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Army Educational Outreach Program

College Qualified Leaders (CQL)



2017 Annual Program Evaluation Report

PART 3: Appendices

February 2018



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3 | Appendix A – FY17 CQL Evaluation Plan

Questionnaires

As per the approved FY17 AEOP APP, the external evaluation of CQL includes two post-program questionnaires:

1. AEOP Youth Questionnaire to be completed by students (apprentices); and
2. AEOP Mentor Questionnaire to be completed by Army S&Es and/or other laboratory personnel that supervise, guide, or support apprentices during their CQL research activities.

Questionnaires are the primary method of data collection for AEOP evaluation and collect information about participants' experiences with and perceptions of program resources, structures, and activities; potential benefits to participants; and strengths and areas of improvement for programs.

The questionnaires are aligned with:

- Army's strategic plan and AEOP Priorities 1 (STEM Literate Citizenry), 2 (STEM Savvy Educators) and 3 (Sustainable Infrastructure);
- Federal guidance for evaluation of Federal STEM investments (e.g., inclusive of implementation and outcomes evaluation, and outcomes of STEM-specific competencies, transferrable competencies, attitudes about/identifying with STEM, future engagement in STEM-related activities, and educational/career pathways);
- Best practices and published assessment tools in STEM education, STEM informal/outreach, and the evaluation/ research communities;
- AEOP's vision to improve the quality of the data collected, focusing on changes in intended student outcomes and contributions of AEOPs like CQL effecting those changes.

The use of common questionnaires and sets of items that are appropriate across programs will allow for comparisons across AEOP programs and, if administered in successive years, longitudinal studies of students as they advance through pipelines within the AEOP. Because the questionnaires incorporate batteries of items from existing tools that have been validated in published research, external comparisons may also be possible.

All AEOPs are expected to administer the Youth and Mentor questionnaires provided for their program. Both the Youth and Mentor questionnaires have two versions, an "advanced" version (JSHS and apprenticeship programs) or a "basic" version (all other programs). The same basic set of items is used in both, with slightly modified items and/or additional items used in the advanced version. Additionally, the surveys are customized to gather information specific structures, resources, and activities of programs.

Focus Group Interviews/Site Visits

As per the approved FY17 AEOP APP, the external evaluation of CQL includes site visits/onsite focus groups.

Site visits provide the evaluation team with first-hand opportunities to speak with students and their mentors. We are able to observe the AEOPs in action. The information gleaned from these visits assists us in

illustrating and more deeply understanding the findings of other data collected (from questionnaires). In total, the evaluation findings are used to highlight program successes and inform program changes so that the AEOPs can be even better in the future.

Evaluation Activities during CQL Site Visits

- One or two 45-minute focus group with 6-8 apprentice participants;
- One 45-minute focus group with 6-8 mentors;
- 30-60 minutes to observe the program (specifically, to see students engaged in program activities, preferably with their mentors); and
- 10-15 minute transitions between each evaluation activity for moving groups in and out and providing evaluators with time to organize paperwork and take nature breaks.

Per the FY16 Army Education Outreach Program (AEOP) Annual Program Plan (APP), Purdue University will conduct an evaluation study of URAP that includes telephone interviews with URAP mentors and apprentices.

Data Analyses

Quantitative and qualitative data were compiled and analyzed after all data collection concluded. Evaluators summarized quantitative data with descriptive statistics such as numbers of respondents, frequencies and proportions of responses, average response when responses categories are assigned to a 6-point scale (e.g., 1 = “Strongly Disagree” to 6 = “Strongly Agree”), and standard deviations. Emergent coding was used for the qualitative data to identify the most common themes in responses.

Evaluators conducted inferential statistics to study any differences among participant groups (e.g., by gender or race/ethnicity) that could indicate inequities in the SEAP program. Statistical significance indicates whether a result is unlikely to be due to chance alone. Statistical significance was determined with t-tests, chi-square tests, and various non-parametric tests as appropriate, with significance defined at $p < 0.05$. Because statistical significance is sensitive to the number of respondents, it is more difficult to detect significant changes with small numbers of respondents. Practical significance, also known as effect size, indicates the magnitude of an effect, and is typically reported when differences are statistically significant. The formula for effect sizes depends on the type of statistical test used, and is specified, along with generally accepted rules of thumb for interpretation, in the body of the report.

4 | Appendix B – Apprentice Focus Group Protocol

Facilitator: My name is [evaluator] and I'd like to thank you for meeting with us today! We are really excited to learn more about your experiences in CQL. In case you have not been in an evaluation interview before, I'd like to give you some ground rules that I like to use in interviews. They seem to help the interview move forward and make everyone a little more comfortable:

1. What is shared in the interview stays in the room.
2. It is important for us to hear the positive and negative sides of all issues.
3. Only one person speaks at a time.
4. This is voluntary - you may choose not to answer any question, or stop participating at any time.
5. We will be audio recording the session for note-taking purposes only. Audio will be destroyed.
6. Do you have any questions before we begin?

Key Questions

1. Why did you choose to participate in CQL this year?

- How did you hear about CQL?
- Who did you hear about it from?

The Army Educational Outreach Program (AEOP) is a primary sponsor of CQL. We do these interviews to help the AEOP create reports and defend funding for the program. They need specific information to defend the money for the program.

2. We need to understand more about how CQL is teaching students about STEM career opportunities in the Army and Department of Defense.

- During CQL, did you learn anything about STEM careers in the Army or Department of Defense?
- How did you learn about them (e.g., field trips, invited speakers, other activities, etc.)?
- Are you interested in pursuing a career in STEM with the Army or Department of Defense?

3. The AEOP sponsors a wide range of national STEM outreach programs other than CQL. You are definitely eligible to participate in some of these programs and we need to know if you learned about them during CQL

- During CQL, did you learn about any of the outreach programs that the AEOP sponsors? (SMART, NDSEG, URAP, etc.)
- How did you learn about them?
- Do you think that you will try to participate in any of those programs?

4. Tell us about your experiences in CQL this year.

- What, specifically do you think you got out of participating in CQL?
- How do your experiences in CQL compare to your school experiences in STEM?
- What would you say was the biggest benefit you gained from participating in CQL?

