



ILLINOIS MATHEMATICS AND SCIENCE ACADEMY:

Student Outcomes and Economic Impacts

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By

The Center for Governmental Studies

Northern Illinois University



NORTHERN ILLINOIS UNIVERSITY

**Center for
Governmental Studies**

Outreach, Engagement, and Regional Development

EXECUTIVE SUMMARY

The Illinois Mathematics and Science Academy (IMSA) bills itself as the world’s leading teaching and learning laboratory for imagination and inquiry. Their mission “is to ignite and nurture creative, ethical, scientific minds that advance the human condition, through a system distinguished by profound questions, collaborative relationships, personalized experiential learning, global networking, generative use of technology and pioneering outreach.”¹

IMSA enrolls students in grades 10 through 12 in a residential college preparatory program focused on science, technology, engineering, and mathematics. About 200 students graduate each year. In addition, IMSA provides professional development in math and science to educators at sites across Illinois and online.

This report includes three sections. The first section summarizes results of an alumni survey conducted in January 2017. Next, higher education outcomes of IMSA graduates are presented based on National Student Clearinghouse data. The final section details the economic impacts of the operations of IMSA.

More than 1,650 IMSA graduates responded to the survey. Responses highlighted their educational, professional, and community service activities. Results indicate that IMSA alumni go on to achieve high educational attainment, work in high impact occupations, primarily in STEM fields, and contribute significantly to society in a variety of ways.

Students earn an impressive array of academic credentials after graduating from IMSA. More than 6,400 degrees have been earned by IMSA’s 5,351 graduates. This includes about 4,100 bachelor’s degrees, over 1,100 master’s degrees, and nearly 1,000 doctoral or professional degrees. While the University of Illinois at Urbana-Champaign enrolls the largest number of IMSA graduates, many alumni attend the most prestigious universities across the nation.

The operations of IMSA contribute significant to the regional economy. The school had nearly \$25 million in operating expenditures and 214 employees during fiscal year 2016. The school’s purchases of goods and services in the local economy and employees’ spending generates additional economic activity. After these ‘multiplier effects’ are considered, more the 380 jobs and \$50 million in economic activity are connected to IMSA operations.

¹ https://www.imsa.edu/discover/profile/mission_and_beliefs

I. IMSA ALUMNI SURVEY

Over 5,300 students have graduated from the Illinois Mathematics and Science Academy (IMSA) since the initial class in 1989. The school recently conducted an online survey of graduates. The survey was conducted January and February of 2017.

About 31 percent of alumni responded to the survey. Older graduates were more likely to respond (Question 1). Over half of the class of 1989 responded compared to 12 percent of 2015 graduates.

Question 1. In which class were you at IMSA?

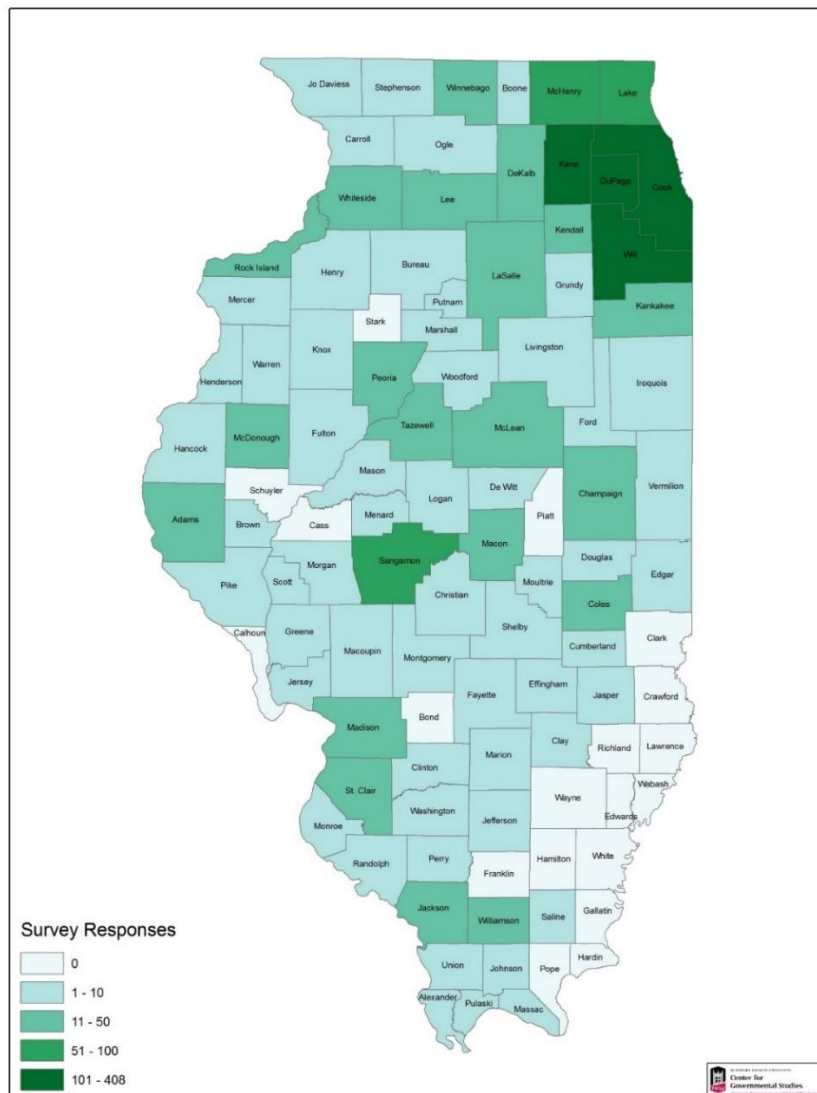
	Graduates	Survey Responses	Percent Responding
1989	168	87	52%
1990	167	67	40%
1991	116	41	35%
1992	168	61	36%
1993	214	78	36%
1994	206	72	35%
1995	171	56	33%
1996	185	68	37%
1997	209	72	34%
1998	199	75	38%
1999	185	71	38%
2000	191	75	39%
2001	224	93	42%
2002	177	60	34%
2003	189	59	31%
2004	199	52	26%
2005	208	48	23%
2006	184	76	41%
2007	203	54	27%
2008	205	47	23%
2009	200	46	23%
2010	178	53	30%
2011	200	56	28%
2012	212	51	24%
2013	191	35	18%
2014	198	30	15%
2015	194	24	12%
2016	205	44	21%
Total	5,346	1,651	31%

GEOGRAPHY

The first set of questions focused on the home locations of the alumni. The first question in this section asked where their home was when they were enrolled as a student. The second asked where they currently live. Finally, non-Illinois residents were asked how many time they visit the state each year.

