

## Council Annual Work Plan (AWP)

FY2017-2018 (Year 2)

As required in the 15-598 NSF Solicitation under Part C., the consensus-based annual Council work plan for Year 2 (FY2017-2018), for cross-Awardee activities and operational efficiencies, to make NHERI greater than the sum of the parts is presented herein. ***Each Awardee's scope identified in the Council work plan*** will be incorporated into its individual annual work plan, schedule, and NSF budget request for next year support. Examples of cross- Awardee activities include: (i) acquisition of shared facility instrumentation, (ii) development of software needed for operations by a subset of Awardees, and (iii) coordinated community outreach activities. This AWP is submitted to NSF for consideration and possible funding as additional support, either through an increase in the base budget or as a supplement, contingent upon annual appropriations for NSF and NSF approval for all Awardees as appropriate in accordance with the solicitation.

Table I identifies the activities in the Council Annual Work Plan for Year 2. The activities are linked in Column (1) of this table to a specific Awardee and its corresponding Level 2 element of the WBS. Column (2) identifies a NHERI wide Strategic Goal (Goal) such as: Leadership (LD), Research Support (RS), Education and Community Outreach (ECO). Column (3) identifies the key objective, and columns (4)-(8) describe the activity, budget, deliverable, milestone, and performance metric. Column (9) identifies the performance metric target; Column (10) identifies the expected outcome; and Column 11 reports status summary for purposes of quarterly progress reporting.

**Table I. Council AWP Activities**

(1) Awardee & WBS Level 2	(2) Goal	(3) Objective	(4) Activity	(5) Budget (total direct and indirect costs)*	(6) Deliverable	(7) Milest one Date	(8) Metric	(9) Target	(10) Outcome	(11) Status Summary
NCO- ECO	The following supplemental funding will support the NHERI strategic goals for Education and Community Outreach. The NHERI Education and Community Outreach Committee prioritized the goal as number one.	Building community and Research	All REU Students Travel to present summer research projects at a NHERI-REU research node.	\$18,250	Twenty-one REU students share experiences and lessons learned and build collaborations	August 2017	Number of students attending, Post-assessment evaluations	100% of REU participants, Majority ( <b>&gt;75%</b> ) of REU participants benefited from attending and presenting at the node site.	By funding student travel to present REU summer projects, students will be afforded the opportunity to come together and participate in the exchange of research between their peers at other equipment sites. This in turn will build community around research goals for NHERI and bring rising scholars to a new facility to network with students and engineering faculty. We will be able to gauge the success of the program through the analysis of the student evaluations at the end of the program as well as the judges' assessments for the presentations at the meeting.	

NCO-ECO	The following supplemental funding will support the NHERI strategic goals for Education and Community Outreach.	Building community	NHERI Graduate Student Council –organize NHERI-wide educational activities/competitions. Funding is used for an annual face-to-face meeting with one representative from each site.	\$15,750	10-20 NHERI graduate students (1-2 per site) compose the NHERI Graduate Student Council to bring leadership and leverage resources for graduate & undergraduate students across the 10 sites. The deliverable includes an innovative way to disseminate information to others within and outside of the NHERI community.	Dec. 2017	Number of activities coordinated, meetings held	At least 5 collaboratively-coordinated activities (student facility representatives work together to assess resources), at least 3 working meetings over telepresence	A NHERI-wide graduate student council will be charged to bring together student leaders to communicate across facilities and organize project presentations as well as combine resources to disseminate across the network. By supporting this initiative, the graduate student council would strategically be building community around students' educational resources and research agendas. The NHERI graduate student council would be evaluated by the number and type of activities coordinated throughout the year. We would like to note that the scope of this council should be limited to bringing resources and activities together that are already in place.	
NCO-ECO	The following supplemental funding will support the NHERI strategic goals for Education and Community Outreach.	Building community & Research	Special Conference Session/NHERI Network Conference – highlight NHERI research and educational activities. Funding is for travel of 10 early career faculty and 10 graduate students.	\$55,750	Conference meeting	August 2018	Workshop and event evaluations; student post-assessments (if student attendance is included)	Participants show benefit from attending NHERI conference workshops; participants have a stronger sense of a working community (including resources) after attending the meeting. If REU students are included, student post-assessments will demonstrate that students benefited from participation in the program.	The ECO Committee identified this supplemental funding request item as a priority for building community within the network. Attending a conference where NHERI resources and research projects could be highlighted would bring about greater community. Networking across engineering specialties would create community and lend itself to opportunities to collaborate and utilize research facilities with more ease. A potential collaboration with the REU student travel (item 1) would allow students to travel with their research mentors to present their work and engage in conversations as part of the larger NHERI community, potentially drawing more experienced students to graduate studies at the various sites. The program would be assessed using formative evaluations of workshops and events and through the analysis of student post-assessments and evaluations, if REU students are included.	
NCO-ECO	The following supplemental funding will support the NHERI strategic goal	Building community & Research	Technology Transfer Workshop	\$33,500	Report containing a review of results of key completed NEES projects and	Within the first 6-mo. of Year	Event evaluations; action items	Positive participant evaluations	Funding a Technology Transfer Workshop would bring together the multi-hazard community as well as help advance the research	

	Education, and Community Outreach. The NCO-ECO prioritize it as number two.			assessment of ongoing projects using NHERI with draft resolutions/strategies/timelines for possible implementation	2	resulting from the meeting	on the experience of collaborating with all facilities; action items resulting from the meeting should demonstrate collaboration between facilities	agenda for NHERI. A one-day workshop will help collect knowledge from the equipment sites. This project would be assessed using formative evaluation of the events during the one-day gathering.	

### \* Budget Justification

REU Students Travel to present summer research projects at a NHERI-REU research node: The budget covers travel support for at least 18 students at \$750 each, expected to participate in Year 1 of implementation of the REU experience in NHERI. It will also include \$1,000 for a working lunch, including a keynote talk by a distinguished NHERI participating faculty and/or practicing engineer. Travel support for the keynote speaker and faculty involved, plus miscellaneous supplies will amount to \$3,750.

NHERI Graduate Student Council: The budget covers travel costs for at least 10 students at \$1500 each, which allows them to come together once a year to network and share resources at a facility as well as take advantage of the opportunity to tour and learn about the research happening at that site. The Graduate Student Council may also request additional funds for up to \$750 to cover costs associated with a project they wish to deliver throughout the year to help disseminate NHERI resources to the greater community.

Special Conference Session/NHERI Network Conference: The budget covers facilities rental fees and associated costs of \$4,000 per day for a three-day conference session for the NHERI community, two luncheons at \$25 per person for 200 people, travel support totaling \$3,750 for two keynote speakers (one for each luncheon), and travel support at \$1500 each for 20 early career faculty and graduate students.

Technology Transfer Workshop: The budget covers travel support for 20 invited participants at \$1500 each, a working lunch estimated at \$25/person and \$3000 for miscellaneous expenditures including rental of meeting room.