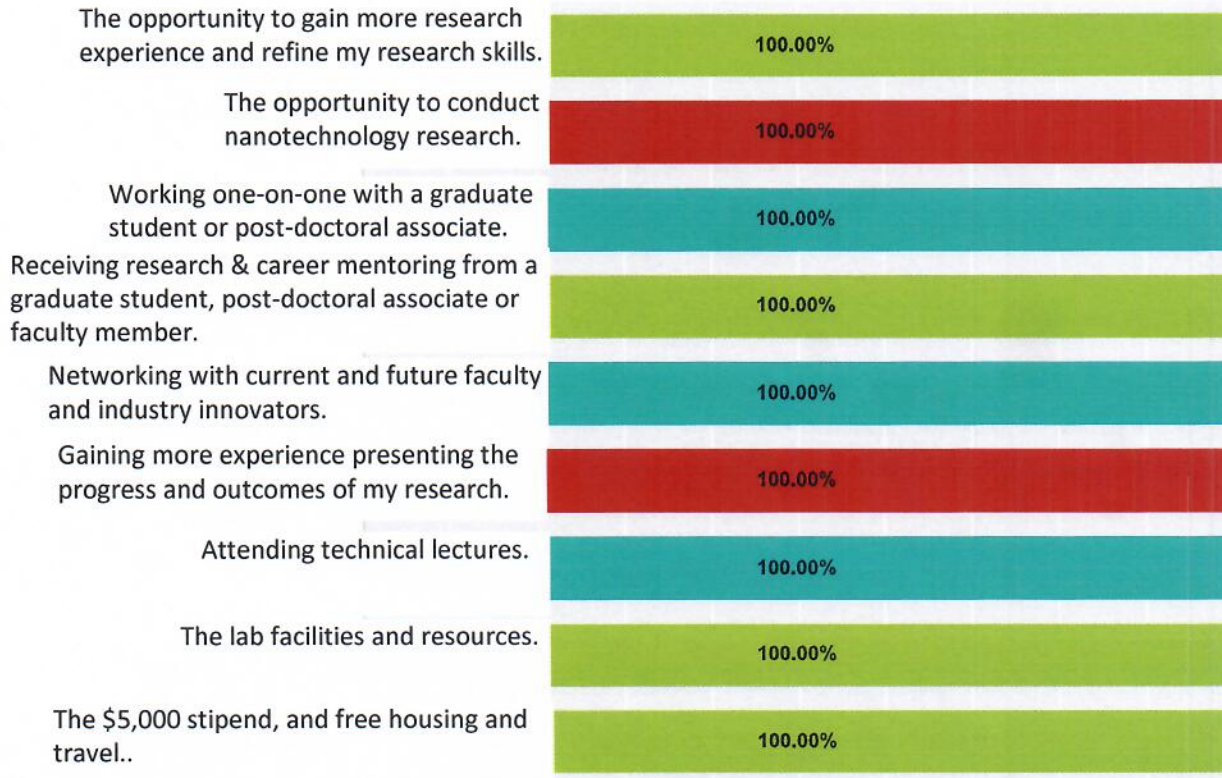


JHU
REU
MID
(1) (4)

Q1 How important were the following features of the REU in motivating you to apply?

Answered: 1 Skipped: 0



■ Very important
 ■ Somewhat important
 ■ Not important
 ■ N/A or Didn't know about this in advance.

#	Comments:	Date
	There are no responses.	

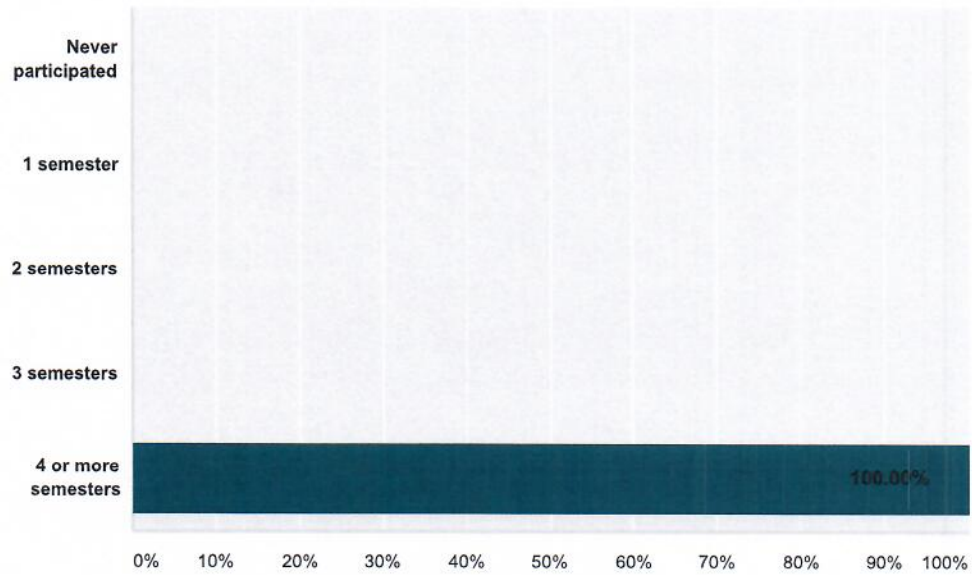
Q2 How did you find out about this REU? (If from a specific student, professor, or staff member at your home institution, please name him or her.)

Answered: 1 Skipped: 0

#	Responses	Date
1	online	7/10/2016 10:26 PM

Q3 How many times have you participated in ACADEMIC YEAR research (working in a faculty lab, college lab, capstone research course, etc.)?

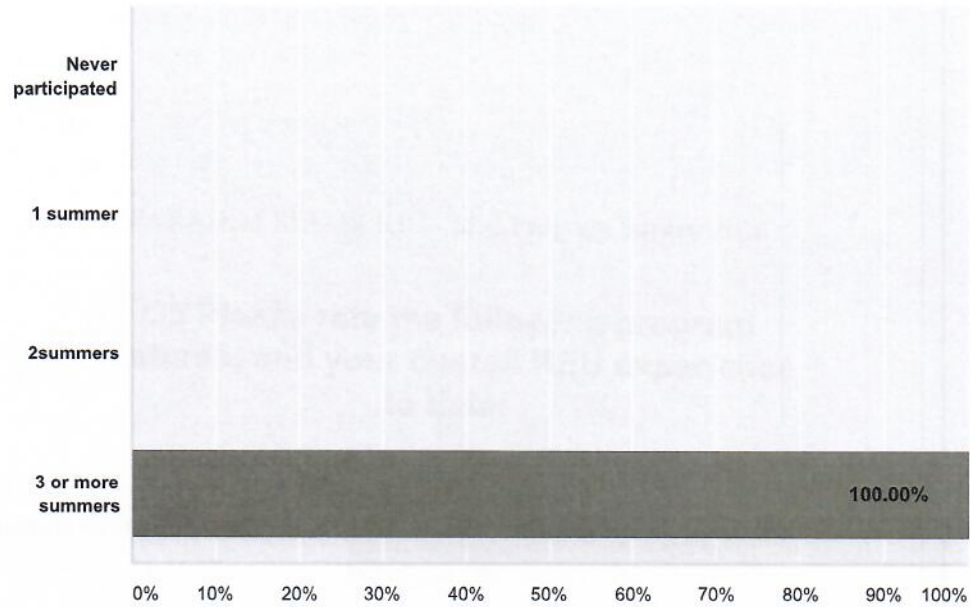
Answered: 1 Skipped: 0



#	Where did you work?	Date
1	CSU Northridge (as HS research associate), Stanford University (as lab member)	7/10/2016 10:28 PM

Q4 How many times have you participated in SUMMERresearch (faculty lab, internship, etc.)?

Answered: 1 Skipped: 0



#	Where did you work?	Date
1	UCLA (High School Research Program), CSU Northridge (as HS research associate), Stanford University (as summer fellow)	7/10/2016 10:28 PM

Q7 Please provide further explanation of your responses, particularly any “poor” or “fair” responses. Do you have any improvements to recommend? Or is there anything else you want to say?

