

Materials Discovery in Inorganic Solid State Chemistry

PROJECT DESCRIPTION

Our research group focuses on synthesizing new inorganic solids (such as intermetallic compounds, pnictides, and chalcogenides) which form the basis of many technological applications including thermoelectric materials, ferromagnetic semiconductors, and nonlinear optical materials. Experimental methods include high-temperature reactions, X-ray diffraction, spectroscopy, physical property measurements, and quantum calculations. To complement traditional approaches for materials design, we are also implementing machine-learning methods to accelerate materials discovery.

FACULTY-DEPARTMENT

Science - Chemistry

OPEN TO STUDENTS FROM THE FOLLOWING INSTITUTIONS

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

DESIRED FIELD OF STUDENT STUDY

Chemistry, or Materials Science and Engineering

INTERNSHIP LOCATION

Edmonton Campus

NUMBER OF INTERNSHIP POSITIONS

1

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.