

Education and Community Outreach Committee
NHERI Summer Institute Feedback Meeting
June 22, 2022 – 4:00 pm Central Time (hybrid)

1. **Attendance** Laura Lowes (*University of Washington—RAPID*), Joel Conte (*University of California, San Diego—LHPOST*), Pedro Lomonáco (*Oregon State University—HWRL*), Melissa Villarreal (*University of Colorado Boulder—CONVERGE*), and Robin Nelson (*University of Texas at San Antonio—NCO*)

2. **NHERI Summer Institute Feedback**
 - Prefer in-person Institute to virtual
 - Prefer NHERI mentors being assigned to a mock proposal group
 - Mentors being with same group supported commitment to project
 - Important to hear about all projects and meet all participants
 - Mentors and groups could have a speed date with groups after first day to share advice
 - How to help participants prepare for NHERI Summer Institute's two tracks (individual and collaborative proposal)?
 - Robin could hold a Zoom meeting about Institute's purpose and group collaboration
 - Joy could meet with participants later in the Institute when their proposal is more mature
 - Participants encouraged to seek site representatives about individual proposals for advice
 - *Challenge:* Want all participants to meet with all sites: what is most effective way?
 - *Add:* Decaf coffee and tea
 - *Excursion ideas:* City Missions as a break in early morning on one day

June

2022

■ Block 1
 ■ Block 2
 ■ Block 1 & 2

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
			1 REU Block 1 Start Pre-Assessment due	2 Block 1 Orientation 11am-2pm Central	3	4
5	6 Research Meeting#1 10am-12pm Central	7	8	9	10 Week#1	11
12 Social Media Post: WHO I AM	13 REU Block 2 Start Pre-Assessment due Research Meeting#2 10am-12pm Central	14 Block 2 Orientation 12am-3pm Central	15 Career Development Meeting#1: Social Media & Networking 11am-1pm Central	16	17 Research Meeting#1 1pm-3pm Central	18
19	20 NHERI Summer Institute	21 NHERI Summer Institute	22 NHERI Summer Institute	23	24	25
26 Social Media Post: MEET MY MENTOR	27 Research Meeting#3 10am-12pm Central Research Meeting#2 1pm-3pm Central	28	29 Career Development Meeting#2: Applying for Graduate School Panel (Graduate & Faculty Panel) 11am-1pm Central	30	1	

July

2021

■ Block 1
 ■ Block 2
 ■ Block 1 & 2

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday		
					1	2		
3	4	Research Meeting#4 10am-12pm Central Research Meeting#3 1pm-3pm Central	Career Development Meeting#3: DEI & Implicit Bias in Engineering 11am- 1pm Central	7	8	9		
Social Media Post: MY NHERI SITE	Research Meeting#5 10am-12pm Central Research Meeting#4 1pm-3pm Central	11	12	13	14	15		
17	Research Meeting#6 10am-12pm Central Research Meeting#5 1pm-3pm Central	18	19	Career Development Meeting#4: Industry Career Panel & Career Exploration 11am-1pm Central	20	21	22	23
Social Media Post: RESEARCH IN ACTION	Research Meeting#7 10am-12pm Central Research Meeting#6 1pm-3pm Central DS ACADEMY	24	25 DS ACADEMY	26 Career Development Meeting#5: Career in Research or Academia 11am-1pm Central DS ACADEMY	27 DS ACADEMY	28 DS ACADEMY	29 DS ACADEMY	30

August

2021

■ Block 1
 ■ Block 2
 ■ Block 1 & 2

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
31	1 Research Meeting#8 10am-12pm Central Research Meeting#7 1pm-3pm Central	2	3 ALL REU STUDENTS- Research Symposium Presentation Practice 8:00am-6:00pm Central	4	5	6
7 PHOTO CONTEST: HELLO, AUSTIN! *Arrive in Austin for REU Research Symposium	8 NHERI REU Research Symposium @ TACC 8:00am-5:00pm Central	9 NHERI REU Research Symposium @ TACC 8:00-5:00pm Central REU Block 1 End Due: Week 10 timesheet, final paper, poster, & presentation, & REU Post-Assessment	10	11	12	13
14	15 Research Meeting#8 1pm-3pm Central	16	17	18	19 REU Block 2 End DUE: Week 10 timesheet, final paper, poster, & presentation, & REU Post-Assessment	20
21	22	23	24	25	26	27
28	29	30	31			