Nearly 60 percent of all survey respondents stated their home county at the time of IMSA enrollment was one of the Chicago metro counties of Cook, DuPage, Kane, Lake, or Will (Question 2). This is not surprising as about 60 percent of the Illinois population resides in these five counties. IMSA has struggled to attract students from rural counties, especially in the southern part of the state.

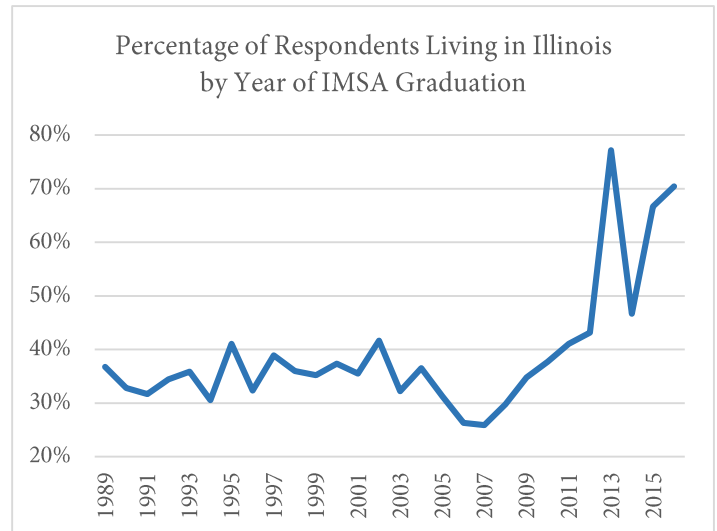
Question 2. Please provide your home county of residence when you were enrolled as a student at IMSA.



About 38 percent of respondents currently live in Illinois (Question 3). Respondents from more recent classes were more likely to indicate that they live in the state. It should be noted that over 40 respondents, mostly in 2013-2016 classes that indicated that they live in Illinois also stated that they attend college at an institution in another state.

Question 3a. Do you currently reside in Illinois?

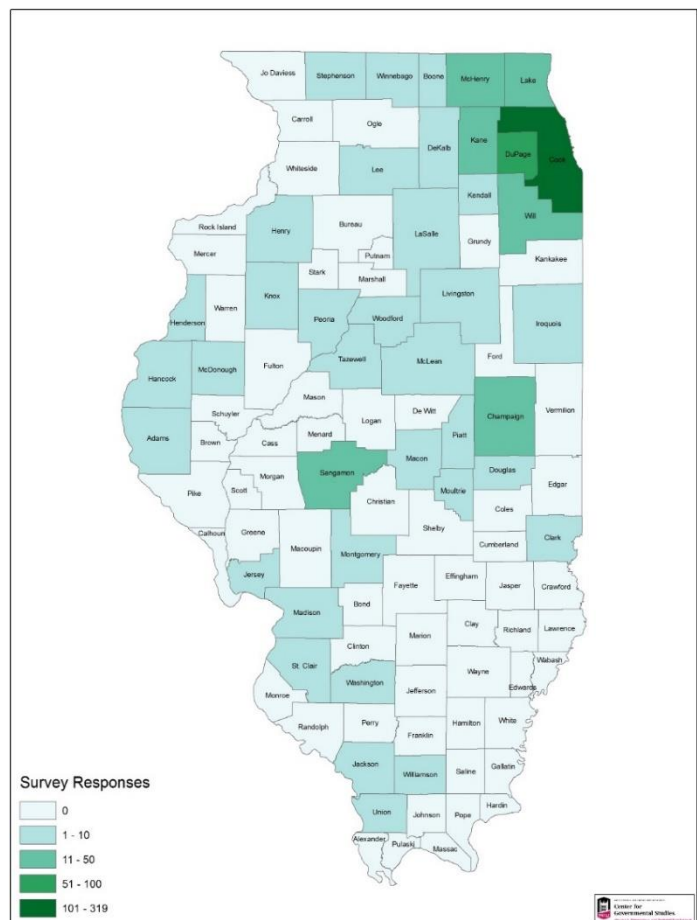
	Responses	Percent
No	1,032	62.5%
Yes	619	37.5%



Illinois resident IMSA graduates tend to live in the major population centers (Question 4). About three-quarters live in the Chicago metro area (Cook, DuPage, Kane, Lake, or Will Counties). Champaign County has the largest concentration of alumni outside of the Chicago area.

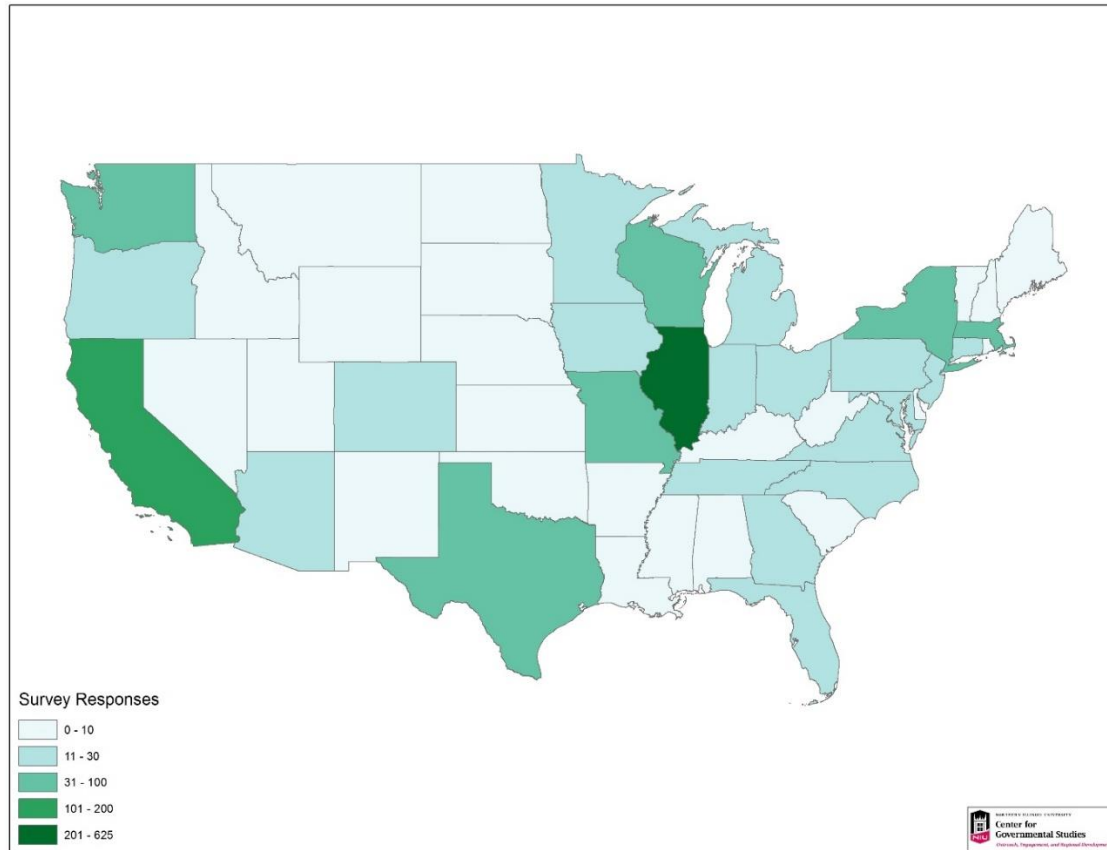
Question 3b. In which county do you currently reside (Illinois residents)?

