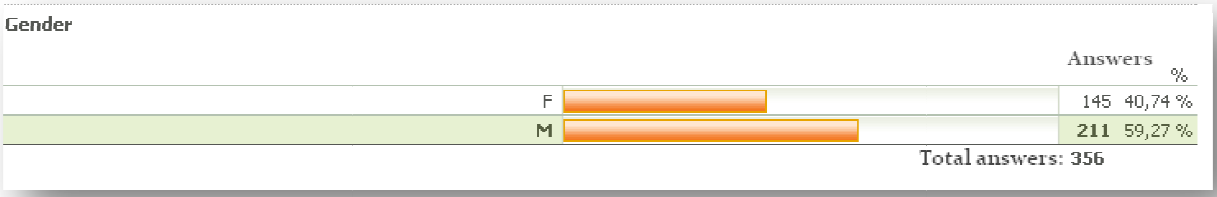
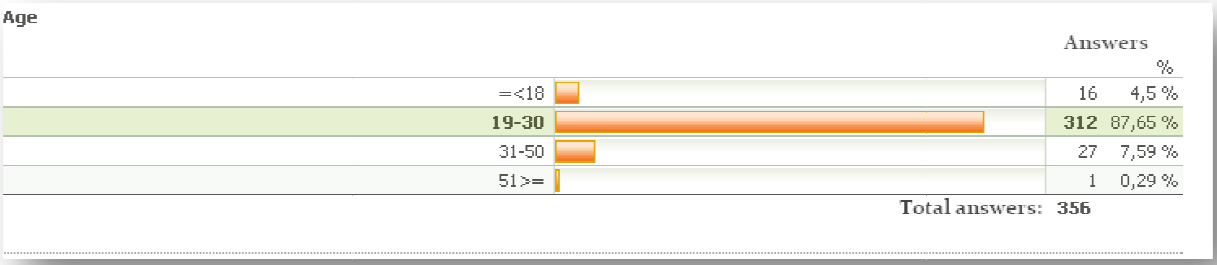
Team & Personals

The 'Team & Personal' Section was created mainly to establish the most basic information about an average iGEM participant. People were asked about their sex, age, scientific degree, lab experience, about which time they take part in iGEM and do they plan to participate for the next time*. The aim of all these questions was to get the general overview on each and all the iGEM competition participants, both as separate persons and as team members.

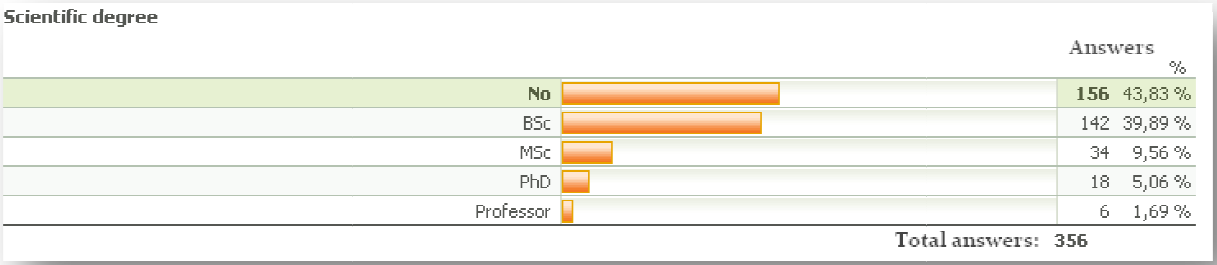
1. First of all, there are more men (59, 27%) than women (40,74%) in the iGEM competition.



2. We also analyzed the data considering the age. The majority of the iGEMers are young – between 19 and 30 (87,65%).



3. Most of them are bachelors (39,89%) or without any degree (43,83%).



4. In order to see relations between three variables – age, gender and scientific degree we put two filters on cross results – male and female filter. We can observe that among women more participants between 19-30 years old have BSc degree (51,88%) than none(42,11%), while among men it is inversely (41,12% and 45,0% respectively). It is also possible to notice

that the percentage of participants with MSc degree or higher differ among men and women – there are nearly three times more men than women with a scientific degree higher than BSc (in per cents).

