Design of next-generation lightweight materials for personal and vehicle protection

PROJECT DESCRIPTION
In this research project, students will focus on understanding the deformation and failure mechanisms that govern the dynamic behavior of materials used in protection applications. Materials of interest include, but are not limited to, advanced and transparent ceramics, glasses, foams, polymers, composites, and structural and light-weight metals. Students will conduct independent research towards testing and modelling the behavior of materials, and will disseminate these results through presentations and publications. Students will interact with government and industry partners.

FACULTY-DEPARTMENT
Engineering - Mechanical Engineering

OPEN TO STUDENTS FROM THE FOLLOWING INSTITUTIONS
Chinese universities participating in the Double First-Class Initiative.

DESired FIELD OF STUDENT STUDY
Mechanical Engineering; Material Science; Rock Mechanics; Experimental Mechanics; Computational Mechanics; Design

INTERNSHIP LOCATION
Edmonton Campus

NUMBER OF INTERNSHIP POSITIONS
3

INTERNSHIP DATES
Start: July 2, 2019
End: Oct 2, 2019

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