5. Do you have any suggestions for improving CQL for other students in the future?

6. Last Chance - Have we missed anything? Tell us anything you want us to know that we didn't ask about.

5 | Appendix C – Mentor Focus Group Protocol

Facilitator: My name is [evaluator] and I'd like to thank you for meeting with us today! We are really excited to learn more about your experiences in CQL. In case you haven't been in a focus group before, I'd like to give you some ground rules that I like to use in focus groups. They seem to help the group move forward and make everyone a little more comfortable:

1. What is shared in the room stays in the room.
2. Only one person speaks at a time.
3. If you disagree please do so respectfully.
4. It is important for us to hear the positive and negative sides of all issues.
5. We will be audio recording the session for note-taking purposes only. Audio will be destroyed.
6. Do you have any questions about participating in the focus group?

1. When you think about CQL, what kind of value does this program add?

- How do you think students benefit from participating in CQL?
- Can you think of a particular student or group of students that benefit the most from CQL?
- How have you benefited from participating in CQL?

One of the primary sponsors of the CQL program is the Army Educational Outreach Program (AEOP). The AEOP needs specific information to create reports and defend funding for its outreach programs.

2. We need to understand more about how CQL is helping students know more about STEM career opportunities in the Department of Defense, especially civilian positions.

- Have you seen any efforts by CQL to educate participants about the Army, DoD, or careers in the DoD?
- What strategies seem to be the most effective for CQL students?
- Do you have any suggestions for helping CQL teach students about careers in the DoD?

The AEOP sponsors a wide range of national STEM outreach programs that these students qualify for.

3. The AEOP needs to know if CQL is teaching students about the other STEM outreach programs that it sponsors.

- First, are you aware of the other programs offered by the AEOP? (e.g., REAP, CQL, SMART, etc)
- Have you seen any efforts at CQL to educate adults or students about the other AEOP programs?
- What seems to work the best? The worst?
- Any suggestions for helping the AEOP educate these students about the other programs?

4. The AEOP is trying to make sure that its programs become more effective at reaching adult and youth participants from underserved and underrepresented groups (racial/ethnic groups, low SES, etc.).

- Have you seen any efforts by CQL to help engage underserved or underrepresented groups of adults and youth?
- What strategies seem to work the best? The worst?
- Any suggestions for helping CQL reach new populations of adult and youth participants?

5. What suggestions do you have for improving CQL?

6. Last Chance - Have we missed anything? Tell us anything you want us to know that we didn't ask about.

6 | Appendix D – Apprentice Questionnaire

Contact Information		
Please verify the following information:		
*First Name:	<input type="text"/>	
*Last Name:	<input type="text"/>	
*Email Address:	<input type="text"/>	
<i>All fields with an asterisk (*) are required.</i>		

*1. Do you agree to participate in this survey? (required)(*Required)		
<i>Select one.</i>		
<input type="radio"/>	Yes, I agree to participate in this survey	(Go to question number 2.)
<input type="radio"/>	No, I do not wish to participate in this survey	Go to end of chapter

*4. What is your current grade level in school? (select one)(*Required)		
<i>Select one.</i>		
<input type="radio"/>	College freshman	
<input type="radio"/>	College sophomore	
<input type="radio"/>	College junior	
<input type="radio"/>	College senior	
<input type="radio"/>	Choose not to report	
<input type="radio"/>	Other, (specify):: <input type="text"/>	

*6. How often did you do each of the following in STEM classes at school over the past year?(*Required)

Select one per row.

	<i>Not at all</i>	<i>At least once</i>	<i>Monthly</i>	<i>Weekly</i>	<i>Every day</i>
*Work with a STEM researcher or company on a real world STEM research project	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
*Work with a STEM researcher on a research project of your own choosing	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
*Design my own research or investigation based on my own question(s)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
*Present my STEM reearch to a panel of judges from industry or the military	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
*Interact with STEM researchers	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
*Use laboratory procedures and tools	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
*Identify questions or problems to investigate	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
*Design and carry out an investigation	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
*Analyze data or information and draw conclusions	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
*Work collaboratively as part of a team	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
*Build or make a computer model	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
*Solve real world problems	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

*7. How often did you do each of the following in your Apprenticeship program this year?(*Required)

Select one per row.

	<i>Not at all</i>	<i>At least once</i>	<i>Monthly</i>	<i>Weekly</i>	<i>Every day</i>
*Work with a STEM researcher or company on a real world STEM research project	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
*Work with a STEM researcher on a research project of your own choosing	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
*Design my own research or investigation based on my own question(s)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
*Present my STEM research to a panel of judges from industry or the military	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
*Interact with STEM researchers	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
*Use laboratory procedures and tools	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
*Identify questions or problems to investigate	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
*Design and carry out an investigation	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
*Analyze data or information and draw conclusions	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
*Work collaboratively as part of a team	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
*Build or make a computer model	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
*Solve real world problems	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

*8. How much did each of the following resources help you learn about Army Educational Outreach Programs (AEOPs)?(*Required)

Select one per row.

	<i>Did not experience</i>	<i>Not at all</i>	<i>A little</i>	<i>Somewhat</i>	<i>Very much</i>
*Army Educational Outreach Program (AEOP) website	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
*AEOP on Facebook, Twitter or other social media	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
*AEOP brochure	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
*My Apprenticeship Mentor	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
*Presentations or information shared through the Apprenticeship Program	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
*Participation in the Apprenticeship Program	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

*9. How much did each of the following resources help you learn about STEM careers in the Army or Department of Defense (DoD)?(*Required)

Select one per row.

	<i>Did not experience</i>	<i>Not at all</i>	<i>A little</i>	<i>Somewhat</i>	<i>Very much</i>
*Army Educational Outreach Program (AEOP) website	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
*AEOP on Facebook, Twitter or other social media	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
*Army Research Office (ARO) website	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
*AEOP brochure	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
*My Apprenticeship Program mentor	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
*Presentations or information shared in the Apprenticeship Program	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
*Participation in the Apprenticeship Program	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

*10. How SATISFIED were you with the following Apprenticeship Program features?(*Required)

Select one per row.