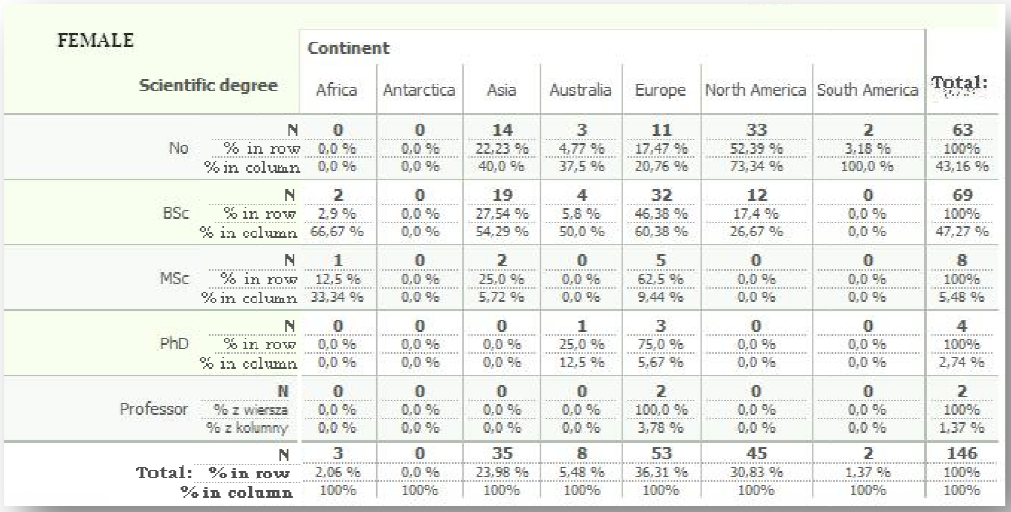
FEMALE

Age		Scientific degree: No	BSc	MSc	PhD	Professor	Total:
=<18	N	6	0	0	0	0	6
	% in row	100,0 %	0,0 %	0,0 %	0,0 %	0,0 %	100%
	% in column	9,53 %	0,0 %	0,0 %	0,0 %	0,0 %	4,11 %
19-30	N	56	69	7	1	0	133
	% in row	42,11 %	51,88 %	5,27 %	0,76 %	0,0 %	100%
	% in column	88,89 %	100,0 %	87,5 %	25,0 %	0,0 %	91,1 %
31-50	N	1	0	1	3	2	7
	% in row	14,29 %	0,0 %	14,29 %	42,86 %	28,58 %	100%
	% in column	1,59 %	0,0 %	12,5 %	75,0 %	100,0 %	4,8 %
51>=	N	0	0	0	0	0	0
	% in row	0,0 %	0,0 %	0,0 %	0,0 %	0,0 %	100%
	% in column	0,0 %	0,0 %	0,0 %	0,0 %	0,0 %	0,0 %
Total:	N	63	69	8	4	2	146
	% in row	43,16 %	47,27 %	5,48 %	2,74 %	1,37 %	100%
	% in column	100%	100%	100%	100%	100%	100%

MALE

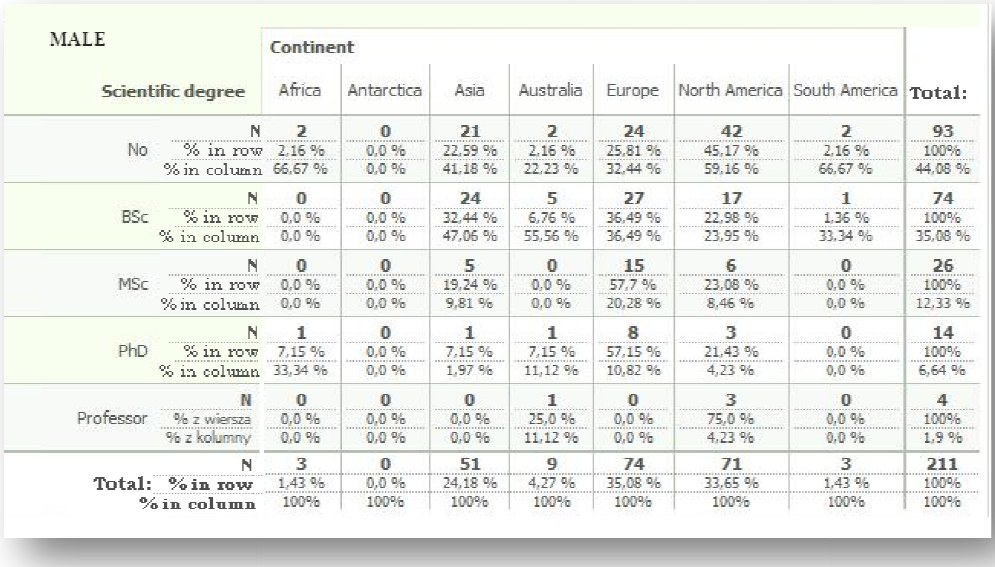
Age		Scientific degree: No	BSc	MSc	PhD	Professor	Total:
=<18	N	10	0	0	0	0	10
	% in row	100,0 %	0,0 %	0,0 %	0,0 %	0,0 %	100%
	% in column	10,76 %	0,0 %	0,0 %	0,0 %	0,0 %	4,74 %
19-30	N	81	74	22	3	0	180
	% in row	45,0 %	41,12 %	12,23 %	1,67 %	0,0 %	100%
	% in column	87,1 %	100,0 %	84,62 %	21,43 %	0,0 %	85,31 %
31-50	N	2	0	3	11	4	20
	% in row	10,0 %	0,0 %	15,0 %	55,01 %	20,0 %	100%
	% in column	2,16 %	0,0 %	11,54 %	78,58 %	100,0 %	9,48 %
51>=	N	0	0	1	0	0	1
	% in row	0,0 %	0,0 %	100,0 %	0,0 %	0,0 %	100%
	% in column	0,0 %	0,0 %	3,85 %	0,0 %	0,0 %	0,48 %
Total:	N	93	74	26	14	4	211
	% in row	44,08 %	35,08 %	12,33 %	6,64 %	1,9 %	100%
	% in column	100%	100%	100%	100%	100%	100%

