Project Details:

Host Institution: University College Dublin (UCD)
Location: Belfield, Dublin 4, Ireland
College/Company: College of Engineering & Architecture
School/Unit: School of Mechanical & Materials Engineering
Website: https://www.ucd.ie/mecheng/

Project Lead:
Name: Dr Eoin O’Cearbhaill
Email Contact: eoin.ocearbhaill@ucd.ie
Telephone Contact +353 1 716 1715

Project Title:
3D Printing of Medical Devices

Brief Project Description:
Dr Eoin O’Cearbhaill and his team at the UCD Medical Device Design Group are developing new and innovative ways to make cost-effective, efficient and often highly personalised medical devices to help us to monitor health, deliver life-saving medicines and to support the body as it repairs after injury. The student will focus on the design and 3D printing of medical devices using in-house 3D printing facilities and subsequently subject them to appropriate mechanical testing and performance evaluation. Please visit mdd.ucd.ie for further details.

Project Dates:
From the end of May to August (specific dates and weekly hours can be agreed between the PI and the student directly over a 10-week period).

Candidate Requirements:
The candidate(s) should have a sound background in mechanical engineering, chemical engineering or material science preferable and in mathematical optimisation, information theory, linear algebra, and good programming skills in any language.