



Herbert Wertheim College Of Engineering

# 2020 – 2021 REPORT OF INTERNATIONAL ACTIVITY

University of Florida International Center  
Office for Global Research Engagement

*Supporting Faculty to Build Partnerships Globally*

## University of Florida International Center

The **OFFICE FOR GLOBAL RESEARCH ENGAGEMENT (OGRE)** facilitates international research to increase UF's global presence. OGRE supports faculty to advance international research at UF and around the world.

In pursuit of international research excellence, our role is to:

- **INTRODUCE** faculty new to international research to active university networks and experienced mentors.
- **CONNECT** faculty, students, and staff with those who share research interests and are interested in working in similar countries or regions.
- **FOSTER** research networks for internationally focused communities of practice.
- **EXPAND** UF's knowledge and capacity in working in international venues.
- **ASSIST** faculty, students, and staff in identifying sponsored research opportunities and programs.
- **FACILITATE** the process of navigating the UF administrative process for conducting international research.
- **SUPPORT** Fulbright visiting scholars at UF, and UF scholars traveling abroad.

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SUPPORTING FACULTY TO BUILD PARTNERSHIPS GLOBALLY



# 2020/2021

# Report of International Activity

Herbert Wertheim College of Engineering

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# 1. INTRODUCTION

In the 2020/2021 academic year, the University of Florida (UF) continued to pursue its mission of education excellence while facing the greater challenges of a global pandemic. While classes resumed and faculty, staff, and students adapted to changing conditions, the International Center found new and innovative ways to support our international programs and serve our global community. Throughout, we continued to serve UF's broader global mission and are proud to be a leader in fostering international understanding and developing a network of students and scholars at home and around the world.

This report documents international activity at the University of Florida. The 2019/2020 update presents the global footprint for the Herbert Wertheim College of Engineering for the academic year. Similar to past reports, the data summarize a considerable volume of international activity, and continues to be testimony to the university's and the colleges' commitment to international research, education, and international exchange.

The report documents the college's international partnerships, the investment into faculty development programs, an estimate of the extent of international research, the number of international visitors working and studying at UF, the number of international students, the extent of applications for graduate programs from students worldwide, engineering study abroad programs, efforts dedicated to internationalizing the curricula, and a summary of where college faculty, students and staff are travelling. This year, we have added information about our international alumni, showcasing the global reach of our graduates.

The data represent a snapshot of international activity captured in August 2020. For many categories, the numbers fluctuate; for example, the number of formal agreements with foreign institutions changes daily as new partnerships are introduced and others are expired. For some data, such as for international graduate applications and the number of international students, the report captures Fall numbers only to avoid double counting and redundancies.

## Herbert Wertheim College of Engineering

- 40 International MOUs in 17 countries.
- 11 active IRB studies in 10 countries.
- 80 International Visiting Scholars from 17 countries.
- 5,785 international student applications from 118 countries.
- 2,676 international students from 77 countries.
- 34 students studied abroad and travelled to 9 countries.
- Of all graduating engineering students, 214 or 8% had at least one study abroad experience.
- University of Florida awarded the Staff International Educator of the Year to Nancy McIlrath.
- Global Fellowship awarded to two engineering faculty.
- 6 attended a Fulbright event.
- 47 undergraduate students enrolled in the International Scholars Program.
- Faculty, students, and staff made 28 trips to 13 countries.
- The UF Alumni Association reports on 3,441 engineering alumni living in 113 countries.

The activities reported in this document demonstrate how international efforts at UF, and in Engineering, contribute to a fundamental university goal to prepare our students to better navigate the increasingly complex challenges of a globalized world. The intent is to highlight the extent and

Now more than ever, the UF International Center embraces its global mission as we plan a way forward in pursuit of international engagement in a post-pandemic world.

scope of UF's and the college's international activity in one inclusive report. As a top ranked, R1, public university, engineering faculty engage in research and international collaborative activity that is, by its sheer number, a challenge to document. Their scholarship and classroom activity impacts international content daily and, with almost 5,000 faculty and more than 200 research and education centers, bureaus, and institutes at UF, documenting their international scholarly activity is difficult. For this reason, this report cannot be comprehensive of all international activity; however, it provides a benchmark from which we can begin to measure our global reach. Indeed, every indication suggests the Gator Nation extends substantially to the wider global community.

## 2. INTERNATIONAL MEMORANDA OF UNDERSTANDING (MOU)

The University of Florida connects to the world's best international universities and institutions through formal partnerships supported by UF's International Memoranda of Understanding (MOUs). These agreements facilitate research among faculty; enable faculty and student exchanges; protect intellectual property; and serve as a basis for ensuring ethical best practice. The relationships that may flourish as a result of these agreements is an important aspect of our internationalization efforts.

- 40 International MOUs in 17 countries.
- 11% of all UF International MOUs.
- 30 (75%) Cooperative International MOUs in 15 countries.
- 9 (22.5%) Reciprocal International MOUs in 6 countries.
- One MOU to cover special student exchange agreements.

The MOU database is dynamic. On a regular basis, the International Center enters into new agreements, updates existing partnerships, and terminates those that are expired or no longer relevant. The data tabulated in this report represent the UF Agreements for the 2020/2021 academic year.

The International Center manages 374 international MOUs. The majority fall under two broad categories of Agreements – Cooperative and Reciprocal.

- At UF, most MOUs are Cooperative. The Cooperative MOUs or Agreements are as diverse as the needs of our faculty. These collaborative partnerships provide a framework to pursue collaborative activity and do not represent a legal relationship. Often, they start as a one-to-one collaboration with a UF partner and over the length of the agreement result in meaningful scholarly partnerships.
- At UF, almost one quarter of all International MOUs are Reciprocal Agreements, which are a true exchange program MOUs where students from each institution spend time at the host institution as a non-degree, seeking student.
- There are a few International MOUs to cover combined and dual degree programs, transfer programs from other institutions, or special agreements among universities to accommodate unique circumstances for student exchanges.

### College International MOUs

- 40 international MOUs, 11% of all MOUs at UF.
- 30 Cooperative International MOUs (75% of all engineering MOUs).
- 9 Reciprocal MOUs (22.5% of all engineering MOUs).
- 1 MOU to facilitate a dual degree with a partner university.
- Since 2017, the number of International MOUs have decreased by 30% (Cooperative by 33% and Reciprocal by 18%). However, for the last two years, the numbers have been relatively stable (Figure 2-1).

Figure 2-1: Engineering International MOUs 2017-2021

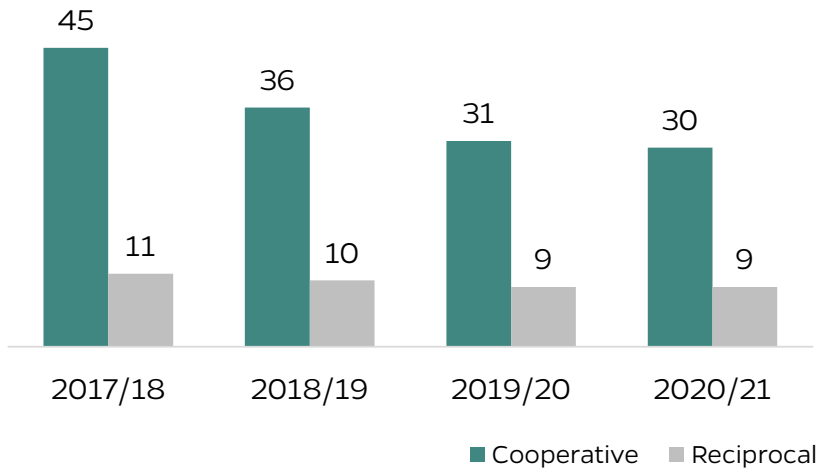


Table 2-1: Number of Agreements by College/Unit

College/Unit	UFIC Administered MOUs			Total	
	Cooperative	Reciprocal	Other	Number	Percent
Arts	3	-	-	3	0.8
Business, Warrington College	4	38	1	43	11.5
Center for Latin American Studies	30	-	-	30	8.0
Dentistry	1	-	-	1	0.3
Design, Construction and Planning	14	4	-	18	4.8
Education	2	-	-	2	0.5
Emerging Pathogens Institute	4	-	-	4	1.1
Engineering, Herbert Wertheim College	30	9	1	40	10.7
Florida Museum of Natural History	1	-	-	1	0.3
Health and Human Performance	11	2	-	13	3.5
Institute of Food and Agricultural Sciences	87	4	3	94	25.1
Journalism and Communications	1	1	-	2	0.5
Law, Fredric G. Levin College	4	1	-	5	1.3
Liberal Arts and Sciences	30	31	2	63	16.8
Medicine	16	-	-	16	4.3
Nursing	2	-	-	2	0.5
Pharmacy	8	1	1	10	2.7
Public Health and Health Professions	6	1	-	7	1.9
University Wide (International Center, Office of Research, Graduate School)	16	2	-	18	5.1
Veterinary Medicine	2	-	-	2	0.5
<b>TOTAL</b>	<b>272</b>	<b>94</b>	<b>8</b>	<b>374</b>	<b>100%</b>