	Responses	
Cook	319	51.5%
DuPage	81	13.1%
Champaign	45	7.3%
Kane	28	4.5%
Lake	22	3.6%
Will	20	3.2%
McHenry	14	2.3%
Sangamon	12	1.9%
Kendall	9	1.5%
Peoria	9	1.5%
McLean	7	1.1%
St. Clair	6	1.0%
Winnebago	5	0.8%
DeKalb	4	0.6%
LaSalle	3	0.5%
Tazewell	3	0.5%
All Others	32	5.2%
Total	619	



Over 62 percent of IMSA alumni responding to the survey live outside of Illinois. They tend to live on the west coast (California - home to the largest number of non-Illinois residents, along with Washington), the northeast (primarily New York and Massachusetts), neighboring Midwestern states (Wisconsin and Missouri), and Texas (Question 3c).

Question 3c. In which state do you reside?



A total of 73 respondents live outside of the United States. The United Kingdom, Japan, and Canada are home to the largest numbers of IMSA alumni. However, IMSA graduates span the globe.

Question 3c. In which state do you reside (Outside US responses)?

	Responses		Responses		Responses
United Kingdom	16	New Zealand	2	Italy	1
Japan	10	Singapore	2	Portugal	1
Canada	9	South Korea	2	Qatar	1
France	5	Taiwan	2	Scotland	1
China	4	Austria	1	South Africa	1
Switzerland	4	Bhutan	1	Sub Saharan Africa	1
Germany	3	Finland	1	Thailand	1
Hong Kong	2	Indonesia	1	The Netherlands	1

Over 85 percent of non-Illinois resident alumni indicate that they visit the state on a regular basis (Question 4). About 40 percent visit 3 or more times each year. This suggests that the IMSA graduates living outside of Illinois still have strong ties to the state, either through family or professional ties.

Question 4. How many times do you visit Illinois annually?

	Responses
0	138
1-2	486
3-4	236
5-7	90
8-10	27
11+	55
Total	1,032

HIGHER EDUCATION

The next section of the survey focused on graduates' higher education experiences after graduating from IMSA. The first section portion explores current students' situations. The second section asks about earned education credentials. About 20 percent of respondents are currently students (Question 5).

Question 5. Are you currently a student?

	Responses	Percent
No	1,323	80.2%
Yes	326	19.8%
Total	1,649	

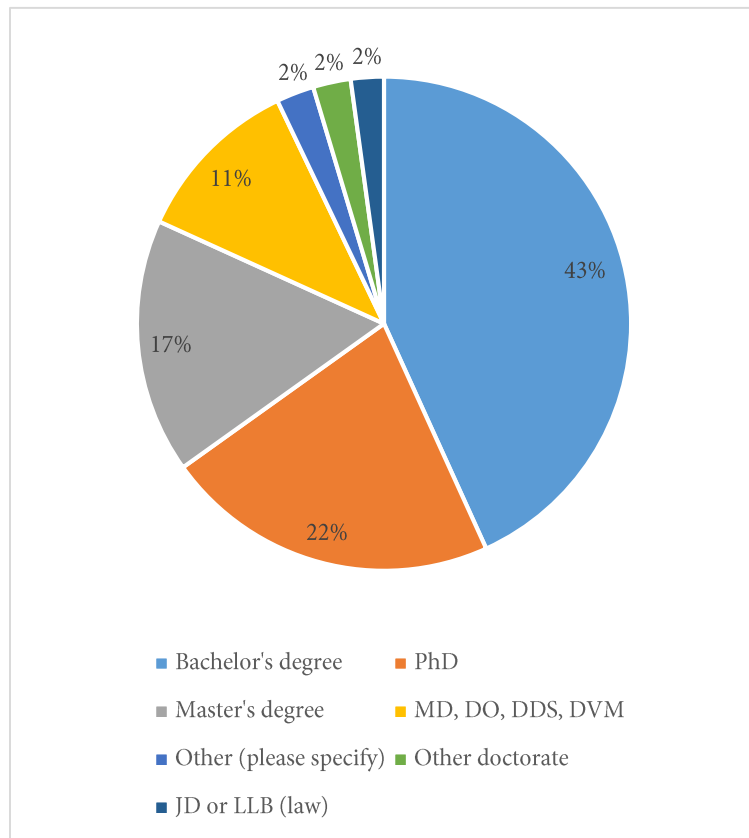
Almost 90 percent of IMSA alumni currently in school are attending full time (Question 6).

Question 6. Are you studying full time or part time?

	Responses	Percent
Full-time	287	88.3%
Part-time	38	11.7%
Total	325	

Question 7a. Which of the following best describes the level of your current educational program?

Over 40 percent of current students are pursuing a Bachelor's degree (Question 7a). About 17 percent are in Master's degree programs. About 40 percent are in programs leading to law, PhD, or medical doctor degrees.



Most of the 'other' responses to Question 7 indicated that they were in educational programs that combined two of the categories.

Question 7b. Which of the following best describes the level of your current educational program? Other

	Responses
CA teaching credential, post-bachelor's	1
Dietetic Internship Supervised Practice	1
Masters in combination with a veterinary medical residency	1
MD/MBA	1
MD/PhD	2
Nursing	1
Resident physician	1
Total	8

Question 8. Your field of study:

This question allowed respondents to enter their own response. There are 200 unique answers.

IMSA graduates were asked about their current educational institution (Question 9). The three top responses were in Illinois. Schools known for academic excellence are prominent on the list including Northwestern, Harvard, Vanderbilt, U of Chicago, MIT, and Yale.

Question 9. Educational institution you are attending:

	Responses
University of Illinois at Urbana Champaign	35
University of Illinois at Chicago	15
Northwestern University	11
Harvard University	9
Vanderbilt University	8
University of Wisconsin - Madison	7
Northeastern University	6
University of Chicago	6
Marquette University	5
Massachusetts Institute of Technology	5
Washington University in St. Louis	5
Georgia Institute of Technology	4
Illinois Institute of Technology	4
Michigan State University	4
Yale University	4
Schools with 3 or fewer IMSA graduates	145
Total	325

Question 10. What was the first post-secondary degree you earned?

