

2014 IUPUI Graduate Alumni Survey

Summary of Results – School of Engineering & Technology

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PURPOSE: To measure indicators related to current alumni employment, satisfaction with experiences at IUPUI, effectiveness of IUPUI on learning, further education, and connection to IUPUI.

METHODS: Survey administered to graduate student alumni who graduated from Fall 2011 to Spring 2014 for which the Office of Alumni Relations had up-to-date contact information. All graduates from Summer 2014 were included in the sample.

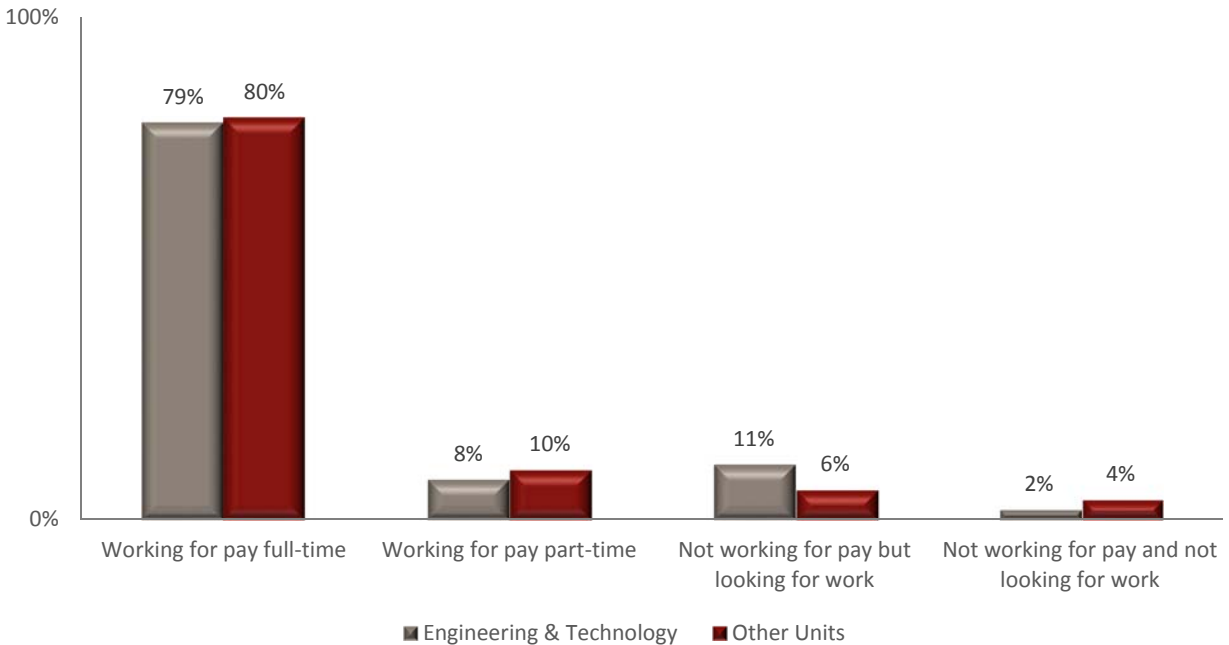
RESPONDENT CHARACTERISTICS:

	ENGT Respondents	Invited from ENGT	All Respondents	All Invited
<i>Female</i>	31.3%	27.7%	58.7%	57.7%
<i>Male</i>	68.8%	72.3%	41.2%	42.3%
<i>White</i>	50.0%	50.2%	69.3%	66.5%
<i>Black</i>	10.4%	5.6%	6.8%	6.3%
<i>Hispanic</i>	0.0%	1.4%	1.1%	1.8%
<i>Asian</i>	2.1%	3.5%	4.2%	5.9%
<i>Other</i>	0.0%	0.4%	0.2%	0.6%
<i>International</i>	37.5%	38.6%	16.0%	15.4%
<i>Refused</i>	0.0%	0.4%	2.4%	3.5%
N	48	285	938	5291
Response Rate	17%		19%	

- Demographics of the alumni respondents from the School of Engineering & Technology are similar to those of the sample. There is a slight overrepresentation of black students.
- School of Engineering & Technology respondents are more likely to be male compared to other units on campus.
- The School of Engineering & Technology has more international students compared to other units.
- 28% of Engineering & Technology alumni respondents also attended IUPUI for their undergraduate degree which is higher compared to other units at IUPUI (16%).

