# Mechanical Characterization of Dental Biomaterials

## Project Description

Our research group focuses extensively on understanding the mechanical response of natural (e.g. periodontal ligament and cranial suture tissues) and synthetic (e.g. ceramics for dental crowns and resin-based composite dental filler materials) biomaterials under applied loading. Specifically, we are interested in developing a fundamental link between biomaterial structure and their response to application-based mechanical loading. Our current emphasis is on understanding how chair-side manufacturing techniques effect the mechanical strength of ceramic materials used for dental restorations; however, candidates are welcome to express interest in other areas of dental biomaterials suggested above.

## Faculty-Department

Faculty of Engineering - Mechanical Engineering

## Open to Students From the Following Institutions

Chinese universities participating in the [Double First-Class Initiative](#).

## Desired Field of Student Study

Training in Mechanical or Materials (or equivalent) Engineering is heavily preferred.

## Internship Location

Edmonton Campus

## Number of Internship Positions

One

## 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.