- Formal International MOUs in the college represent collaborative activity in 17 countries.
- The greatest number of International MOUs are with Brazil (16%), China (10%), and Ecuador (7%).

Figure 2-2: Location of Engineering International MOUs



- 30 Cooperative MOUs in 14 countries and one with an international institution headquartered in the U.S.
- The most, 6 MOUs each in India and in Italy.
- 9 Reciprocal MOUs in 5 Countries and one with an international institution headquartered in the U.S.
- 1 Dual Degree MOU with a partner in South Korea.
- The geographic diversity is generally a reflection of the size of the unit. The Herbert Wertheim College of Engineering has 40 active international MOUs in 16 countries and one in the U.S.

Table 2-2: Geographic Diversity of Agreements by College/Unit

College/Unit	Number of MOUs	Number of Countries
Arts	3	3
Business, Warrington College	43	22
Center for Latin American Studies	30	12
Dentistry	1	1
Design, Construction and Planning	18	11
Education	2	1
Emerging Pathogens Institute	4	4
Engineering, Herbert Wertheim College	40	17
Florida Museum of Natural History	1	1
Health and Human Performance	13	6
Institute of Food and Agricultural Sciences	94	40
Journalism and Communications	2	2

College/Unit	Number of MOUs	Number of Countries
Law, Fredric G. Levin College	5	3
Liberal Arts and Sciences	63	31
Medicine	16	11
Nursing	2	2
Pharmacy	10	10
Public Health and Health Professions	7	6
University Wide (International Center, Office of Research, Graduate School)	18	14
Veterinary Medicine	2	2
TOTAL	374	MOUs in 82 Countries

# 3. UF'S GLOBAL RESEARCH FOOTPRINT

- 11 international IRB studies.
- Research is active in 10 countries.

## Institutional Review Boards (IRB): An Indicator of Global Research Capacity

Documenting the international research conducted by faculty, staff, and student at UF is monumental. There is no consistency in labeling research as international unless it physically conducted outside of the US. One indicator of our research footprint can include applications to UF's Institutional Review Boards (IRB) oversight of human subjects research.

The IRB is charged with protecting the rights and welfare of participants in clinical trials and other human subjects research studies. UF IRB offices reviews and approves all research involving human subjects to ensure the welfare and rights of research participants are protected as mandated by federal and state laws, local policies, and ethical principles. As such, UF faculty, staff, and students must provide the IRB with a detailed plan of how their research will ensure the safety and welfare of any people who participate in their research project. When the research is conducted outside of the U.S., faculty, staff, and students are required to submit their research protocol that is compliant with the regulations in the U.S. and in the country where the research will take place.

The database that stores the applications for IRB approvals can serve as one indicator of the extent of international research at UF. It is not a comprehensive list and does not include research activities that do not involve people directly in the research methodology. It would not include studies that:

- Collect physical data,
- Reflect an international research collaboration among colleagues,
- Rely primarily on secondary data,
- Conduct primarily library or archival research, or
- Are exploratory studies intended to train students.

Within the above parameters, several colleges (e.g., Colleges of Engineering and the Arts) are underrepresented in this summary. As such, these data can only partially highlight the scope of UF's global research.

## Exempt Approved and Approved IRB Studies<sup>1</sup>

- 11 international IRB studies, 2% of all UF studies.
- 9 of studies submitted to the UF IRB for review, qualified to be *Exempt Approved* status from further review by the Code of Federal Regulations (CFR). To qualify the study can meet one of the following criteria:
  - Research is conducted in an established educational setting and involves instruction.

<sup>1</sup> UF Definitions of Exempt Human Subjects Research -- <https://irb.ufl.edu/irb02/forms-templates-guidelines/irbrev.html>

- Research using educational tests, surveys, interviews, or observations of public behavior.
- Research that does not impose risk or impact on any subject.
- Secondary research involving access of identifiable data.
- Two of the eleven engineering studies had undergone full IRB review.

## IRB Studies by College

- Less than two percent of UFs research requiring IRB oversight from the Herbert Wertheim College of Engineering. The low number reflects the nature of engineering research, which, in the majority of cases, does not include human subjects.

Table 3-1: Number and Percent of IRB Protocols

College/Unit	Number	Percent	Number of Countries
Arts	13	2.0	12
Business, Warrington College	25	3.8	5*
Center for Latin American Studies	22	3.4	17
Dentistry	1	0.2	1
Design, Construction and Planning	22	3.4	22
Education	34	5.2	19*
Emerging Pathogens Institute	10	1.5	4
Engineering, Herbert Wertheim College	11	1.7	10
Florida Museum of Natural History	1	0.2	1
Health and Human Performance	27	4.1	14*
Institute of Food and Agricultural Sciences	90	13.7	50*
Journalism and Communications	34	5.2	17*
Libraries, George A. Smathers	2	0.3	2
Liberal Arts and Sciences	188	28.7	79*
Medicine	92	14.0	43
Nursing	7	1.1	6
Pharmacy	16	2.4	9
Public Health and Health Professions	34	5.2	19
UF International Center	10	1.5	9
UF Other	5	0.8	4
Veterinary Medicine	12	1.8	11
TOTAL	656	100%	127 Countries

\*Including studies that are global or regional encompassing multiple countries.

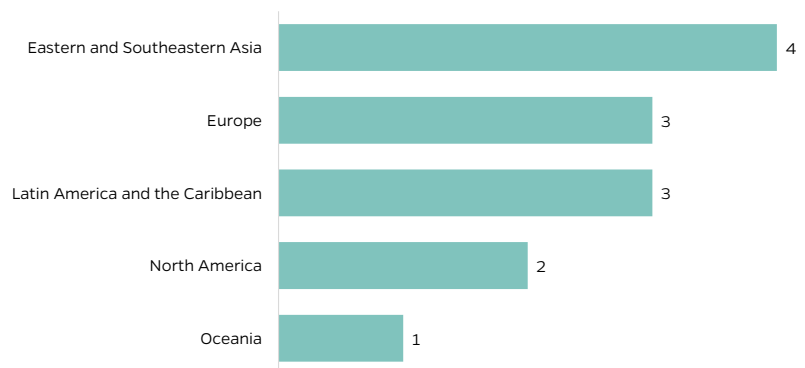
## Number of IRB Studies by Country and Region

Table 3-2: Number of Engineering IRB Studies by Country

Country	Number of Studies
Canada	2
Italy	2
Vietnam	2
Brazil	1
Colombia	1
Japan	1
Mexico	1
New Zealand	1
Norway	1
South Korea	1
TOTAL	13

- Engineering faculty, students and staff are conducting research in 10 countries (Table 3-2)<sup>2</sup>.
- Four studies in Eastern and Southeastern Asia: Japan, South Korea and two in Vietnam.
- Three studies in Europe: Two in Italy and one in Norway.
- Three studies in Latin America and the Caribbean: One each in Brazil, Colombia, and Mexico.
- Two studies in Canada.
- One study in New Zealand.