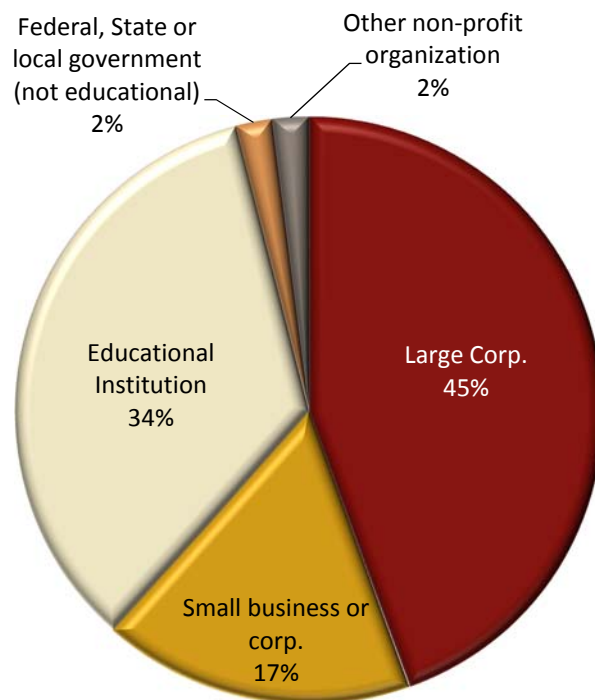
Section 1: Employment

**Figure 1:
Employment Status**



- The large majority (87%) of all School of Engineering & Technology graduate student alumni are working either full-time or part-time.
- Over half (56%) of those currently working are employed in Indiana which is significantly less than other units (74%).
- Just under half of all respondents report that their School of Engineering & Technology education prepared them for their current job very well (48%), while nearly two thirds agree that it enhanced their prospects for career advancement (63%) very well.
- The large majority believe their School of Engineering & Technology education assisted them with preparation for their job and enhancing their prospects for career advancement at least somewhat at rates of 98% and 95% respectively.

