

Site Access Plan

Type of Activity	Facilities	Participants	Specifications/Limitations
Submission of proposal for use of MUST-SIM facility	NEES Consortium Review Panel	NEES Consortium	<ul style="list-style-type: none"> NEES Consortium is expected to review and approve proposals; consultation with Ops Manager on site capabilities and site availability are welcome.
Site Scheduling	MUST-SIM site	Operations Manager	<ul style="list-style-type: none"> Only proposals approved by the NEES Consortium will be normally be considered. Scheduling an experiment is anticipated to be a multi-step process including training, simulation, pre-experiment checkout, and actual experiment time (see site access procedure).
Access to the Lab during the execution of the tests (shared-use) and during non-operational time	NSEL Laboratory – MUST-SIM site	MUST-SIM staff and external researchers, students, and staff	<ul style="list-style-type: none"> MUST-SIM staff must be properly trained. External researchers, student, and staff must receive training to use the MUST-SIM facility; prior to receiving appropriate training, they must be accompanied by a qualified technician. Safety equipment must be available and worn.
Access to student shop facilities	NSEL Laboratory	External Researchers, students, visitors	<ul style="list-style-type: none"> All users of the student shop must be trained by qualified NSEL Laboratory personnel.
Education and training using computer simulation	MUST-SIM Computational Simulator	All researchers and students wishing to conduct experiments at the MUST-SIM facility	<ul style="list-style-type: none"> A computational simulator that can emulate the salient features of the MUST-SIM LBCBs. Provides an essential tool for education and training. Facilitate a deeper understanding of the capabilities of the MUST-SIM facility. Can be used at the conceptual phase to assess feasibility of proposed experiments.
Education and training using physical simulation	MUST-SIM 1/5th- Scale Physical Simulator	All researchers and students wishing to conduct experiments at the MUST-SIM facility	<ul style="list-style-type: none"> A 1/5th-scale strong wall and several 1/5th-scale LBCBs that replicate the behavior of the full-scale LBCBs are available. Provides an important education and training tool. Facilitate a deeper understanding of the capabilities of the MUST-SIM facility. Can be used to assess feasibility of experiments.
Pre-experiment check-out Procedure	Computational and scale models of the MUST-SIM Facility	All researchers wishing to conduct experiments at the MUST-SIM facility	<ul style="list-style-type: none"> A two-stage checkout process must be followed prior to having an experiment schedule at the MUST-SIM Facility: <ul style="list-style-type: none"> A proposed experimental concept must be demonstrated using the MUST-SIM computational simulator A proposed experiment must be mocked up using MUSTSIM 1/5th-Scale Physical Simulator At the completion of the pre-experiment check-out procedure, the design of an experiment can be submitted to the Op Manager for compliance and scheduling. Experiments deemed to be unusual by the Op Manager will be referred to the MUST-SIM Executive Committee.

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On-line training courses and manuals	Internet-based education and training materials on the MUST-SIM Web Site	All researchers and students wishing to conduct experiments at the MUST-SIM	<ul style="list-style-type: none"> ▪ All potential users of the MUST-SIM facility must successfully complete the online course and receive certification by the MUSTSIM training personnel. ▪ Site access plan and procedures must be stated and followed. ▪ Safety rules and instructions, as well as evacuation in case of dangers and hazards, will be presented. ▪ Computer will be available for on-line training in the MUST-SIM Room.
Preparation of the samples, pre-calibration of the experiments	NSEL Student and Instrumentation Laboratory	All researchers and students wishing to conduct experiments at the MUST-SIM	<ul style="list-style-type: none"> ▪ The student and instrumentation workshop will be available Mon-Fri (8 am – 4 pm) to students and external researchers. ▪ Available instrumentation and devices will be accessible to researchers for MUST-SIM activities. ▪ A safety and instruction course (3 hours) will be provided to the researchers and must be completed prior to the use of the facility. ▪ The shop manager will be responsible for permissions, access, use, etc.. ▪ An area of the MUST-SIM Lab will be assigned to the research unit for storage, preparation of the samples and pre-calibration of the personal instrumentation (operational time restricted to university business hours only).
Data acquisition and analysis; metadata and repository training	NSEL Laboratory and NEES room	All researchers and students wishing to conduct experiments at the MUST-SIM	<ul style="list-style-type: none"> ▪ Specific PC acquisition systems will be provided for the experiments, but devoted to data acquisition and storage. ▪ The NEES room servers cannot be used as instruments for data analysis. ▪ NEES computers will be available for data repository and transition of the sampled records to NEES data and metadata formats (appropriate training will be available). ▪ External researchers should consider the use of a personal computer, owned by the direct investigator, for the data processing and subsequent analysis of the results.
Open-house days	NSEL Laboratory – MUST-SIM facility and MUST-SIM room	General Public	<ul style="list-style-type: none"> ▪ The Senior Lab Assistant 1 will present the facility and its characteristics, including physical simulations and demonstrations. ▪ Brochures and lab manuals will be available.