

NHERI Council Monthly Meeting No. 7, Y-6
January 6, 2022 02:00 – 3:00 PM EDT

NHERI Council – Spring 2022 Meetings

Topic: NHERI Council - 2022

Time: **Jan 6, 2022 02:00 PM** (US and Canada)

Every month on the First Thu, until May 5, 2022, 5 occurrence(s)

Feb 3, 2022 02:00 PM

Mar 3, 2022 02:00 PM

Apr 7, 2022 02:00 PM

May 5, 2022 02:00 PM

Please download and import the following iCalendar (.ics) files to your calendar system.

Monthly: <https://DesignSafe-ci.zoom.us/meeting/tJUtfuCprjMtG9Hqq8sjgehkA7W5FWSo-rhN/ics?icsToken=98tyKuCprljG9SdtxiCRowcAor4XevziFxajfp1jQ69ECpUZwv9F7V1Z5RII9ed>

Join Zoom Meeting

<https://DesignSafe-ci.zoom.us/j/91099108715>

Meeting ID: 910 9910 8715

Attending:

- Oregon State University: Dan Cox (EF Dir.) Hinsdale
- University of California, Berkeley: Sanjay Govindjee (Co-Dir.), and Matt Schoettler (Assoc. Dir. – Ops) SimCenter
- University of California, Davis:
- University of California, San Diego: Joel Conte (EF Dir.,) LHPOST
- University of Colorado Boulder: Lori Peek (Dir., CONVERGE)
- University of Florida: Jennifer Bridge (EF Dir. and Council Vice-Chair) Powell Lab
- University of Texas at Austin: Ellen Rathje (CI Dir.) DesignSafe-CI)
- University of Texas at Austin: Farn Yuh Menq (EF Manager) Texas Mobile Equipment Facility
- University of Washington: Joe Wartman (EF Dir.) RAPID
- National Science Foundation: Joy Pauschke (Prog. Dir, NHERI)
- Purdue University: Julio Ramirez (NCO Dir., Council Secretary), and Dan Zehner (NCO Sch./Ops. Coord)
- Florida International University:
- Lehigh University: Jim Ricles (EF Dir.) ATLSS

- d) Publish Your EF Data event recap / Recent EF experiences with DesignSafe data publication (Ellen Rathje, and Dan Cox, 10 minutes)

Dan and Ellen reported on the meeting. The event agenda is shown below:

Agenda

NHERI Natural Hazards Engineering Research Infrastructure

- Welcome by Ellen Rathje, University of Texas** (5 minutes)
 - Welcome and the critical role of data in experimental research
- Joy Pauschke, National Science Foundation** (5 minutes)
 - Why is NSF interested in data publication and reuse?
 - What do they expect from awardees and why this is important?
- Ellen Rathje, University of Texas** (10 minutes)
 - Goals for this event and for attendees
 - Overview and philosophy of DesignSafe data curation and publication
- Dan Cox, Oregon State University** (10 minutes)
 - Experiences publishing data on DesignSafe
 - Tour through their data publication
- Craig Jansen, DesignSafe/TACC** (15-20 minutes)
 - Getting started (checklist)
 - Curation and publication pipeline
 - Help resources and where to find them
- Maria Esteva, DesignSafe/TACC** (15-20 minutes)
 - Facilitating data reuse of your published datasets
 - Data usage and citations
 - Examples of data reuse
 - DesignSafe Dataset Awards
- Q&A** (15-20 minutes)

The objectives of the event are shown below. The main goal was to demystify data curation. Dan noted that the process involves all parties, i.e. facility, PI and DesignSafe. Joe noted that the RAPID facility is heavily involved in the process and provides extensive support to the researchers.

Objectives for Today

- Understand and discuss the importance of data publishing
- Learn about data publishing in DesignSafe
 - Data curation philosophy
 - Curation and publication resources
 - Hands-on demonstration
- Hear about curation experiences from other researchers
- Understanding and facilitating data reuse
- Answer your questions and de-mystify the curation process!

NSF | DESIGNSAFE-CI | NHERI: NATURAL HAZARDS ENGINEERING RESEARCH INFRASTRUCTURE | TEXAS | UCLA | TACC | RICE | Florida Tech

- e) Facility status updates (All)

Sanjay reminded the Council of the upcoming SimCenter Community event.

4. New Business

No new business came before the Council

5. Adjourn

Meeting adjourned at 3:02 PM EDT.



Educational Community Outreach (ECO) Update

January 6, 2021

REU

Important REU Dates

- **Jan. 19, 4:00 pm CT** – Recruitment
- **February 4** – application deadline
- **June 1– August 9** Block 1
- **June 13 – August 19** Block 2
- **August 8-9** – REU Research Symposium @ TACC in Austin, TX

REU Report

- 10 applications; 215 in progress
- 8 letters of recommendation; 4 in progress
- Virtual REU Recruitment Event: 11 registered, 99 views



Next Steps

- Host final REU Virtual Recruitment Event
- Target underrepresented groups and those with incomplete applications

How can you help?