Answered: 1 Skipped: 0

#	Responses	Date
1	Have not attended any of the events for question 6, but no N/A option available.	7/10/2016 10:30 PM

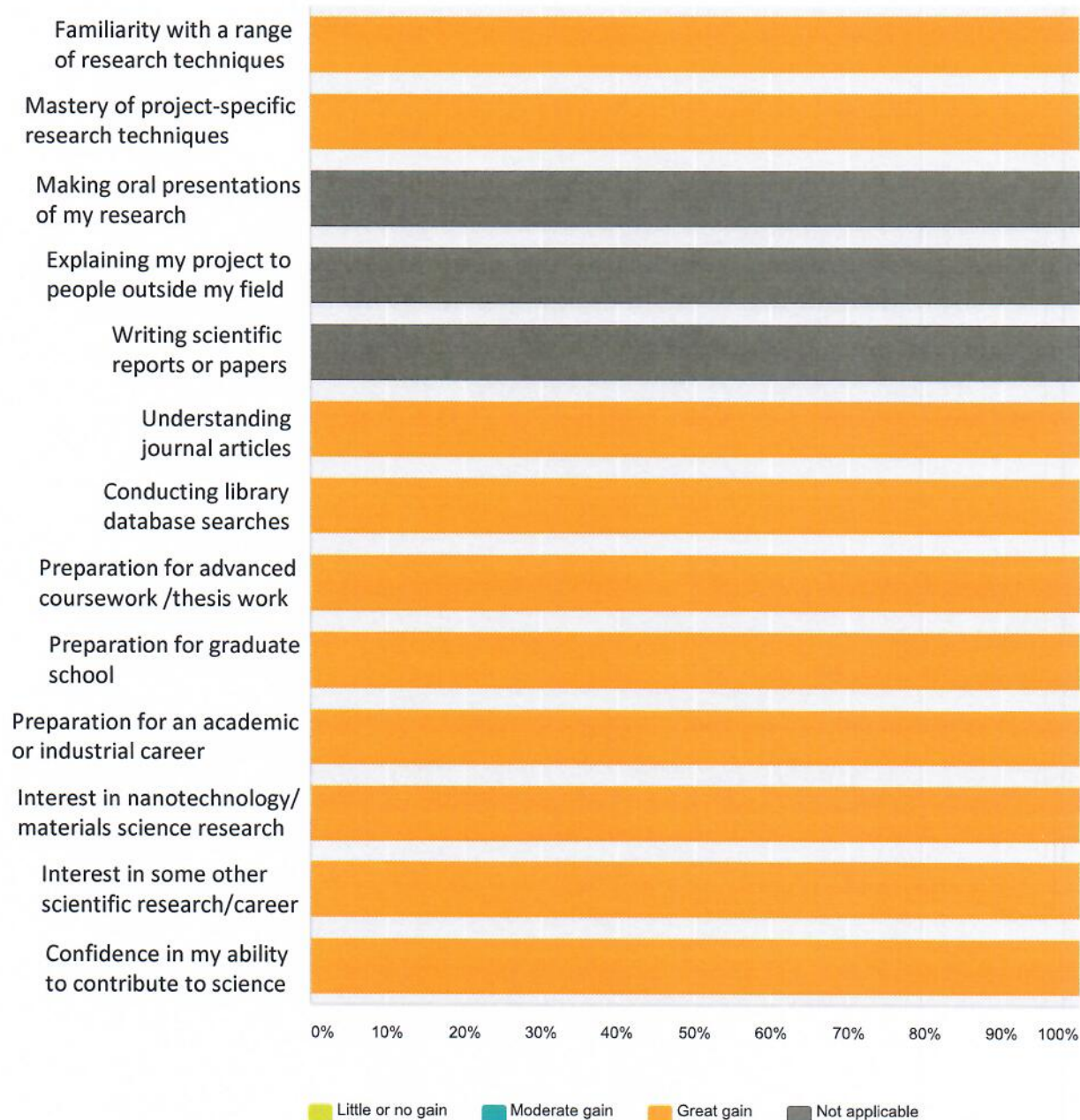
Q1 What were the best aspects of the REU program? What aspects are most in need of improvement? Please take some time to reflect and elaborate. (Note: There is no need to repeat any comments/suggestions you may already have made on the previous survey. Thanks again for offering those.)

Answered: 1 Skipped: 0

#	Responses	Date
1	Best parts 1) Grad students have been extremely engaging and willing to talk about their research and perspectives to me, as someone new in the field 2) PI has given me a lot of freedom and independence with respect to choosing projects of interest, and appears eager and excited to answer my questions and work with me 3) Flexibility expected of being a grad student, such as allowing me to choose my own hours, structure my workday as I see would be most productive, etc.	8/13/2016 9:59 PM

Q2 How much did you GAIN in the following areas as a result of this REU research experience?

Answered: 1 Skipped: 0



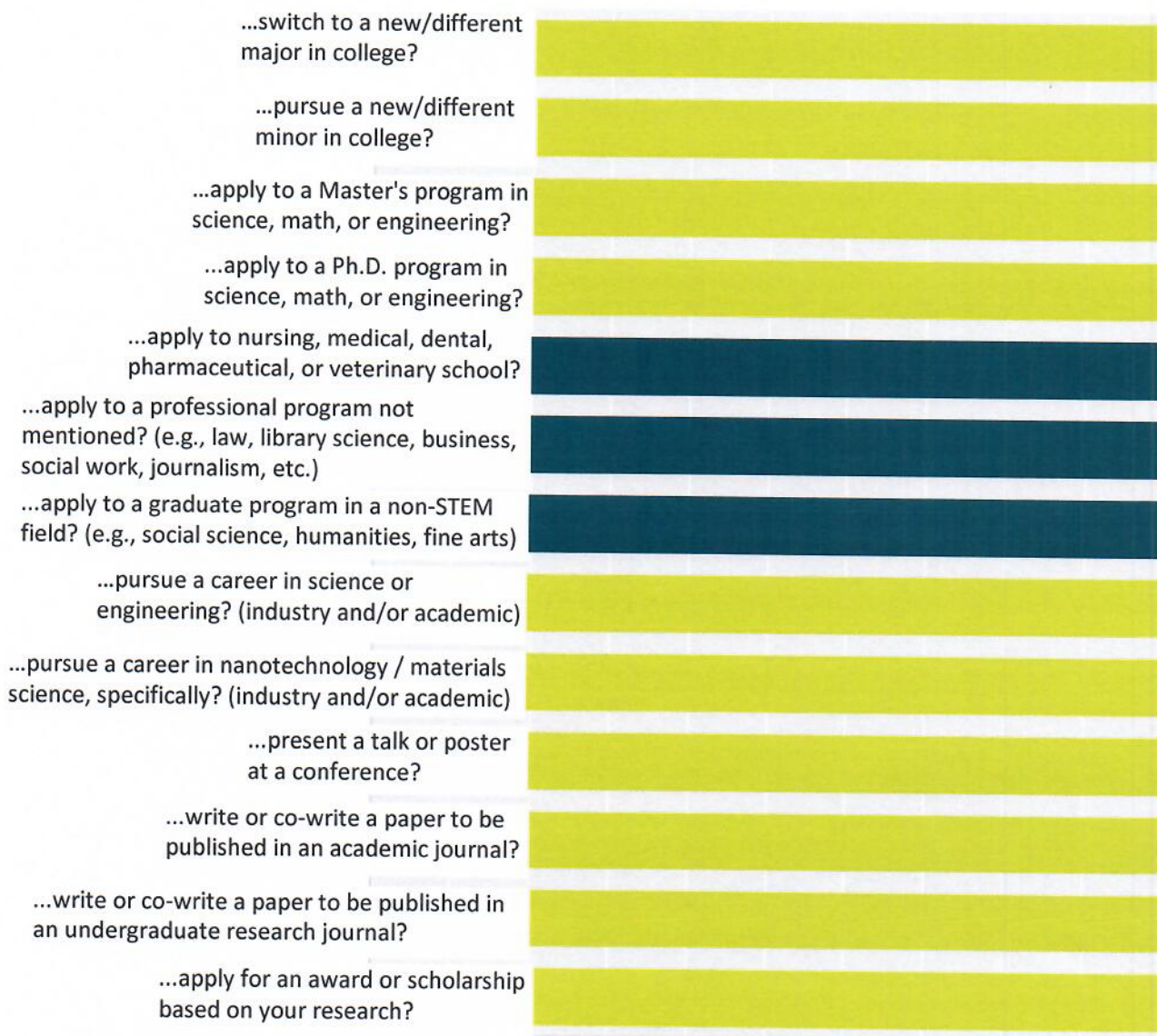
Q3 Please provide further explanation of your responses, particularly any “little or no gain” responses. Also, did you make any other gains that we didn’t mention?

Answered: 1 Skipped: 0

#	Responses	Date
1	Professional skills, like clearly communicating expectations with different supervisors e.g., I worked with 1 grad student, but that project didn't work out and I switched who I was working with. either had very different expectations of my independence (one thought I was overreaching and stubborn when I started doing experiments on my own without telling her, the other thought I was being passive and not proactive by trying to get all my experimental details approved by her before running experiments or purchasing), so learning how to handle those situations has really helped my development	8/13/2016 10:01 PM

Q4 As a RESULT of this REU research experience, how likely are you to:

Answered: 1 Skipped: 0



■ Not more likely (it's still not in the plans, OR it was already my plan)
 ■ More likely
 ■ Not applicable

#	Any comments? (For example, if none of the above apply to you, what are your plans for the future?)	Date
	There are no responses.	