5. We also have put the male/female filter on gender-continent cross. Each continent send nearly the same percentage of bachelors, masters of science, doctors, professors and participants without any degree among men and women.



FEMALE

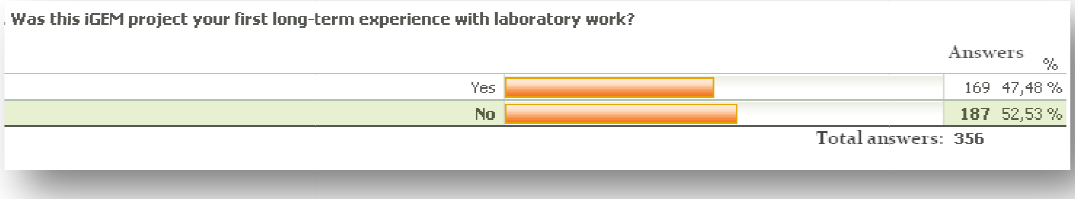
Scientific degree		Africa	Antarctica	Asia	Australia	Europe	North America	South America	Total:
	N	0	0	14	3	11	33	2	63
No	% in row	0,0 %	0,0 %	22,23 %	4,77 %	17,47 %	52,39 %	3,18 %	100%
	% in column	0,0 %	0,0 %	40,0 %	37,5 %	20,76 %	73,34 %	100,0 %	43,16 %
	N	2	0	19	4	32	12	0	69
BSc	% in row	2,9 %	0,0 %	27,54 %	5,8 %	46,38 %	17,4 %	0,0 %	100%
	% in column	66,67 %	0,0 %	54,29 %	50,0 %	60,38 %	26,67 %	0,0 %	47,27 %
	N	1	0	2	0	5	0	0	8
MSc	% in row	12,5 %	0,0 %	25,0 %	0,0 %	62,5 %	0,0 %	0,0 %	100%
	% in column	33,34 %	0,0 %	5,72 %	0,0 %	9,44 %	0,0 %	0,0 %	5,48 %
	N	0	0	0	1	3	0	0	4
PhD	% in row	0,0 %	0,0 %	0,0 %	25,0 %	75,0 %	0,0 %	0,0 %	100%
	% in column	0,0 %	0,0 %	0,0 %	12,5 %	5,67 %	0,0 %	0,0 %	2,74 %
	N	0	0	0	0	2	0	0	2
Professor	% z wiersza	0,0 %	0,0 %	0,0 %	0,0 %	100,0 %	0,0 %	0,0 %	100%
	% z kolumny	0,0 %	0,0 %	0,0 %	0,0 %	3,78 %	0,0 %	0,0 %	1,37 %
	N	3	0	35	8	53	45	2	146
Total:	% in row	2,06 %	0,0 %	23,98 %	5,48 %	36,31 %	30,83 %	1,37 %	100%
	% in column	100%	100%	100%	100%	100%	100%	100%	100%



