**Shake Table Testing Student Job Description** 

The U.S. Army Corps of Engineers, Engineer Research and Development Center – Construction Engineering Research Laboratory (ERDC-CERL) conducts numerous shake table tests. Critical

equipment that must remain functional following a large earthquake is tested for private firms. Building models and other non-structural components are tested for DOD agencies. Both

undergraduate and graduate students are needed to prepare for, conduct and process data for

shake table tests. Their duties will include:

1) Process shake table test data including generating transfer functions and response spectra

using Matlab.

2) Help with test set-up including assisting CERL staff with instrumentation.

3) Design test fixtures, including finite element analysis of fixtures and preparation of

fabrication drawings.

4) Edit video of testing.

5) Other tasks defined by ERDC-CERL.

Most of this work will be done at ERDC-CERL, using computers supplied by CERL, and some

may be done on campus if approved by the supervisor.

Graduate students typically work 50% time (20 hours per week)

Undergraduate students typically work 25% time (10 hours per week)

The ideal student would be a senior with an emphasis in structural engineering who plans to

continue for a MS at UIUC, but other students should apply.

Students must be U.S. Citizens

For more information or to apply contact:

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