Program Deliverables

1) Elevator Pitch – refer to explanation below (May 27th)

2) Research Plan Overview – refer to details below (due June 11th)

3) Oral Presentation on Research – Mentors will help you with this (due July 13-16)

4) Poster Presentation on Research – refer to details below and ask mentors (July 20)

5) Final Research Report – refer to details below (due last day July 22-23) will not receive

last paycheck until received

ELEVATOR PITCH

- Elevator pitches are short speeches, typically ranging between 30 seconds and 2 minutes, where

a big picture is presented to a target audience. A person may have a handful of practiced pitches

directed at varied audiences (i.e., freshmen chem majors vs. a CEO) or highlighting different

research goals.

- The goal is to communicate, in an exciting and engaging way, what you’re working on and why

it’s important to others. Hook ‘em with this so they ask you additional questions!

- Elevator pitches are NOT meant to have a lot of details. This is a sky high view with some fun

content.

- Create a couple versions and practice with friends or in the mirror to perfect your pitch.

Some reference websites:

https://fairygodboss.com/articles/elevator-pitch-elevator-speech

http://sfp.ucdavis.edu/files/163926.pdf

<https://www.thebalancesmb.com/how-to-write-an-elevator-pitch-2951690>

GUIDELINES FOR REU RESEARCH PLAN & FINAL RESEARCH REPORT

RESEARCH PLAN

The Research Plan is a required activity for all REU students. The purpose of completing a Research Plan is so

that you, the student, and your faculty advisor have a mutual understanding of your scope of work. By

completing the Research Plan, reviewing it with your advisor, and then making any needed changes, you will

have established communication that will lead to a more purposeful research experience.

Research Plans should be approximately 2 pages in length.

Research Plans should include the following:

1) An Objective or Thesis – this is a statement of the problem or purpose of the research

2) Research Methods – this is a description of how you plan to approach the problem

3) Skills Required – this is a list of skills or techniques that would be needed to engage in the research

methods described (e.g., column chromatography, ability to use a software package, ability to use a

specific piece of equipment, etc.)

4) Content Knowledge Required – this is a list of concepts or content that would need to be understood to

successfully carry out the research described (e.g., understanding of “molecular hyperpolarizability”,

understanding of “non-linear optics”, etc.)

5) Skills and Content Knowledge Needed – this is a list of skills that you would need to learn for you to

meet the skills required as described above

Your Research Plan should be shared with your advisor by the end of the second week of your REU experience.

Research Plans (including how you and your advisor have decided to help you acquire the necessary skills)

should be signed by your faculty advisor or mentor and submitted to your institution’s REU program coordinator.

The first two sections of your Research Plan can serve as a guideline for the first two sections of your Final

Research Report.

Research Plan/Research Overview

• Mutual Understanding of Work by Student-Advisor-Mentor(s)

• Completed by the end of Week 4

• Outline:

Title of research Project

Descriptive title, authors, address of research

Introduction/Background and Objective

A statement of problem or purpose of research

Briefly explain the significance of the research problem. This section may include key citations

(1-5)

Target molecules?

Experimental/Research Module

An explanation of the experiments and expected techniques that will be performed to accomplish

the stated objective.

Target molecules?

Reactions?

Illustrations of key instruments being developed?

• Approximately: 2 pages

Full Research Report(Extended Abstract): Final draft due July 22, 2021.

This will include the above sections of Title, Objective, and Experimental Methods as well as:

Results/Data/Figures: This section is usually dominated by calculations, tables, and figures. However, it is

necessary to state all significant results explicitly in verbal form. Graphics should be clear, easily read, and well labeled (e.g. Figure 1: Input Frequency and Capacitor Value). An important strategy for making the results effective is to draw the reader's attention to them with a sentence or two, so the reader has a focus when reading the graph.

Discussion: The discussion section is the most important part because an in-depth analysis of results is made. This section requires that you explain, analyze, and interpret experimental data.

Conclusion: A brief summary of the results and the significance of the project.

Acknowledgements: **Simons Foundation, Simons Collaboration on Ocean Processes and Ecology (SCOPE)**

Use: MS Office, CHEM Office, Online journals (www.library.gatech.edu or SciFinder Scholar), Size 12 Times

New Roman font in your report, single space, 1" margins.

Reference: http://www.writing.eng.vt.edu/index.html (for outlines and presentations)

Approximately: 5 pages

Pointers for Effective Scientific Writing:

1. When starting, be sure to organize your thoughts, such as an outline. Consider that the work is being

addressed to a technically oriented, scientific audience.

2. Three C's in sentences: Clarity, Concise, and Complete

3. Style considerations:

Use ACTIVE verbs

Use third person (object-oriented speech)

Abbreviations should be spelled out when first used

Avoid contractions

Avoid colloquial language or slang

4. Cite references appropriately. Do not plagiarize!! (Reference on plagiarism:

<http://abacus.bates.edu/pubs/Plagiarism/plagiarism.html>)

Steps to completing your REU research report:

1. Write a 5-page report using the template below and make sure to follow the formatting guidelines

provided.

2. Submit a draft of your report to your Mentor and work with them on revisions. Allow at least one week

for the revision process and let your mentor know the deadline well in advance.

3. Email the final version of your abstract as a Word doc. or PDF, as well as a Power Point copy of your

poster to Ruth Pierre (CHEM/CCE/3M), Benita Black (ACE), or Shaun Ashley (PHYS/EAS) by July

25, 2019.

\*\*Note, there will also be an oral presentation along with the poster session during the last week of your rotation. We’ll cross that bridge as it comes closer and as we receive more information\*\*

Final report formatting guidelines:

