

# Microfluidics for Bio-Applications

## PROJECT DESCRIPTION

In this project, several bio-applications using microfluidic devices will be carried out. In particular, trajectory and dynamics of small particles of a few microns will be experimentally investigated using microfluidic channels that mimicking human's lung structures. The objective is to record and understand the detailed dynamics of different particles and fluids in "lung" or channels, by using high speed imaging and microscope.

## FACULTY-DEPARTMENT

Engineering - Mechanical Engineering

## DESIRED FIELD OF (STUDENT) STUDY

Physics; Mechanical Engineering; Chemical Engineering

## INTERNSHIP LOCATION

University of Alberta Main Campus - Edmonton

## NUMBER OF INTERNSHIP POSITIONS

2

## INTERNSHIP START DATE

July 4

## INTERNSHIP END DATE

October 3

## ARE THE DATES FLEXIBLE?

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