MALE

Scientific degree		Africa	Antarctica	Asia	Australia	Europe	North America	South America	Total:
	N	2	0	21	2	24	42	2	93
No	% in row	2,16 %	0,0 %	22,59 %	2,16 %	25,81 %	45,17 %	2,16 %	100%
	% in column	66,67 %	0,0 %	41,18 %	22,23 %	32,44 %	59,16 %	66,67 %	44,08 %
	N	0	0	24	5	27	17	1	74
BSc	% in row	0,0 %	0,0 %	32,44 %	6,76 %	36,49 %	22,98 %	1,36 %	100%
	% in column	0,0 %	0,0 %	47,06 %	55,56 %	36,49 %	23,95 %	33,34 %	35,08 %
	N	0	0	5	0	15	6	0	26
MSc	% in row	0,0 %	0,0 %	19,24 %	0,0 %	57,7 %	23,08 %	0,0 %	100%
	% in column	0,0 %	0,0 %	9,81 %	0,0 %	20,28 %	8,46 %	0,0 %	12,33 %
	N	1	0	1	1	8	3	0	14
PhD	% in row	7,15 %	0,0 %	7,15 %	7,15 %	57,15 %	21,43 %	0,0 %	100%
	% in column	33,34 %	0,0 %	1,97 %	11,12 %	10,82 %	4,23 %	0,0 %	6,64 %
	N	0	0	0	1	0	3	0	4
Professor	% z wiersza	0,0 %	0,0 %	0,0 %	25,0 %	0,0 %	75,0 %	0,0 %	100%
	% z kolumny	0,0 %	0,0 %	0,0 %	11,12 %	0,0 %	4,23 %	0,0 %	1,9 %
	N	3	0	51	9	74	71	3	211
Total:	% in row	1,43 %	0,0 %	24,18 %	4,27 %	35,08 %	33,65 %	1,43 %	100%
	% in column	100%	100%	100%	100%	100%	100%	100%	100%

6. For 47,48% of participants the iGEM project was their first long-term lab experience!

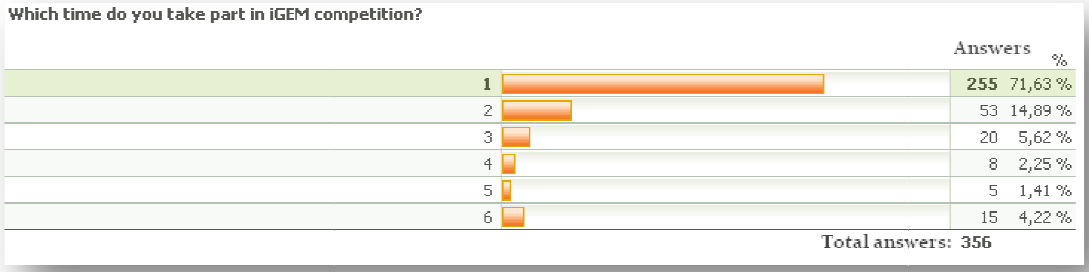


Was this iGEM project your first long-term experience with laboratory work?

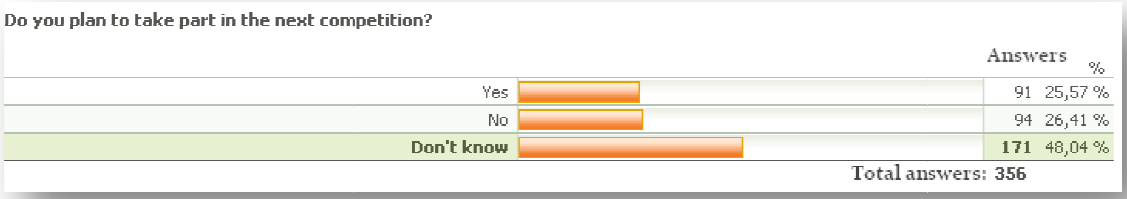
	Answers	%
Yes	169	47,48 %
No	187	52,53 %

Total answers: 356

7. And for 71,63% of participants this is the first iGEM ever. Only 14,89% of them claim to take part for the second time and below 6% of them - more than 2 times.



8. Nearly half of interviewees don't know if they are going to take part in the next competition (48,04%). The definite 'yes' or 'no' are respectively 25,57% and 26,41%.



Comparing this results with the ones from point no. 7 we might assume that those who picked 'don't know' will not participate in the next competition eventually. If we count the percentage of those, who take part for the second time out of those, who take part for the first time, we can easily see that they make only 20%, which correlates with point no.8 results.