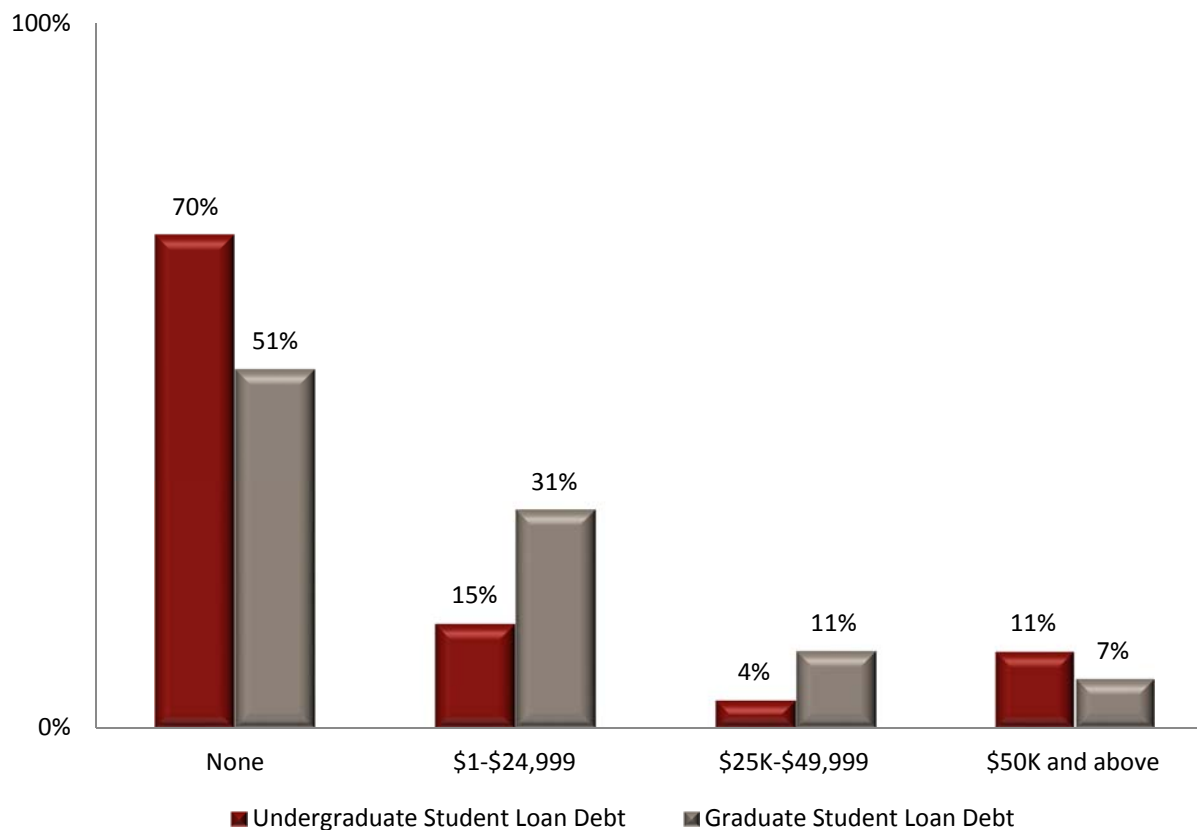
Figure 2
Type of Employer



- Nearly half (45%) of recent Liberal Arts graduate student alumni report working for a large corporation, which is much larger compared to other units (11%).
- The majority of respondents (61%) report that their current job is directly related to their major, while all respondents (100%) say it is at least somewhat related.
- The majority of graduate student alumni (83%) also agree with the statement, “The job I have is the job I want.”
- Almost two thirds of Engineering & Technology graduate student alumni respondents (63%) have an annual salary of at least \$60,000 which is greater than other units where this is true for only 33% of alumni.

Section 2: Student Loan Debt

**Figure 3:
Student Loan Debt (from all sources)**



- Slightly more than half of Engineering & Technology alumni (51%) report having no debt related to their graduate degree while this is true for only 32% of alumni from other units at IUPUI.
- Only 11% of graduate alumni from the School of Engineering & Technology have \$50,000 or more debt related to their graduate degree which is less compared to other units (32%) on campus.
- Roughly 18% of Engineering & Technology alumni state that they are not at all confident that they will be able to pay off their student loans on time which is similar to students from other units on campus (21%).
- The large majority (74%) of the School of Engineering & Technology alumni are at least somewhat confident they will be able to pay off their student loans on time.

Section 3: IUPUI Experience

Table 1
Satisfaction with Academics, Instruction, and the Learning Environment ^a

Please indicate how satisfied you are with each of the following aspects of your IUPUI experience.	Very Dissatisfied	Dissatisfied	Satisfied	Very Satisfied	Mean
	<i>Percentages</i>				
Overall quality of your academic experiences at IUPUI	2%	0%	56%	42%	3.38
Your social experiences at IUPUI	4%	10%	67%	19%	3.00
Quality of teaching by faculty in your major area	6%	8%	48%	38%	3.17
Quality of advising or mentorship	2%	15%	52%	31%	3.13
Quality of courses in your major area	4%	17%	44%	35%	3.10
Personal attention from those in your major department	4%	15%	42%	40%	3.17
Opportunities for community engagement (projects, research, exhibitions, etc.)	4%	8%	60%	28%	3.11
Opportunities to participate in faculty members' research	4%	17%	51%	28%	3.02
Opportunities to participate in personal research	4%	15%	49%	32%	3.09
Consultations about thesis, dissertation, or creative project.	6%	4%	45%	45%	3.28
General helpfulness of faculty	2%	2%	50%	46%	3.40
Tutoring and other academic support services	2%	11%	64%	23%	3.09
Use of technology in the classroom	2%	6%	49%	43%	3.32
The extent to which faculty and staff helped you become oriented to your program	6%	17%	40%	36%	3.06

^a 1 = Very Dissatisfied, 2 = Dissatisfied, 3 = Satisfied, 4 = Very Satisfied

- The vast majority (98%) of Engineering & Technology graduate student alumni respondents are satisfied or very satisfied with the overall quality of their academic experiences.
- The lowest satisfaction is in regards to opportunities to participate in faculty members' research. However, a significantly larger number of alumni (79%) report being satisfied or very satisfied when compared to alumni from other units (64%).
- School of Engineering & Technology alumni respondents (83%) are significantly more likely than other units (65%) to be satisfied with the quality of advising or mentorship received while a student.