Figure 3-1: Number of Engineering International IRB Studies by Region



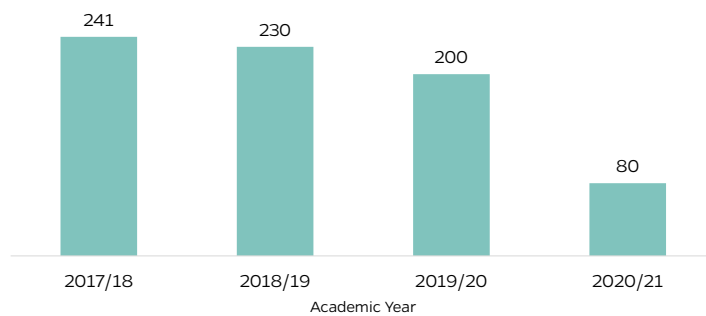
<sup>2</sup> Some IRB studies are conducted in multiple countries and therefore the number of countries listed may be greater than the number of projects.

# 4. INTERNATIONAL VISITING SCHOLARS

International Visiting Scholars are vital in supporting the global mission of the University of Florida. International Visitors promote cultural exchange, enrich international research, and connect UF to leading universities in the world. This year, UF's visiting scholars faced the additional challenge from the COVID-19 pandemic, international travel restrictions, and limited access to U.S. Embassies and Consulates for visa processing. Some of our visiting scholars had to return to their home country earlier than planned, while others were not able to travel and have a physical presence on campus. The impact of the pandemic will continue to make a difference in our numbers of visitors throughout our next academic year. The number of scholars at UF for the 2020/2021 academic year, dropped substantially and continues a downward trend. This academic year, the college hosted 80 International Visiting Scholars and had a substantial decrease most likely tied to travel restrictions and embassy closures (Figure 4-1).

- 80 international visiting scholars hosted by the college.
- 9% of all visiting scholars at UF.
- The majority, 96% are Research Scholars.
- International visiting scholars from 17 countries.

Figure 4-1: Number of Visiting Scholars by Year (Engineering)



Visiting scholars fit into one of five categories:

1. Professor – Teaching is the primary function; more than 50% of their time devoted to teaching. Maximum duration is five years.
2. Research Scholar – Research is the primary function; more than 50% of their time devoted to research. Maximum duration is five years.
3. Short Term Scholar – Program allows research and teaching. Maximum duration of six-months.
4. Student Intern – International students completing an internship which fulfills an educational objective towards the completion of the student's degree from their home institution. They must engage in a minimum of 32 hours per week of structured internship activities and may take part-time UF courses. The maximum duration of their program is 12 months.

## International Visiting Scholars by College

- The College hosts 9% of all visiting scholars to UF.

Table 4-1: International Visiting Scholars by College

College	Professor	Research Scholar	Short-Term Scholar	Student Intern	Total (% of Total)
Arts	1	2	-	-	3 (0.3)
Business, Warrington College	1	13	-	-	14 (1.5)
Center for Latin American Studies	-	-	1	-	1 (0.1)
Dentistry	-	17	-	-	17 (1.8)
Design, Construction and Planning	-	12	1	-	13 (1.4)
Education	-	35	1	-	36 (3.9)
Engineering, Herbert Wertheim College	-	77	3	-	80 (8.7)
Florida Museum of Natural History	-	6	1	-	7 (0.8)
Health and Human Performance	-	11	1	-	12 (1.3)
Institute of Food and Agricultural Sciences	2	313	52	9	376 (40.8)
Journalism and Communications	-	4	-	-	4 (0.4)
Law, Levin College	-	2	-	-	2 (0.2)
Liberal Arts and Sciences	6	119	9	-	134 (14.5)
Medicine	-	131	3	-	134 (14.5)
Nursing	-	1	-	-	--1 (0.1)
Pharmacy	-	44	1	2	47 (5.1)
Public Health and Health Professions	-	16	-	-	16 (1.7)
Veterinary Medicine	-	20	-	-	20 (2.2)
Whitney Laboratory	-	5	-	-	5 (0.5)
<b>TOTAL</b>	<b>10</b>	<b>828</b>	<b>73</b>	<b>11</b>	<b>922 (100)</b>

## Category of International Visiting Scholars

Table 4-2: International Scholars Hosted by Engineering

Category of Visiting Scholar	Number	Percent of UF
Research Scholar	77	9.3
Short-Term Scholar	3	4.1
<b>TOTAL</b>	<b>80</b>	<b>8.7</b>

## Country of Citizenship of International Visiting Scholars

- International Visiting Scholars hosted by the college from 17 countries.
- 46% are from China (29%), 7% from France and India each, and the remainder are from 26 countries, where no country accounts for more than 5% of scholars.
- Half of all Research visiting scholars are from China (50.4%).
- Of the nine Short-term scholars, five are from France, the rest from Italy, Pakistan, Poland, and the UK.

Figure 4-2: All Engineering International Visiting Scholars by Citizenship

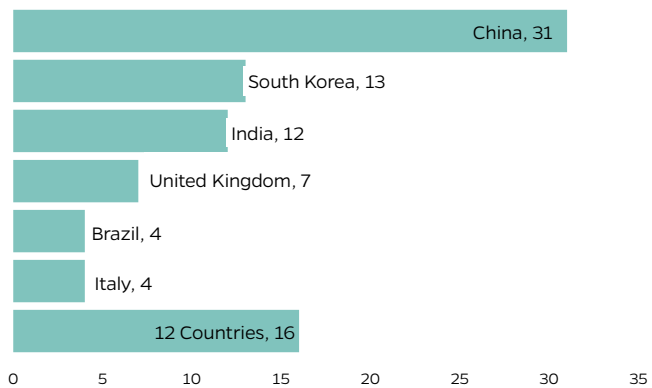


Figure 4-3: International Visiting Scholars Hosted by Engineering



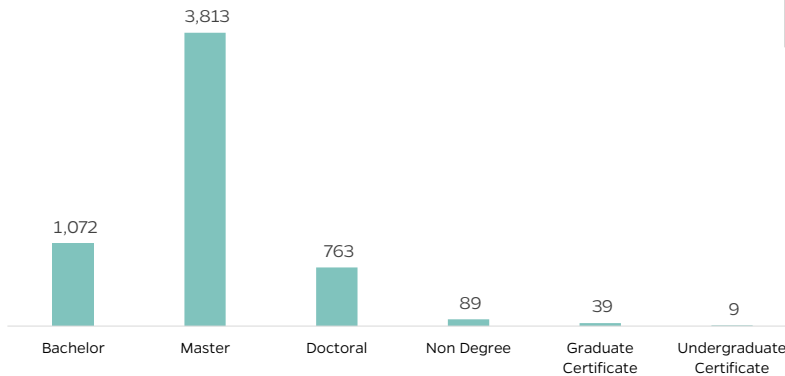


# 5. INTERNATIONAL STUDENT APPLICATIONS

## International Applications by Type of Program

- 5,785 international students applied for degrees to the College of Engineering.
- 32% of all international applications to UF.

Figure 5-1: International Student Applications by Degree



- Engineering receives the most international applications for master’s degrees than any other UF college.
- Majority of engineering international applications are to engineering master level programs.

- College received 5,785 international applications from students in 118 countries.
- 32% of all UF international Applications are to the Herbert Wertheim College of Engineering.
- The majority of international applications are to the college’s master’s programs
- The majority (40%) of engineering international applications are from China, and 33% from India.

Table 5-1: Number and Percent of International Applications to College of Engineering

Degree	Number	Percent of Engineering	Percent of UF
Bachelor	1,072	18.5	<b>19.2</b>
Master’s	3,813	65.9	<b>49.4</b>
Doctorate	763	13.2	<b>20.6</b>
Non-Degree	89	1.5	<b>14.7</b>
Graduate Certificate	39	0.7	<b>18.4</b>
Undergraduate Certificate	9	0.2	<b>15.8</b>
<b>TOTAL</b>	<b>5,785</b>	<b>100%</b>	<b>32.3</b>

## International Applications by College

- The Herbert Wertheim College of Engineering receives the greatest number of international applications at UF (32%).

