

**Topic/Title**

Fenotyper med høy gjennomstrømning av fôrinntak ved bruk av røntgenbilder av laks

**Topic/Title**

High throughput phenotyping of feed intake using Xray images of Atlantic salmon



**Summary**

Feed efficiency is a key goal for more profitable and sustainable Atlantic salmon farming. One of the bottle necks is recording how much each individual salmon eats. A method which has recently been revived using new technology is to include radio opaque beads in the feed, then Xray salmon after feeding and count the number of beads in the digestive tract. Image analysis tools are currently available for this method but still require time to analyse. In this project the candidate will work with training and evaluating deep learning methods for rapid counting of beads in Xrays.

**Subject area**

Phenomics, Image Analysis, Feed intake, Deep learning

**Language thesis**

English

**Bachelor or Master thesis**

Master thesis

**Credits**

30 or 60 credits depending on top candidates needs

**Project/company**

Collaboration between NOFIMA and NMBU

**Please contact**

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