Q5 If you indicated that you are likely to present, publish, or apply for an award/scholarship based on your research this summer, please tell us more:

Answered: 0 Skipped: 1

#	Responses	Date
	There are no responses.	

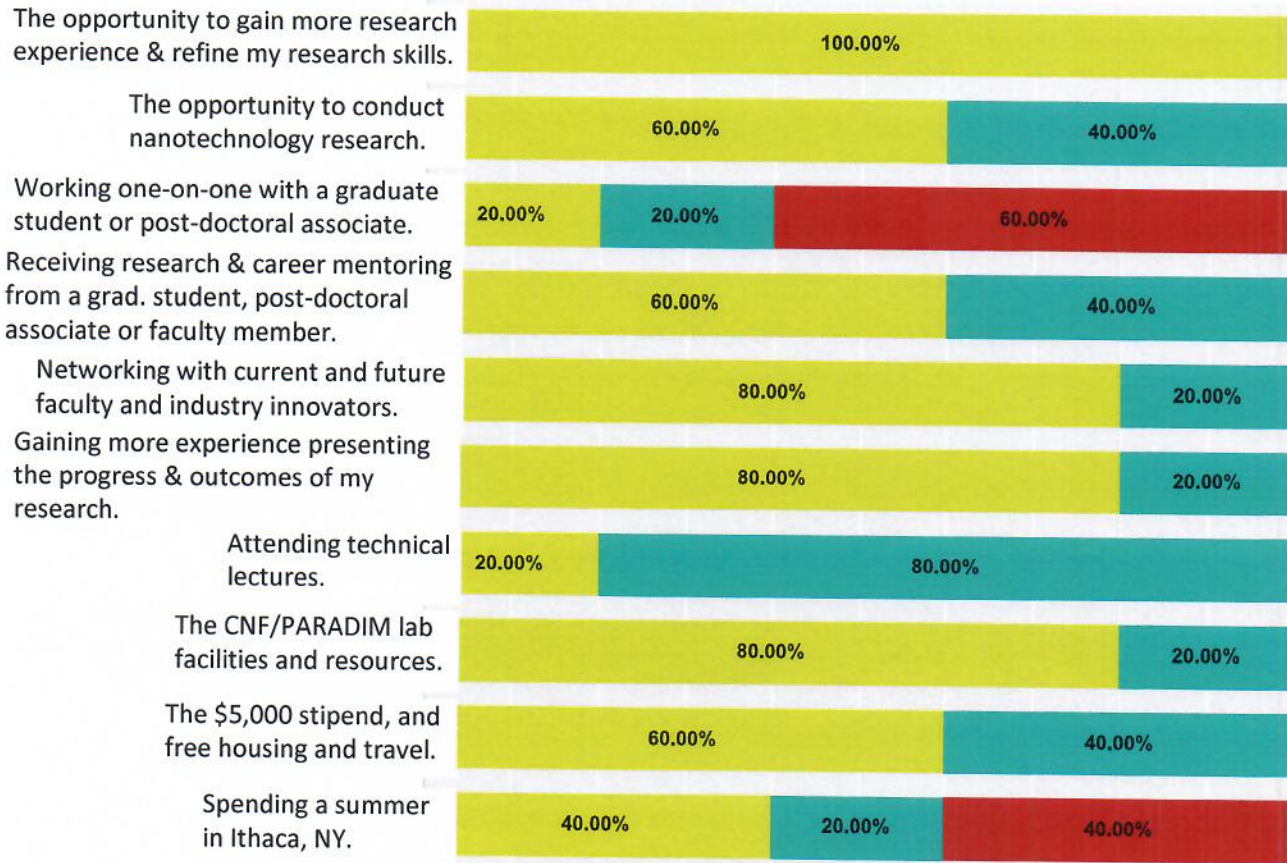
Q6 In your own words, how did your REU experience influence your thinking about future career and graduate school plans (or not)? Please explain. Finally, please share any additional thoughts you might have.

Answered: 1 Skipped: 0

#	Responses	Date
1	I do organic chemistry research at my home institution, but I wanted to explore solid state chemistry. This lab has provided me the best exploration I could hope for in this summer, allowing me to work on a variety of different projects and gain familiarity with the many different challenges in the field. As I got to know the field better and my interests developed, the lab was happy to accommodate and modify my project as needed.	8/13/2016 10:03 PM

Q1 How important were the following features of the REU in motivating you to apply?

Answered: 5 Skipped: 0



■ Very important
 ■ Somewhat important
 ■ Not important
 ■ N/A or Didn't know about this in advance

#	Comments:	Date
	There are no responses.	

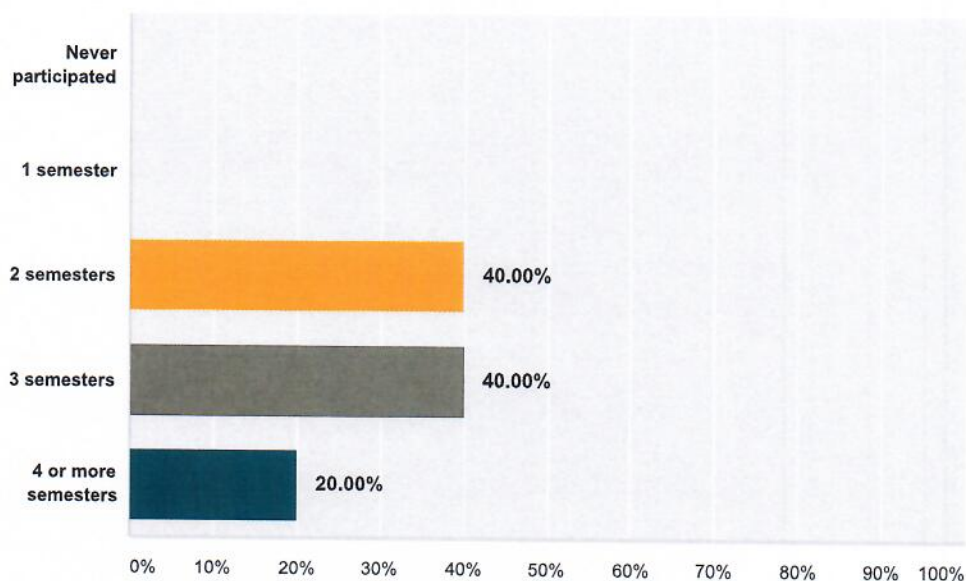
Q2 How did you find out about this REU? (If from a specific student, professor, or staff member at your home institution, please name him or her.)

Answered: 4 Skipped: 1

#	Responses	Date
1	Searching up REU programs online	7/9/2016 11:18 PM
2	Professor Janice Hudgings recommended searching online for NSF REU programs. Did not specifically call out CNF REU.	7/8/2016 11:31 AM
3	From Dr. Susan Montgomery at the University of Michigan	7/8/2016 9:36 AM
4	NSF Website	7/8/2016 9:31 AM

Q3 How many times have you participated in ACADEMIC YEAR research (working in a faculty lab, college lab, capstone research course, etc.)?

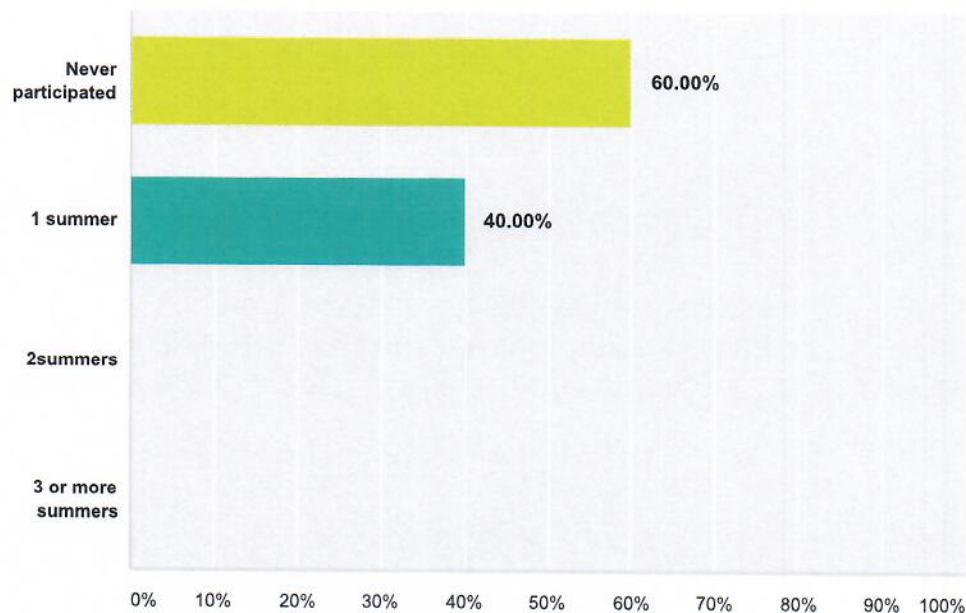
Answered: 5 Skipped: 0



#	Where did you work?	Date
1	Adelphi University	7/9/2016 11:18 PM
2	Larson lab at University of Michigan NCRC	7/8/2016 9:36 AM

Q4 How many times have you participated in SUMMERresearch (faculty lab, internship, etc.)?