	Responses
Associate degree	15
Bachelor's degree	1,356
Law degree (LLB or JD)	6
Master's degree	35
Medical degree (MD, DO, DDS, DVM)	22
Other doctorate	4
PhD	8
Total	1,446

Question 11. Institution:

This question allowed respondents to enter their own response. There are 430 unique answers.

Question 12. Major/Field of Study:

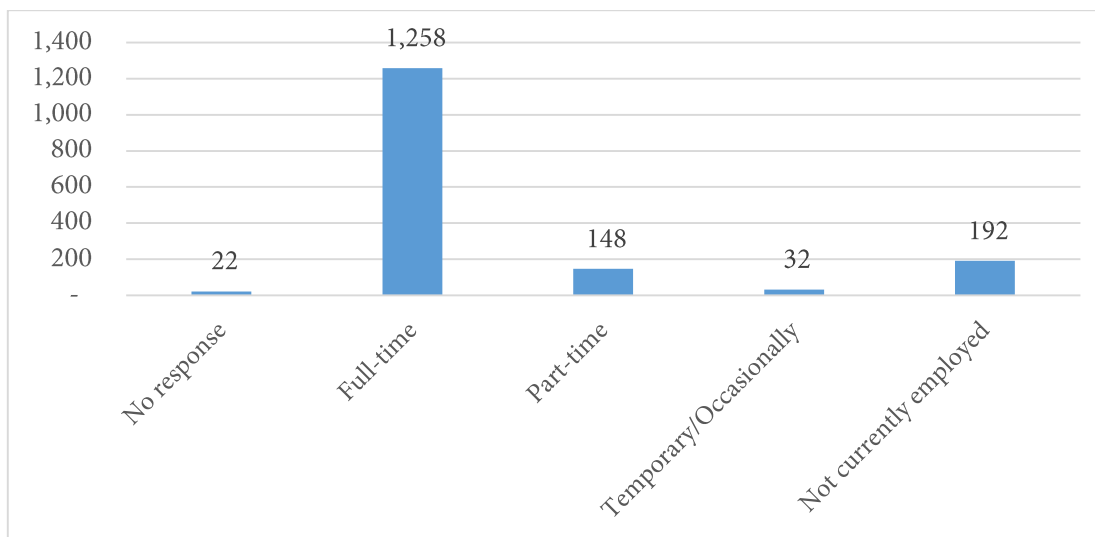
This question allowed respondents to enter their own response. There are 631 unique answers.

EMPLOYMENT

The final section of the survey asked about graduates' professional experiences.

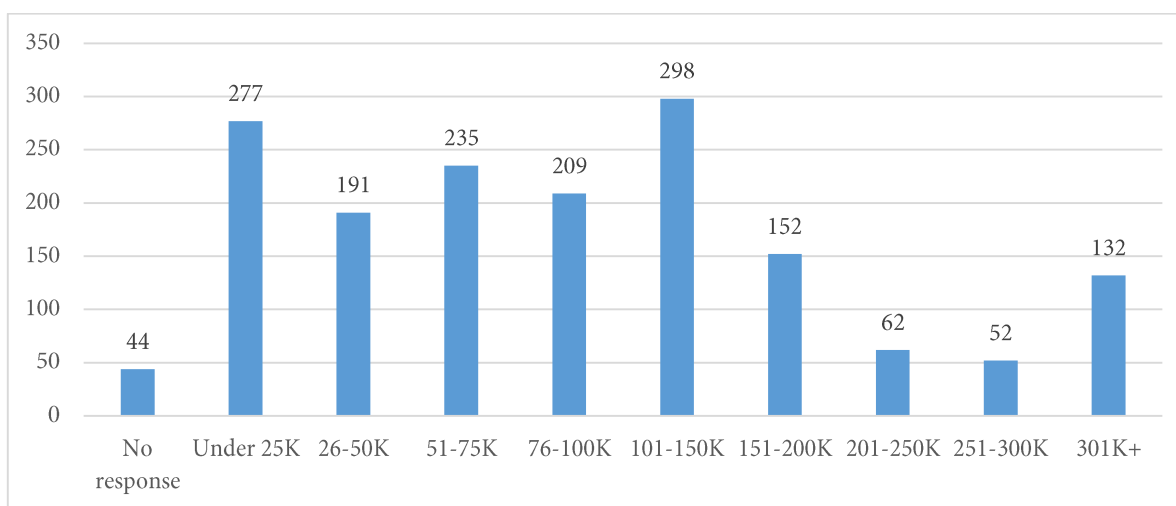
The vast majority of respondents are employed full time.

Question 13. What is your current employment status?



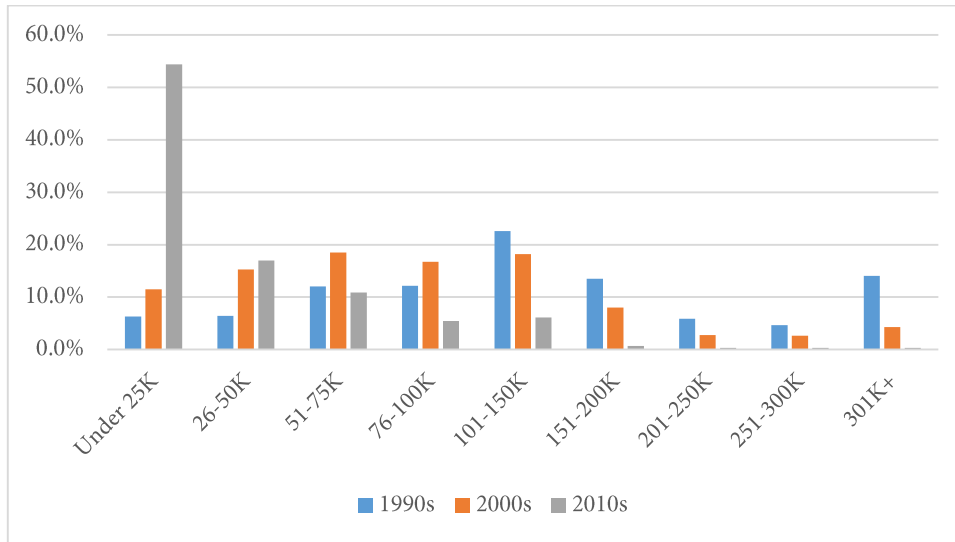
Graduates of IMSA are well paid. About 43 percent of respondents indicate an annual income greater than \$100,000 (Question 14). By comparison, US Census data indicates that about 23 percent of persons 25 years and older with at least a bachelor degree had income greater than \$100,000 in 2015². More than 15 percent of respondents have incomes over \$200,000.

Question 14. What is your gross annual income?