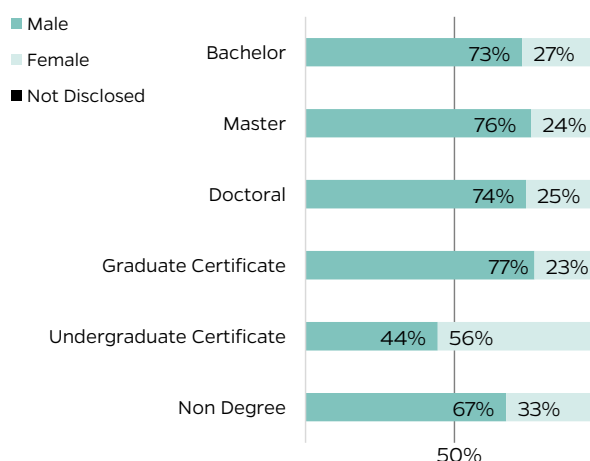
Table 5-2: International Applications (Number and Percent) by College

College	Number	Percent
Arts	276	1.5
Business, Warrington College	2,356	13.1
Dentistry	327	1.8
Design, Construction and Planning	568	3.2
Education	399	2.2
Engineering, Herbert Wertheim	5,785	32.3
Health and Human Performance	383	2.1
Institute of Food and Agricultural Sciences	1,207	6.7
Journalism and Communications	418	2.3
Law	298	1.7
Liberal Arts and Sciences	4,385	24.5
Medicine	347	1.9
Nursing	98	0.5
Pharmacy	338	1.9
Public Health and Health Professions	609	3.4
Veterinary Medicine	123	0.7
TOTAL	17,917	100%

## Student Profile

- 75% of all applications to the college are from male students and 25% from female.
- For graduate programs (master's and doctoral), the ratio of male to female applications is slightly higher than the college average (76/24).
- Female to male ratio is only higher for undergraduate certificate programs only.
- Non degree program applications have a slightly lower male to female ration (67/33).

Figure 5-2: Male to Female Ratio by Degree Type



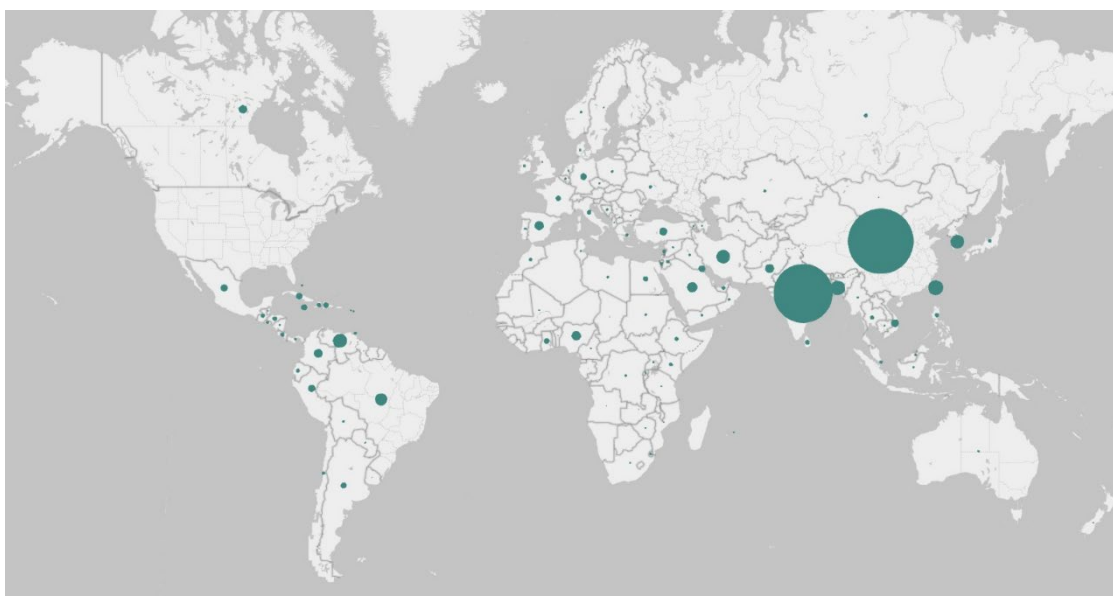
## International Applications by Citizenship

- The college received applications from 118 countries.
- Three quarters of all applications come from China, India, and Taiwan.

Table 5-3: Number and Percent of International Applications by Country

Country of Citizenship	All International Applications	
	Number	Percent
China	2,329	40.3
India	1,891	32.7
Taiwan	119	2.1
Bangladesh	110	1.9
Venezuela	106	1.8
Iran	101	1.7
112 Countries	1,129	19.5
TOTAL	5,785	100.0%

Figure 5-3: Country of Citizenship of Engineering International Applications



- Engineering receives 4,615 international applications for graduate programs (Master, Doctoral, and Graduate Certificate) from 88 countries.
- 84% of international applications for engineering graduate programs are from China and India.
- 1,081 international applications for engineering undergraduate programs (bachelor's degrees and undergraduate certificate programs) come from 108 countries.
- Although most undergraduate applications are from China and India, it is a relatively small number of applications. Undergraduate applications are from a greater diversity of countries compared to that for graduate programs.

Table 5-4: International Applications for Graduate and Undergraduate Programs by Country

Country of Citizenship	Graduate (Master, Doctoral, Certificate)		Country of Citizenship	Undergraduate (Bachelor and Certificate)	
	Number	Percent		Number	Percent
China	2,136	46.3	China	191	17.7
India	1,721	37.3	India	138	12.8
Taiwan	109	2.4	Venezuela	94	8.7
85 Countries	649	14.1	105 Countries	658	60.9
TOTAL	4,615	100.0%	TOTAL	1,081	100.0%

# 6. INTERNATIONAL STUDENTS

Each year, the International Center welcomes and assists students from around the world to help them make a smooth transition to student life at the University of Florida. The data reported here reflect UF's submission to the Open Doors Report to the US Department of State, Bureau of Educational, and Cultural Affairs.

## Number of International Students Registered for Classes and OPT<sup>3</sup>

- 48% of all international students. The highest percentage at UF.
- In the Fall 2020 semester, there were 2,676 international students registered in the College of Engineering.

- 2,676 international students from 77 countries.
- 48% of all international students (including OPT) in engineering.
- 1,382 international students enrolled in classes.
- 1,294 graduates of the college are registered in Optional Practical Training (OPT).
- 91% of all engineering international students (including OPT) are enrolled in a graduate program.
- 76% of all engineering international students are male, 24% are female.

### Herbert Wertheim College of Education

#### Non-OPT Students

- 1,382 students.
- 38% of all UF (non-OPT) international students.
- International students are from 66 countries: 37% from India and 36% from China.
- 86% are enrolled in graduate programs (56% working toward a master's degree and 30% pursuing a doctoral degree).
- 14% international students are enrolled in a bachelor's degree program.

#### OPT Students

- 1,294 students.
- 65% of all OPT students at UF.
- International OPT students from 45 countries: 69% from India and 22% from China.
- Of college OPT registered students, 97% have completed a graduate degree (83% a master's and 14% a doctorate).
- 3% of college OPT students completed a bachelor's degree

<sup>3</sup> Optional Practical Training provides international students an opportunity to seek "temporary employment for practical training directly related to the student's major area of study." The student can use it during or after program completion. Pre-completion OPT is always part-time and can be used at any time during the degree program. Post-completion OPT is full-time and is granted only after graduation or completion of the degree program.