	<i>Did not experience</i>	<i>Not at all</i>	<i>A little</i>	<i>Somewhat</i>	<i>Very much</i>
*Applying or registering for the program	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
*Other administrative tasks (e.g. security clearances, issuing CAC cards)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
*Communicating with your host site organizers	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
*The physical location(s) of Apprenticeship Program activities	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
*The variety of STEM topics available to you in the Apprenticeship Program	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
*Teaching or mentoring provided during Apprenticeship Program activities	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
*Amount of stipend (payment)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Timeliness of receiving stipend (payment)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
*Research abstract preparation requirements	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

*11. How much input did you have in selecting your Apprenticeship Program research project?(*Required)

Select one.

- | | |
|-----------------------|--|
| <input type="radio"/> | I did not have a project |
| <input type="radio"/> | I was assigned a project by my mentor |
| <input type="radio"/> | I worked with my mentor to design a project |
| <input type="radio"/> | I had a choice among various projects suggested by my mentor |
| <input type="radio"/> | I worked with my mentor and members of a research team to design a project |
| <input type="radio"/> | I designed the entire project on my own |

*12. How often was your mentor available to you during the Apprenticeship Program?(*Required)

Select one.

- | | |
|-----------------------|---|
| <input type="radio"/> | I did not have a mentor |
| <input type="radio"/> | The mentor was never available |
| <input type="radio"/> | The mentor was available less than half of the time |
| <input type="radio"/> | The mentor was available about half of the time of my project |
| <input type="radio"/> | The mentor was available more than half of the time |
| <input type="radio"/> | The mentor was always available |

*13. To what extent did you work as part of a group or team during the Apprenticeship Program?(*Required)

Select one.

- | | |
|-----------------------|--|
| <input type="radio"/> | I worked alone (or alone with my research mentor) |
| <input type="radio"/> | I worked with others in a shared laboratory or other space, but we worked on different projects |
| <input type="radio"/> | I worked alone on my project and I met with others regularly for general reporting or discussion |
| <input type="radio"/> | I worked alone on a project that was closely connected with projects of others in my group |
| <input type="radio"/> | I worked with a group who all worked on the same project |

*14. How SATISFIED were you with each of the following: (*Required)

Select one per row.

	<i>Did not experience</i>	<i>Not at all</i>	<i>A little</i>	<i>Somewhat</i>	<i>Very much</i>
*My working relationship with my mentor	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
*My working relationship with the group or team	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
*The amount of time I spent doing meaningful research	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
*The amount of time I spent with my research mentor	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
*The research experience overall	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

*15. The list below includes effective teaching and mentoring strategies. From the list, please indicate which strategies that your mentor(s) used when working with you in the Apprenticeship Program: (*Required)

Select one per row.

	<i>Yes - my mentor used this strategy with me</i>	<i>No - my mentor did not use this strategy with me</i>
*Helped me become aware of STEM in my everyday life	<input type="radio"/>	<input type="radio"/>
*Helped me understand how I can use STEM to improve my community	<input type="radio"/>	<input type="radio"/>
*Used a variety of strategies to help me learn	<input type="radio"/>	<input type="radio"/>
*Gave me extra support when I needed it	<input type="radio"/>	<input type="radio"/>
*Encouraged me to share ideas with others who have different backgrounds or viewpoints than I do	<input type="radio"/>	<input type="radio"/>
*Allowed me to work on a team project or activity	<input type="radio"/>	<input type="radio"/>
*Helped me learn or practice a variety of STEM skills	<input type="radio"/>	<input type="radio"/>
*Gave me feedback to help me improve in STEM	<input type="radio"/>	<input type="radio"/>
*Talked to me about the education I need for a STEM career	<input type="radio"/>	<input type="radio"/>
*Recommended Army Educational Outreach Programs that match my interests	<input type="radio"/>	<input type="radio"/>
*Discussed STEM careers with the DoD or government	<input type="radio"/>	<input type="radio"/>

*16. Which of the following statements apply to your research experience in the Apprenticeship Program? (Choose ALL that apply)(*Required)

Select all that apply.

<input type="checkbox"/>	I presented a talk or poster to other students or faculty
<input type="checkbox"/>	I presented a talk or poster at a professional symposium or conference
<input type="checkbox"/>	I attended a symposium or conference
<input type="checkbox"/>	I wrote or co-wrote a paper that was/will be published in a research journal
<input type="checkbox"/>	I wrote or co-wrote a technical paper or patent
<input type="checkbox"/>	I will present a talk or poster to other students or faculty
<input type="checkbox"/>	I will present a talk or poster at a professional symposium or conference
<input type="checkbox"/>	I will attend a symposium or conference
<input type="checkbox"/>	I will write or co-write a paper that was/will be published in a research journal
<input type="checkbox"/>	I will write or co-write a technical paper or patent
<input type="checkbox"/>	I won an award or scholarship based on my research

*17. As a result of your apprenticeship experience, how much did you GAIN in the following areas?(*Required)

Select one per row.

	No gain	A little gain	Some gain	Large gain
*In depth knowledge of a STEM topic(s)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
*Knowledge of research conducted in a STEM topic or field	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
*Knowledge of research processes, ethics, and rules for conduct in STEM	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
*Knowledge of how scientists and engineers work on real problems in STEM	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
*Knowledge of what everyday research work is like in STEM	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

*18. Which category best describes the focus of your apprenticeship activities?(*Required)

Select one.

<input type="radio"/>	Science
<input type="radio"/>	Technology
<input type="radio"/>	Engineering
<input type="radio"/>	Mathematics

*19. As a result of your apprenticeship experience, how much did you GAIN in your ability to do each of the following?(*Required)

Select one per row.

If answered, go to question number 21.

	No gain	A little gain	Some gain	Large gain
*Asking a question that can be answered with one or more scientific experiments	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
*Using knowledge and creativity to suggest a testable explanation (hypothesis) for an observation	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
*Considering different interpretations of data when deciding how the data answer a question	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
*Supporting an explanation for an observation with data from experiments	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
*Supporting an explanation with relevant scientific, mathematical, and/or engineering knowledge	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
*Identifying the strengths and limitations of explanations in terms of how well they describe or predict observations	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
*Defending an argument that conveys how an explanation best describes an observation	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
*Identifying the strengths and limitations of data, interpretations, or arguments presented in technical or scientific texts	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
*Integrating information from technical or scientific texts and other media to support your explanation of an observation	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
*Communicating about your experiments and explanations in different ways (through talking, writing, graphics, or mathematics)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

*20. As a result of your apprenticeship experience, how much did you GAIN in your ability to do each of the following?(*Required)

Select one per row.