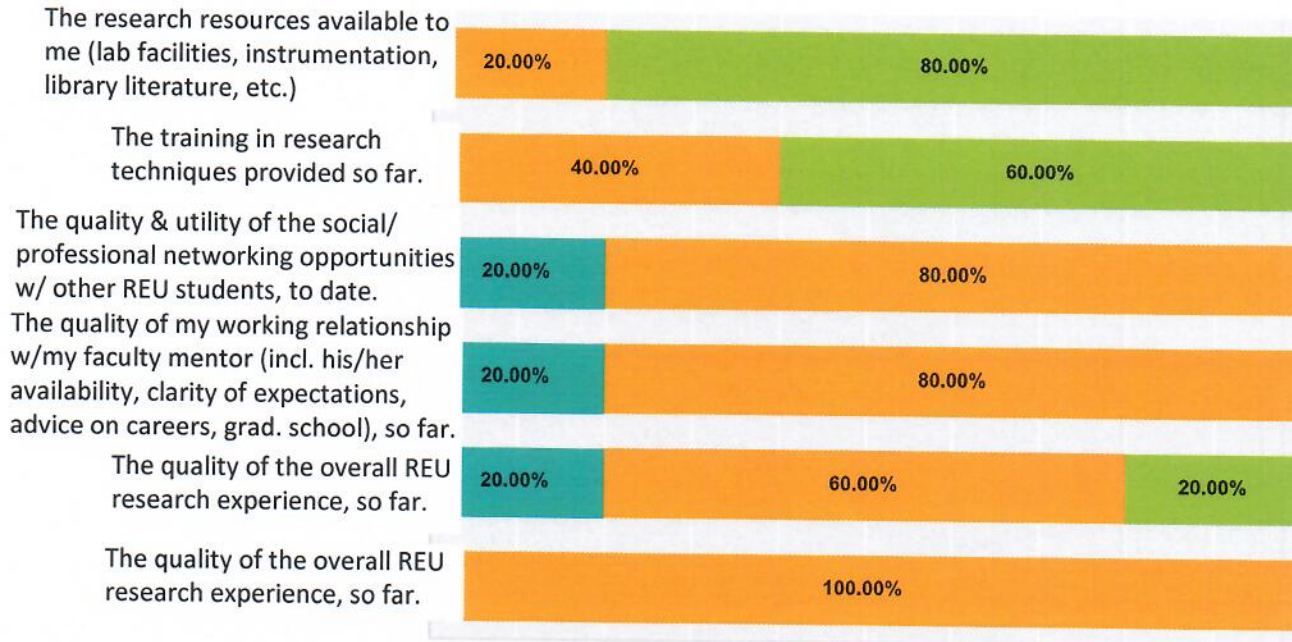
Answered: 5 Skipped: 0



#	Where did you work?	Date
1	Iowa State University SPIRE-EIT REU Program	7/8/2016 9:32 AM

Q5 Please rate the following program features, and your overall REU experience to date:

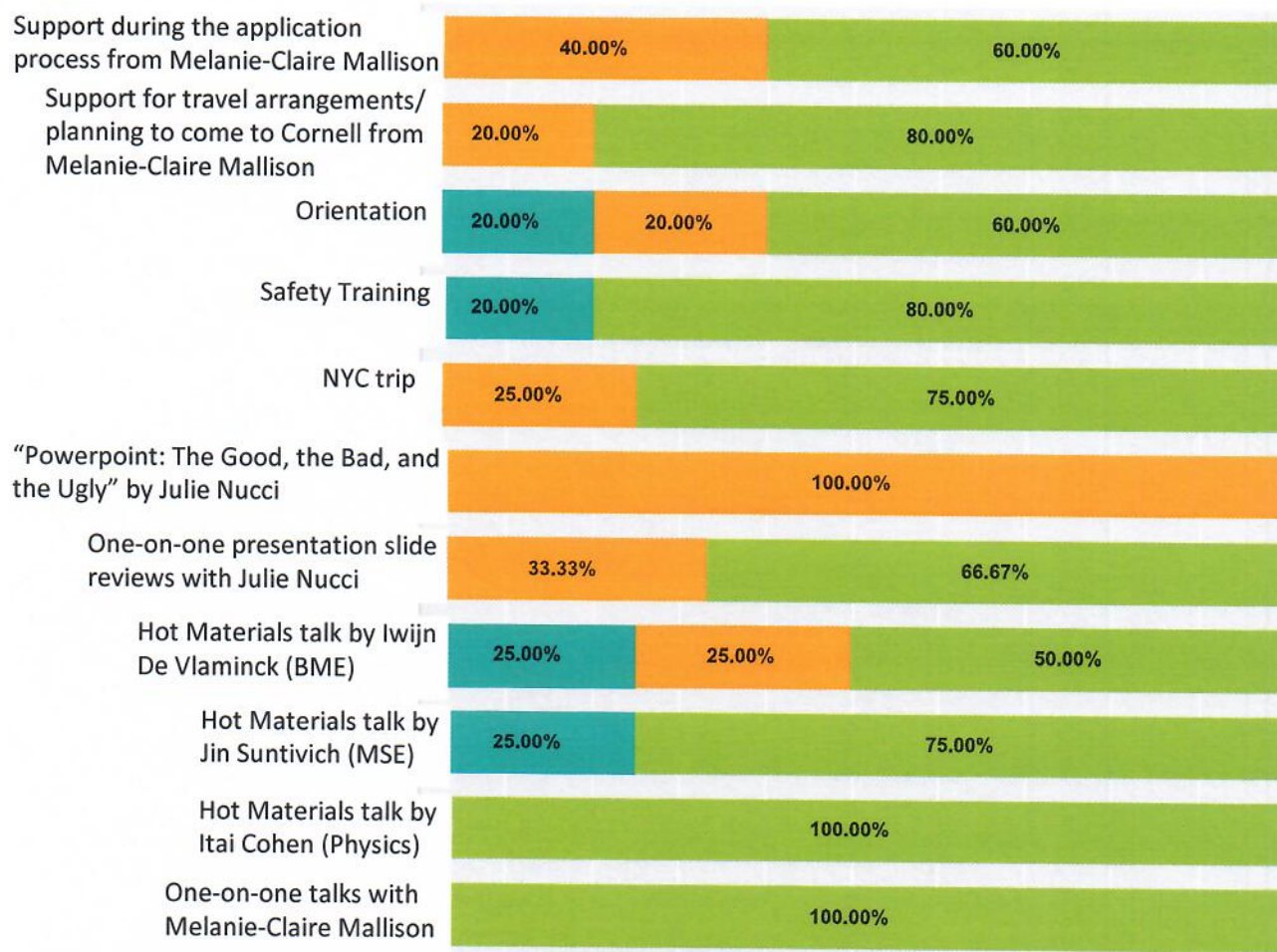
Answered: 5 Skipped: 0



■ Poor
 ■ Fair
 ■ Good
 ■ Excellent

Q6 Please rate the following specific program services, activities, and talks:

Answered: 5 Skipped: 0



Poor Fair Good Excellent

Q7 Please provide further explanation of your responses, particularly any “poor” or “fair” responses. Do you have any improvements to recommend? Or is there anything else you want to say?

Answered: 1 Skipped: 4

#	Responses	Date
1	I did not attend the hot materials talks by De Vlaminc or Suntivitch so I can't comment on those, so I just marked them as fair.	7/8/2016 9:38 AM



Cornell University

Cornell NanoScale Facility (CNF) REU - Mid-Program Survey 2016

1. Introduction

Please complete this survey about the CNF REU Program by midnight on Tuesday, July 12. The input you provide will help improve this REU program, and also help the National Science Foundation (NSF) determine which types of REUs it should continue to fund. Your responses will remain confidential. They will be summarized and analyzed by external grant evaluation staff in the Syracuse University School of Education, and no personally identifiable data will be reported to the faculty/administrators at Cornell University or the NSF. With that in mind, please be completely candid.

Another survey administered in the final week of the REU will focus more broadly on what you think you have gained from the experience -- its impact, if any, on your skills, interests, and plans for the future. Meanwhile, this mid-program survey is your opportunity to identify which features of the REU motivated you to apply, and to rate the quality of the resources available to you, as well as specific activities held to date.



Cornell University

Cornell NanoScale Facility (CNF) REU - Mid-Program Survey 2016

2. Reasons why you applied to this REU



Cornell University

Cornell NanoScale Facility (CNF) REU - Mid-Program Survey 2016

3. Research Background

3. How many times have you participated in ACADEMIC YEAR research (working in a faculty lab, college lab, capstone research course, etc.)?

- ☐ Never participated
- ☐ 1 semester
- ☐ 2 semesters
- ☐ 3 semesters
- ☐ 4 or more semesters

Where did you work?

4. How many times have you participated in SUMMER research (faculty lab, internship, etc.)?

- ☐ Never participated
- ☐ 1 summer
- ☐ 2 summers
- ☐ 3 or more summers

Where did you work?



Cornell University

Cornell NanoScale Facility (CNF) REU - Mid-Program Survey 2016

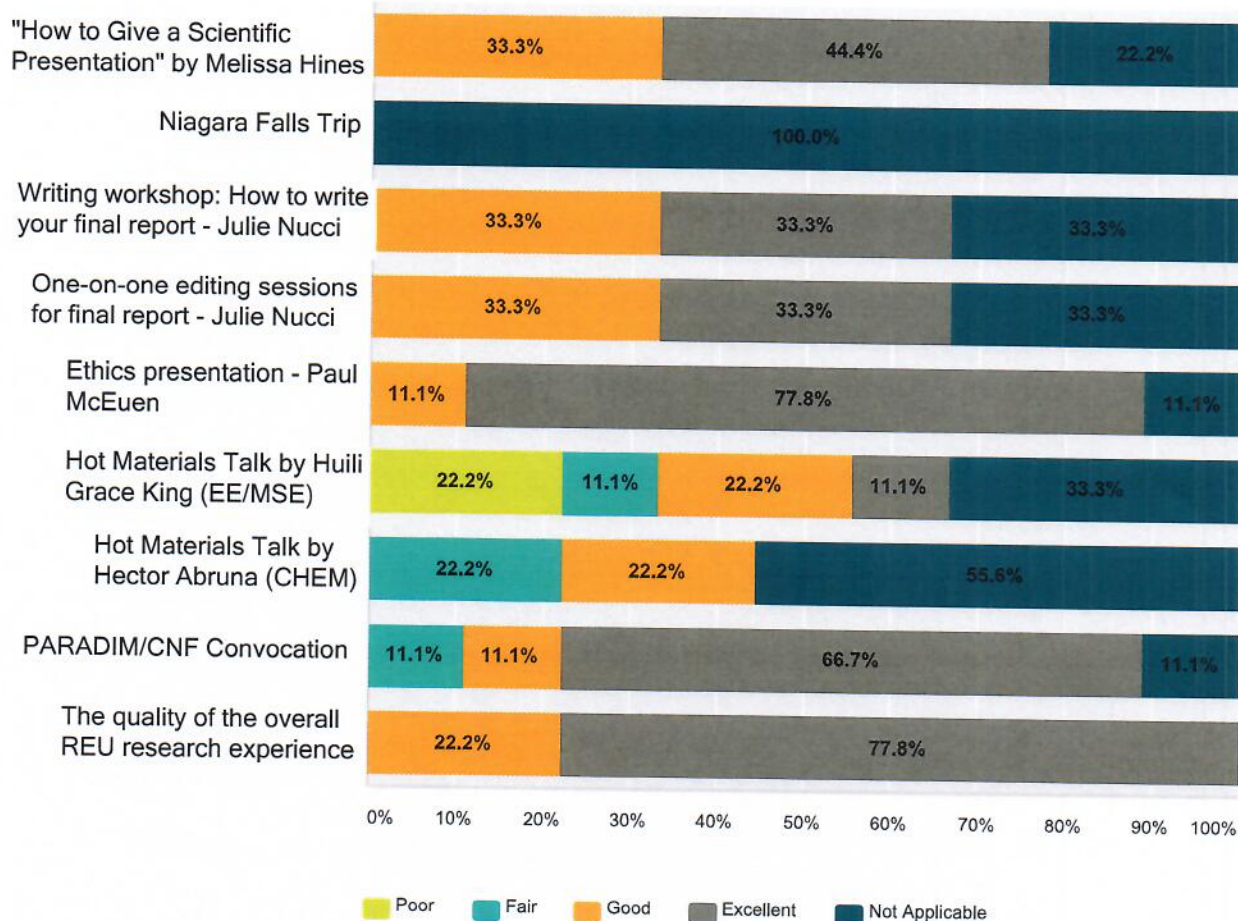
4. Program Quality

Thank you for completing the Mid-Program Survey! If you have any questions, please contact Anna Dahlstein, Evaluation Administrator, Office of Professional Research and Development, School of Education, Syracuse University: akdahlst@syr.edu.



Q1 Please rate the following lectures, training sessions, and activities, as well as your overall REU experience:

Answered: 9 Skipped: 0



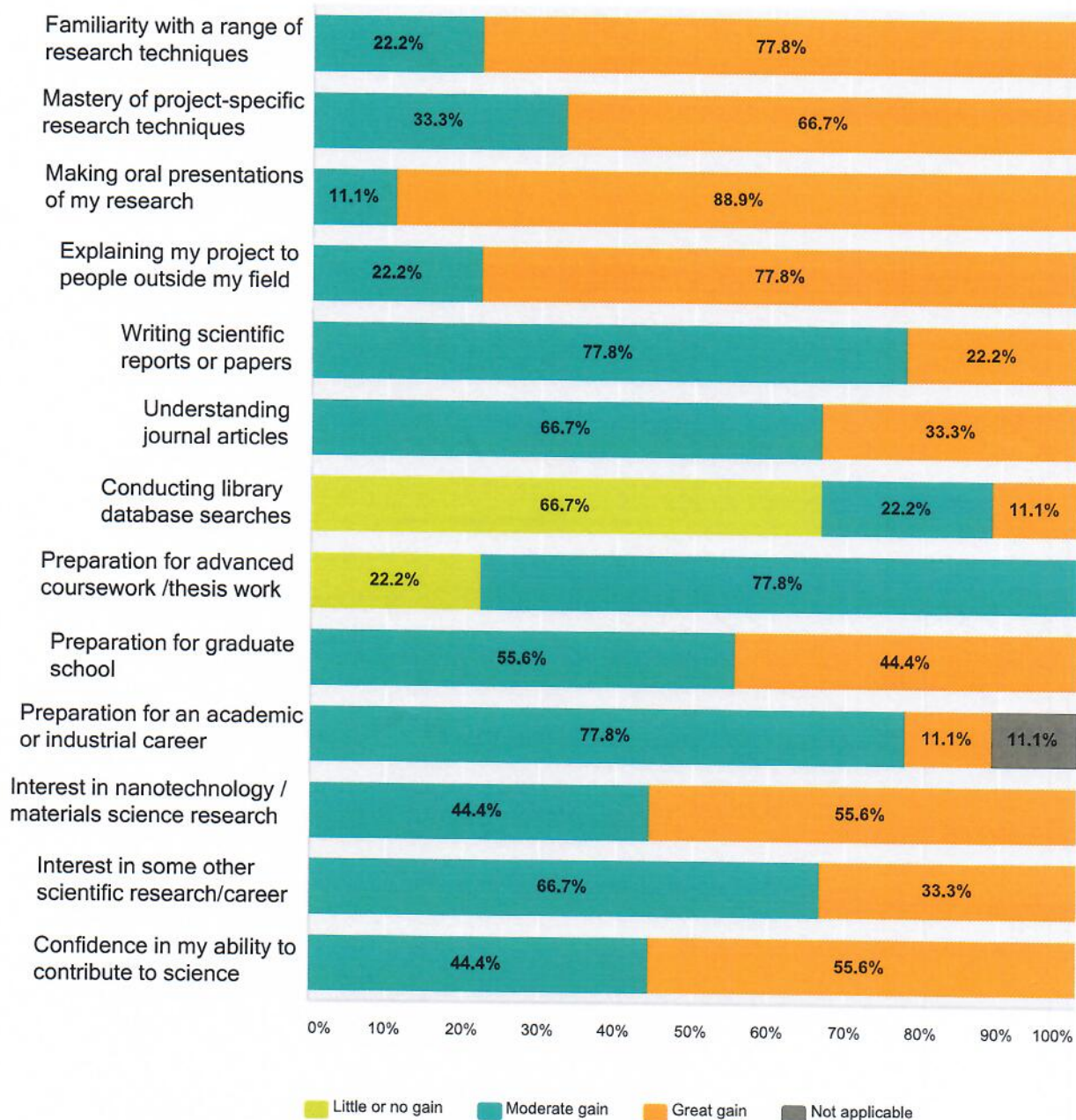
Q2 What were the best aspects of the REU program? What aspects are most in need of improvement? Please take some time to reflect and elaborate. (Note: There is no need to repeat any comments/suggestions you may already have made on the previous survey. Thanks again for offering those.)

Answered: 9 Skipped: 0

#	Responses	Date
1	The research was the best part. The presentations were probably a good idea, but they took up a lot of time and pulled us away from the work we were doing. Also the poster was completely unnecessary.	8/18/2016 5:56 PM
2	I could always find support whenever I needed it - from my mentor, other members of my lab group, other students, other REU participants, and CNF staff members. My project was a great balance between being left to struggle and figure out things myself while also still having some general, well-defined goal in mind, which I really liked. Communication between the PARADIM staff and myself sometimes wasn't the best.	8/13/2016 10:02 PM
3	I think the aspects in need of the most improvement are just choosing better mentors (maybe having some sort of screening process?), or mentors that work in the cleanroom more frequently. Also, some of the things that were remnants of the old NNIN reu and made sense for a program of that size seemed a bit unnecessary for this (ex: videotaping/live showing the convocation speeches).	8/13/2016 6:03 PM
4	The Hot Materials talks were great. Additionally, everyone that I encountered was friendly, helpful, and contributed to making the REU a memorable and worthwhile experience. The only suggestion I would offer is to make the list calendar and events more permanent so that the REUs can know about things much earlier.	8/12/2016 6:44 PM
5	The coordinators are there to offer their help, but there could be improvement as far as meeting a little bit earlier with coordinators when it comes time to give our final presentation	8/12/2016 5:56 PM
6	Best aspects: the clean room and easy access to get trained on a tool or use a machine Most need of improvement: socializing	8/11/2016 9:27 PM
7	Best: NYC Trip Julie's presentation advice was extremely helpful, both from her presentation to all of us and the 1-on-1 session. I learned a ton from that. All of the CNF staff were extremely welcoming and helpful to the REU students Needs improvement: Would be nice to get more guidance on the final report, similar to the help we received for the presentation	8/11/2016 9:14 PM
8	Having hands-on time in the clean room with a very helpful staff is undoubtedly the highlight of this REU program. That said, I think several people had mentors that were somewhat lackluster this time around and it would have improved the experience significantly to have mentors that were invested in the students' time here.	8/10/2016 2:31 PM
9	The best aspect of the REU program was how willing the staff and coordinators are to help the students. This was very helpful in many situations and made a big difference in my progress.	8/10/2016 2:31 PM

Q3 How much did you GAIN in the following areas as a result of this REU research experience?