Figure 6-1: Number of Engineering International Students by Degree

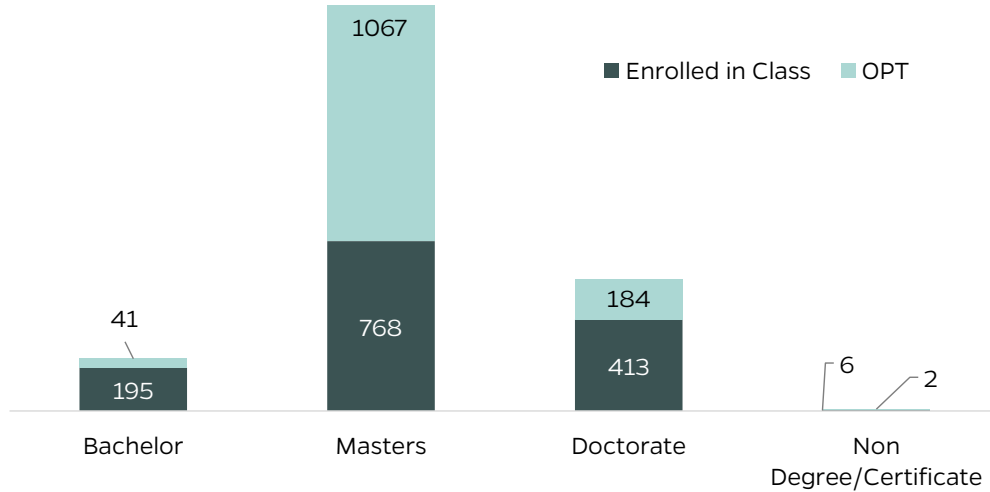


Table 6-1: UF International Students by College and Degree (Non-OPT)

College	Bachelor Degree		Graduate Degree		Non Degree		Total	
	No.	%	No.	%	No.	%	No.	%
Arts	9	1.2	34	1.2	1	6.7	44	1.2
Business, Warrington College	139	18.8	153	5.3	1	6.7	293	8.1
Dentistry	-	-	5	0.2	-	-	5	0.1
Design, Construction and Planning	25	3.4	130	4.5	1	6.7	156	4.3
Education	9	1.2	100	3.5	1	6.7	110	3.0
Engineering, Herbert Wertheim	195	26.4	1,181	41.2	6	40.0	1,382	38.1
Health and Human Performance	46	6.2	55	1.9	-	-	101	2.8
Institute of Food and Agricultural Sciences	55	7.4	390	13.6	2	13.3	447	12.3
Journalism and Communications	51	6.9	40	1.4	-	-	91	2.5
Law, Levin College	-	-	15	0.5	-	-	22	0.6
Liberal Arts and Sciences	206	27.9	518	18.1	3	20.0	727	20.0
Medicine	-	-	72	2.5	-	-	72	2.0
Nursing	2	0.3	10	0.3	-	-	12	0.3
Pharmacy	-	-	65	2.3	-	-	65	1.8
Public Health and Health Professions	2	0.3	78	2.7	-	-	80	2.2
Veterinary Medicine	-	-	20	0.7	-	-	20	0.6
<b>TOTAL</b>	<b>739</b>	<b>100%</b>	<b>2,866</b>	<b>100%</b>	<b>15</b>	<b>100%</b>	<b>3,627</b>	<b>100%</b>

Table 6-2: OPT Students by College (Number and Percent) <sup>4</sup>

College	Bachelor's Degree		Graduate Degree*		Total	
	No.	%	No.	%	No.	%
Arts	1	1.0	5	0.3	6	0.3
Business, Warrington College	20	20.4	194	10.3	214	10.8
Dentistry	-	-	-	-	-	-
Design, Construction and Planning	4	4.1	77	4.1	81	4.1
Education	-	-	14	0.7	14	0.7
Engineering, Herbert Wertheim	41	41.8	1,251	66.7	1,292	65.5
Health and Human Performance	2	2.0	16	0.9	18	0.9
Institute of Food and Agricultural Sciences	7	7.1	115	6.1	122	6.2
Journalism and Communications	9	9.2	5	0.3	14	0.7
Law, Levin College	-	-	20	1.1	20	1.0
Liberal Arts and Sciences	13	13.3	101	5.4	114	5.8
Medicine	-	-	30	1.6	30	1.5
Nursing	-	-	1	0.1	1	0.1
Pharmacy	-	-	26	1.4	26	1.3
Public Health and Health Professions	1	1.0	18	1.0	19	1.0
Veterinary Medicine	-	-	2	0.1	2	0.1
<b>TOTAL</b>	<b>98</b>	<b>100%</b>	<b>1,875</b>	<b>100%</b>	<b>1,973*</b>	<b>100%</b>

## International Students: Home Country

- International students enrolled in the college, including OPT, are from 77 countries.
- Half of all international students from Central and Southern Asia and one third from Eastern and Southeastern Asia.
- 53% from India and 29% from China.

Table 6-3: Region of Citizenship (All Students, Number and Percent)

Country of Citizenship	Non-OPT		OPT		Total	
	Number	Percent	Number	Percent	Number	Percent
Central and Southern Asia	580	42.0	903	69.8	1,483	55.4
Eastern and Southeastern Asia	586	42.4	321	24.8	907	33.9
Latin America and the Caribbean	93	6.7	34	2.6	127	4.8
Europe	47	3.4	18	1.4	65	2.4
North Africa and Western Asia	49	3.6	12	0.9	61	2.3
Sub Saharan Africa	21	1.5	4	0.2	25	0.9
North America	5	0.4	-	-	5	0.2
Oceania	1	0.1	2	0.2	3	0.1
<b>TOTAL</b>	<b>1,382</b>	<b>100%</b>	<b>1,294</b>	<b>100%</b>	<b>2,676</b>	<b>100%</b>

<sup>4</sup> Does not include students who are enrolled in a non-degree or a certificate program.

Figure 6-2: Country of Citizenship of Engineering International Students (Including OPT)





# 7. STUDY ABROAD PROGRAMS

- 34 engineering students studied abroad (12% of all UF study abroad students).
- Of all graduating engineering students, 214 or 8% had at least one study abroad experience.
- Students travelled to nine countries, mostly to Spain and Italy.

For Study Abroad Services, the 2020-2021 Academic Year required endless planning for a multitude of logistical scenarios. The Study Abroad team spent a significant amount of time analyzing program feasibility and the financial implications of attempting to run programs during the pandemic. As expected, participation dramatically decreased over the past year, and only 276 were able to study

abroad, with the majority of those students studying in Europe and Asia. We also saw an increase in virtual international opportunities, with around 50 UF students participating in either a virtual international internship or program. This is a trend we expect to continue as more students look for financially accessible ways to internationalize their degree.

While the pandemic has certainly placed additional challenges on study abroad the past year, the overall trajectory of study abroad at UF over the past few decades has not faltered. The International Center expects to see more return to normalcy over the 2021-2022 academic year, and plans to continue diversifying study abroad programs, and the students who participate in them. Our plans for the upcoming year include greater outreach to underrepresented students and an increase in programming to non-traditional destinations. And as we move forward in years to come, UF Study Abroad Services plans to continue the mission of providing transformative global learning opportunities that challenge students to embrace differences and foster the intercultural competency to succeed in today’s interconnected world.

## Study Abroad by College

- With ongoing Covid 19 travel concerns, only 34 engineering students participated in a study abroad course. Pre pandemic, the number of study abroad students was substantially higher (277 in 2018, pre-covid).
- 12% of all study abroad students are from the college.

Table 7-1: Number of Students who Participated in Study Abroad by College

College	Number of Study Abroad Students	Percent of All UF Study Abroad Students
Arts	2	0.7
Business, Warrington College	75	27.2
Design, Construction and Planning	16	5.8
Education	5	1.8
Engineering, Herbert Wertheim College	34	12.3
Health and Human Performance	7	2.5
Institute of Food and Agricultural Sciences	5	1.8

College	Number of Study Abroad Students	Percent of All UF Study Abroad Students
Journalism and Communications	16	5.8
Law, Levin College	1	0.4
Liberal Arts and Sciences	91	33.0
Nursing	1	0.4
Pharmacy	1	0.4
Public Health and Health Professions	2	0.7
Other	20	7.2
<b>TOTAL</b>	<b>276</b>	<b>100%</b>

- 24 (71%) participated in a traditional study abroad experience of classroom learning with accompanying travel and tours.
- 10 (29%) completed a research program as part of their study abroad.