Natural Hazards Engineering Research Infrastructure

Facilitator

Dr. Robin Nelson

Education Specialist, NHERI ECO

College of Engineering,

The University of Texas at San Antonio

One UTSA Circle

San Antonio, TX 78249

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Zoom Room: <https://utsa.zoom.us/my/robin.nelson> (**used for all group and individual meetings with NHERI ECO*)

Program Description and Objectives

The goals of the NHERI REU summer program include:

- Providing research experiences for undergraduate students
- Providing career exposure within the NHERI fields
- Providing mentorship with an experienced engineer/researcher

Site Events

Each REU student will be assigned to a NHERI site. You are expected to follow all rules at each of your sites. Faculty mentors and site managers will provide feedback on your performance. If you have any questions, please ask.

REU Meetings

You are expected to participate in all NHERI REU research and career development meetings. If there is an extenuating circumstance, please send an email as soon as you are aware of the situation to robin.nelson@utsa.edu.

Readings and Instructional Materials:

IEEE Conference Template

How to Write a Research Journal Article in Engineering & Science

Journal articles that address your topic

Other scholarly sources as necessary

Expectations:

NHERI expects you to act and respond professionally in your interactions with others and in completing your assignments and deliverables. Failure to do so may result in loss of pay and/or dismissal from the program.

Course Schedule for Block I & II (tentative and subject to change):

REU Block I				
	Week	Deliverables due	Topics	Meetings: Research & Career Development
1	June 1-3	Wednesday, June 1 Pre-Assessment	Welcome to NHERI REU – get to know your site, your peers, and your mentors.	June 2 Block I Orientation 10am-12pm Central
2	June 6-10	Friday, June 10 Timesheet 1 Reflection 1 Media Release Sample Journal Article Study Consent	Let's Review– identify, read, and write 5 annotations on journal articles Skill—identify, summarize, paraphrase, and cite scholarly sources.	Research Meeting#1 June 6, 10am-12pm Central
3	June 13-17	Friday, June 17 Timesheet 2 Reflection 2 Annotated Bibliography First Meeting Form	Introducing . . .your topic! Write the draft of your introduction. Skill—hook, inverted triangle writing	Research Meeting#2 June 13, 10am-12pm Central Career Development Workshop#1: Social Media & Networking June 15, 11am-1pm Central
4	June 20-24	Friday, June 24 Timesheet 3 Reflection 3 Introduction Draft		
5	June 27- July 1	Friday, July 1 Timesheet 4 Reflection 4 Literature Review Draft Natural Hazards Module Personal Statement	The What–Dig into your topic and uncover the gap to write your literature review. Skill—identify purpose, identify gap	Research Meeting#3 June 27, 10am-12pm Central Career Development Workshop#2: Applying to Graduate School June 29, 11am-1pm Central
6	July 4-8	Friday, July 8 Timesheet 5 Reflection 5 Instrumentation & Methodology Draft	The How–Explain the materials, instruments, and methods you will use to conduct your research. Skill—quantitative research methods, format and figures	Research Meeting#4 Tuesday, July 5, 10am-12pm Central Career Development Workshop#3: Diversity, Equity, and Inclusion July 6, 11am-1pm Central

7	July 11-15	Friday, July 15 Timesheet 6 Reflection 6 Peer Review	Peer Review—Learn about the journal peer review process and learn to give and take feedback. Skill—editing and revising	Research Meeting#5 July 11, 10am-12pm Central
8	July 18-22	Friday, July 22 Timesheet 7 Reflection 7 Revision Lesson Plan	Mission Objectives-Develop a lesson plan for your site to use with K-12 students. Skill- writing objectives and lesson plans	Research Meeting#6 July 18, 10am-12pm Central Career Development Workshop#4: Industry Career Panel & Career Exploration July 20, 11am-1pm Central
9	July 25-29	Friday, July 29 Timesheet 8 Reflection 8	The Closing . . . write a draft of your results, discussion, and conclusion. Skill— analysis and reporting of data	Research Meeting#7 July 25, 10am-12pm Central Career Development Workshop#5: Career in Research or Academia July 27, 11am-1pm Central
10	August 1-5	Friday, August 5 Timesheet 9 Reflection 9 Final Paper Draft Cover Letter & Resume	Preparing for the Next Steps—Continue writing, revising, and provide presentation feedback.	Research Meeting#8 August 1, 10am-12pm Central Presentation Practice August 3, 8am-6:00pm Central
10	August 8-12	Tuesday, August 9 Timesheet 10 <i>Reflection 10: In-person Focus Group</i> Final Paper Final Presentation Final Research Poster Post-assessment	Finish Strong— Publish your research and share your experience and ideas to improve the program in the post-assessment. Skill- publish, qualitative research methods, Data Depot	
RS	August 8-9	Upload poster, paper, presentation to Data Depot no later than August 15 .	Research in Action— Present your poster and paper for mentors and peers.	NHERI REU Research Symposium @ TACC, August 8-9, 8:00am-5:00pm Central