Answered: 9 Skipped: 0



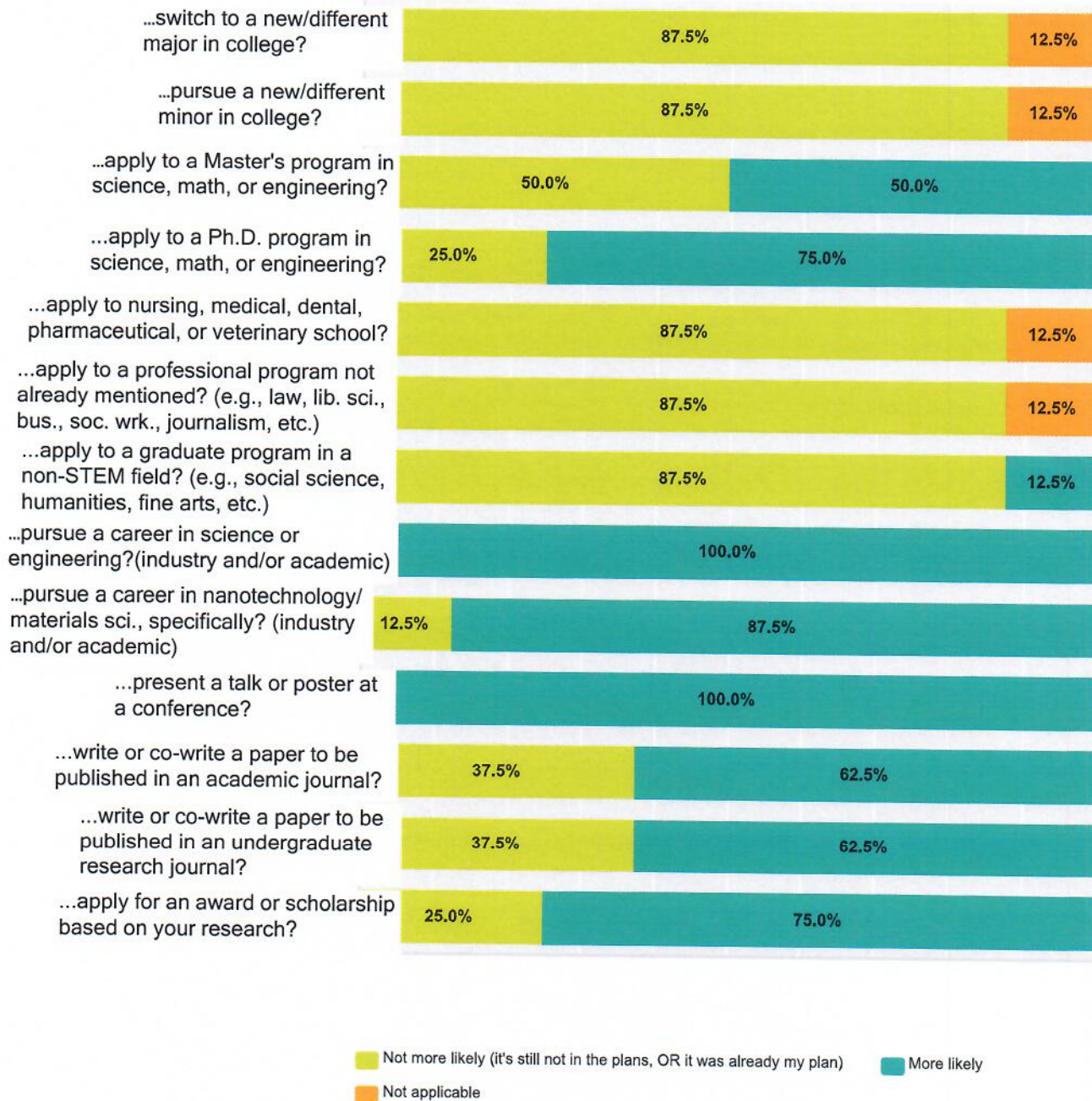
Q4 Please provide further explanation of your responses, particularly any “little or no gain” responses. Also, did you make any other gains that we didn’t mention?

Answered: 9 Skipped: 0

#	Responses	Date
1	Did not do any database/library research.	8/18/2016 5:57 PM
2	I didn't ever have to conduct library database searches.	8/13/2016 10:05 PM
3	I think this REU solidified my interest in doing research and pursuing graduate school. The things that were emphasized (the presentations, the paper, etc) were very useful, while others that weren't talked about so much (literature searches, etc) not so much.	8/13/2016 6:05 PM
4	Throughout this experience I have found that my confidence in my own abilities and my ability to act as a member of a much larger research group have grown significantly.	8/12/2016 6:47 PM
5	I made further gains in which I was able to connect more with my PI and other graduate students in the research group to get a better experience of what graduate school would be like as well as help planning out my future career path	8/12/2016 5:59 PM
6	no I did not make any other gains that you didn't mention	8/11/2016 9:29 PM
7	I didn't do anything with library database searches. While I did learn a ton of information relative to the entire project, as well as manufacturing techniques like photolithography and other cleanroom tools, this doesn't fit into any coursework for my major, so I marked the "Preparation for advanced coursework /thesis work" question as "Little or no gain" I feel like the categories I gained the most in are "Making oral presentations of my research" and "Confidence in my ability to contribute to science"	8/11/2016 9:18 PM
8	I don't feel that it was ever necessary for me to do library research, rather there were various online databases that were available to me in addition to dissertations and academic papers that were used often in my lab that were extremely helpful.	8/10/2016 2:34 PM
9	I don't feel that I gained any knowledge about advanced coursework/thesis work.	8/10/2016 2:34 PM

Q5 As a RESULT of this REU research experience, how likely are you to:

Answered: 8 Skipped: 1



#	Any comments? (For example, if none of the above apply to you, what are your plans for the future?)	Date
1	My plans overall have not significantly changed however this experience has helped me to decide which sub-field of Physics to pursue a Ph.D in..	8/12/2016 6:51 PM

PARADIM REU / Cornell NanoScale Facility (CNF) REU - End of Program Survey 2016

2	Although I was already considering graduate school, the experience this summer definitely increased my interest in that. I'd also be more likely to specifically seek out opportunities researching in areas involving fabrication at the nanoscale.	8/11/2016 9:23 PM
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Q6 If you indicated that you are likely to present, publish, or apply for an award/scholarship based on your research this summer, please tell us more:

Answered: 4 Skipped: 5

#	Responses	Date
1	I am currently one of the co-authors on a paper that my mentor is writing, and observing the writing process is beneficial and gives me an idea of having publications in graduate school	8/12/2016 6:05 PM
2	My school has a poster session that I will definitely be participating in, and if I have the opportunity to present about the research that I did this summer at some point, I would definitely take that chance as well. Lynn's talk about NSF fellowships definitely makes me more likely to apply for scholarships and awards.	8/11/2016 9:23 PM
3	I'm not sure that I am any more likely to actually write a paper, but I am proud of the work I did this summer and would be happy to present it at conferences at my home institution, etc.	8/10/2016 2:39 PM
4	I believe that my work this summer made significant contributions to editing the processes that were put forward for me, and with that, I would like to be a part of presenting/publishing those works.	8/10/2016 2:38 PM

