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Outline

- Opportunities for Utilization of NHERI Lehigh
- Work Plan for NHERI Lehigh
 - Project Process
 - Pre-proposal Stage
 - Proposal Writing Stage
 - Post-Award Stage











Opportunities for Utilization of NHERI Lehigh

- NHERI Lehigh EF is available for utilization for projects funded through both <u>public</u> and <u>private</u> sources
 - NSF-funded projects that utilize NHERI Lehigh EF have specific costs that qualify for funding through one of the following sources:
 - NHERI Lehigh Operations and Maintenance budget
 - NSF-funded research project
 - Projects funded by all non-NSF sources are responsible for all costs associated with project budget



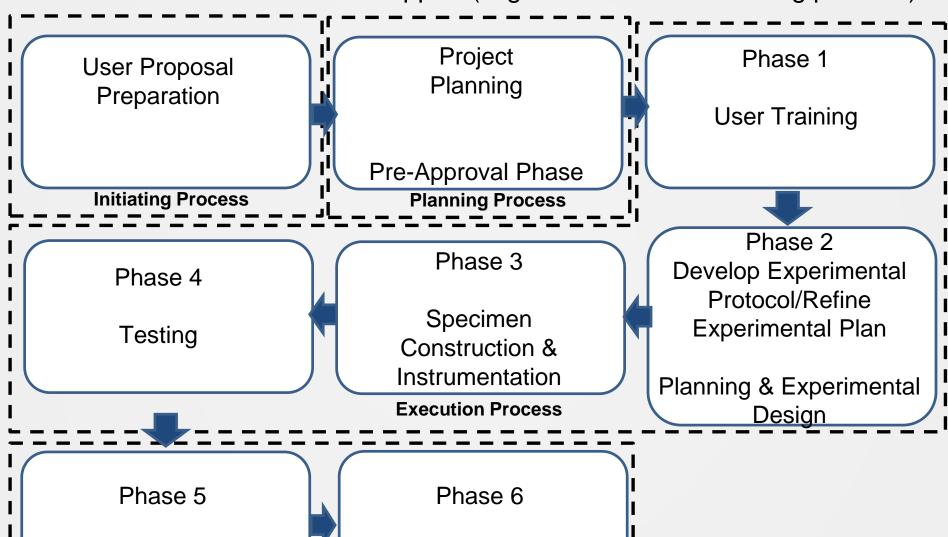








WBS Element 1.2 Researcher Support (aligns with NCO scheduling protocol)



Phase 5

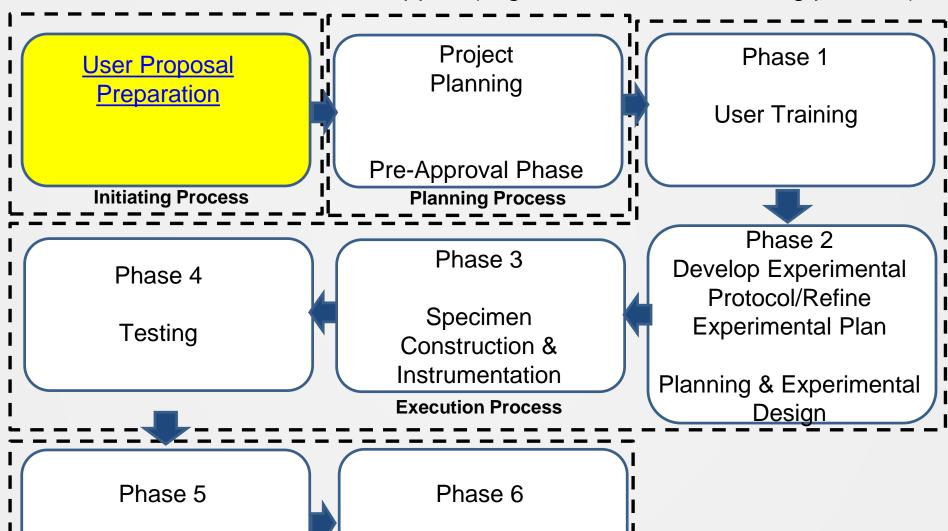
Upload Raw Data

Closing Process

Phase 6

Demolition

WBS Element 1.2 Researcher Support (aligns with NCO scheduling protocol)