- Encourage individual students to apply
- Encourage faculty to reach out individually to students



Summer Institute

SI Important Dates

- **June 20-22, 2022**—Summer Institute
- **February 11**—application deadline
- **June 1** — online registration deadline

SI Report

- **Travel Award:** 46 applications; 51 in progress
- **Online Registration:** 15 registered, 2 in progress



SI Next Steps

- Select Summer Institute itinerary with ECO
- Target underrepresented groups and those with incomplete applications

How can you help?

- Identify NHERI Summer Institute site representative
- Register NHERI representatives:
https://bit.ly/2022NHERI_SummerInstituteRegistration
- Encourage early career faculty members to apply



Request for Help

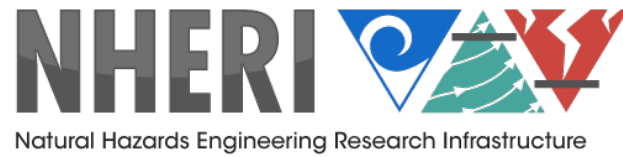
- Diversity Survey:
https://bit.ly/ECO_Discovery
- NGSC Faculty mentor(s)
January 21 11:30-12:00pm CT
 - *Wind*
 - *Earthquake*
 - *Tsunami*
 - *Coastal Engineering*
 - *Cyberinfrastructure/Data Management*
 - *Simulation/Computational Modeling*
 - *Reconnaissance*
 - *Social Science*

ECO Discovery Survey



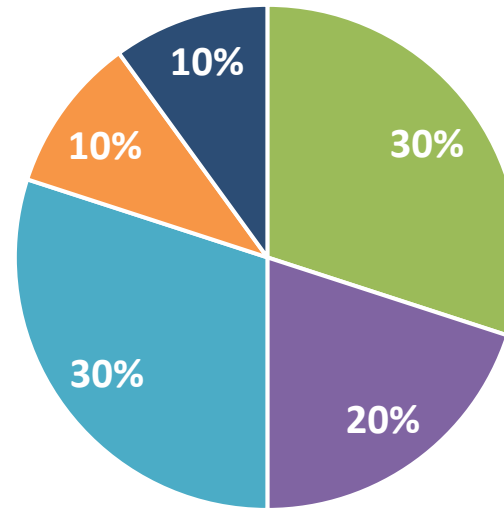


THE NHERI NETWORK IS SUPPORTED BY MULTIPLE GRANTS FROM THE NATIONAL SCIENCE FOUNDATION.



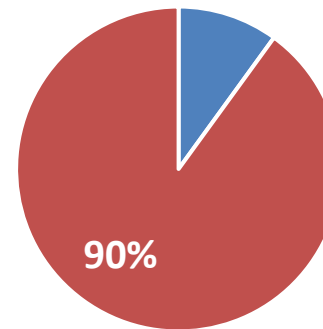
Current REU Application Data 01.06.22

Race/Ethnicity (n=10)



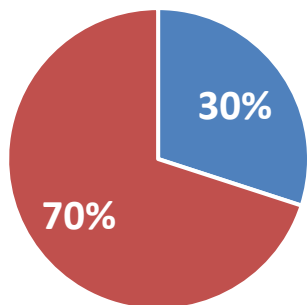
- American Indian or Alaska Native (0)
- Asian or Asian American (0)
- Black or African American (3)
- Hispanic or Latinx (2)
- White or Caucasian (3)
- Multiracial (1)
- None of the Above/Do not wish to answer (1)

First-Generation Status (n=10)



- First-Generation College Student (1)
- Not First-Generation College Student (9)

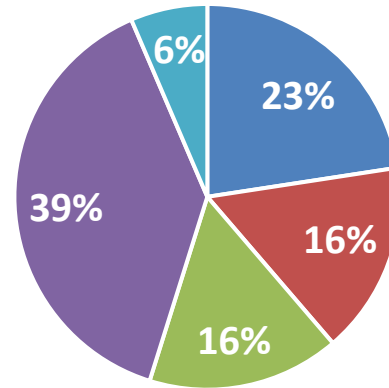
Gender (n=10)



- Female (3)
- Male (7)

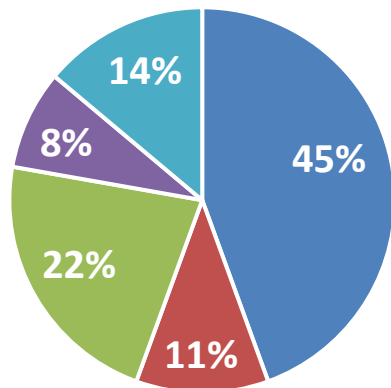
SI Travel Award Application Data 01.06.22