Table 7-2: Type of Study Abroad Program by College

College	Traditional	Percent of Students			Total Number of Students
		Work Internship	Research Fieldwork	Independent Study	
Arts	2	-	-	-	2
Business, Warrington College	45	30	-	-	75
Design, Construction and Planning	16	-	-	-	16
Education	5	-	-	-	5
Engineering, Herbert Wertheim College	24	-	10	-	34
Health and Human Performance	5	1	-	1	7
Institute of Food and Agricultural Sciences	5	-	-	-	5
Journalism and Communications	15	1	-	-	16
Law, Levin College	1	-	-	-	1
Liberal Arts and Sciences	81	9	1	-	91
Nursing	1	-	-	-	1
Pharmacy	-	-	-	1	1
Public Health and Health Professions	1	-	1	-	2
Not reported	8	12			20
<b>PERCENT</b>	<b>75.7%</b>	<b>19.2%</b>	<b>4.4%</b>	<b>0.7%</b>	<b>100%</b>
<b>TOTAL NUMBER OF STUDENTS</b>	<b>209</b>	<b>53</b>	<b>12</b>	<b>2</b>	<b>276</b>

- Study abroad students travelled to nine countries. 28 students participated in a European program.

Table 7-3: Study Abroad by Region (Percent of College to Destination)

College (Number of Students)	Europe	Eastern and Southeastern Asia	Latin America and the Caribbean	North Africa and Western Asia	Central and Southern Asia	Sub Saharan Africa
Arts (2)	50%	50%	-	-	-	-
Business, Warrington College (75)	53.3%	42.7%	1.3%	2.7%	-	-
Design, Construction and Planning (16)	100%	-	-	-	-	-
Education (5)	-	100%	-	-	-	-
Engineering, Herbert Wertheim College (34)	82.4%	8.8%	-	2.9%	5.9	-
Health and Human Performance (7)	28.6%	71.4%	-	-	-	-
Institute of Food and Agricultural Sciences (5)	40%	60%	-	-	-	-
Journalism and Communications (16)	31.3%	68.7%	-	-	-	-
Law, Levin College (1)	-	-	-	-	-	100%
Liberal Arts and Sciences (91)	59.3%	26.4%	6.6%	3.3%	4.4%	-
Nursing (1)	100%	-	-	-	-	-
Pharmacy (1)	100%	-	-	-	-	-
Public Health and Health Professions (2)	100%	-	-	-	-	-
Not reported (20)	50%	40%	5%	5%	-	-
PERCENT	58.7%	33.3%	2.9%	2.5%	2.2%	0.4%
TOTAL NUMBER OF STUDENTS	162	92	8	7	6	1

## Graduating Students and Study Abroad

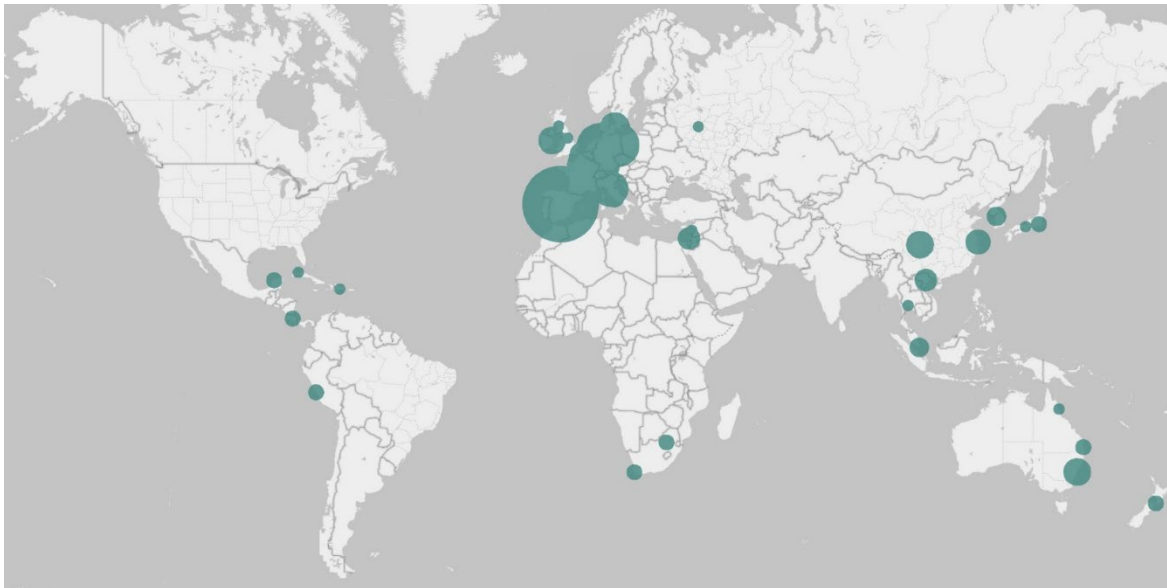
- In the 2020/21 Academic Year, 2,756 students graduated from all engineering programs. Of those, 214 or 8% participated in at least one study abroad program during their time at UF.
- Of the 214 students who had at least one study abroad experience, 92% were undergraduates, 7% graduated with a master's degree, and 1% with a doctorate.
- 12% of all engineering undergraduates, 2% of engineering master's students, and 1% of engineering doctoral students had at least one study abroad experience prior to graduation (Table 7-4).

Table 7-4: Number and Percent of Engineering Students who Studied Abroad by Academic Level

Academic Degree	Number who Studied Abroad	Number of all Graduating Students in the College	Percent of All Students who Studied Abroad
Bachelor's	197	1,603	12.3
Master's	14	980	1.4
Doctoral	3	173	1.7
<b>TOTAL</b>	<b>214</b>	<b>2,756</b>	<b>7.8</b>

- Students who graduated from the college in the 2020/2021 Academic Year and had a study abroad experience, travelled to 28 countries.
- Half of the study abroad trips were to three countries – Spain, Germany, and France.

Figure 7-1: Study Abroad Destinations of Engineering Graduating Students



# 8. INTERNATIONAL CENTER PROGRAMS

## Programs to Support Faculty, Staff, and Students

Engaging with faculty, staff, and students is a key area of strategic importance to the University of Florida and has been a priority in our roadmap to preeminence. The International Center invests in cross cutting programs to support internationalization efforts including research, student experiences, leadership development, and promoting meaningful partnerships to universities abroad.

- University of Florida awarded the Staff International Educator of the Year to Nancy McIlrath.
- Two engineering faculty awarded a Global Fellowship (\$12,000).
- 31 faculty, staff, and students attended a Fulbright event.
- 47 engineering undergraduate students enrolled in the International Scholars Program.

## 2020 Herbert Wertheim College of Engineering International Educators of the Year

- **Senior Faculty Award:** Oana Cazacu, Professor and Charles Taylor Faculty Fellow, Department of Mechanical and Aerospace Engineering
- **Junior Faculty Award:** Pingchien Neo Director and Associate Engineer, International Engineering Programs
- **Staff Award:** Nancy E. McIlrath, Graduate Academic Coordinator, Engineering School of Sustainable Infrastructure and Environment<sup>5</sup>
- **Staff Award:** Michael Fitzgerald Academic Advisor III, Department of Mechanical and Aerospace Engineering

## Global Fellows Program

The International Center provides junior faculty with a \$5,000 Global Fellows stipend to pursue international and/or cross-cultural research. The program provides an additional \$1,000 stipend to a faculty who serves as a mentor to the Global Fellow.

### Herbert Wertheim College of Engineering (\$12,000)

#### Fellows:

- Henry C.W. Chu, Assistant Professor, Chemical Engineering
- Boyi Hu, Assistant Professor, Industrial and System Engineering

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<sup>5</sup> Nancy E. McIlrath was named the University of Florida Staff International Educator of the Year.