Phase 5

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User Proposal Preparation

Pre-Proposal Stage

(1.1) Interactions with NHERI Lehigh EF



- (2.1) Research Plan
- (2.2) Facilities, Equipment, and Other Resources
- (2.3) Schedule
- (2.4) Budget
- (2.5) Data Management Plan











User Proposal Preparation

Pre-Proposal Stage

(1.1) Interactions with NHERI Lehigh EF

(1.2) Review NHERI Lehigh EF website



- (2.1) Research Plan
- (2.2) Facilities, Equipment, and Other Resources
- (2.3) Schedule
- (2.4) Budget
- (2.5) Data Management Plan











Pre-proposal Stage

- (1.1) Interactions with NHERI Lehigh EF to establish how facility can accommodate researcher needs
 - Primary Contact:
 - Chad Kusko Facility Operations Manager
 - Email: chk205@lehigh.edu
 - Important questions to consider at this stage:
 - What is the proposed testing idea and does the proposed idea fit within the technical capabilities of the NHERI Lehigh EF?
 - Does NHERI Lehigh EF have the necessary equipment/ instrumentation for the proposed idea?
 - To what solicitation (and for which deadline) will the proposal be developed?
 - What additional information is available for EF or is required from EF by researcher for proposal?











Pre-proposal Stage

- (1.2) Review NHERI Lehigh EF website
 - Questions for Pre-Proposal Stage
 - Checklist for Proposal Preparation





The following serves as a guide for questions/topics to consider and address during the proposal stage for utilization of the NHERI Lehigh RTMD Experimental Facility:

General questions to address:

- What is the proposed testing idea and does the proposed idea fit within the technical capabilities of the NHERI Lehigh EF?
- Does NHERI Lehigh EF have the necessary equipment/ instrumentation for the proposed idea?
- o To what solicitation (and for which deadline) will the proposal be developed?
- Can a schematic of the proposed test setup be provided to NHERI Lehigh EF for review and feedback?
- What additional information is available for EF or is required from EF by researcher for proposal?

Specific areas to address:

- Research Plan
 - Identify the items to be provided by researcher (with respect to utilization of facility)
 - What is the general plan of work envisioned, including broad design of activities to be undertaken at NHERI Lehigh EF?
 - Describe the experimental methods and procedures required by NHERI Lehigh

 EF
 - EF
 Is there a specific risk mitigation or safety strategy that should be considered?
 - Can a schematic of the proposed test setup be provided?
 Facilities, Equipment, and Other Resources
 - Items to be discussed with NHERI Lehigh EF (with respect to utilization of facility)
 - What resources are required of NHERI Lehigh EF?
 - Equipment?
 - Instrumentation?
 - Personnel?
 - . Does NHERI Lehigh EF have these resources?
 - Are the capabilities required of the NHERI Lehigh EF established or do they need to be developed?
 - Are there additional ATLSS resources required for this proposal?

Schedule

- What is the proposed time-frame envision for utilization of NHERI Lehigh EF
- resources?
- Equipment
- Instrumentation
- Physical space requirements (footprint in laboratory)
- Technical staff
 Budget
- What are the projected costs to:
 - Project Budget, including equipment use fees
 - NHÉRI O&M Budget
- Data Management Plan
 What are the proposer's plans for data management and sharing of the research
 - Types of data, samples, software, etc. to be used at NHERI Lehigh EF
 - The standards used for data and metadata format and content
 - · Plans for archiving data, samples, and other research products





The following serves as a checklist to follow during the proposal stage for utilization of the NHERI Lehigh RTMD Experimental Facility:

- □ Review the NSF Proposal and Award Policies and Procedures Guide
- Attend a researcher training workshop at NHERI Lehigh EF to become familiar with resources and capabilities of NHERI Lehigh EF
- Review NHERI Lehigh DesignSafe website (https://lehigh.designsafe-ci.org/resources/) to become familiar with resources, capabilities, policies, etc. associated with NHERI Lehigh EF, including review of the following files:
 - ATLSS Usage Rates for NSF NHERI Projects
 - o ATLSS Usage Rates for non-NHERI Projects
 - Responsibility of Costs
 - o Data Management Plan
 - o ATLSS Laboratory Safety Plan
 - NHERI Lehigh RTMD EF User's Guide
- On the NHERI Lehigh DesignSafe website, review the file entitled "Questions to Address at Pre-Proposal Stage" and develop answers for the identified questions/topics
- Communicate with NHERI Lehigh EF operational personnel to assess if facility accommodates researcher needs
 - Primary Conact: Dr. Chad Kusko, NHERI Lehigh Operations Manager, chk205@lehigh.edu or 610-758-5299











User Proposal Preparation

Pre-Proposal Stage

- (1.1) Interactions with NHERI Lehigh EF
- (1.2) Review NHERI Lehigh EF website



- (2.1) Research Plan
- (2.2) Facilities, Equipment, and Other Resources
- (2.3) Schedule
- (2.4) Budget
- (2.5) Data Management Plan









- Recommended steps for the researcher developing proposal:
 - Review NSF Proposal and Award Policies and Procedures Guide (PAPPG 18-1)
 - Chapter II: Proposal Preparation Instructions
 - Review NHERI Lehigh EF Facility User's Guide
 - Communicate with NHERI Lehigh EF
 - Chad Kusko Facility Operations Manager
 - Email: chk205@lehigh.edu
- Important Information to be discussed with NHERI Lehigh EF:
 - (2.1) Research Plan
 - (2.2) Facilities, Equipment, and Other Resources
 - (2.3) Schedule
 - (2.4) Budget
 - (2.5) Data Management Plan











- (2.1) Research Plan
 - Items to be provided by researcher (with respect to utilization of facility)
 - General plan of work envisioned, including broad design of activities to be undertaken at NHERI Lehigh EF
 - Description of experimental methods and procedures required by NHERI Lehigh EF
- (2.2) <u>Facilities</u>, <u>Equipment</u>, and <u>Other Resources</u>
 - Items to be discussed with NHERI Lehigh EF (with respect to utilization of facility)
 - What resources are required of NHERI Lehigh EF?
 - Equipment?
 - Instrumentation?
 - Personnel?
 - Does NHERI Lehigh EF have these resources?
 - Are the capabilities required of the NHERI Lehigh EF established or do they need to be developed?
 - Are there additional ATLSS resources required for this proposal?
 - NHERI Lehigh EF can provide information on EF as requested











- (2.3) Schedule
 - What is the proposed time-frame envision for utilization of NHERI Lehigh EF resources?
 - Equipment
 - Instrumentation
 - Physical space requirements (footprint in laboratory)
 - Technical staff
- (2.4) Budget
 - NHERI Lehigh EF Operations and Maintenance budget could be used to support qualified costs
 - NSF-funded projects that utilize NHERI Lehigh EF have specific costs that qualify for funding through one of the following sources:
 - NHERI Lehigh Operations and Maintenance budget
 - NSF-funded research project
 - Projects funded by all non-NSF sources are responsible for all costs associated with project budget











- (2.4) Budget
 - Where can you find information on budgeting at NHERI Lehigh EF?
 - NHERI Lehigh EF Rate Schedules (for <u>NSF-funded</u> and <u>non-NSF funded projects</u>)
 - Provides use fee rates to utilize NHERI Lehigh EF equipment and instrumentation and other ATLSS (non-NHERI) equipment and instrumentation
 - Provides NHERI Lehigh EF personnel rates
 - NHERI Lehigh EF Responsibility of Costs
 - Assigns costs for NSF funded projects to either the NHERI Lehigh EF or the NSF-funded research project
 - Contact NHERI Lehigh Operations Manager with questions or for additional information
 - Chad Kusko, chk205@lehigh.edu
 - · Lehigh University audited indirect cost rate
- (2.5) <u>Data Management Plan</u>
 - What are the proposer's plans for data management and sharing of the research products?
 - Types of data, samples, software, etc. to be used at NHERI Lehigh EF
 - The standards used for data and metadata format and content
 - Plans for archiving data, samples, and other research products