	<i>No gain</i>	<i>A little gain</i>	<i>Some gain</i>	<i>Large gain</i>
*Defining a problem that can be solved by developing a new or improved object, process, or system	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
*Using knowledge and creativity to propose a testable solution for a problem	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
*Making a model of an object or system to show its parts and how they work	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
*Designing procedures for an experiment that are appropriate for the question to be answered	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
*Identifying the limitations of the methods and tools used for data collection	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
*Carrying out procedures for an experiment and recording data accurately	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
*Using computer models of an object or system to investigate cause and effect relationships	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
*Considering different interpretations of the data when deciding if a solution works as intended	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
*Organizing data in charts or graphs to find patterns and relationships	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
*Supporting a solution for a problem with data from experiments	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
*Supporting a solution with relevant scientific, mathematical, and/or engineering knowledge	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
*Identifying the strengths and limitations of solutions in terms of how well they meet design criteria	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
*Defend an argument that conveys how a solution best meets design criteria	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
*Integrating information from technical or scientific texts and other media to support your solution to a problem	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

*Communicating information about your design experiments and solutions in different ways (through talking, writing, graphics, or math equations)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
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*21. As a result of your apprenticeship experience, how much did you GAIN in each of the skills/abilities listed below?(*Required)

Select one per row.

	<i>No gain</i>	<i>A little gain</i>	<i>Some gain</i>	<i>Large gain</i>
*Learning to work independently	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
*Setting goals and reflecting on performance	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
*Sticking with a task until it is finished	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
*Making changes when things do not go as planned	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
*Working well with people from all backgrounds	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
*Including others' perspectives when making decisions	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
*Communicating effectively with others	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
*Viewing failure as an opportunity to learn	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

*22. As a result of your apprenticeship experience, how much did you GAIN in the following areas?(*Required)

Select one per row.

	<i>No gain</i>	<i>A little gain</i>	<i>Some gain</i>	<i>Large gain</i>
*Interest in a new STEM topic	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
*Deciding on a path to pursue a STEM career	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
*Sense of accomplishing something in STEM	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
*Feeling prepared for more challenging STEM activities	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
*Confidence to try out new ideas or procedures on my own in a STEM project	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
*Patience for the slow pace of STEM research	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
*Desire to build relationships with mentors who work in STEM	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
*Connecting a STEM topic or field to my personal values	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

*23. AS A RESULT OF YOUR APPRENTICESHIP experience, are you MORE or LESS likely to engage in the following activities in science, technology, engineering, or mathematics (STEM) outside of school requirements or activities?(*Required)

Select one per row.

	<i>Much less likely</i>	<i>Less likely</i>	<i>About the same before and after</i>	<i>More likely</i>	<i>Much more likely</i>
*Watch or read non-fiction STEM	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
*Tinker (play) with a mechanical or electrical device	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
*Work on solving mathematical or scientific puzzles	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
*Use a computer to design or program something	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
*Talk with friends or family about STEM	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
*Mentor or teach other students about STEM	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
*Help with a community service project related to STEM	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
*Participate in a STEM camp, club, or competition	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
*Take an elective (not required) STEM class	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
*Work on a STEM project or experiment in a university or professional setting	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

*24. After you have participated in your Apprenticeship Program, how far do you want to go in school?(*Required)

Select one.

- | | |
|-----------------------|--|
| <input type="radio"/> | Go to a trade or vocational school |
| <input type="radio"/> | Go to college for a little while |
| <input type="radio"/> | Finish college (get a Bachelor's degree) |
| <input type="radio"/> | Get more education after college |
| <input type="radio"/> | Get a master's degree |
| <input type="radio"/> | Get a Ph.D. |
| <input type="radio"/> | Get a medical-related degree (M.D.), veterinary degree (D.V.M), or dental degree (D.D.S) |
| <input type="radio"/> | Get a combined M.D. / Ph.D. |
| <input type="radio"/> | Get another professional degree (law, business, etc.) |

*25. How interested are you in participating in the following programs in the future?(*Required)					
<i>Select one per row.</i>					
	<i>I've never heard of this program</i>	<i>Not at all</i>	<i>A little</i>	<i>Somewhat</i>	<i>Very much</i>
*College Qualified Leaders (CQL)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
*Undergraduate Research Apprenticeship Program (URAP)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
*Science Mathematics, and Research for Transformation (SMART) College Scholarship	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
*National Defense Science & Engineering Graduate (NDSEG) Fellowship	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
*GEMS Near Peer Mentor Program	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

*26. How many jobs/careers in STEM did you learn about in your Apprenticeship Program?(*Required)	
<i>Select one.</i>	
<input type="radio"/>	None
<input type="radio"/>	1
<input type="radio"/>	2
<input type="radio"/>	3
<input type="radio"/>	4
<input type="radio"/>	5 or more

*27. How many Army or Department of Defense (DoD) STEM jobs/careers did you learn about in your Apprenticeship Program?(*Required)

Select one.

<input type="radio"/>	None
<input type="radio"/>	1
<input type="radio"/>	2
<input type="radio"/>	3
<input type="radio"/>	4
<input type="radio"/>	5 or more

*28. How much do you agree or disagree with the following statements about Department of Defense (DoD) researchers and research: (*Required)

Select one per row.

	<i>Strongly Disagree</i>	<i>Disagree</i>	<i>Neither Agree nor Disagree</i>	<i>Agree</i>	<i>Strongly Agree</i>
*DoD researchers advance science and engineering fields	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
*DoD researchers develop new, cutting edge technologies	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
*DoD researchers solve real-world problems	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
*DoD research is valuable to society	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

*29. Which of the following statements describe you after participating in the Apprenticeship Program?(*Required)

Select one per row.