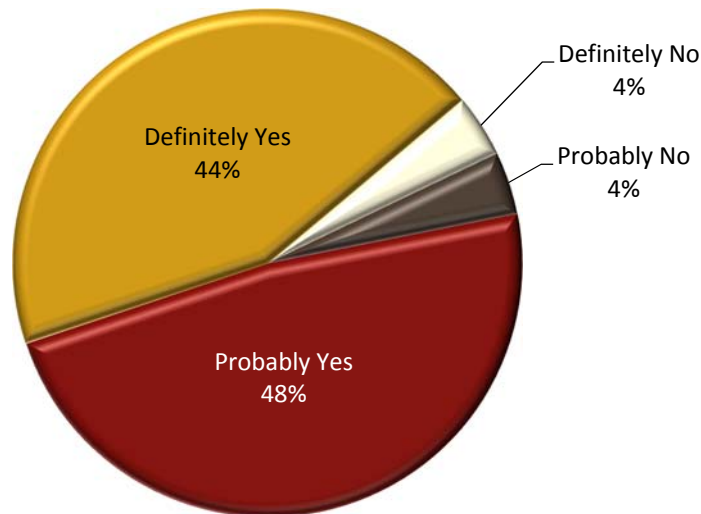
Table 2
Satisfaction with Co-Curricular Experiences and Other Services ^a

Please indicate how satisfied you are with each of the following aspects of your IUPUI experience.	Very Dissatisfied	Dissatisfied	Satisfied	Very Satisfied	Mean
	Percentages				
Opportunities to develop appreciation for diversity (outside speakers, programs, films, book discussions, etc.)	4%	11%	64%	21%	3.02
Opportunities to develop leadership skills (in class)	4%	19%	51%	26%	2.98
Opportunities to develop leadership skills (outside the classroom)	6%	19%	53%	21%	2.89
Opportunities for career development (externship, job shadowing, career workshops, internships, etc.)	6%	23%	46%	25%	2.90
Opportunities to participate in international activities on campus (participating in courses or programs with international students, using the global classroom, etc.)	4%	13%	60%	23%	3.02

^a 1 = Very Dissatisfied, 2 = Dissatisfied, 3 = Satisfied, 4 = Very Satisfied

- Overall, respondents are satisfied with the co-curricular experience at IUPUI.
- Some School of Engineering & Technology alumni report that they would like to have more opportunities for career development with 29% being dissatisfied, but this is not significantly different compared to alumni from other programs.

Figure 4
If You Could Start Over Again, Would You Go To IUPUI?



- The large majority of Engineering & Technology alumni (92%) would either probably or definitely attend IUPUI if they had an opportunity to start over again.

Table 3
Satisfaction with Assistantships & Internships/Externships ^a

Percentage who are very satisfied/ satisfied with...	Teaching Assistantship	Research Assistantship	Internship/ Externship
The extent to which it complemented your coursework	80%	70%	90%
The extent to which it corresponded to your career goals	80%	70%	100%
The extent to which it prepared you for the job market	60%	70%	100%
The extent to which you were mentored/ supervised	80%	90%	100%
N	5	10	10

^a 1 = Very Dissatisfied, 2 = Dissatisfied, 3 = Satisfied, 4 = Very Satisfied

- Respondents were asked if they completed an assistantship or internship/externship while at IUPUI. Just under one third (29%) of all Engineering & Technology respondents had an assistantship while in school while roughly one out of five (21%) of graduate student alumni completed an internship/externship while in school.
- Compared to other units (50%) on campus the School of Engineering & Technology has significantly less graduate alumni who had an assistantship.
- Among students who did not have an assistantship, most did not desire one (82%), but there was a small amount that wanted an assistantship but did not receive one from their department (12%).
- The large majority of respondents are satisfied with how assistantships (86%) and internships/externships (89%) are assigned.
- Overall School of Engineering & Technology alumni are satisfied with their assistantships and internships/externships. A larger percentage of respondents who completed an internship/externship report being satisfied with how it prepared them for the job market compared to alumni who completed an assistantship.

Section 4: Impact of IUPUI on Learning.

