Accuracy assessment of capacity prediction models for concrete/masonry structures

PROJECT DESCRIPTION

Predictive capacity models in the current structural engineering practice are developed to be on the conservative side for the design purposes. They are thus deterministic models with a single value prediction. However, in the context of reliability analysis, the model inaccuracy or uncertainty needs to be accounted for. This calls for probabilistic predictive capacity models to satisfy the needs of modern structural engineering practice. Thus low-accuracy models needs to be statistically validated with data observed from high-accuracy (accurate) models or experimental tests.

FACULTY-DEPARTMENT

Engineering - Civil and Environmental

OPEN TO STUDENTS FROM THE FOLLOWING INSTITUTIONS

Chinese universities participating in the *Double First-Class Initiative*.

DESIRED FIELD OF STUDENT STUDY

Programming, probability, Finite element program (e.g., OpenSees), concrete/masonry structures

INTERNSHIP LOCATION

Edmonton Campus

NUMBER OF INTERNSHIP POSITIONS

1

INTERNSHIP DATES

Start: July 2, 2019

End: October 2, 2019

ARE THE DATES FLEXIBLE?

Yes, I am flexible regarding the internship dates. Selected students can contact me to request a date change.