	<i>Disagree - This did not happen</i>	<i>Disagree - This happened but not because of CQL</i>	<i>Agree - CQL contributed</i>	<i>Agree - CQL was primary reason</i>
*I am more confident in my STEM knowledge, skills, and abilities	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
*I am more interested in participating in STEM activities outside of school requirements	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
*I am more aware of other AEOPs	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
*I am more interested in participating in other AEOPs	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
*I am more interested in taking STEM classes in school	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
*I am more interested in earning a STEM degree	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
*I am more interested in pursuing a career in STEM	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
*I am more aware of Army or DoD STEM research and careers	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
*I have a greater appreciation of Army or DoD STEM research	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
*I am more interested in pursuing a STEM career with the Army or DoD	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

*30. What are the three most important ways that the Apprenticeship Program has helped you?(*Required)

	*Benefit #1:	<input type="text"/>
	*Benefit #2:	<input type="text"/>
	*Benefit #3:	<input type="text"/>

*31. What are the three ways that the Apprenticeship Program should be improved for future participants?(*Required)

	*Improvement #1:	<input type="text"/>
	*Improvement #2:	<input type="text"/>
	*Improvement #3:	<input type="text"/>

*32. Please tell us about your overall satisfaction with your Apprenticeship Program experience.(*Required)

7 | Appendix E – Mentor Questionnaire

Contact Information		
Please verify the following information:		
*First Name:	<input type="text"/>	
*Last Name:	<input type="text"/>	
*Email Address:	<input type="text"/>	
<i>All fields with an asterisk (*) are required.</i>		

*1. Do you agree to participate in this survey? (required)(*Required)	
<i>Select one.</i>	
<input type="radio"/>	Yes, I agree to participate in this survey
<input type="radio"/>	No, I do not wish to participate in this survey

2. Please provide your email address: (optional)

--

*3. What is your gender?(*Required)

Select one.

<input type="radio"/>	Male
<input type="radio"/>	Female
<input type="radio"/>	Choose not to report

*4. What is your race or ethnicity?(*Required)

Select one.

<input type="radio"/>	Hispanic or Latino	
<input type="radio"/>	Asian	
<input type="radio"/>	Black or African American	
<input type="radio"/>	Native American or Alaska Native	
<input type="radio"/>	Native Hawaiian or Other Pacific Islander	
<input type="radio"/>	White	
<input type="radio"/>	Choose not to report	
<input type="radio"/>	Other race or ethnicity, (specify):: <table border="1"><tr><td></td></tr></table>	

*5. Which of the following BEST describes the organization you work for? (select ONE)(*Required)	
<i>Select one.</i>	
<input type="radio"/>	No organization
<input type="radio"/>	Private Industry
<input type="radio"/>	Department of Defense or other government agency
<input type="radio"/>	Non-profit
<input type="radio"/>	Other, (specify): <div style="border: 1px solid black; height: 15px; width: 100%;"></div>

*6. Which of the following BEST describes your current occupation (select ONE)(*Required)	
<i>Select one.</i>	
<input type="radio"/>	Teacher
<input type="radio"/>	Other school staff
<input type="radio"/>	University educator (Go to question number 7.)
<input type="radio"/>	Scientist, Engineer, or Mathematician in training (undergraduate or graduate student, etc.) (Go to question number 7.)
<input type="radio"/>	Scientist, Engineer, or Mathematics professional (Go to question number 7.)
<input type="radio"/>	Other, (specify):: (Go to question number 7.) <div style="border: 1px solid black; height: 15px; width: 100%;"></div>

*7. Which of the following best describes your primary area of research?(*Required)

Select one.

<input type="radio"/>	Physical science (physics, chemistry, astronomy, materials science, etc.)
<input type="radio"/>	Biological science
<input type="radio"/>	Earth, atmospheric, or oceanic science
<input type="radio"/>	Environmental science
<input type="radio"/>	Computer science
<input type="radio"/>	Technology
<input type="radio"/>	Engineering
<input type="radio"/>	Mathematics or statistics
<input type="radio"/>	Medical, health, or behavioral science
<input type="radio"/>	Social Science (psychology, sociology, anthropology)
<input type="radio"/>	Other, (specify):: <div></div>

*8. At which of the following CQL sites did you participate? (Select ONE)(*Required)

Select one.

- ☐ ALABAMA – U.S. Army Aviation & Missile Research, Development & Engineering Center (AMRDEC) - Redstone, AL
- ☐ GEORGIA – U.S. Army Criminal Investigation Command - Defense Forensic Science Center (DFSC) – Forest Park, GA
- ☐ ILLINOIS – U.S. Army Engineer Research & Development Center – Construction Engineering Research Laboratory (ERDC-CERL) - Champaign, IL
- ☐ MARYLAND – U.S. Army Medical Research Institute of Chemical Defense (USAMRICD) – Aberdeen Proving Ground/Edgewood, MD
- ☐ MARYLAND – U.S. Army Center for Environmental Health Research (USACEHR) – Fort Detrick, MD
- ☐ MARYLAND – U.S. Army Medical Research Institute of Infectious Diseases (USAMRIID) – Fort Detrick, MD
- ☐ MARYLAND – U.S. Army Medical Research and Materiel Command – Walter Reed Army Institute of Research (WRAIR) – Silver Spring, MD
- ☐ MARYLAND – U.S. Army Research Laboratory (ARL) – Aberdeen Proving Ground, MD
- ☐ MARYLAND – U.S. Army Research Laboratory (ARL) – Adelphi, MD
- ☐ MISSISSIPPI – U.S. Army Engineer Research & Development Center (ERDC) – Vicksburg, MS
- ☐ VIRGINIA – U.S. Army Engineer Research & Development Center - Geospatial Research Laboratory (ERDC-GRL) – Alexandria, VA

*9. Which of the following BEST describes your role during CQL?(*Required)

Select one.

- ☐ Research Mentor
- ☐ Research Team Member but not a Principal Investigator (PI)
- ☐ Other, (specify)::

10. How many CQL students did you work with this year?

students.

*11. How did you learn about CQL? (Check all that apply)(*Required)

Select all that apply.

