

Day 1 – Monday, July 24, 2017

Time	Description	Location
7:30-8:30am	Breakfast	Wyndham Garden Hotel
8:00-9:00am	Registration	UTSA JPL Assembly Room 4.04.22
9:00-9:45am	Welcome <i>Presenter: JoAnn Browning, Dean University of Texas, College of Engineering</i>	UTSA JPL Assembly Room 4.04.22
10:00am-12:00pm	Proposal Workshop Overview <i>Participants will learn about the NHERI network, receive an overview of the Summer Institute objectives, and share their goals for the week.</i>	UTSA JPL Assembly Room 4.04.22
12:00-1:00pm	Welcome Lunch <i>Presenter: Grace Hsuan National Science Foundation</i>	UTSA JPL Assembly Room 4.04.22
1:00-4:00pm	Grant Writing Workshop – Research 101 <i>Presenter: Grace Hsuan National Science Foundation</i> <i>National Science Foundation representative, Dr. Grace Hsuan, will lead a workshop that details the dos and don'ts of grant writing. Participants will explore their project proposals and get hands-on advice from successful grant proposal recipients.</i>	UTSA JPL Assembly Room 4.04.22
4:00-5:00pm	Debrief, Reflection, and Next Steps <i>Participants will wrap up the day's events with a guided reflection that will conclude by identifying action items.</i>	UTSA JPL Assembly Room 4.04.22
5:00-6:30pm	User Forum Open House Reception <i>All Summer Institute participants are invited to attend a reception to learn more about the benefits of using NHERI facilities.</i>	UTSA College of Engineering Multi-purpose Room, BSE 2.102

Day 2 – Tuesday, July 25, 2017

Time	Description	Location
7:30-8:30am	Breakfast	Wyndham Garden Hotel
8:30-9:00am	Registration	UTSA JPL Assembly Room 4.04.22
9:00am-11:30am	<p>NHERI Science Plan Discussion <i>Attendees will participate in an introduction, followed by a discussion of the NHERI Science Plan that addresses pressing research needs for the natural hazards community.</i></p> <p><i>Presenters: Thomas Smith TLSmith Consulting, Inc.</i></p>	UTSA JPL Assembly Room 4.04.22
11:30-1pm	<p>Lunch</p> <p>Computational Research and Data Management <i>The NHERI site will give a demonstration of the site's capacities, current research, and instructions for grant and research use. EF representatives will also provide a hands-on demonstration to aid participants in a deeper understanding of the site's use.</i></p>	UTSA JPL Assembly Room 4.04.22
1:00-2:30pm	<p>An Interactive Guide to DesignSafe: A Cloud Based Research Platform Supporting the NHERI Community</p> <p><i>Presenters: Ellen Rathje and Charlie Dey</i></p>	UTSA JPL Assembly Room 4.04.22
2:30-4:00pm	<p>Using and Collaborating with the SimCenter to Accomplish Natural Hazard Research</p> <p><i>Presenters: Steve Mahin, Frank McKenna, and Laura Lowes</i></p>	UTSA Faculty Center Conference Room, JPL 4.04.16
4:00-5:30pm	<p>Using the RAPID Facility to Support Your Natural Hazards Research</p> <p><i>Presenters: Joe Wartman and Laura Lowes</i></p>	UTSA JPL Assembly Room 4.04.22

Day 3 – Wednesday, July 26, 2017
Early Career Faculty, Graduate Students, and Practitioners

Time	Description	Location
7:30-8:30am	Breakfast	Wyndham Garden Hotel
8:00-8:30am	Registration	UTSA JPL Assembly Room 4.04.22
	Experimental Research, NHERI Site(s) <i>The NHERI site will give a demonstration of the site's capacities, current research, and instructions for grant and research use. EF representatives will also provide a hands-on demonstration to aid participants in a deeper understanding of the site's use.</i>	
8:30-10:00am	Natural Hazards Engineering Research Infrastructure at Lehigh: Experimental Facility with Large-scale Real-time Multi-directional Hybrid Simulation Testing Capabilities <i>Presenter: James Ricles</i>	UTSA JPL Assembly Room 4.04.22
10:00-11:30am	NHERI Wall of Wind Experimental Facility <i>Presenter: Arindam Gan Chowdhury</i>	UTSA JPL Assembly Room 4.04.22
11:30am-12:30pm	Lunch	UTSA JPL Assembly Room 4.04.22
12:30-2:00pm	University of Florida – Terraformer Wind Tunnel and Full-Scale Destructive Testing Apparatuses for Wind Engineering Applications <i>Presenter: Forrest Masters</i>	UTSA JPL Assembly Room 4.04.22
2:00-3:30pm	Oregon State University – Directional Wave Basin and Large Wave Flume <i>Presenters: Dan Cox and Pedro Lomonaco</i>	UTSA JPL Assembly Room 4.04.22
3:30-5:00pm	University of California, Davis – GEO Centrifuge <i>Presenter: Mohammad Khosravi</i>	UTSA JPL Assembly Room 4.04.22