Race/Ethnicity (n=36)



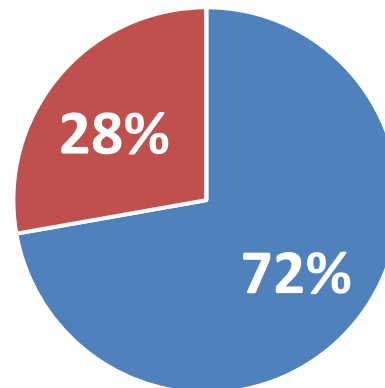
- Asian or Asian American (7)
- Black or African American (5)
- Hispanic or Latinx (5)
- White or Caucasian (12)
- Multiracial

Early-Career Classification (n=36)



- EC Faculty (16)
- EC Academic Staff or Industry (4)
- NGSC (8)
- Other (3)
- K-12 Educator (5)

Gender (n=36)



- Male (26)
- Female (10)
- Other (0)



Research Experiences for Undergraduates



The NSF-funded Natural Hazards Engineering Research Infrastructure offers a Research Experiences for Undergraduates (REU) program. Land a research opportunity at one of 10 multi-hazard engineering equipment sites during a 10-week summer research program. Study earthquake, wind, tsunami, coastal engineering, data management, cyberinfrastructure, reconnaissance, or simulation research at a NHERI facility.

- **WORK** with faculty and graduate students
- **WRITE** a professional, publishable research paper
- **NETWORK** with peers in research group meetings
- **LEARN** about grad school and career development
- **BUILD** relationships through mentoring
- **GAIN** hands-on research experience

REU Block 1: June 1 - Aug. 9, 2022

- Florida International University
- Lehigh University
- University of California, Berkeley
- University of Florida
- University of Texas-Austin
 - Mobile Shakers program
 - Cyberinfrastructure

REU Block 2: June 13 - Aug. 19, 2022

- Oregon State University
- University of California-Davis
- University of California-San Diego
- University of Washington

Learn More: designsafe-ci.org/learning-center/reu/

NHERI encourages members of racial and ethnic underrepresented groups, females, and veterans to apply for this research experience.



REU students at the O.H. Hinsdale Wave Research Laboratory at Oregon State University.

APPLY TODAY



Deadline: Feb. 4, 2022



RESEARCH EXPERIENCES FOR UNDERGRADUATES



VIRTUAL RECRUITMENT WEBINAR

January 19th, 4:00-5:00 pm Central



Are you interested in natural hazards research from an engineering perspective? Did you know most participants in the NHERI REU Program have not participated in research before their summer experience?

Learn more about National Science Foundation's NHERI REU program.

The NHERI Research Experiences for Undergraduates (REU) program offers funded research opportunities at 10 multi-hazard engineering sites during a 10-week summer research program.

Study earthquake, wind, tsunami, coastal engineering, data management, cyberinfrastructure, reconnaissance, or simulation research. Travel funding provided, plus a stipend, and subsidy for room and board for the 10-week summer program. *

**NHERI encourages members of racial and ethnic underrepresented groups, females, and veterans to apply for this research experience.*

Attend the **REU Virtual Recruitment Event** on **Wednesday, January 19th**, from 4:00 – 5:00 pm Central. [Register for free online](#). Hear from 2021 NHERI REU Alumni and learn about the program, a typical day in the life of an REU student, funding, and application process.



Register here





NHERI Summer Institute for Early Career Faculty



NHERI Summer Institute JUNE 20 - 22, 2022

The annual NHERI Summer Institute will be held June 20-21, 2022, at the University of Texas at San Antonio's (UTSA) Downtown Campus and online.

Early-career faculty, engineers, and researchers interested in learning more about the Natural Hazards Engineering Research Infrastructure (NHERI) community and NSF proposal writing may **apply** or **register**. Join previous alumni who earned over \$10.5 million in NSF funding and 2 NSF CAREER Awards. *NHERI encourages members of racial and ethnic underrepresented groups, females, and veterans to apply for this research experience.*

Topics of the three-day event include:

- NHERI program mission
- NHERI network facility capabilities
- NHERI Science Plan
- NSF Grant proposal writing
- Education and community outreach focused on diversity, equity, and inclusion
- Community networking and mentoring

You may **apply** for an NSF travel award by **February 11, 2022**, and attend in person, or **register** to attend the event online by **June 1, 2022**. Apply or register online at designsafe-ci.org/learning-center/summer-institute/.



"It was a great experience. I had the opportunity to learn a lot about NSF proposal writing, use and capabilities of NHERI experimental facilities, and integration of teaching and research."

-NHERI Summer Institute Alumni

APPLY OR REGISTER NOW

