

Master thesis

Development of a probabilistic model for brittle fracture prediction



Kiwa Inspecta

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Master thesis

The master thesis builds upon an ongoing research project, where Kiwa Inspecta Technology AB, KTH and VTT Finland are involved. The research project aims to further investigate the effect that load history has on brittle fracture. A probabilistic model, which predicts the risk of brittle fracture, has been created by Faleskog et al. This probabilistic model has been numerically implemented in python and fortran. The aim of the master thesis is to investigate and further develop certain functions in the probabilistic model. The master thesis will also include finite element modelling and programming in python.

The master thesis will be supervised by two employees from Kiwa Inspecta Technology AB.

The master thesis will be economically compensated.

Application

Apply by email, grades and CV attached, to alexander.eriksson@kiwa.com and tobias.bolinder@kiwa.com

Merits:

- Experience and interest in numerical calculation with finite element models.
- A general interest in mechanics and solid mechanics.
- An interest in fracture mechanics
- An interest in programming