REU Block II

Week	Deliverables due each Friday	Topics	Meetings: Research & Career Development	
1	June 13-17	Monday, June 13 Pre-Assessment Friday, June 17 Timesheet 1 Reflection 1 Media Form Sample Publication Study Consent	Welcome to NHERI REU – get to know your site, your peers, and your mentors. Skill—identify scholarly sources	NHERI REU Block 2 Orientation June 14, 12am-2pm Central Career Development Workshop #1: Social Media Network June 22, 11am-1pm Central
2	June 20-24	Friday, June 24 Timesheet 2 Reflection 2 Annotated Bibliography First Meeting Form	Let's Review— Review the literature that supports your topic and write an annotated bibliography for 5 <u>journal articles</u> . Skill—summarize, paraphrase, cite	Research Meeting#1 Friday, June 17, 1-3pm Central
3	June 27- July 1	Friday, July 1 Timesheet 3 Reflection 3 Introduction Draft Natural Hazards Module	Introducing . . .your topic! Write the draft of your introduction. Skill—hook, inverted triangle writing	Research Meeting#2 June 27, 1-3pm Central Career Development Workshop#2: Applying to Graduate School June 29, 11am-1pm Central
4	July 4-8	Friday, July 8 Timesheet 4 Reflection 4 Literature Review Draft Personal Statement	The What—Dig into your topic and uncover the gap to write your literature review. Skill—identify purpose, identify gap	Research Meeting#3 July 5, 1-3pm Central Career Development Workshop#3: Diversity, Equity, and Inclusion July 6, 11am-1pm Central
5	July 11-15	Friday, July 15 Timesheet 5 Reflection 5 Instrumentation & Methodology Draft *Natural Hazards Workshop	The How—Explain the materials, instruments, and methods you will use to conduct your research. Skill—quantitative research methods, format and figures	Research Meeting#4 July 11, 1-3pm Central

6	July 18-22	Friday, July 22 Timesheet 6 Reflection 6 Peer Review	Peer Review—Learn about the journal peer review process and learn to give and take feedback. Skill—editing and revising	Research Meeting#5 July 18, 1-3pm Central Career Development Workshop#4: Industry Career Panel & Career Exploration July 20, 11am-1pm Central
7	July 25-29	Friday, July 29 Timesheet 7 Reflection 7 Revision Lesson Plan	Mission Objectives-Develop a lesson plan for K-12 students. Skill- writing objectives and lesson plans	Research Meeting#6 July 25, 1-3pm Central Career Development Workshop#5: Career in Research or Academia July 27, 11am-1pm Central
8	August 1-5	Friday, August 5 Timesheet 8 Reflection 8 Resume & Cover Letter	The Closing . . . write a draft of your results, discussion, and conclusion. Skill—analysis and reporting results	Research Meeting#7 August 1, 1-3pm Central Presentation Practice August 3, 8am-6pm Central
9	August 8-12	Tuesday, August 9 <i>Reflection 9: In-person Focus Group</i> Friday, August 12 Timesheet 9 Final Poster Final Presentation	Preparing for the Next Steps—Continue writing, revising, and provide presentation feedback.	
10	August 15-19	Friday, August 19 Timesheet 10 Reflection 10 Final Paper Post-assessment	Finish Strong—Publish your research and share your experience and ideas to improve the program in the post-assessment. Skill- publish, qualitative research methods, Data Depot	Research Meeting#8 August 15, 12-2pm Central
RS	August 8-9	Upload poster, paper, presentation to Data Depot no later than August 26.	Research in Action—Present your poster and paper for mentors and peers.	NHERI REU Research Symposium at TACC, August 8-9, 8:00am-5:00pm