Cross questions

9. **Gender studies**

We examined also data that might be affected by the sex of participants. We looked through the results to find out how many times did statistical woman and statistical man participate in the iGEM, do they plan to take part in the next competition, what is the ratio between men and women coming from different continents, which functions they perform or how they differ in their lab experience. And, last but not least, does the gender of team participants affect somehow the amount of money they receive for the project.

Some of the results were not surprising. Each continent sends nearly the same percent of men and women. Similar percentage of men and women admitted that the iGEM is their first long-term laboratory experience. There is not any strong trend proving that men are able to gain more money for their projects – the differences are not significant.

The first interesting thing is that there are over 2 times more instructors among men (10,43%) than women (4,80%). This results correlate with the gender – scientific degree cross.
Also men are more decided to participate in the next iGEM edition (28,44% of men, 21,24% of women). Surprisingly more women (19,18% of women, 11,85% of men) claim to take part for the second time in the competition, and there is no trend for the rest. We might only venture a statement that in the beginnings of the iGEM there were more men or more men stayed in iGEM, as 5,69% of men take part for the sixth time, which is 3 times more than women (2,06%). It should of course be taken under consideration that this group was relatively small and the results are just a ball park.

Gender		Continent							
		Africa	Antarctica	Asia	Australia	Europe	North America	South America	Total:
F	N	3	0	35	8	53	45	2	146
	% in row	2,06 %	0,0 %	23,98 %	5,48 %	36,31 %	30,83 %	1,37 %	100%
	% in column	50,0 %	0,0 %	40,7 %	47,06 %	41,74 %	38,8 %	40,0 %	40,9 %
M	N	3	0	51	9	74	71	3	211
	% in row	1,43 %	0,0 %	24,18 %	4,27 %	35,08 %	33,65 %	1,43 %	100%
	% in column	50,0 %	0,0 %	59,31 %	52,95 %	58,27 %	61,21 %	60,0 %	59,11 %
Total:	N	6	0	86	17	127	116	5	357
	% in row	1,69 %	0,0 %	24,09 %	4,77 %	35,58 %	32,5 %	1,41 %	100%
	% in column	100%	100%	100%	100%	100%	100%	100%	100%

Gender		Scientific degree					
		No	BSc	MSc	PhD	Professor	Total:
F	N	63	69	8	4	2	146
	% in row	43,16 %	47,27 %	5,48 %	2,74 %	1,37 %	100%
	% in column	40,39 %	48,26 %	23,53 %	22,23 %	33,34 %	40,9 %
M	N	93	74	26	14	4	211
	% in row	44,08 %	35,08 %	12,33 %	6,64 %	1,9 %	100%
	% in column	59,62 %	51,75 %	76,48 %	77,78 %	66,67 %	59,11 %
Total:	N	156	143	34	18	6	357
	% in row	43,7 %	40,06 %	9,53 %	5,05 %	1,69 %	100%
	% in column	100%	100%	100%	100%	100%	100%

Gender		Function in your team			
		student	advisor	instructor	Total:
F	N	129	10	7	146
	% in row	88,36 %	6,85 %	4,8 %	100%
	% in column	42,72 %	38,47 %	24,14 %	40,9 %
M	N	173	16	22	211
	% in row	82,0 %	7,59 %	10,43 %	100%
	% in column	57,29 %	61,54 %	75,87 %	59,11 %
Total:	N	302	26	29	357
	% in row	84,6 %	7,29 %	8,13 %	100%
	% in column	100%	100%	100%	100%

Gender		Was this iGEM project your first long-term experience with laboratory work?		Total:
		Yes	No	
F	N	70	76	146
	% in row	47,95 %	52,06 %	100%
	% in column	41,43 %	40,43 %	40,9 %
M	N	99	112	211
	% in row	46,92 %	53,09 %	100%
	% in column	58,58 %	59,58 %	59,11 %
Total:	N	169	188	357
	% in row	47,34 %	52,67 %	100%
	% in column	100%	100%	100%

Gender		Which time do you take part in iGEM competition?						Total:
		1	2	3	4	5	6	
F	N	106	28	3	4	2	3	146
	% in row	72,61 %	19,18 %	2,06 %	2,74 %	1,37 %	2,06 %	100%
	% in column	41,41 %	52,84 %	15,0 %	50,0 %	40,0 %	20,0 %	40,9 %
M	N	150	25	17	4	3	12	211
	% in row	71,1 %	11,85 %	8,06 %	1,9 %	1,43 %	5,69 %	100%
	% in column	58,6 %	47,17 %	85,0 %	50,0 %	60,0 %	80,0 %	59,11 %
Total:	N	256	53	20	8	5	15	357
	% in row	71,71 %	14,85 %	5,61 %	2,25 %	1,41 %	4,21 %	100%
	% in column	100%	100%	100%	100%	100%	100%	100%

Gender		Do you plan to take part in the next competition?			Total:
		Yes	No	Don't know	
F	N	31	44	71	146
	% in row	21,24 %	30,14 %	48,64 %	100%
	% in column	34,07 %	46,32 %	41,53 %	40,9 %
M	N	60	51	100	211
	% in row	28,44 %	24,18 %	47,4 %	100%
	% in column	65,94 %	53,69 %	58,48 %	59,11 %
Total:	N	91	95	171	357
	% in row	25,5 %	26,62 %	47,9 %	100%
	% in column	100%	100%	100%	100%

Gender		How big is your fund for the project in summary (in USD)?				Total:
		5 000	5 000-15 000	15 001-25 000	25 000	
F	N	24	39	29	26	118
	% in row	20,34 %	33,06 %	24,58 %	22,04 %	100%
	% in column	43,64 %	37,5 %	46,04 %	40,63 %	41,26 %
M	N	31	65	34	38	168
	% in row	18,46 %	38,7 %	20,24 %	22,62 %	100%
	% in column	56,37 %	62,5 %	53,97 %	59,38 %	58,75 %
Total:	N	55	104	63	64	286
	% in row	19,24 %	36,37 %	22,03 %	22,38 %	100%
	% in column	100%	100%	100%	100%	100%

10. Age studies

The next step was to examine two variables – which time the interviewees take part in the iGEM competition and their function in a team – in the context of their age.

The results were pure surprise. We assumed that participants with the longest 'practice' in the iGEM will be over 30 years old, but they proved us wrong. 73,34% of people participating for the sixth time are between 19-30! Even if older people didn't answer that often, as young ones, which affected the results, still we are able to say that there are a strong group of young, motivated scientists, for whom the iGEM and everything connected with it has become a part of academic development.
The more obvious thing is that the iGEM is a competition of young, but already involved in academic life people – 90,24% of those who take part for the first time are interviewees between 19 and 30 y.o.

Age		Which time do you take part in iGEM competition? 1	2	3	4	5	6	Total:
=<18	N	12	0	1	1	0	2	16
	% in row	75,0 %	0,0 %	6,25 %	6,25 %	0,0 %	12,5 %	100%
	% in column	4,69 %	0,0 %	5,0 %	12,5 %	0,0 %	13,34 %	4,49 %
19-30	N	231	47	16	6	2	11	313
	% in row	73,81 %	15,02 %	5,12 %	1,92 %	0,64 %	3,52 %	100%
	% in column	90,24 %	88,68 %	80,0 %	75,0 %	40,0 %	73,34 %	87,68 %
31-50	N	13	6	3	1	3	1	27
	% in row	48,15 %	22,23 %	11,12 %	3,71 %	11,12 %	3,71 %	100%
	% in column	5,08 %	11,33 %	15,0 %	12,5 %	60,0 %	6,67 %	7,57 %
51>=	N	0	0	0	0	0	1	1
	% in row	0,0 %	0,0 %	0,0 %	0,0 %	0,0 %	100,0 %	100%
	% in column	0,0 %	0,0 %	0,0 %	0,0 %	0,0 %	6,67 %	0,29 %
Total:	N	256	53	20	8	5	15	357
	% in row	71,71 %	14,85 %	5,61 %	2,25 %	1,41 %	4,21 %	100%
	% in column	100%	100%	100%	100%	100%	100%	100%

Interesting trend is visible while analyzing the age and the function. While most of the 19-30 year old iGEMers are students (89,78%), and only a little part of them perform superior functions, like advisor (5,44%) or instructor (4,80%), the older ones (31-50 years old) tend to have the opposite trend. Only 18,52% of them are students, 33,34% are advisors and neraly a half – 48,15% – are instructors.
Still, considering large number of young scientists in iGEM, we will still find more of them (65,39%) among the advisors group and more than a half (51,73%) in instructors group.

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*All the figures are published in igem2010survey_data.pdf.