

Reliability Assessment of Structures with Deterioration

PROJECT DESCRIPTION

This project is aimed to apply well-established probabilistic methods to engineering structures (e.g., pipelines, power transmission line towers, buildings, bridges) with uncertain defects and/or load effects. The project mainly consists of two parts, the nonlinear finite element simulation and the reliability assessment using existing tools. In this project, students who are good at computer programming (e.g., Python, MATLAB, C++) can work on the implementation of new tools.

FACULTY-DEPARTMENT

Engineering - Civil and Environmental Engineering

DESIRED FIELD OF (STUDENT) STUDY

Structural mechanics, or probability and statistics, and/or experience in programming and FE software

INTERNSHIP LOCATION

University of Alberta Main Campus - Edmonton

NUMBER OF INTERNSHIP POSITIONS

2

INTERNSHIP START DATE

July 4, 2018

INTERNSHIP END DATE

October 3, 2018

ARE THE DATES FLEXIBLE?

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

Contact: Brendan Cavanagh, Internship Coordinator (Inbound)
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