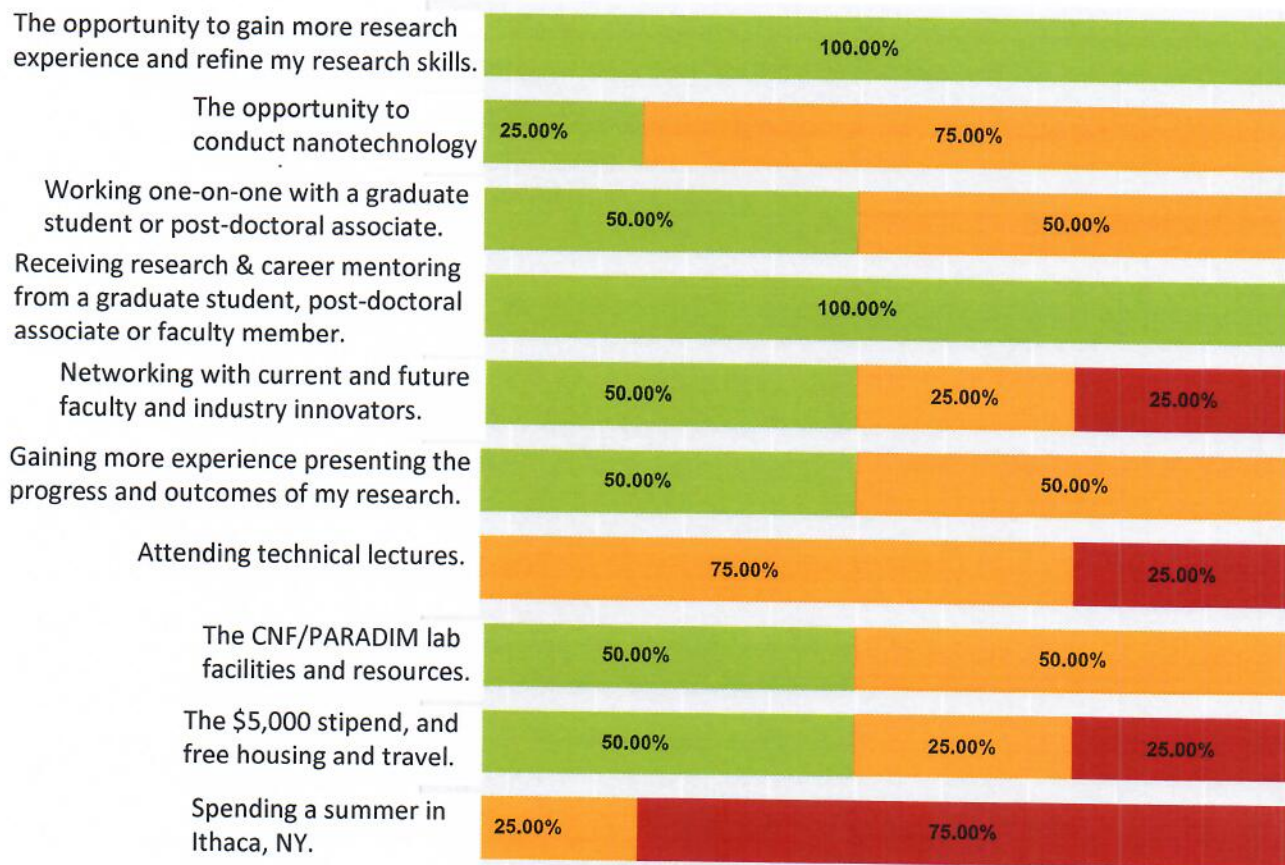
Q7 In your own words, how did your REU experience influence your thinking about future career and graduate school plans (or not)? Please explain. Finally, please share any additional thoughts you might have.

Answered: 8 Skipped: 1

#	Responses	Date
1	I learned a lot about what experimental physics research actually looks like.	8/13/2016 10:08 PM
2	This REU experience helped me be sure that I wanted to pursue graduate school, because it made me sure that I enjoy doing research. It also helped me gain confidence in my scientific research skills. Lastly, it helped me have a better understanding of which field of research I want to pursue in graduate school.	8/13/2016 6:09 PM
3	My plans overall have not significantly changed however this experience has helped me to decide which sub-field of Physics to pursue a Ph.D in..	8/12/2016 6:51 PM
4	This experience is helpful because it influenced me to get a Phd in applied physics rather than stopping at a masters degree	8/12/2016 6:05 PM
5	REU experience allowed me to see what graduate school life is like and thus made an influence on the likelihood I will be applying to graduate schools	8/11/2016 9:32 PM
6	It made me consider grad school more heavily and also more interested in scientific outreach programs, as I think that things like this REU program and some other stuff I saw going on at the CNF are great for the community in that they get more people interested and engaged in these lesser known fields of science.	8/11/2016 9:23 PM
7	I certainly think that this glimpse into nanotechnology sparked an interest in a field I had no idea was interesting to me to begin with. I deeply enjoyed the hands-on fabrication experience and my time working with a very knowledgeable staff. However, and I mentioned this earlier, I was not wildly impressed with the mentors provided during this REU program. There is no doubt in my mind that my mentor is extremely intelligent and knowledgeable in the field I did research in this summer, but I am not sure that they were invested in helping me specifically. I am not sure if this is an expectation of mentors as this is my first REU, but it seems to be that during the ten weeks that a student is here participating in research, their mentor should be available to help out at reasonable hours--not necessarily in the dead of the night, but certainly at 10 AM while a student is working in the clean room. That said, there were moments when I felt as if my mentor was being extremely helpful and wanted me to learn, but it was typically on their own schedule and that schedule often conflicted with mine.	8/10/2016 2:39 PM
8	After this REU, I know for a fact that I do not want to apply for a PhD. right away. Many of the graduate students I talked to seemed to have very little time for themselves, and having a life is one of my main priorities right now, next to my education. And in order to stay sane, I plan on just doing a research track for my Masters.	8/10/2016 2:38 PM

Q1 How important were the following features of the REU in motivating you to apply?

Answered: 4 Skipped: 0



■ Very important
 ■ Somewhat important
 ■ Not important
■ N/A or Didn't know about this in advance.

#	Comments:	Date
	There are no responses.	

PARADIM REU - Mid-Program Survey 2016

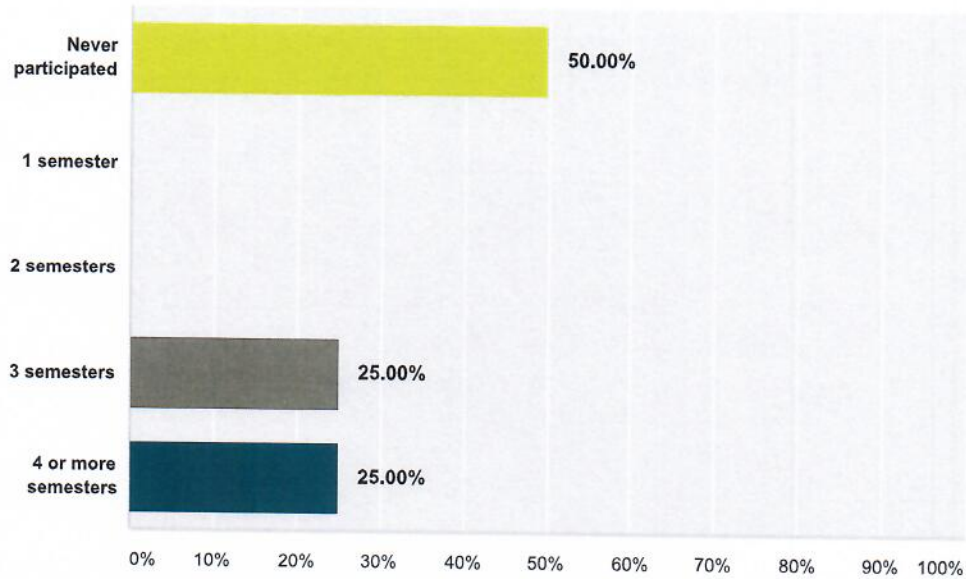
Q2 How did you find out about this REU? (If from a specific student, professor, or staff member at your home institution, please name him or her.)

Answered: 4 Skipped: 0

#	Responses	Date
1	Heard about the CNF REU Through NSF REU website, and then through Ms. Melanie-Claire Maillison regarding the PARADIM REU	7/11/2016 10:25 AM
2	Looked up nanotechnology REUs online	7/8/2016 11:02 AM
3	NSF website, for CNF not PARADIM	7/8/2016 9:58 AM
4	Google	7/8/2016 9:18 AM

Q3 How many times have you participated in ACADEMIC YEAR research (working in a faculty lab, college lab, capstone research course, etc.)?

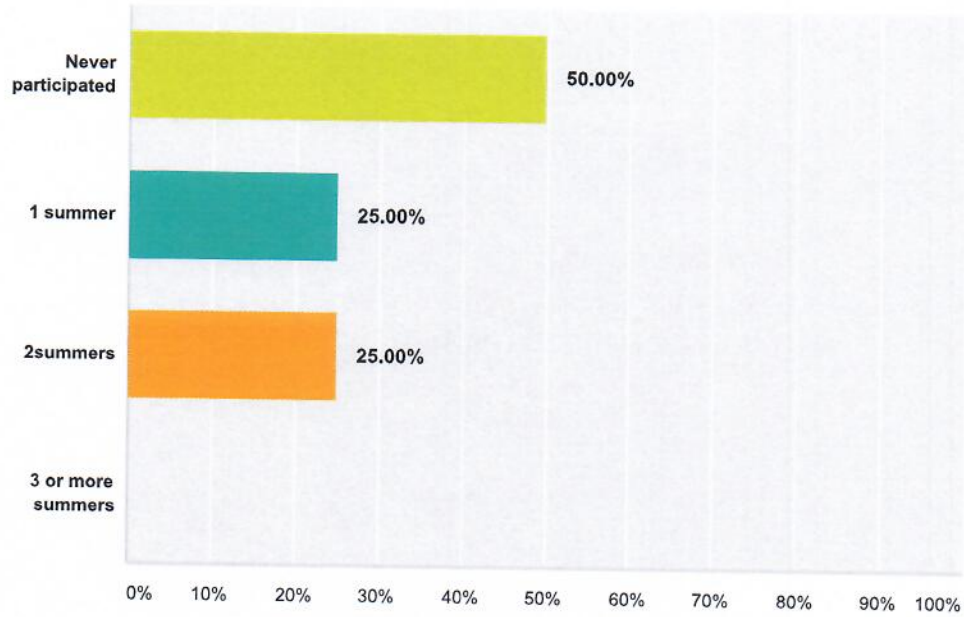
Answered: 4 Skipped: 0



#	Where did you work?	Date
1	Texas Tech University Physics and Mechanical Engineering Department	7/8/2016 11:04 AM
2	Carleton College	7/8/2016 9:59 AM

Q4 How many times have you participated in SUMMERresearch (faculty lab, internship, etc.)?