<input type="checkbox"/>	Army Educational Outreach Program (AEOP) website
<input type="checkbox"/>	AEOP on Facebook, Twitter, Pinterest, or other social media
<input type="checkbox"/>	A STEM conference or STEM education conference
<input type="checkbox"/>	An email or newsletter from school, university, or a professional organization
<input type="checkbox"/>	Past CQL participant
<input type="checkbox"/>	A student
<input type="checkbox"/>	A colleague
<input type="checkbox"/>	My supervisor or superior
<input type="checkbox"/>	A CQL site host or director
<input type="checkbox"/>	Workplace communications
<input type="checkbox"/>	Someone who works with the Department of Defense (Army, Navy, Air Force)
<input type="checkbox"/>	Other, (specify):: <div></div>

*12. How many times have YOU PARTICIPATED in any of the following Army Educational Outreach Programs (AEOPs) in any capacity? If you have heard of an AEOP but never participated select "Never." If you have not heard of an AEOP select "Never heard of it."(*Required)

Select one per row.

	<i>Never</i>	<i>Once</i>	<i>Twice</i>	<i>Three or more times</i>	<i>I've never heard of this program</i>
*Camp Invention	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
*eCYBERMISSION	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
*Junior Solar Sprint (JSS)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
*West Point Bridge Design Contest (WPBDC)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
*Junior Science & Humanities Symposium (JSHS)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
*Gains in the Education of Mathematics and Science (GEMS)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
*GEMS Near Peers	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
*UNITE	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
*Science & Engineering Apprenticeship Program (SEAP)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
*Research & Engineering Apprenticeship Program (REAP)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
*High School Apprenticeship Program (HSAP)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
*College Qualified Leaders (CQL)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
*Undergraduate Research Apprenticeship Program (URAP)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
*Science Mathematics, and Research for Transformation (SMART) College Scholarship	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
*National Defense Science & Engineering Graduate (NDSEG) Fellowship	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

*13. Which of the following were used for the purpose of recruiting your student(s) for apprenticeships? (select ALL that apply)(*Required)

Select all that apply.

<input type="checkbox"/>	Applications from Academy of Applied Science (AAS) or the AEOP
<input type="checkbox"/>	Personal acquaintance(s) (friend, family, neighbor, etc.)
<input type="checkbox"/>	Colleague(s) in my workplace
<input type="checkbox"/>	K-12 school teacher(s) outside of my workplace
<input type="checkbox"/>	University faculty outside of my workplace
<input type="checkbox"/>	Informational materials sent to K-12 schools or Universities outside of my workplace
<input type="checkbox"/>	Communication(s) generated by a K-12 school or teacher (newsletter, email blast, website)
<input type="checkbox"/>	Communication(s) generated by a university or faculty (newsletter, email blast, website)
<input type="checkbox"/>	STEM or STEM Education conference(s) or event(s)
<input type="checkbox"/>	Organization(s) that serve underserved or underrepresented populations
<input type="checkbox"/>	The student contacted me (the mentor) about the program
<input type="checkbox"/>	I do not know how student(s) were recruited for CQL
<input type="checkbox"/>	Other, (specify)::
	<div></div>

***14. How SATISFIED were you with the following CQL features?(*Required)**

Select one per row.

	<i>Did not experience</i>	<i>Not at all</i>	<i>A little</i>	<i>Somewhat</i>	<i>Very much</i>
*Application or registration process	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
*Other administrative tasks (in-processing, network access, etc.)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
*Communicating with Academy of Applied Science (AAS)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
*Communicating with CQL organizers	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
*Support for instruction or mentorship during program activities	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
*Amount of Stipends (payment)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
*Timeliness of stipend payment	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
*Research abstract preparation requirements	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
*Research presentation process	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

*15. The list below describes mentoring strategies that are effective ways to establish the relevance of learning activities for students. From the list below, please indicate which strategies you used when working with your student(s) in CQL. (*Required)

Select one per row.

	<i>Yes - I used this strategy</i>	<i>No - I did not use this strategy</i>
*Become familiar with my student(s) background and interests at the beginning of the CQL experience	<input type="radio"/>	<input type="radio"/>
*Giving students real-life problems to investigate or solve	<input type="radio"/>	<input type="radio"/>
*Selecting readings or activities that relate to students' backgrounds	<input type="radio"/>	<input type="radio"/>
*Encouraging students to suggest new readings, activities, or projects	<input type="radio"/>	<input type="radio"/>
*Helping students become aware of the role(s) that STEM plays in their everyday lives	<input type="radio"/>	<input type="radio"/>
*Helping students understand how STEM can help them improve their own community	<input type="radio"/>	<input type="radio"/>
*Asking students to relate real-life events or activities to topics covered in CQL	<input type="radio"/>	<input type="radio"/>

*16. The list below describes mentoring strategies that are effective ways to support the diverse needs of students as learners. From the list below, please indicate which strategies you used when working with your student(s) in CQL. (*Required)

Select one per row.

	<i>Yes - I used this strategy</i>	<i>No - I did not use this strategy</i>
*Identify the different learning styles that my student (s) may have at the beginning of the CQL experience	<input type="radio"/>	<input type="radio"/>
*Interact with students and other personnel the same way regardless of their background	<input type="radio"/>	<input type="radio"/>
*Use a variety of teaching and/or mentoring activities to meet the needs of all students	<input type="radio"/>	<input type="radio"/>
*Integrating ideas from education literature to teach/mentor students from groups underrepresented in STEM	<input type="radio"/>	<input type="radio"/>
*Providing extra readings, activities, or learning support for students who lack essential background knowledge or skills	<input type="radio"/>	<input type="radio"/>
*Directing students to other individuals or programs for additional support as needed	<input type="radio"/>	<input type="radio"/>
*Highlighting under-representation of women and racial and ethnic minority populations in STEM and/or their contributions in STEM	<input type="radio"/>	<input type="radio"/>

*17. The list below describes mentoring strategies that are effective ways to support students development of collaboration and interpersonal skills. From the list below, please indicate which strategies you used when working with your student(s) in CQL. (*Required)

Select one per row.

