

# Reproducible Research in Chemical Engineering (Sharing Data and Code)

## PROJECT DESCRIPTION

"There are many good reasons to share the code and data associated with a scientific paper. We want to show that in the context of open source, researchers like our group can benefit from enhancement of their reputation and that of their potential value on the labor market. In the 21 century the availability of data and codes is related not only to the reproducibility issue but also to the dissemination and exploitation of academic research. Having access to such resources improves the visibility of our articles and their impact on both scientific community and nonacademic sphere. Therefore, we are looking in the motivated students who will have necessary background to develop with us web based interface for research and publication flow with integration of reusable code and data structures. What we mean by this is that, we want to build reusable and encapsulated modules of code in python which can be translated to (latex, pdf, html) and which can interactively include the code and data in its structure. Students will be expected to develop the workflow and fully automated platform for the reproducible research results generation in chemical and materials engineering setting."

## FACULTY-DEPARTMENT

Engineering - Chemical and Materials

## DESIRED FIELD OF (STUDENT) STUDY

Computer science, Electrical engineering, automation, Statistics, software engineering

## INTERNSHIP LOCATION

University of Alberta Main Campus - Edmonton

## NUMBER OF INTERNSHIP POSITIONS

2

## INTERNSHIP START DATE

Flexible

## INTERNSHIP END DATE

Flexible

Contact: Brendan Cavanagh, Internship Coordinator (Inbound)  
University of Alberta International  
intern@ualberta.ca

## ARE THE DATES FLEXIBLE?

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