Day 3 – Wednesday, July 26, 2017
K-12 Teachers

Time	Description	Location
7:30-8:30am	Breakfast & Registration	UTSA College of Engineering Multi-purpose Room, BSE 2.102
8:30-10:00am	Welcome and Introductions <i>Participants will learn about the NHERI network, receive an overview of the Summer Institute objectives for K-12 teachers, and share their goals for the week.</i>	UTSA College of Engineering Multi-purpose Room, BSE 2.102
10:00-11:00am	TeachEngineering Lesson Planning <i>Teachers will receive an overview of the lesson planning components in TeachEngineering curriculum.</i>	UTSA College of Engineering Multi-purpose Room, BSE 2.102
11:00am-2:00pm	Working lunch – Zoom Meeting with REU Students <i>Teachers will meet with REU students to review the lesson plan created by REU students. They will work together to modify the lesson plan for the teachers' needs.</i>	VizLab
2:00-4:00pm	Lesson Planning using TeachEngineering templates <i>Teachers will continue to design a lesson to fit their students' needs. They will prepare to present the modified lesson by collecting materials and creating documents.</i>	UTSA College of Engineering Multi-purpose Room, BSE 2.102

Day 4 – Thursday, July 27, 2017
Early Career Faculty & Practitioners

Time	Description	Location
7:30-8:30am	Breakfast	Wyndham Garden Hotel
8:00-8:30am	Registration	UTSA JPL Assembly Room 4.04.22
	Experimental Research, NHERI Sites <i>The NHERI site will give a demonstration of the site's capacities, current research, and instructions for grant and research use. EF representatives will also provide a hands-on demonstration to aid participants in a deeper understanding of the site's use.</i>	
8:30-11:00am	NHERI@UTexas: Large Mobile Shakers for Natural Hazard Field Studies <i>Presenters: Kenneth Stokoe, Brady Cox, Patricia Clayton, and Farnyuh Menq</i>	UTSA Faculty Center Conference Room, JPL 4.04.16
11:00-12:30am	Ground Motion Scaling for NHERI@UC San Diego Shake Table <i>Presenters: Humberto Caudana, Joel Conte, Lelli Van Den Einde, and Gilberto Mosqueda</i>	UTSA Faculty Center Conference Room, JPL 4.04.16
12:30-1:30pm	Lunch	UTSA JPL Assembly Room 4.04.22
1:30-4:00pm	Educational & Community Outreach Design <i>Early career faculty and graduate students will work alongside K-12 educators to design appropriate educational component(s) for their grant project. They will also have a choice to collaboratively expand or extend a lesson created by the REU students and modified by the K-12 teachers.</i>	UTSA JPL Assembly Room 4.04.22

Day 4 – Thursday, July 27, 2017
K-12 Educators

Time	Description	Location
7:30-8:30am	Breakfast & Registration	UTSA JPL Assembly Room 4.04.22
8:30-10:00am	NHERI Career Panel <i>In an interactive session, teachers will learn about the various careers within the NHERI network. They will have the opportunity to plan a lesson with the NHERI panelists that engages their students in a discussion of NHERI careers.</i>	UTSA JPL Assembly Room 4.04.22
10:00-11:00am	Mobile Shaker Live Demonstration	Park West
11:00am- 12:30pm	Discussion: How can NHERI/Engineering professionals connect with the K-12 community?	UTSA JPL Assembly Room 4.04.22
12:30-1:30pm	Lunch	UTSA JPL Assembly Room 4.04.22
1:30-4:00pm	Educational & Community Outreach Design <i>Early career faculty and graduate students will work alongside K-12 educators to design appropriate educational component(s) for their grant project. They will also have a choice to collaboratively expand or extend a lesson created by the REU students and modified by the K-12 teachers.</i>	UTSA JPL Assembly Room 4.04.22

Day 5 – Friday, July 28, 2017

Time	Description	Location
7:30-8:30am	Breakfast & Registration	UTSA JPL Assembly Room 4.04.22
8:30am–12:00pm	Educational & Community Outreach Design <i>Teams of teachers, early career faculty, and graduate students will present sample lessons and model their teaching with the attendees. Attendees will evaluate and provide feedback on lesson objectives using TeachEngineering rubric(s).</i>	UTSA JPL Assembly Room 4.04.22
12:00-1:30pm	Lunch	UTSA JPL Assembly Room 4.04.22
1:30pm-4:00pm	Model Educational Projects, Assessments, and Reflection <i>Attendees will use the time needed to continue lesson presentations. The afternoon will conclude with a guided reflection of the week's experiences. Participants will evaluate the Summer Institute activities. Early career faculty and graduate students will present their next steps in the grant proposal writing and submission process. Teachers will share the next steps in curriculum development for their lesson(s).</i>	UTSA JPL Assembly Room 4.04.22