



Loughborough
University

School of Aeronautical, Automotive, Chemical and Materials Engineering (AACME)

Thomas Steffen
Senior Lecturer

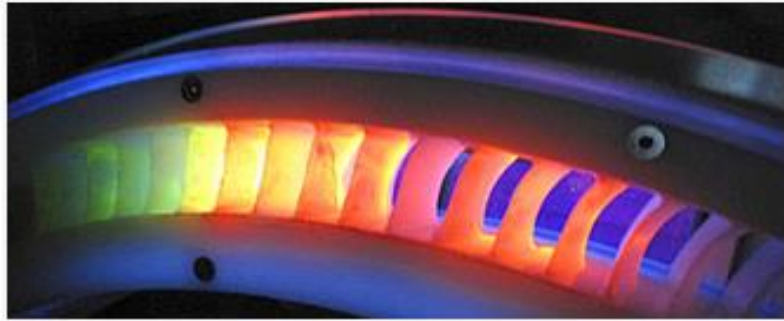
Accreditations

This programme is accredited
by the IMechE.

The logo for the Institution of Mechanical Engineers (IMEchE) is displayed within a red, trapezoidal shape that tapers to the right. The text is white and consists of three lines: "Institution of" in a smaller font, "MECHANICAL" in a large, bold, all-caps font, and "ENGINEERS" in a large, bold, all-caps font.

Institution of
MECHANICAL
ENGINEERS

Research Capabilities



Applied Aerodynamics



Structures and Materials



Risk and Reliability



Structural Dynamics & Acoustics (SDA)



Control



Propulsion & Energy Systems

Projects

Research Centres and Groups



**Rolls-Royce University
Technology Centre
(UTC)**



**Caterpillar Innovation
and Research Centre
(IRC)**



**National Centre for
Combustion and
Aerothermal
Technology (NCCAT)**



Vehicle Aerodynamics



**Intelligent Mobility &
Autonomous Systems**



**Hybrid Vehicles &
Advanced Propulsion**

Our academics

Anoma Malalasekera

Martin Passmore

Kambiz Ibrahim

Ashley Fly

Cunjia Liu

Thomas Steffen

Gary Page

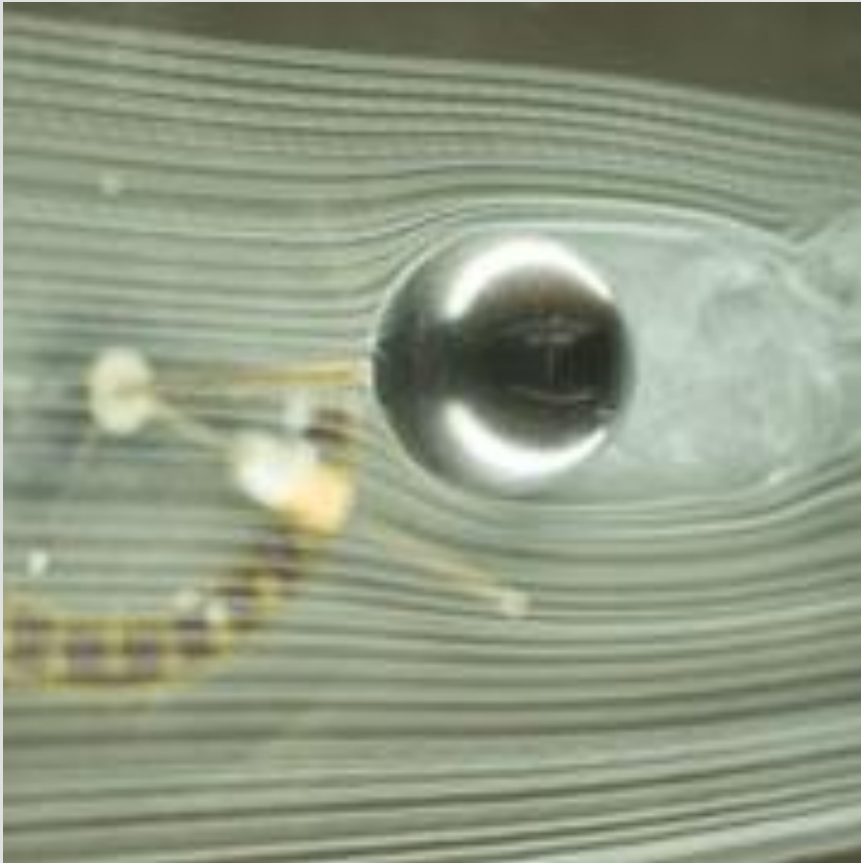
Matt Best

etc



Facilities

Wind Tunnel



Test Vehicles

Automotive Engineering MSc

Corporate strategies and mind-set

- organisational infrastructure
- corporate engineering knowledge

General engineering knowledge

- fundamentals
- vehicle engineering
- broader perspective

→ Automotive Engineer for tomorrow



electrified



autonomous



shared



connected



yearly updated

The study models the future development of the market by 2030 originating from the user and his/her mobility patterns.

5 Automotive Megatrends according to pwc

Programme structure and assessment

6 out of 8 specialist modules:

TTP301 Vehicle and Powertrain Functional Performances

TTP401 Sustainable Vehicle Powertrains

TTP402 Body Engineering

TTP404 Vehicle Dynamics

TTP408 Vehicle Systems Integration

TTP409 Autonomous Vehicle Systems

TTP451 Powertrain Calibration Optimisation

TTP452 Vehicle Aerodynamics

+ 1 Project Module



Student projects and competitions

- Your individual project
- With a topic chosen from a variety of topics and supervisors
- Opportunity to use dedicated research and software facilities
- Engineering exercise - great asset for your CV



Industry partnerships and collaborations

Current research partners include:

- Caterpillar
- IPG Carmaker
- JLR
- Ford
- McLaren
- Rolls-Royce
- AVL
- Lotus Group



Career prospects




Previous graduate destinations include:

- Key Account Manager, BFCEC
- Automotive Instructor, Bahrain Training Institute
- Software Engineer, Changan UK R&D Center
- Structural Dynamics Engineer, EADS Astrium (France)
- Estimator, Galliford Try
- Purchase Engineer, J J Electric Ltd (Thailand)
- Graduate Production Engineering, Shell
- Testing Engineer, TVS Motor company (India).



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Thank you for listening

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