**Mentors:**

- Jason Butler, Professor, Chemical Engineering
- David Kaber, Department Chair and Dean’s Leadership Professor; Industrial and Systems Engineering

## UF Fulbright Events

The Fulbright Scholars program is sponsored by the U.S. Department of State’s Bureau of Educational and Cultural Affairs. Founded in 1946, the programs mission is to improve intercultural relations and cultural diplomacy between the United States and other countries around the world. At UF, the Fulbright program works with a large set of collaborating partners across campus. The International Center coordinates and hosts events to promote the Fulbright experience. During the 2020/2021 academic year, the International Center co-sponsored five virtual events attended by 145 faculty, students, and staff from almost every college at UF.

Table 8-1: Attendance at UF Fulbright Events

Event	Number Attended
Virtual Welcome & Networking Reception	35
My Fulbright Experiences and Impacts with Dr. Muthusami Kumaran	35
How to Prepare a Successful US Scholar Fulbright Application	29
Managing Fulbright Recruitment and Retention	26
US Fulbright Scholar Informational Session	20
TOTAL	145

- 6 engineering faculty/staff attend a UF Fulbright event.

Table 8-2: Attendance at Fulbright Events by College and Unit

College/Unit	Number Attended
Liberal Arts and Sciences	34
Institute of Food and Agricultural Sciences	31
UF International Center	23
UF Administration	10
Guests of UF	9
Education	8
Arts	7
Herbert Wertheim College of Engineering	6
Health and Human Performance	5
Medicine	4
Levin College of Law	2
Warrington College of Business	2
Design, Construction and Planning	1
FLMNH	1
Nursing	1
Public Health and Health Professions	1
TOTAL	145

## International Scholars Program

The International Scholars Program (ISP) is a commencement medallion program open to all undergraduate students. ISP allows students to develop a global mindset and acquire in-demand skills by integrating international coursework, interdisciplinary perspectives, digital literacy, and experiential learning opportunities. To graduate with the International Scholars designation, the student must meet four requirements:

1. Four courses of international themed coursework
  2. One international experience (e.g., study abroad) or two semesters of a foreign language
  3. Be engaged in the various international campus life programs available throughout the year
  4. The student must complete the capstone *e*-portfolio program that features their accomplishments at UF and abroad in an online forum
- 47 engineering students are enrolled in the International Scholars Program
  - 1 engineering student graduated with an ISP designation.

Table 8-3: International Scholars Program by College

College/Unit	International Scholars Enrolled		International Scholars Graduated	
	Total Enrolled	Percent	Total Graduated	Percent
Arts	15	2.1	3	3.3
Business, Warrington College	58	8.1	7	7.6
Design, Construction and Planning	19	2.7	1	1.1
Education	3	0.4	0	0
Engineering, Herbert Wertheim College	47	6.6	1	1.1
Health and Human Performance	1	0.1	0	0
Institute of Food and Agricultural Sciences	77	10.8	9	9.8
Journalism and Communications	30	4.2	6	6.5
Liberal Arts and Sciences	438	61.3	59	64.1
Nursing	7	1.0	1	1.1
Public Health and Health Professions	20	2.8	5	5.4
TOTAL	715	100%	92	100%

# 9. TRAVEL REGISTRY

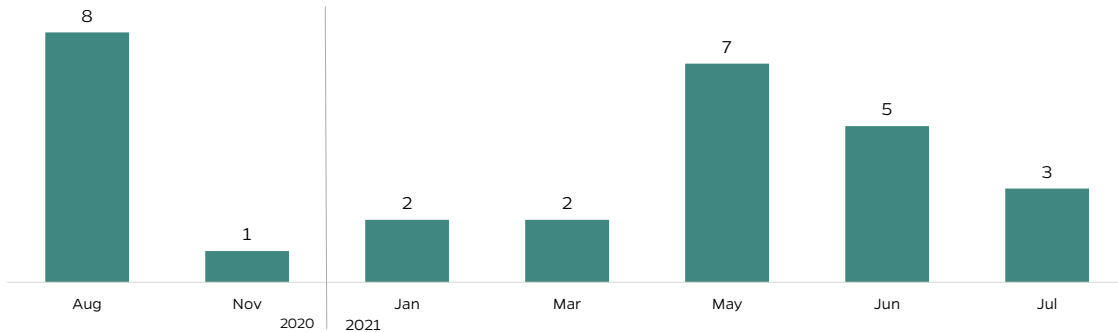
- Engineering faculty and students made 28 trips.
- Faculty, staff, students, and alumni travelled to 13 countries.
- 54% all trips were to support research.
- 21 trips were by faculty and 7 by students.

University of Florida faculty, staff, and researchers travel internationally as part of their official UF duties. For example, they may travel to attend conferences, collect field data, engage in outreach activities, collaborate with partners, participate in meetings, recruit students, etc. Prior to Covid, the number of trips on behalf of UF ranged from four to five thousand each year. Due to a full year of Covid-19 restrictions, the number of trips by UF faculty, staff, and students dropped significantly and UF's travel fell to 329 trips. As in previous

years, more than fifty percent of all travel is in May, June, and July (Figure 9-1). In 2018/19 pre covid UF faculty, staff, and students accounted for over 4,000 trips.

- 28 trips by engineering faculty and students.
- In 2018/19 pre-covid, engineering made 479 trips, 11% of all trips on behalf of UF.

Figure 9-1: Number of Trips by Engineering Faculty, Staff, and Students



## Travel by College/Unit

- 8.4% of all trips by engineering faculty and students.

Table 9-1: Travel by College and Unit (Number and Percent)

College/Unit	Number	Percent of Total
Liberal Arts and Sciences	108	32.3
Institute of Food and Agricultural Sciences	63	18.9
Herbert Wertheim College of Engineering	28	8.4
Medicine	28	8.4
Type One Centers	18	5.4
Public Health and Health Professions	16	4.8
Florida Museum of Natural History	16	4.8



College/Unit	Number	Percent of Total
Arts	13	3.9
UF Administration	12	3.6
Veterinary Medicine	12	3.6
Education	5	1.5
Design, Construction and Planning	3	0.9
Warrington College of Business	3	0.9
Pharmacy	3	0.9
Not Reported	3	0.9
Health and Human Performance	2	0.6
Nursing	1	0.3
TOTAL	334	100%

## Trip Profile

- 21 (75%) trips are by faculty; 7 (25%) by students.
- Half of all trips to support research.

Table 9-2: Travel Purpose by Role at UF

Purpose of Travel	Faculty	Staff	Students	Alumni Affiliates	Total	Percent of Total
Research	10	-	5	-	15	53.6
Conference	4	-	-	-	4	14.3
Partnership Development	2	-	1	-	3	10.7
Personal	2	-	-	-	2	7.1
Teaching	2	-	-	-	2	7.1
Technical Assistance, Outreach, Medical Missions	1	-	-	-	1	3.6
Other Coursework and Training	-	-	1	-	1	3.6
TOTAL	21	-	7	-	28	100.0%

## Destination of Travel

- Engineering faculty and students traveled to 13 countries.
- Three quarters of all engineering trips were to countries in Europe.

Figure 9-2: International Travel Destinations by Engineering Faculty and Students



# 10. UF INTERNATIONAL ALUMNI

The University of Florida supports a large alumnus of more than 450,000 former students. Because UF has a sizeable number of international students and the university's reputation is global, UF's graduates extend the gator nation worldwide. Tracking graduates is a challenge and the summary presented here cannot be comprehensive. The accuracy of tracking where UF's graduates live is a function of the strength of each of our college's alumni network. As a result, some colleges can report proportionately larger numbers than those reflected by graduation data. Additionally, some colleges have a larger percentage of international students and therefore, their international alumni reflect that enrollment trend.

- The UF Alumni Association reports on 3,441 Engineering alumni living outside of the U.S.
- 37% of all international alumni (recorded) have graduated from the college.
- Engineering alumni live in 113 countries. Two thirds are from India and China.
- Of international alumni data, 91% graduated with a graduate degree and 9% with a bachelor's degree.