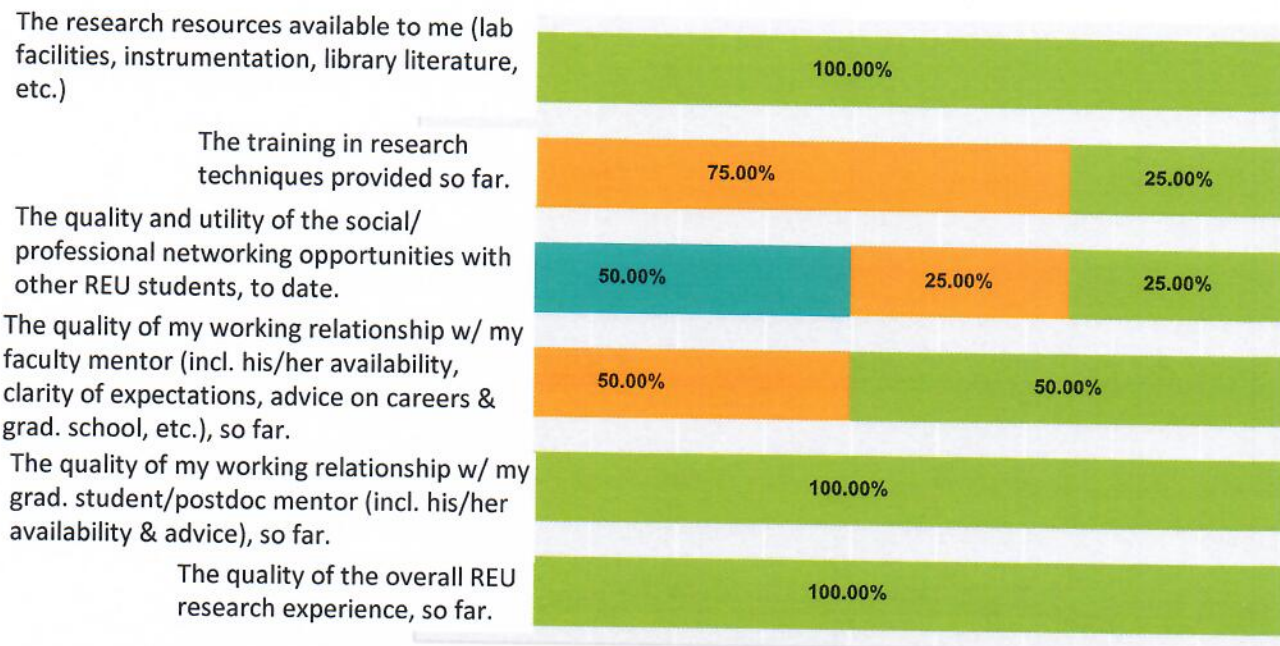
Answered: 4 Skipped: 0



#	Where did you work?	Date
1	Texas Tech University Mechanical Engineering Department	7/8/2016 11:04 AM
2	University of Michigan	7/8/2016 9:19 AM

Q5 Please rate the following program features, and your overall REU experience to date:

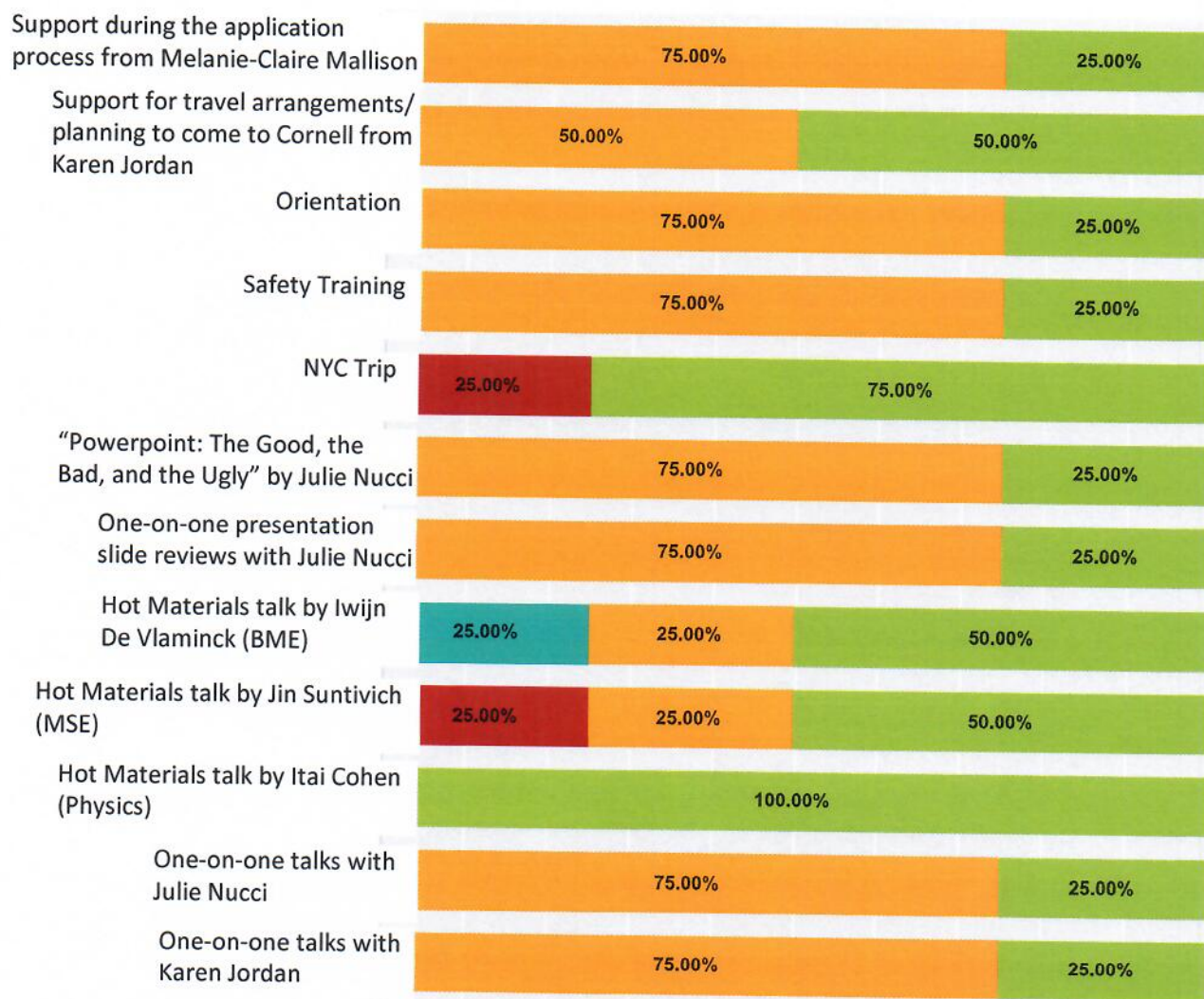
Answered: 4 Skipped: 0



■ Poor
 ■ Fair
 ■ Good
 ■ Excellent

Q6 Please rate the following specific program services, activities, and talks:

Answered: 4 Skipped: 0



Poor Fair Good Excellent

Q7 Please provide further explanation of your responses, particularly any “poor” or “fair” responses. Do you have any improvements to recommend? Or is there anything else you want to say?

Answered: 1 Skipped: 3

#	Responses	Date
1	I chose Poor for the NYC trip solely because I did not go on the trip.	7/11/2016 10:28 AM



Cornell University

PARADIM REU - Mid-Program Survey 2016

1. Introduction

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Cornell University

PARADIM REU - Mid-Program Survey 2016

2. Reasons why you applied to this REU



Cornell University

PARADIM REU - Mid-Program Survey 2016

3. Research Background

3. How many times have you participated in ACADEMIC YEAR research (working in a faculty lab, college lab, capstone research course, etc.)?

- ☐ Never participated
- ☐ 1 semester
- ☐ 2 semesters
- ☐ 3 semesters
- ☐ 4 or more semesters

Where did you work?

4. How many times have you participated in SUMMER research (faculty lab, internship, etc.)?

- ☐ Never participated
- ☐ 1 summer
- ☐ 2 summers
- ☐ 3 or more summers

Where did you work?



Cornell University

PARADIM REU - Mid-Program Survey 2016

4. Program Quality

Thank you for completing the Mid-Program Survey! If you have any questions, please contact Anna Dahlstein, Evaluation Administrator, Office of Professional Research and Development, School of Education, Syracuse University: akdahlst@syr.edu.