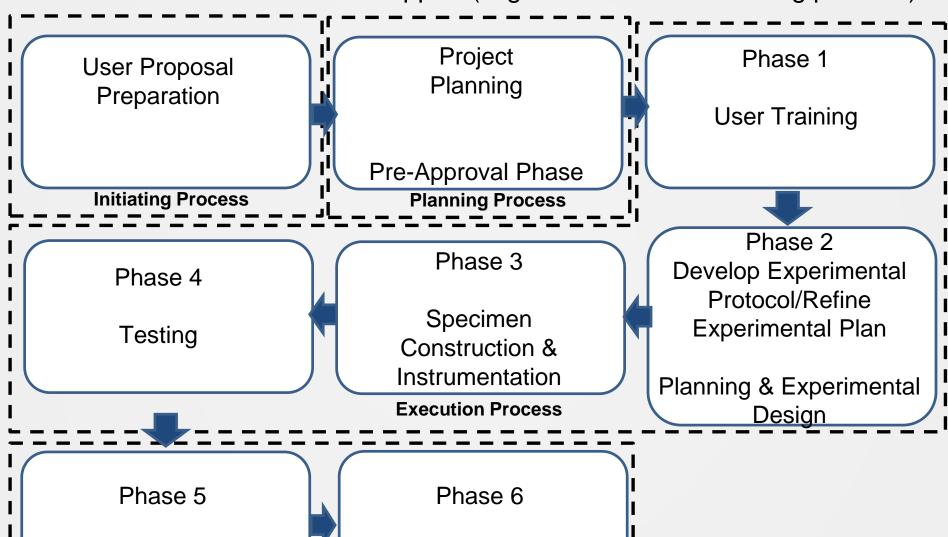








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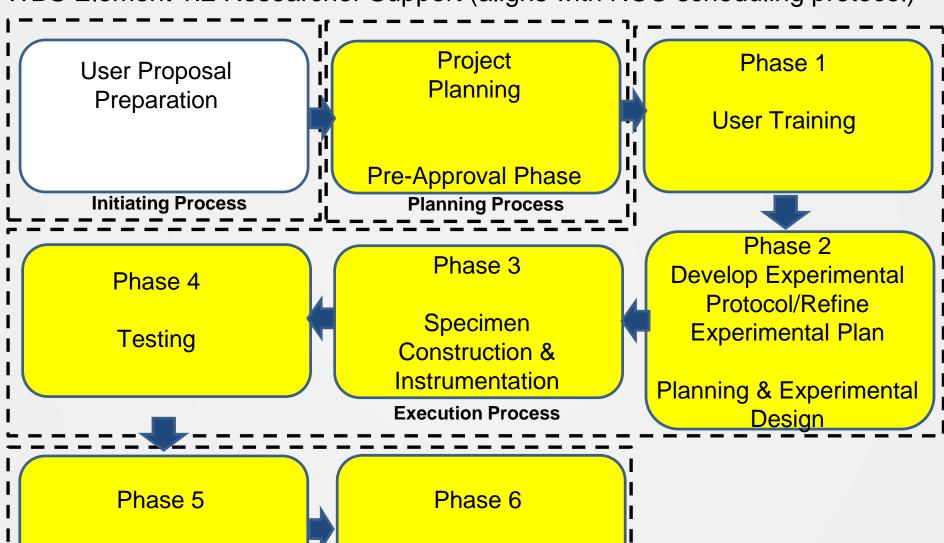
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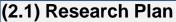
Proposal Process

Pre-Proposal Stage

(1.1) Interactions with NHERI Lehigh EF



Proposal Writing Stage



- (2.2) Facilities, Equipment, and Other Resources
- (2.3) Schedule
- (2.4) Budget
- (2.5) Data Management Plan



