

# THE ENGINEERING INNOVATION CENTRE

## ENGINEERING SUMMER ACADEMY

July - August - September 2018

School of Engineering, University of Central Lancashire, Preston, PR1 2HE, UK.

### Programme 4: Fuel Efficient Vehicles

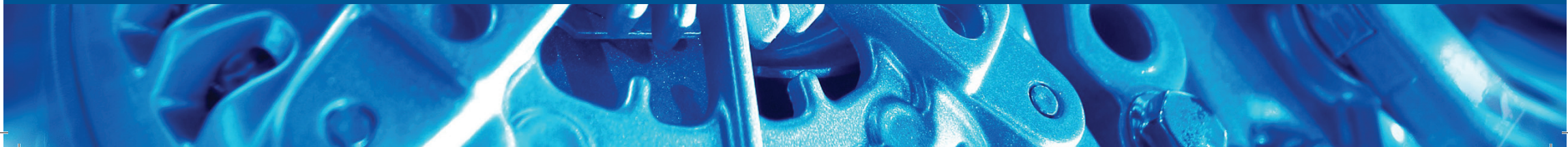
**Date:** 22 July - 4 August 2018

**Fee:** £1,000 including Accommodation

Summer School Programmes focus on engineering activities that allow engineering students to practice the topic area of each programme and develop their skills. All programmes include lectures, tutorials, and an engineering challenge project. This programme is a non-credit bearing activity.

**For further information and booking enquiries:**

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## SUMMER SCHOOL PROGRAMME 4: FUEL EFFICIENT VEHICLES    **DATE:** 22 JULY - 4 AUGUST 2018

### PROGRAMME AIMS:

This programme will focus on the technology surrounding Fuel Efficient Vehicles and how vehicles of the future may be powered to conserve energy and reduce emissions. The programme will involve working with a Fuel Efficient Car designed and manufactured at UCLan. All attendees will have the opportunity to work on elements of the car to help develop and improve its fuel efficiency.

### TOPICS COVERED:

- Introduction to Fuel Efficient Vehicles
- Vehicle Energy Sources including Hybrid Systems
- Design and the use of CAD and CFD
- Alternative Efficient Engine Cycles
- Engine Dyno Testing
- Fuel and Ignition Mapping
- Vehicle Testing

**FEE: £1,000** includes accommodation (en-suite room), three trips to local sites, and group transfer from Manchester Airport. Fee does not cover visa, flights, insurance, food, and local travel. Accommodation booking should be made before 1 April 2018.

**Fee:** *£1,160 includes extra one week accommodation (en-suite room).*  
*£1,320 includes extra two weeks accommodation (en-suite room).*

