

Faculty Mentored Internships

IE 399 Summer Practice Project Proposal Form

Faculty Information

Name: Osman Alp

e-mail: osman.alp@ucalgary.ca

Company: University of Calgary, Haskayne School of Business

Position: Associate Professor

Proposed Project Information

Project Title: Algorithm development and testing for a joint sizing problem of battery storage and renewable energy technologies in stand-alone distributed grids

Planned Start Date: 27 July 2020

Planned End Date: 28 August 2020

Project Overview: We are looking for one student intern for about 160 hours of work to develop an algorithm to determine the optimal solution of an assigned mathematical optimization model. The model is based on a finite-horizon, discrete-time dynamic program, and the student is expected to code an algorithm that can successfully solve a reasonably-sized problem by iterating its value function.

The student will report to two faculty members overseeing the research project (Osman Alp and Serasu Duran). In addition to the final written report, there will be regular weekly meetings with the student to follow up on the progress.

This project is especially suggested for students wishing to pursue an academic graduate degree. Interested students should send their latest CV, unofficial transcript, and 1-2 paragraphs explaining their coding background (to both faculty, at osman.alp@ucalgary.ca, serasu.duran@haskayne.ucalgary.ca).