![University of Nicosia | Global Semesters]

SCIENCE & ENGINEERING

Credit-Bearing Research Project Internships

PROGRAM TERM
Spring 2022

Build Your Resume/CV During the Spring 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.*