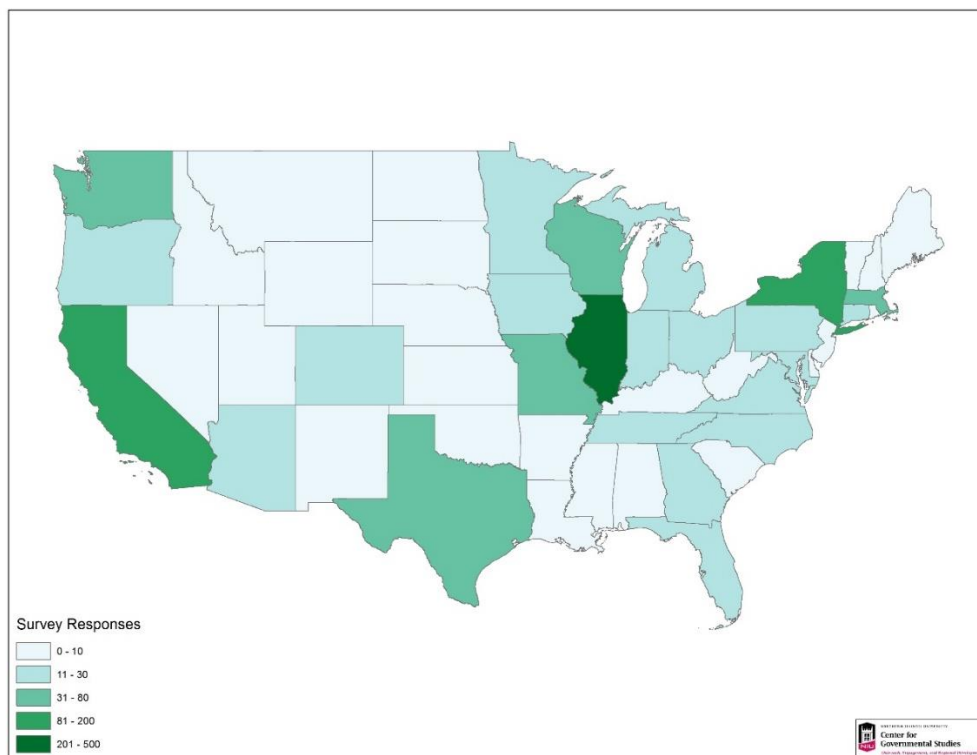
² Source: U.S. Census Bureau, Current Population Survey, 2016 Annual Social and Economic Supplement.

As is the case for the general public, older IMSA alumni tend to have higher incomes. About one quarter of 1990s graduates have income over \$200,000 while just three graduating in the 2010s reported incomes above that level. Over 50 percent of alumni graduating since 2010 report incomes under \$25,000. Two-thirds of these recent graduates indicate that they are currently in school.



Nearly one-third of respondents work in Illinois (Question 15). Not surprisingly, location of employment closely mirrors home location (see Question 3).

Question 15a. In which state are you currently employed?



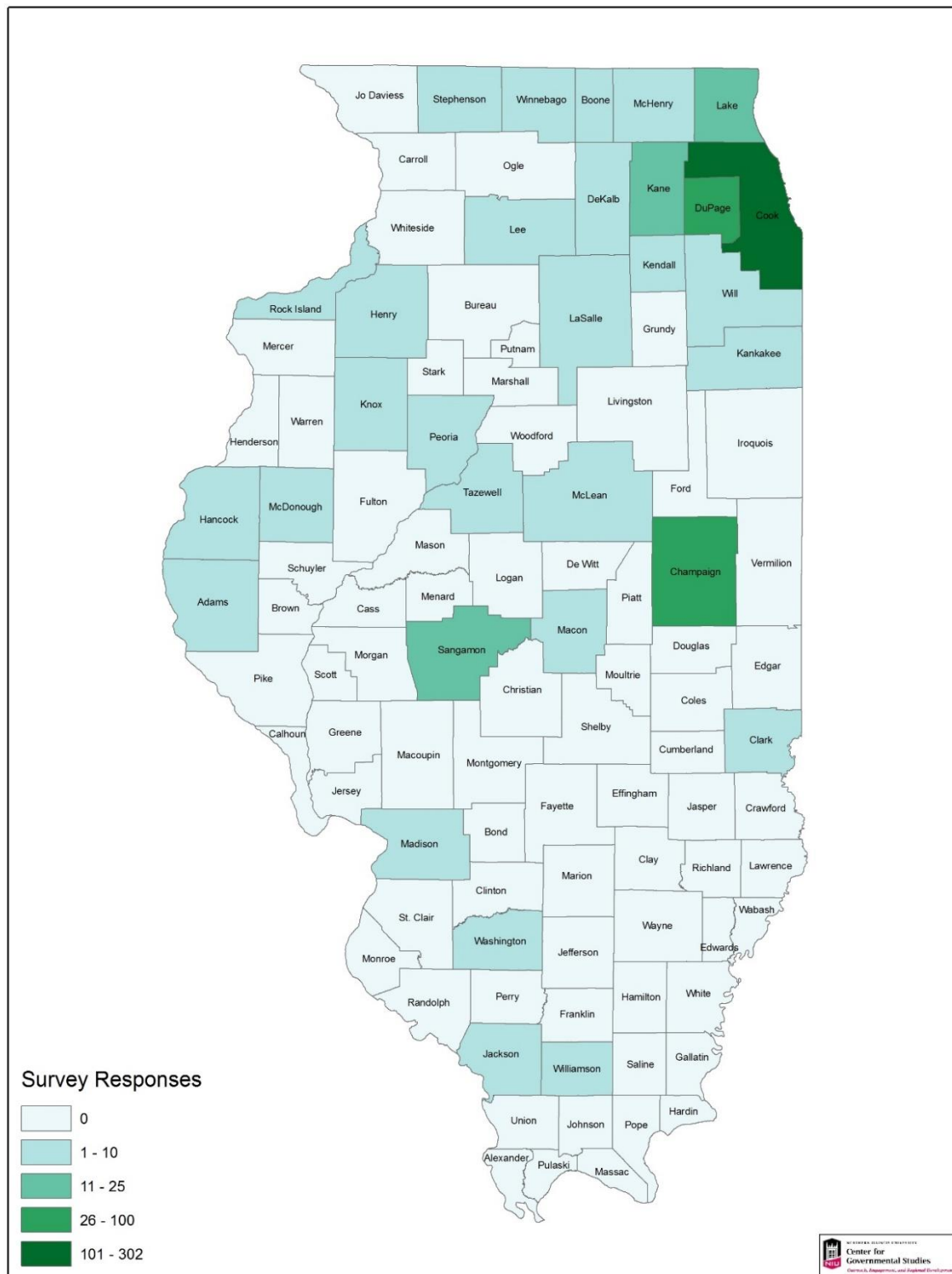
Sixty-three IMSA alumni are employed around the world (Question 15b). The United Kingdom and Japan are the most likely countries for them to work.