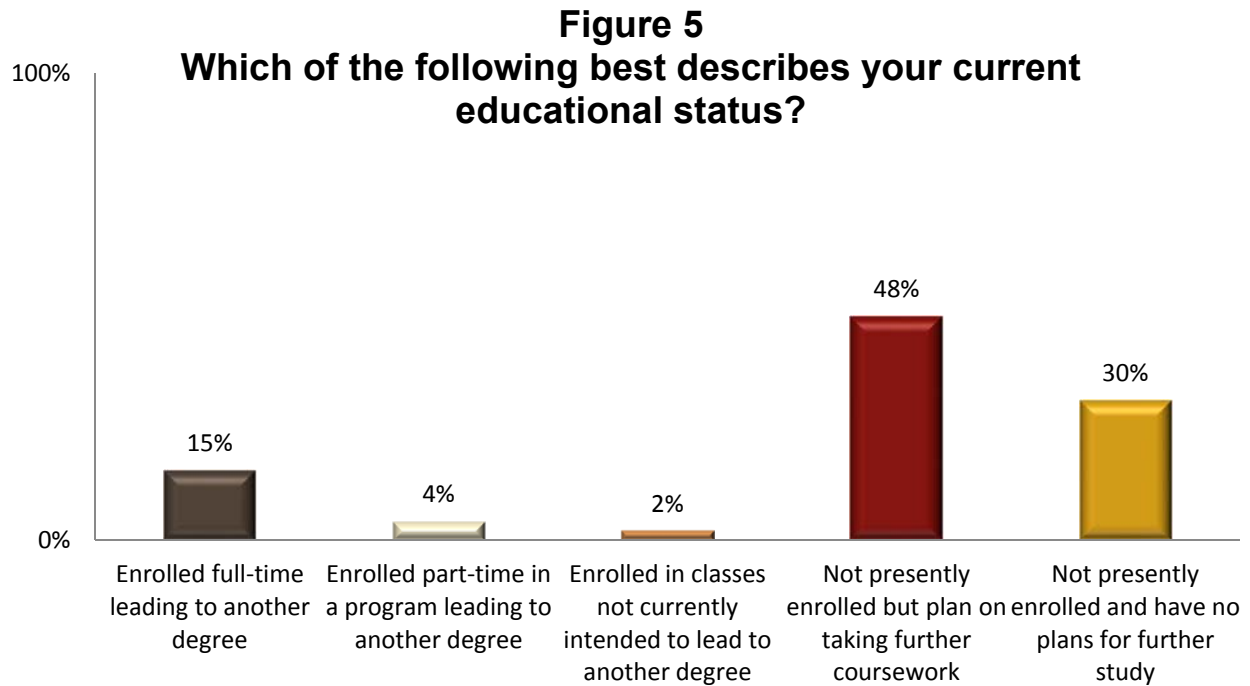
Table 4
Knowledge and Skills ^a

Please indicate your level of effectiveness in each of the following skills/abilities.	Not at all Effective	Somewhat Effective	Effective	Very Effective	Mean
	<i>Percentages</i>				
Acquiring in-depth knowledge in your discipline	2%	17%	39%	41%	3.20
Conducting original research and scholarship	2%	24%	38%	36%	3.07
Understanding research/scholarship in your discipline	4%	22%	37%	37%	3.07
Communicating effectively with others in your discipline	4%	13%	46%	37%	3.15
Communicating effectively with the general public	6%	11%	50%	33%	3.09
Thinking critically	4%	4%	41%	50%	3.37
Thinking creatively	4%	9%	43%	44%	3.26
Applying good judgement in both professional and personal situations	2%	2%	52%	44%	3.37
Solving problems in your discipline	0%	6%	50%	44%	3.37
Conducting research in an ethical manner	4%	9%	42%	44%	3.27
Behaving in an ethical way	2%	4%	30%	63%	3.54
Using the knowledge gained in college to address social issues or problems	4%	16%	47%	33%	3.09
Understanding contemporary social issues	4%	13%	51%	31%	3.09
Exercising your responsibilities as a citizen (e.g. voting, actively participating in community and political issues)	7%	18%	44%	31%	3.00
Marketing yourself effectively	7%	28%	37%	28%	2.87

^a 1 = Not at all Effective, 2 = Somewhat Effective, 3 = Effective, 4 = Very Effective

- Alumni respondents rate themselves as mostly effective on skills and abilities that are related to the principles of graduate and professional student learning (PGPLs).
- Respondents rate themselves highest on the skills/abilities of applying good judgement in both professional and personal situations (96%), behaving in an ethical way (94%), and solving problems in their discipline (94%) where the vast majority believe they are either effective or very effective.
- School of Engineering & Technology graduate student alumni rate themselves lowest regarding marketing themselves effectively and conducting original research and scholarship. But even a large majority rate themselves as at least somewhat effective on these two skills/abilities.
- School of Engineering & Technology alumni even have a higher rate that rate themselves as very effective (36%) in regards to conducting original research and scholarship compared to other units at IUPUI (23%).