	<i>Yes - I used this strategy</i>	<i>No - I did not use this strategy</i>
*Having my student(s) tell other people about their backgrounds and interests	<input type="radio"/>	<input type="radio"/>
*Having my student(s) explain difficult ideas to others	<input type="radio"/>	<input type="radio"/>
*Having my student(s) listen to the ideas of others with an open mind	<input type="radio"/>	<input type="radio"/>
*Having my student(s) exchange ideas with others whose backgrounds or viewpoints are different from their own	<input type="radio"/>	<input type="radio"/>
*Having my student(s) give and receive constructive feedback with others	<input type="radio"/>	<input type="radio"/>
*Having students work on collaborative activities or projects as a member of a team	<input type="radio"/>	<input type="radio"/>
*Allowing my student(s) to resolve conflicts and reach agreement within their team	<input type="radio"/>	<input type="radio"/>

*18. The list below describes mentoring strategies that are effective ways to support students' engagement in "authentic" STEM activities. From the list below, please indicate which strategies you used when working with your student(s) in CQL. (*Required)

Select one per row.

	<i>Yes - I used this strategy</i>	<i>No - I did not use this strategy</i>
*Teaching (or assigning readings) about specific STEM subject matter	<input type="radio"/>	<input type="radio"/>
*Having my student(s) search for and review technical research to support their work	<input type="radio"/>	<input type="radio"/>
*Demonstrating laboratory/field techniques, procedures, and tools for my student(s)	<input type="radio"/>	<input type="radio"/>
*Supervising my student(s) while they practice STEM research skills	<input type="radio"/>	<input type="radio"/>
*Providing my student(s) with constructive feedback to improve their STEM competencies	<input type="radio"/>	<input type="radio"/>
*Allowing students to work independently to improve their self-management abilities	<input type="radio"/>	<input type="radio"/>
*Encouraging students to learn collaboratively (team projects, team meetings, journal clubs, etc.)	<input type="radio"/>	<input type="radio"/>
*Encouraging students to seek support from other team members	<input type="radio"/>	<input type="radio"/>

*19. This list describes mentoring strategies that are effective ways to support students' STEM educational and career pathways. The list also includes items that reflect AEOP and Army priorities. From this list, please indicate which strategies you used when working with your student(s) in CQL. (*Required)

Select one per row.

	<i>Yes - I used this strategy</i>	<i>No - I did not use this strategy</i>
*Asking my student(s) about their educational and/or career goals	<input type="radio"/>	<input type="radio"/>
*Recommending extracurricular programs that align with students' goals	<input type="radio"/>	<input type="radio"/>
*Recommending Army Educational Outreach Programs that align with students' goals	<input type="radio"/>	<input type="radio"/>
*Providing guidance about educational pathways that will prepare my student(s) for a STEM career	<input type="radio"/>	<input type="radio"/>
*Discussing STEM career opportunities within the DoD or other government agencies	<input type="radio"/>	<input type="radio"/>
*Discussing STEM career opportunities in private industry or academia	<input type="radio"/>	<input type="radio"/>
*Discussing the economic, political, ethical, and/or social context of a STEM career	<input type="radio"/>	<input type="radio"/>
*Recommending student and professional organizations in STEM to my student(s)	<input type="radio"/>	<input type="radio"/>
*Helping students build a professional network in a STEM field	<input type="radio"/>	<input type="radio"/>
*Helping my student(s) with their resume, application, personal statement, and/or interview preparations	<input type="radio"/>	<input type="radio"/>

*20. How useful were each of the following in your efforts to expose student(s) to Army Educational Outreach Programs (AEOPs) during CQL?(*Required)

Select one per row.

	<i>Did not experience</i>	<i>Not at all</i>	<i>A little</i>	<i>Somewhat</i>	<i>Very much</i>
*Army Educational Outreach Program (AEOP) website	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
*AEOP on Facebook, Twitter, Pinterest or other social media	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
*AEOP brochure	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
*CQL Program administrator or site coordinator	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
*Invited speakers or “career” events	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Participation in CQL	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

*21. How USEFUL were each of the following in your efforts to expose your student(s) to Department of Defense (DoD) STEM careers during CQL?(*Required)

Select one per row.

	<i>Did not experience</i>	<i>Not at all</i>	<i>A little</i>	<i>Somewhat</i>	<i>Very much</i>
*Army Educational Outreach Program (AEOP) website	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
*AEOP on Facebook, Twitter, Pinterest or other social media	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
*AEOP brochure	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
*It Starts Here! Magazine	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
*CQL Program administrator or site coordinator	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
*Invited speakers or “career” events	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
*Participation in CQL	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

*22. Which of the following AEOPs did YOU EXPLICITLY DISCUSS with your student(s) during CQL? (check ALL that apply)(*Required)

Select one per row.

	<i>Yes - I discussed this program with my student(s)</i>	<i>No - I did not discuss this program with my student(s)</i>
*College Qualified Leaders (CQL)	<input type="radio"/>	<input type="radio"/>
*GEMS Near Peer Mentor Program	<input type="radio"/>	<input type="radio"/>
*Undergraduate Research Apprenticeship Program (URAP)	<input type="radio"/>	<input type="radio"/>
*Science Mathematics, and Research for Transformation (SMART) College Scholarship	<input type="radio"/>	<input type="radio"/>
*National Defense Science & Engineering Graduate (NDSEG) Fellowship	<input type="radio"/>	<input type="radio"/>
*I discussed AEOP with my student(s) but did not discuss any specific program	<input type="radio"/>	<input type="radio"/>

*23. How much do you agree or disagree with the following statements about Department of Defense (DoD) researchers and research?(*Required)

Select one per row.

	<i>Strongly Disagree</i>	<i>Disagree</i>	<i>Neither Agree nor Disagree</i>	<i>Agree</i>	<i>Strongly Agree</i>
*DoD researchers advance science and engineering fields	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
*DoD researchers develop new, cutting edge technologies	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
*DoD researchers solve real-world problems	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
*DoD research is valuable to society	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

*24. How often did YOUR STUDENT(S) have opportunities to do each of the following in CQL?(*Required)

Select one per row.