Question 15b. In which state are you currently employed (Outside US responses)?

	Responses
United Kingdom	15
Japan	10
Canada	6
China	4
France	3
Germany	3
Switzerland	3
Hong Kong	2
New Zealand	2
Singapore	2
Taiwan	2
Austria	1
Bhutan	1
Finland	1
Indonesia	1
Qatar	1
Scotland	1
South Africa	1
South Korea	1
Sub Saharan Africa	1
Thailand	1
The Netherlands	1
Total	31

IMSA graduates are most likely to be employed in the employment centers of the Chicago metro region, Urbana-Champaign, and Springfield (Sangamon County).

Question 15c. In which county are you currently employed?



Over 60 percent of respondents stated they currently work in a Science, Technology, Engineering, or Math (STEM) related job. That is significantly higher than the national average. Computer, mathematical, architecture, engineering, life, physical, and social science occupational employment comprises about 15 percent of the total US workforce³.

Question 16. Are you currently employed in a STEM field or profession?

	Responses
No	544
Yes	886
Total	1,430
No Response	222

IMSA alumni report work in a wide variety of industries (Question 17). Prominently included in the list are computer/IT, health care, and education/research.

Question 17. In what industry are you currently employed?

	Responses		Responses
Computer Software	110	Retail	18
Medical Practice	107	Biotechnology	16
Higher Education	105	Entertainment	16
Research	99	Nonprofit Organization Mgmt	16
Hospital & Health Care	78	Banking	14
Other (please specify)	73	Defense & Space	14
Financial Services	48	Investment Management	14
Information Technology and Svcs	48	Medical Devices	13
Law Practice	44	Military	13
Primary/Secondary Education	41	Aviation & Aerospace	11
Education Management	40	Accounting	10
Pharmaceuticals	29	Automotive	10
Government Administration	25	Construction	10
Insurance	24	Consumer Electronics	10
Internet	24	Food & Beverages	10
Management Consulting	21	Legal Services	10
Health, Wellness and Fitness	19	All Other Industries	272
Marketing and Advertising	18	Total	1,430

³ Source: U.S. Department of Labor, Bureau of Labor Statistics, Current Population Survey, 2015, Annual Averages, Table 11. <http://www.bls.gov/cps/cpsaat11.htm>

Over 190 IMSA graduates indicated that they are not currently employed. Question 18 asked them about their primary activity. Respondents could choose more than one answer. By far, the most common response was ‘furthering my education’.

Question 18a. Not Employed - What is your primary activity? (Check all the apply)

	Responses
Furthering my education	135
Caring for children	38
Volunteering/engaging in service or un-paid work	33
Looking for employment	25
Planning/starting a business	14
Caring for other family members	10
Total	255

Question 18b. Not Employed - What is your primary activity (Other)?

	Responses
Homeschool parent	3
Disabled	2
Army ROTC	1
Building our house	1
Hobbies	1
Currently have job offer	1
Receiving passive income from self-maintaining business, looking into volunteering full or part time	1
Traveling	1
Trying to decide my next step while considering options	1
Total	12

Nearly 60 IMSA alumni head up a company (Question 19). These are primarily small businesses with revenues less than \$1 million and fewer than 10 employees (Questions 20 and 21). However, one graduate leads a company with about \$250 million in revenues and over 500 employees.

Question 19. Are you the CEO and/or president of a company?

	Responses
No	1,371
Yes	59
Total	1,430
No Response	222

Question 20. What is the approximate annual revenue of the company? (optional)

	Responses
\$250 Million	1
\$14 Million	1
\$4 to \$10 Million	3
\$1 to \$4 Million	6
\$200,000 to \$1 Million	10
Less than \$200,000	5
Total	26

Question 21. How many people does your company currently employ?

	Responses
1-10	46
11-50	10
51-100	1
101-500	-
500+	1
Total	58

Nearly 120 respondents hold one or more patents (Question 22). Over half of them hold multiple patents. In total, IMSA graduates responding to the survey hold 673 patents (Question 23).

Question 22. Do you hold any patents?

	Responses
No	1,490
Yes	118
Total	1,608
No Response	44

Question 23. How many patents?

	Responses
1	52
2-5	50
6-10	6
11-30	9
Over 100	2
Total Patent holders	119
Total Patents	673

Question 24. In what area(s)/discipline(s)?

This question allowed respondents to enter their own response. There are 102 unique answers.

Significant numbers of alumni (more than 1 in 3 respondents) have published in some format (Question 25).

Questions 25. Have you published?

	Responses
No	1,005
Yes	603
Total	1,608
No Response	44

Question 26. Please describe.

This question allowed respondents to enter their own response. There are 600 unique answers.

COMMUNITY SERVICE

Nearly two-thirds of respondents volunteer their time for a community or social organization (Question 27). Over one-third of those that do volunteer give more than one hour per week (over 5 hours per month).

Question 27. How many hours per month do you volunteer for community or social organizations?

	Responses
0	626
1-2	335
3-4	273
5-7	124
8-10	106
11+	140
Total	1,604
No Response	48

Question 28. For what causes/organizations?

This question allowed respondents to enter their own response. There are 916 unique answers.

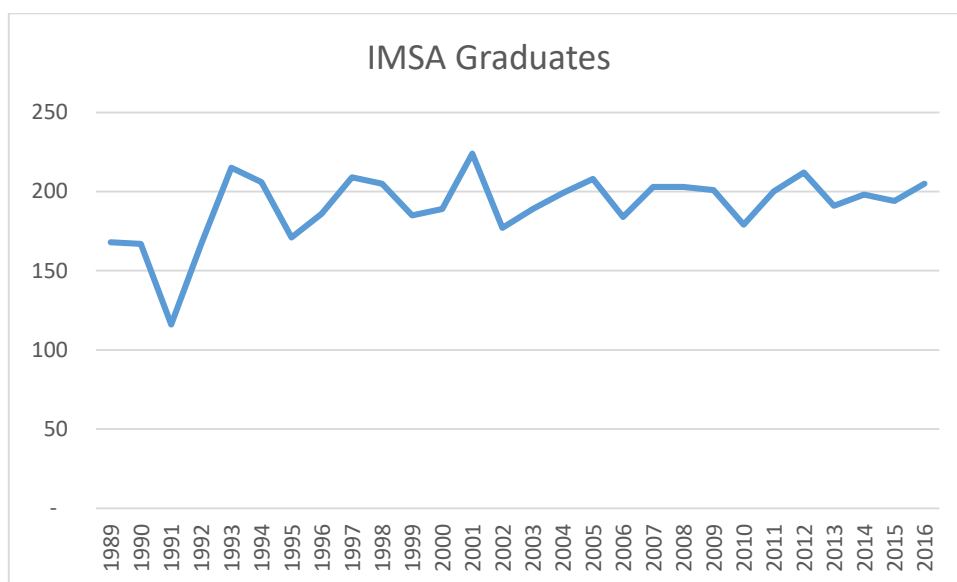
II. IMSA STUDENT EDUCATIONAL OUTCOMES

The National Student Clearinghouse (NSC) aggregates higher education student data. Their mission is to “serve the education community by facilitating the exchange and understanding of student enrollment, performance and related information⁴.” More than 3,600 colleges and universities report student enrollment and degree information to NSC. These public and private participating institutions enroll 98 percent of all students in the U.S.