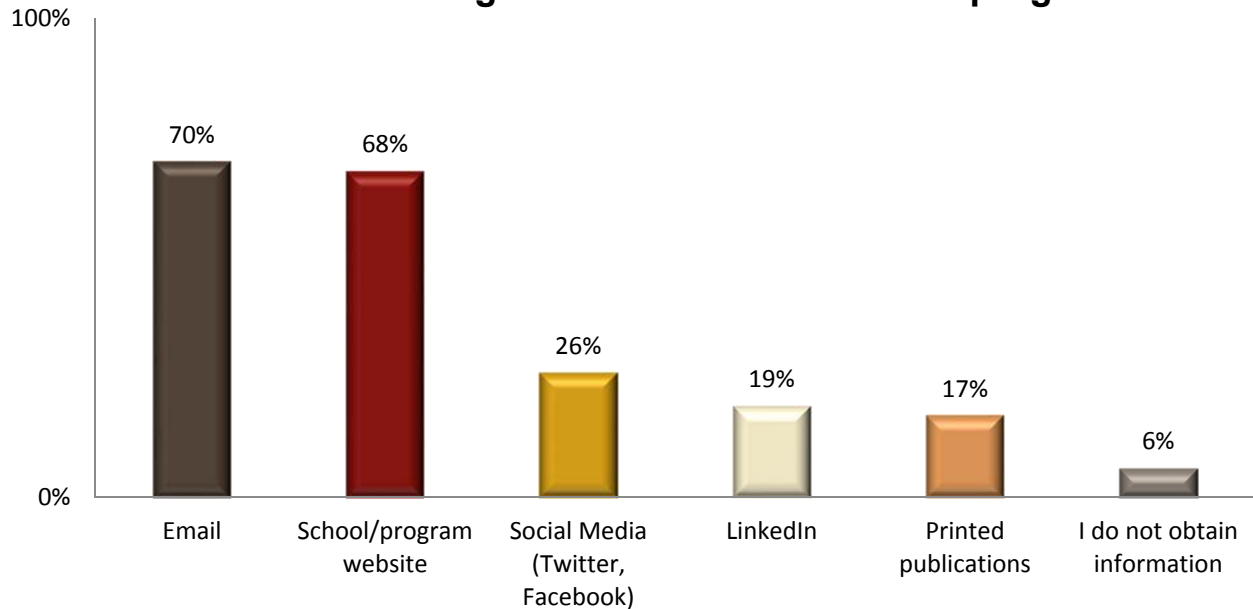
Section 5: Further Education



- Two-thirds of alumni from the School of Engineering & Technology are either currently enrolled in a program leading to a degree (19%) or have plans for further study (48%).
- The School of Engineering & Technology has a larger percentage of alumni who plan on taking further coursework compared to other units on campus (24%).
- Of those that are currently enrolled, a majority (56%) are enrolled at IUPUI.
- Under half (44%) believe their IUPUI education prepared them very well to pursue their new degree while the majority (78%) report that it prepared them at least somewhat.
- Of those alumni who are enrolled in an institution leading to another degree, more than half (56%) were accepted to their 1st choice school and 89% were admitted to at least their 2nd choice.

Section 6: Connection with School

Figure 6
Method of obtaining information about School/program



- The large majority (94%) of graduate alumni respondents obtain information regarding the School of Engineering & Technology.
- The two most common methods of obtaining information about the School of Engineering & Technology include e-mail (70%) and the School's website (68%). It's important to note this information was obtained from a survey sent to e-mail addresses.
- More than one third of respondents (38%) report feeling a very strong connection toward the School of Engineering & Technology which is significantly higher than other units (16%).
- The majority of alumni report feeling at least some of a connection to the School (79%).