## Reproducible Research through Python Code Integration

### PROJECT DESCRIPTION

Take existing analysis and convert from Matlab to Python. Embed Python as Code blocks in Org Mode. The exact analysis could be from a variety of areas including control systems, combustion analysis, fluid mechanics etc. depending on the background of the student. The code produced will be then used as a template for many other applications.

### FACULTY-DEPARTMENT

Engineering- Mechanical Engineering

### DESIRED FIELD OF (STUDENT) STUDY

Knowledge of Python, Latex, GIT and Matlab is required. Familiarity with Linux, EMACS and ORG Mode desirable.

### INTERNSHIP LOCATION

University of Alberta Main Campus - Edmonton

### NUMBER OF INTERNSHIP POSITIONS

1

### INTERNSHIP START DATE

January 8, 2018

### INTERNSHIP END DATE

12 weeks after start date

### ARE THE DATES FLEXIBLE?

Yes