University of Arizona University of Arkansas

University of Arkansas for Medical Sciences

University of California - Santa Cruz 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 Central Florida University of Central Missouri University of Central Oklahoma

University of Chicago University of Cincinnati

University of Colorado Colorado Springs

University of Colorado Denver/Anschutz Medical

Campus

University of Connecticut University of Dallas 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 Houston-Clear Lake

University of Idaho

University of Illinois at Chicago University of Illinois at Springfield

University of Illinois at 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 Massachusetts Medical School Worcester

University of Massachusetts-Boston University of Massachusetts-Dartmouth

University of Memphis University of Miami



University of Michigan-Ann Arbor

University of Michigan-Flint

University of Minnesota-Twin Cities

University of Mississippi

University of Mississippi Medical Center

University of Missouri-Columbia

University of Missouri-Kansas City

University of Missouri-St Louis

University of Nebraska at Kearney

University of Nebraska at Omaha

University of Nebraska Medical Center

University of Nevada-Las Vegas

University of Nevada-Reno

University of New Hampshire-Main Campus

University of New Haven

University of New Mexico-Main Campus

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 Pembroke

University of North Carolina Wilmington

University of North Dakota

University of North Florida

University of North Texas

University of Northern Colorado

University of Northern Iowa

University of Notre Dame

University of Oklahoma-Norman Campus

University of Oregon

University of Pennsylvania

University of Pittsburgh-Pittsburgh Campus

University of San Diego

University of San Francisco

University of South Carolina-Columbia

University of South Dakota

University of South Florida-Main Campus

University of Southern Mississippi

University of St Thomas

University of Texas Southwestern Medical Center

University of the Incarnate Word

University of Toledo

University of Utah

University of Vermont

University of Virginia-Main Campus

University of West Alabama

University of West Georgia

University of Wisconsin - Green Bay

University of Wisconsin-Madison

University of Wisconsin-River Falls

University of Wisconsin-Stevens Point

University of Wyoming

Ursuline College

Valdosta State University

Virginia Commonwealth University

Virginia Polytechnic Institute and State University

Wake Forest University

Washington State University

Washington University in St Louis

Watson School of Biological Sciences

Wayne State University

West Virginia University

Western Carolina University

Western Illinois University

Western Kentucky University

Western Michigan University

Western Washington University

Wheaton College

Wichita State University

William & Mary

William Paterson University of New Jersey

Winthrop University

Worcester Polytechnic Institute

Wright State University-Main Campus

Yale University

Note: Not all responding institutions provided valid data for all the sections of the survey (i.e., final applications, offers of admission, first-time enrollment, and total enrollment). This list comprises all institutions that submitted at least one section of the survey. The number of institutions listed above does not necessarily match with the numbers of institutions providing complete and valid data to various sections.



# End Note

# Author Contributions and Acknowledgments

This report was prepared by Enyu Zhou and Janet Gao, under the direction of Hironao Okahana. EZ played the principal role in data collection, analysis, and preparation of data tables and figures, as well as the drafting of the report narrative. JG played the principal role in data cleaning and preparing the NAGAP/CGS Survey and International Graduate Admissions Supplemental Questionnaire Analysis. HO is the project director for the CGS International Graduate Admissions Survey and also served as the project director for the NAGAP/CGS Survey of Graduate Enrollment Management Professionals.

The authors thank Harper Garfinkle for her contribution in data visualization and report cover and layout design. Katherine C. Hazelrigg for copyediting and media relations for the release of this report. Matthew Linton for copyediting and preparation of the project website. The authors also thank Suzanne T. Ortega for feedback on earlier drafts. The authors thank the CGS Committee on Research and Information Services for their ongoing interest in and support of the survey. The authors thank NAGAP: The Association for Graduate Enrollment Management and Liaison International for their support with the 2020 NAGAP/CGS Survey of Graduate Enrollment Management Professionals. Finally, and most importantly, the authors express much gratitude and appreciation to the graduate deans, institutional researchers, and other staff at the colleges and universities who completed the CGS International Graduate Admissions Survey this and every year.

#### The 2021 CGS Committee on Research and Information Services

Amanda C. Bryant-Friedrich, Wayne State University – Committee Chair Joshua Barker, University of Toronto
Brian Carolan, Sacred Heart University
Elaine Frey, California State University, Fullerton
Devon Jensen, University of Central Florida
Scott Lanyon, University of Minnesota
Craig Ogilvie, Montana State University
Amanda L. Ostreko, University of Kansas
Jennifer Teitle, University of Iowa
Tammi Vacha-Haase, Boise State University
Dana Williams, Howard University

# Contact and Suggested Citation

International Graduate Applications & Enrollment: Fall 2020 is a report of the Council of Graduate Schools and was prepared under the direction of Hironao Okahana by:

Enyu Zhou

Senior Analyst Council of Graduate Schools Ianet Gao

Research & Program Associate Council of Graduate Schools

Suggested Citation:

Zhou, E., & Gao, J. (2021). *International Graduate Applications & Enrollment: Fall 2020*. Council of Graduate Schools.



Project Contact: Hironao Okahana Vice President, Research & Knowledge Development Project Director, CGS International Graduate Admissions Survey Council of Graduate Schools

(202) 696-1560 hokahana@cgs.nche.edu

Copyright © 2021 Council of Graduate Schools, Washington, DC

ALL RIGHTS RESERVED. No part of this work covered by the copyright herein may be reproduced or used in any form by any means – graphic, electronic, or mechanical including photocopying, recording, taping, Web distribution, or information storage and retrieval systems – without the written permission of the Council of Graduate Schools, One Dupont Circle, NW, Suite 230, Washington, DC 20036-1146.