

## INTERNSHIPS FOR CREDIT WITH CULTURAL ENRICHMENT

**Build Your Resume/CV** During the Fall Semester!

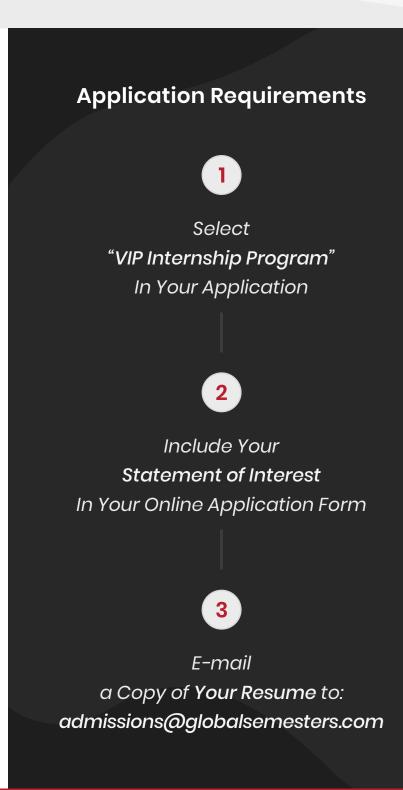
## **Research Internship Projects**

- Evaluation of pyPENELOPE for the Simulation of Coupled Electron-Photon Transport in X-Ray Tubes
  - Perform computer simulations and compare results with published data on X-Ray Tube energy spectrums.

Requirements: Requirements: Background in Physics and/or Engineering will be needed. Knowledge of Particle Physics or Nuclear Physics will be an advantage.

- (A) Modelling Fluid Driven Fractures with Finite Elements
  - Assistance in Modelling. Help will be provided by the supervising faculty member.

Requirements: Engineering, Physics, Mathematics — BSc 3rd Year or Higher, MSc Any Year, PhD. The background suffices and no prerequisite is required.



## (B) Cap Integrity Analysis after CO2 Sequestration with CFD

- Assistance in Modelling. Help will be provided by the supervising faculty member.

**Requirements:** *Engineering, Physics, Mathematics* — BSc 3rd Year or Higher, MSc Any Year, PhD. The background suffices and no prerequisite is required.

## (c) Wellbore Erosion Modelling with Finite Elements

- Assistance in Modelling. Help will be provided by the supervising faculty member.

**Requirements:** *Engineering, Physics, Mathematics* — BSc 3rd Year or Higher, MSc Any Year, PhD. The background suffices and no prerequisite is required.