

# Shear strength of partially grouted masonry walls

## PROJECT DESCRIPTION

Masonry walls are a durable and efficient loadbearing system -- masonry is long-lasting and architecturally pleasant. A good designer knows how to engineer the concrete blocks, steel reinforcement, and mortar to create strong, stiff structural elements -- however, a particular type of masonry (partially grouted shear walls) is still little understood. The interaction between block, rebar, and grouted cores is complex due to the anisotropic behaviour of the masonry. Our research group is interested in exploring this problem, and if we are successful we will develop a safe, durable, and economic construction alternative that is also good for environment.

## FACULTY-DEPARTMENT

Engineering - Civil and Environmental Engineering

## OPEN TO STUDENTS FROM THE FOLLOWING INSTITUTIONS

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

## DESIRED FIELD OF STUDENT STUDY

Civil Engineering

## INTERNSHIP LOCATION

Edmonton Campus

## NUMBER OF INTERNSHIP POSITIONS

2

## 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.