- (3.1) Researcher Agreement & Site Utilization Forms
- (3.2) Researcher Training
- (3.3) Scheduling of Testing
- (3.4) Execution of Testing
- (3.5) Post-Test Data Archiving











- (3.1) Compliance Documentation and Site Utilization Forms
 - NHERI specific requirements being developed and finalized
 - For NHERI, these are expected to include:
 - Equipment Facilities Policy Compliance Check (ESPCC)
 - To be completed by an equipment facility representative, with supporting information provided by the researcher. The ESPCC assures policy compliance with respect to:
 - · experimental feasibility,
 - · safety,
 - budget,
 - schedule, and
 - data.
 - Site Utilization Request Form (SURF)
 - Outlines key terms associated with the project
 - This form would be an agreement between equipment site(s), researcher, and NHERI











- (3.1) Experimental Site Utilization Form:
 - Project information/Summary
 - Summary of Facility Requirements
 - Description of planned experiments
 - Description of experimental site resources needed
 - Scheduling for experimental site usage
 - Description and scope of special experimental site services needed
 - Project-specific risks and safety issues and associated mitigation plans
 - Roles and responsibilities for facility and researcher
 - Data Sharing and Archiving plan











- (3.2) Researcher Training
- (3.3) Experimental Test Plan/Scheduling of Testing
 - Experimental Test Plan (ETP)
 - Detailed document that outlines specific testing to be done at EF
 - · Project scope (details of specimens, fabrication location, erection, instrumentation, data acquisition, testing plans, and demolition)
 - Detailed list of equipment, # of days of equipment site use, for entire duration of experimental activities
 - Project-specific safety requirements
 - Anticipated project schedule (for specimen construction, installation, testing, raw data upload, and demolition)
 - NHERI Lehigh EF will work with ATLSS Center staff for coordinating the schedule of research project
 - Resources assigned based on critical milestones of respective projects in order to maximize efficiency of laboratory operations
 - NHERI Lehigh Operations Manager will report schedule to the NCO Facility Scheduling Group for integration into overall NHERI facilities schedule
- (3.4) Execution of Testing
 - NHERI Lehigh EF will provide support for experimental preparation within the laboratory and operate equipment in order to complete testing in collaboration with research team
- (3.5) Post-Test Data Archiving
 - NHERI Lehigh IT Manager will provide assistance to researchers with data management, including data backup on local repository and data upload to NHERI repository



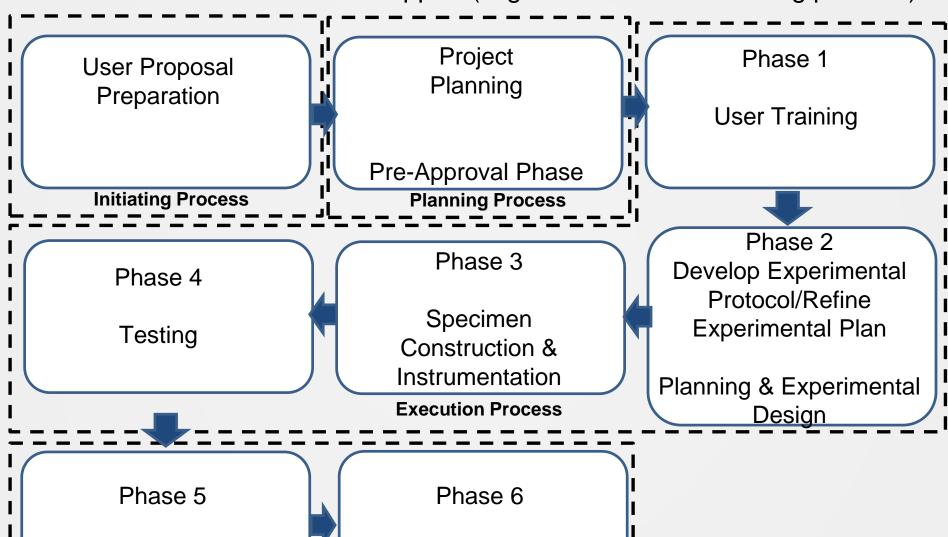








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