The Illinois Mathematics and Science Academy (IMSA) obtained higher education data for their graduates from NSC. This summary describes the higher education experiences of IMSA alumni based on those data.

Since the first graduating class in 1989 there have been 5,351 IMSA graduates, an average of just over 190 per year (Figure 1). The number of graduates has remained fairly stable from year to year.

Figure 1. Annual IMSA Graduate Count



⁴ <http://www.studentclearinghouse.org/about/>

INITIAL COLLEGE ATTENDANCE

The first section of the report focuses on the college first attended after graduating from IMSA. While most students ultimately earn a degree from their initial college, some move on to other institutions before graduating for a variety of reasons. This section also does not cover colleges attended for additional degrees such as Masters, PhD, or other professional degrees.

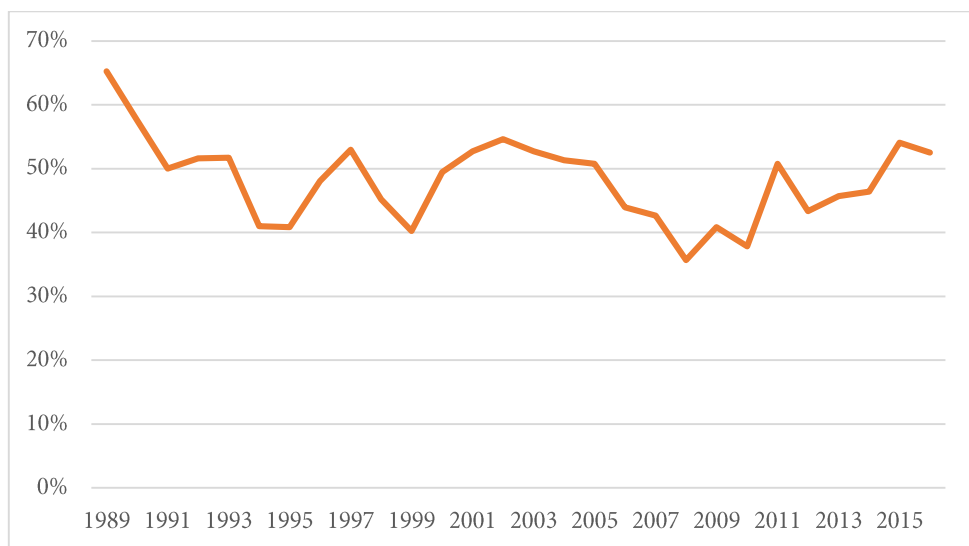
The vast majority (92%) of IMSA graduates initially attend a four-year college or university (Table 1). About 3 percent attend a two-year institution such as a community college. An average of about 8 to 9 students each year are not matched to records in the NSC database. Failure to match may be caused by a variety of reasons including students not attending college or attending a college not participating in NSC data sharing, most likely outside of the US. About 4.5% of respondents to a recent graduate survey indicate that they are currently living overseas.

Table 1. Initial College Type – 2 year or 4 year

	Students
2-year	174
4-year	4,944
No match	233
Total	5,351

Just under half of all students entered a public institution after leaving IMSA (Figure 2). This started at a high of about two-thirds of the initial class. The 2008 to 2010 classes averaged under 40 percent. More recently the percentage has trended up above 50 percent.

Figure 2. Percentage of IMSA graduates entering a public institution by year

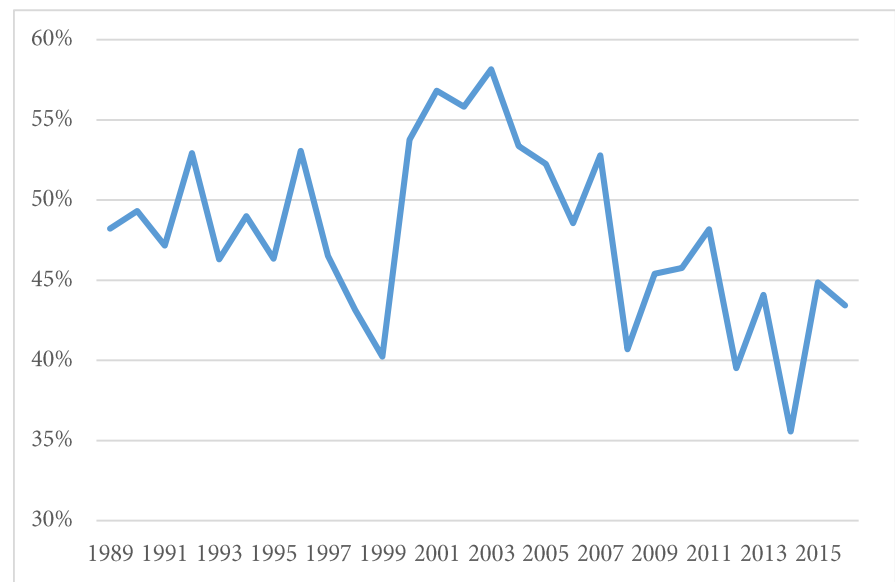


Just under one half of all IMSA graduates whose higher education activities were tracked initially entered an Illinois college (Table 2). California, Missouri, and Massachusetts were the only other states attracting more than 5 percent of IMSA students. The percentage of students entering Illinois colleges has generally been declining since peaking at 58 percent in 2002 (Figure 3). Roughly 45 percent of students in the two most recent graduating classes moved on to Illinois colleges, up from about 36 percent in 2014.

Table 2. Initial College State

	Students
IL	2,448
CA	331
MO	283
MA	281
NY	196
PA	191
OH	132
IN	116
WI	101
IA	96
MI	96
NC	85
MN	84
TX	84
CT	63
TN	61
FL	54
DC	53
GA	50
MD	45
LA	30
VA	30
NJ	29
All Others	176
Total	5,115

Figure 3. Percentage of IMSA graduates entering an Illinois institution



DEGREES EARNED BY IMSA ALUMNI

This section summarizes the educational credentials earned by IMSA alumni. The 5,115 students that are being tracked have earned over 6,400 total degrees (Table 3). For cohorts that graduated ten or more years ago, students earn about 1.5 degrees each on average.