The summary documents both UF's international students who may have returned to their home country after graduation and U.S. students who work and live abroad.

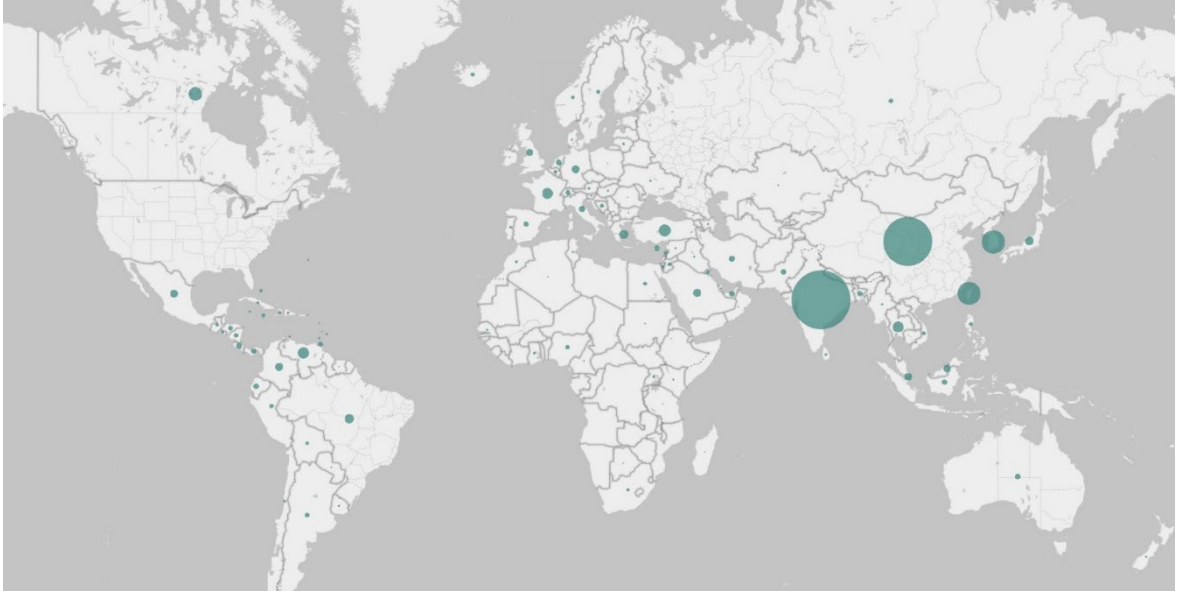
- The Herbert Wertheim College of Engineering is reporting the most international alumni – 37%.

Table 10-1: Number and Percent of International Alumni by College

College/Unit	Number	Percent of Total
Herbert Wertheim College of Engineering	3,441	36.9
Liberal Arts and Sciences	1,275	13.7
Warrington College of Business	1,230	13.2
Institute of Food and Agricultural Sciences	1,180	12.7
Pharmacy	338	3.6
Levin College of Law	323	3.5
Design, Construction and Planning	311	3.3
Journalism and Communications	311	3.3
Education	225	2.4
Public Health and Health Professions	212	2.3
Health and Human Performance	168	1.8
Arts	120	1.3
Medicine	74	0.8
Veterinary Medicine	48	0.5
Dentistry	19	0.2
Nursing	17	0.2
Not Reported	23	0.2
<b>TOTAL</b>	<b>9,315</b>	<b>100%</b>

- Reflecting current enrollment patterns, the largest percentage (37%) of recorded international alumni live in India and 25% live in China. Six percent each live in South Korea in Taiwan. The remaining 26% live in 108 different countries where not more than two percent of alumni live in each country.

Figure 10-1: Location of Engineering Alumni



# 11. APPENDIX: HERBERT WERTHEIM COLLEGE OF ENGINEERING INTERNATIONAL MOUS

Institution	Country	UF Academic Manager	Type	Termination Date
Amity University Uttar Pradesh	India	Sahni,Sartaj	Cooperative	1/12/2026
Beijing Institute of Technology	China	Xie,Huikai	Cooperative	12/15/2022
Ben-Gurion University of the Negev	Israel	Krauthammer,Theodor	Cooperative	1/12/2026
Bennett University	India	Sahni,Sartaj	Cooperative	10/15/2021
Burapha University	Thailand	Motz,Louis	Cooperative	4/17/2021
Clausthal University of Technology	Germany	Sigmund,Wolfgang	Cooperative	3/1/2022
Escola Politécnic da Universidade de São Paulo	Brazil	Sander,Erik	Cooperative	2/19/2024
ESCUELA SUPERIOR POLITÉCNICA del LITORAL	Ecuador	Ferraro,Christopher	Cooperative	5/23/2024
Global E3	United States of America	NULL,NULL	Reciprocal	8/25/2024
Hamburg University of Applied Sciences	Germany	Neo,Pingchien	Reciprocal	12/7/2025
Hong Kong Polytechnic University	China	Neo,Pingchien	Reciprocal	10/15/2024
Jaypee Education System	India	Sahni,Sartaj	Cooperative	9/16/2025
JK LakshmiPat University	India	Sahni,Sartaj	Cooperative	2/7/2024
Korea Aerospace University	South Korea	Kim,Nam-Ho	Cooperative	3/2/2023
Korea Aerospace University	South Korea	Ehlers,Karen	Dual Degree	10/22/2025
Lebanese American University	United States of America	Balachandar,S. Bala	Cooperative	10/20/2025
Mahindra Ecole Centrale	India	Sahni,Sartaj	Cooperative	6/18/2023
Manipal University Jaipur	India	Sahni,Sartaj	Cooperative	5/29/2024
Politecnico di Milano	Italy	Sansalone,John	Cooperative	4/29/2021
Ramsar Regional Centre for Training and Research in the Western Hemisphere	Panama	Kaplan,David	Cooperative	10/1/2024
RWTH Aachen	Germany	Neo,Pingchien	Reciprocal	10/17/2023
Salahaddin University - Erbil	Iraq	Crane III,Carl	Cooperative	11/30/2021
Sociedad Colombiana de Ingenieros	Colombia	McIlrath,Nancy	Cooperative	8/23/2025
Technical University of Denmark	Denmark	Neo,Pingchien	Reciprocal	1/26/2023
Technion - Israel Institute of Technology	Israel	Lindner,Angela S.	Cooperative	12/21/2021
The Federal University of Rio Grande do Norte	Brazil	Bretas,Arturo Suman	Cooperative	2/8/2022
The Hong Kong University of Science and Technology	China	Neo,Pingchien	Reciprocal	2/11/2024
The School of Civil Engineering at Hamburg University of Technology	Germany	Najafi,Fazil	Cooperative	7/10/2021
Universidad Carlos III de Madrid	Spain	Neo,Pingchien	Reciprocal	7/11/2023

Institution	Country	UF Academic Manager	Type	Termination Date
Universidad Politecnica de Madrid	Spain	Hahn,David	Cooperative	3/29/2023
Universidad Pontificia Comillas	Spain	Neo,Pingchien	Reciprocal	10/14/2024
Universidade de São Paulo - São Carlos School of Engineering	Brazil	Yamaguchi Greenslet,Hitomi	Cooperative	2/20/2024
Universidade Estadual de Campinas	Brazil	Sander,Erik	Cooperative	1/25/2026
Universita Degli Studi de Padova	Italy	Canestrelli,Alberto	Cooperative	5/12/2025
Università degli Studi di Parma	Italy	Tebaldi,Gabriele	Cooperative	4/13/2022
Universita Politecnica Delle Marche	Italy	Sheremet,Alex	Cooperative	9/29/2020
University of Genova	Italy	Sansalone,John	Cooperative	11/15/2021
University of New South Wales	Australia	Nino,Juan	Reciprocal	2/13/2025
University of Parma	Italy	McIlrath-Glanville,Nancy	Cooperative	4/12/2024
University of West Indies	Jamaica	Latchman,Haniph	Cooperative	3/15/2021



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