

# How to Describe a Proposed Experiment

The description of a proposed experiment should include both the required equipment and the type of testing that is planned for the experiment. Items that need to be discussed in these two categories are discussed below.

## **1. Required Equipment**

The nees@UTexas equipment includes: (1) three mobile shakers that have diverse force and frequency capabilities and a tractor-trailer rig to move the two largest shakers to and from field sites, (2) an instrumentation van that houses state-of-the-art data acquisition systems and a satellite link-up, (3) a large collection of field instrumentation that includes wired and wireless sensors that measure vibrational motion and pore water pressure, and (4) telepresence capabilities that allow for remote participation in field experiments. Detailed descriptions of the equipment can be found at <http://nees.utexas.edu/equipment.htm>.

Experiment proposal should include a detailed list of equipment that is needed for the experiment.

## **2. Type of Testing**

The experiment proposal should include a 1-page write-up that discusses the types of testing that are planned for the experiment. This 1-page write-up should include:

1. the type of force output from the shaker, e.g. frequency range, direction of vibration, and force level.
2. the type(s) of recording system are planned to be used (e.g., VXI 72-channel analyzer, Sercel system, and/or user's own data acquisition system.)
3. maps of all shake locations and required vibration time at each shake location.
4. the type of communication required between the shaker and the recording system(s).