

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 developed 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 effects 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.