Faculty of Engineering  
Summer Research Program 2019-2020

Project Title: Implementation of super-hydrophobic surfaces for drag reduction applications

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Objectives

- Fabricate nano-engineered surfaces with super-hydrophobic properties  
- Develop methods for the transfer of nano-engineered surfaces to non-flat objects  
- Test drag reduction properties of such surfaces under flow conditions

Project Details

In this project you will have the opportunity to explore the interface between engineering, technology and fluid mechanics. Micro and nanotechnology processes will be used to fabricate polymeric substrates with super-hydrophobic properties. These surfaces will be implement over non-flat objects and tested for drag reduction.

Prerequisites

Students should have interest and ideally a basic knowledge on manufacturing technologies, polymer materials and fluid mechanics. Ideally, they would have completed MEC3010.

Additional Information

Applicants may be required to attend an interview (in person or via skype).
Different nanoengineered surfaces