	<i>Not at all</i>	<i>At least once</i>	<i>A few times</i>	<i>Most days</i>	<i>Every day</i>
*Work with a STEM researcher or company on a real world STEM research project	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
*Work with a STEM researcher on a research project of their own choosing	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
*Design their own research or investigation based on their own question(s)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
*Present their STEM research to a panel of judges from industry or the military	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
*Interact with STEM researchers	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
*Use laboratory procedures and tools	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
*Identify questions or problems to investigate	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
*Design and carry out an investigation	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
*Analyze data or information and draw conclusions	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
*Work collaboratively as part of a team	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
*Build or make a computer model	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
*Solve real world problems	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

*25. AS A RESULT OF THEIR CQL EXPERIENCE, how much did your student(s) GAIN in the following areas?(*Required)

Select one per row.

	<i>No gain</i>	<i>Small gain</i>	<i>Medium gain</i>	<i>Large gain</i>
*In depth knowledge of a STEM topic(s)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
*Knowledge of research conducted in a STEM topic or field	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
*Knowledge of research processes, ethics, and rules for conduct in STEM	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
*Knowledge of how professionals work on real problems in STEM	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
*Knowledge of what everyday research work is like in STEM	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

*26. Which category best describes the focus of your student(s) CQL activities?(*Required)

Select one.

<input type="radio"/>	Science	(Go to question number 27.)
<input type="radio"/>	Technology	(Go to question number 28.)
<input type="radio"/>	Engineering	(Go to question number 28.)
<input type="radio"/>	Mathematics	(Go to question number 28.)

*27. AS A RESULT OF THEIR CQL EXPERIENCE, how much did your student(s) GAIN in their abilities to do each of the following?(*Required)

Select one per row.

If answered, go to question number 29.

	<i>No gain</i>	<i>Small gain</i>	<i>Medium gain</i>	<i>Large gain</i>
*Asking a question that can be answered with one or more scientific experiments	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
*Using knowledge and creativity to suggest a testable explanation (hypothesis) for an observation	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
*Making a model of an object or system showing its parts and how they work	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
*Designing procedures for an experiment that are appropriate for the question to be answered	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
*Identifying the limitations of the methods and tools used for data collection	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
*Carrying out procedures for an experiment and recording data accurately	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
*Using computer models of objects or systems to test cause and effect relationships	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
*Organizing data in charts or graphs to find patterns and relationships	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
*Considering different interpretations of data when deciding how the data answer a question	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
*Supporting an explanation for an observation with data from experiments	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
*Supporting an explanation with relevant scientific, mathematical, and/or engineering knowledge	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
*Identifying the strengths and limitations of explanations in terms of how well they describe or predict observations	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
*Defending an argument that conveys how an explanation best describes an observation	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
*Identifying the strengths and limitations of data, interpretations, or arguments presented in technical or scientific texts	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

*Integrating information from technical or scientific texts and other media to support your explanation of an observation	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
*Communicating about your experiments and explanations in different ways (through talking, writing, graphics, or mathematics)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

***28. AS A RESULT OF THEIR SEAP EXPERIENCE, how much did your student(s) GAIN in their ability to do each of the following?(*Required)**

Select one per row.

	<i>No gain</i>	<i>Small gain</i>	<i>Medium gain</i>	<i>Large gain</i>
*Defining a problem that can be solved by developing a new or improved object, process, or system	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
*Using knowledge and creativity to propose a testable solution for a problem	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
*Making a model of an object or system to show its parts and how they work	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
*Designing procedures for an experiment that are appropriate for the question to be answered	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
*Identifying the limitations of the methods and tools used for data collection	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
*Carrying out procedures for an experiment and recording data accurately	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
*Using computer models of an object or system to investigate cause and effect relationships	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
*Considering different interpretations of the data when deciding if a solution works as intended	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
*Organizing data in charts or graphs to find patterns and relationships	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
*Supporting a solution for a problem with data from experiments	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
*Supporting a solution with relevant scientific, mathematical, and/or engineering knowledge	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
*Identifying the strengths and limitations of solutions in terms of how well they meet design criteria	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
*Defend an argument that conveys how a solution best meets design criteria	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
*Identifying the strengths and limitations of data, interpretations, or arguments presented in technical or scientific texts	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

*Integrating information from technical or scientific texts and other media to support your solution to a problem	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
*Communicating information about your design experiments and solutions in different ways (through talking, writing, graphics, or math equations)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

*29. AS A RESULT OF THE CQL EXPERIENCE, how much did your student(s) GAIN (on average) in the skills/abilities listed below?(*Required)

Select one per row.

	<i>No gain</i>	<i>Small gain</i>	<i>Medium gain</i>	<i>Large gain</i>
*Learning to work independently	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
*Setting goals and reflecting on performance	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
*Sticking with a task until it is finished	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
*Making changes when things do not go as planned	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
*Including others' perspectives when making decisions	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
*Communicating effectively with others	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
*Confidence with new ideas or procedures in a STEM project	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
*Patience for the slow pace of research	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
*Desire to build relationships with professionals in a field	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
*Connecting a topic or field with their personal values	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

*30. Which of the following statements describe YOUR STUDENT(S) after participating in the CQL program?(*Required)

Select one per row.

	<i>Disagree - This did not happen</i>	<i>Disagree - This happened but not because of CQL</i>	<i>Agree - CQL contributed</i>	<i>Agree - CQL was primary reason</i>
*More confident in STEM knowledge, skills, and abilities	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
*More interested in participating in STEM activities outside of school requirements	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
*More aware of other AEOPs	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
*More interested in participating in other AEOPs	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
*More interested in taking STEM classes in school	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
*More interested in earning a STEM degree	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
*More interested in pursuing a career in STEM	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
*More aware of DoD STEM research and careers	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
*Greater appreciation of DoD STEM research	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
*More interested in pursuing a STEM career with the DoD	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

*31. What are the three most important strengths of CQL?(*Required)

	*Strength #1:	<input type="text"/>
	*Strength #2:	<input type="text"/>
	*Strength #3:	<input type="text"/>

*32. What are the three ways CQL should be improved for future participants?(*Required)

	*Improvement #1:	<input type="text"/>
	*Improvement #2:	<input type="text"/>
	*Improvement #3:	<input type="text"/>

33. Please tell us about your overall satisfaction with your CQL experience.

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