Table 3. Higher Education Degrees by IMSA Graduation Year

	Degrees
1989	246
1990	229
1991	172
1992	255
1993	343
1994	324
1995	273
1996	285
1997	335
1998	339
1999	285
2000	334
2001	359
2002	264
2003	302
2004	277
2005	299
2006	226
2007	267
2008	271
2009	210
2010	190
2011	184
2012	154
2013	11
2014	4
2015	0
2016	0
Total	6,438

Over 4,000 IMSA graduates have earned at least one higher education credential (Table 4). Nearly 2,000 have earned multiple credentials, some with as many as five. The vast majority of those counted as ‘some college, nor degree’ are from the most recent graduating classes and have not yet had enough time to earn a degree.

Table 4. Count of Students by Number of Degrees or Certificates Earned

	Students
Some college, no degree	1,107
One	2,075
Two	1,513
Three	362
Four	54
Five	7
No match	233
Total	5,351

The 5,115 IMSA alumni tracked in the NSC data have earned nearly 6,500 total degrees. Nearly half of those degrees have been earned from Illinois institutions (Table 5). Not surprisingly, the geographic pattern of degree institutions is quite similar to the initial college choices (Table 2).

Table 5. IMSA Alumni Degrees by State

	Degrees		Degrees		Degrees
IL	2,938	TX	128	CT	61
CA	482	WI	112	VA	41
MA	439	NC	104	LA	37
MO	357	IA	95	NJ	37
NY	257	DC	92	RI	37
PA	227	MN	82	TN	37
MI	163	FL	70	WA	34
OH	146	GA	66	All Others	198
IN	133	MD	63	Total	6,438

Most of the earned degrees are 4-year Bachelor's degrees. However, significant numbers of graduate degrees have been earned by IMSA alumni, including PhD and Medical Doctor degrees. The Certificate category covers a wide variety of credentials including occupational/vocational certificates, teaching certificates, and graduate certificates in finance and management.

Table 6. Degree Counts by Level of Degree

	Degrees
Certificate	133
Associate	106
Bachelor	4,093
Masters	1,138
Doctor/Professional	968
Total	6,438

Most, nearly 60 percent, of the Bachelor's degrees were earned in STEM (Science, Technology, Engineering, and Math) fields. This includes more than 800 in biology related fields, about 800 in various engineering fields, and more than 400 in computer science fields⁵. Business related fields were also popular majors for IMSA alumni.

Table 7. Bachelor's Degrees by Field

	Degrees
STEM	2,413
Business/Economics	483
Other	1,197
Total	4,093

Just more than half of degrees earned by IMSA alumni were awarded by private institutions. As expected, this percentage is similar to the percentage entering private institutions (Figure 2).

Table 8. Degree Counts by Institution Type – Public or Private

	Degrees
Public	2,950
Private	3,488
Total	6,438

⁵ Some degrees are counted in more than one category, i.e. computer engineering or biomedical engineering.

The top four institutions granting degrees to IMSA alumni are all in Illinois. About 19 percent of all IMSA alumni degrees were earned at the University of Illinois at Urbana-Champaign. The next three on the list are all in the Chicago metro area: U of I at Chicago, Northwestern, and University of Chicago. The most prestigious universities in the U.S. figure prominently on the list including MIT, Stanford, and Harvard, each with more than 90 degrees earned.

Table 9. Universities Where IMSA Alumni Earned Significant Numbers of Degrees

	Degrees
University of Illinois @ Urbana	1,212
University of Illinois At Chicago	356
Northwestern University	345
University of Chicago	273
Massachusetts Institute of Technology	174
Washington University	170
Stanford University	149
Harvard University	93
Case Western Reserve University	88
Illinois Institute of Technology	87
University of Michigan	81
Cornell University	75
University of Pennsylvania	72
University of Wisconsin - Madison	69
Carnegie Mellon University	65
University of Southern California	65
Boston University	63
Duke University	63
Saint Louis University	62
Columbia University	54
California Institute of Technology	53
University of California-Berkeley	49
Loyola University Chicago	47
Yale University	46
Johns Hopkins University	44

III. IMSA ECONOMIC CONTRIBUTIONS

One way of demonstrating the value of the Illinois Math and Science Academy is through its economic contribution to the region. IMSA is an important source of expenditures and employment for the region. As part of its day-to-day operations, the school purchases goods and services, many of them from the local economy. In addition, the income earned by its employees is spent in the local economy.

Any change in economic activity, such as the purchase of a commodity or a service, has direct and indirect effects. The direct effects are the employment, payroll and purchases of goods and services directly by IMSA. The indirect effects occur through a variety of channels. For example, when IMSA hires a local printer to produce its catalogues and brochures, these orders contribute to the income of the local printing industry. The printers' employees spend at least some of their income locally, and these purchases contribute to the employment and the income of other local industries and services. The printers spend part of their income from IMSA's orders on the supplies that they need to run their businesses. To the extent that these purchases are local, they contribute to the incomes of employees in other industries, who in turn spend their incomes on still other goods and services with these effects again induced by the IMSA's initial purchase.

IMPLAN Pro economic modeling software was used to produce estimates of the indirect economic contribution of IMSA, based on the direct economic contributions. Direct contributions are simply the set of expenditures or employment applied to the predictive model for impact analysis. Indirect contributions are then derived as additional effects caused by industries purchasing from other industries. Induced contributions take into account the spending in the local economy of the new income generated by the new employment.

Data provided by IMSA identified \$24.8 million in operating expenditures during fiscal year 2016⁶. IMSA paid over \$18.7 million in wages and benefits to its 214 employees. These direct contributions

⁶ This total includes payroll (inclusive of benefits) and IMSA purchases adjusted for purchases made outside of Illinois.

rippled through the economy creating additional jobs, payrolls, and other economic activity. These contributions are summarized in Table 10. More than 380 jobs in Illinois are connected to IMSA operations. These operations were associated with about \$50 million in economic output (equivalent to total sales of a business or total spending of a government enterprise). Value added, which is a measure similar to gross state product, totaled about \$33.8 million.

Table 10. Illinois Math and Science Academy’s Operational Expenditures: Output and Employment Contributions – FY 2016

Employment and Operations Spending FY 2016			
	Direct	Indirect	Total
Employment	214	167	381
Output	\$24,794,090	\$25,270,013	\$50,064,102
Value-Added	\$18,742,849	\$15,034,429	\$33,777,278
- Employee Compensation	\$18,742,849	\$8,393,840	\$27,136,689

While significant, these economic contributions are only one component of the contributions to the Illinois economy. More significantly, the school increases the capacity of its students to make significant contributions to businesses, nonprofit agencies, and governments. These *human capital* impacts are described in other portions of this report.