



---

Powertrain & Vehicle  
Research Centre



Dr Richard Burke, Prof Chris Brace,  
Dr Sam Akehurst  
University of Bath PVRC

---

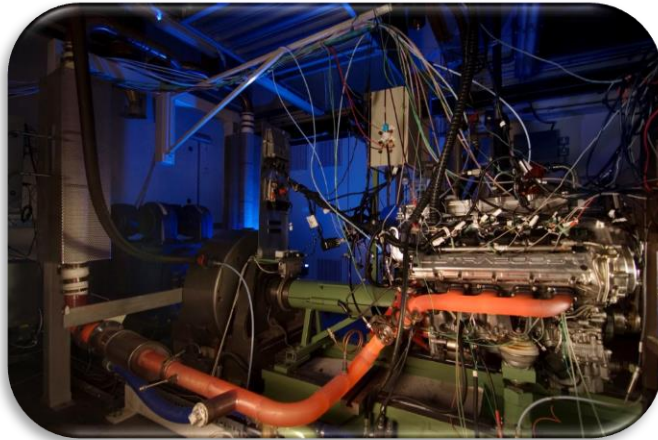
## X-in-the-Loop Modelling and Development Methodologies

**Aim:** To provide interchangeable real time models and hardware emulations for full EV & HEV drive train

**Target Call:** GV-07-2017

# Our Capabilities

- Powertrain and Vehicle Research Centre
  - Experimental and modelling of vehicles from Fuel to Road
    - Engine; Vehicle; Electric Drive; Range Extender; Transmission and Turbocharger research facilities
  - Bespoke research facilities for emulation of key components
    - Turbochargers, Batteries, Vehicles/Road, Engines



Engine Dyno



Vehicle Dynamometer with battery emulation



# Project Outline

---

- Current Expertise in our Consortium
  - Four academic partners covering:
    - Real Time Modelling Framework
    - Experimental and modelling capabilities for Vehicle, Electric Drive, Power Electronics and Batteries
  
- **We are seeking industrial collaborators with expertise and capabilities in:**
  - Research facility design and manufacture
  - Electric Motor and Battery manufacturers

# Contact Details

---

- Richard Burke
- Lecturer in Mechanical Engineering
- [R.D.Burke@bath.ac.uk](mailto:R.D.Burke@bath.ac.uk)
- +44 (0) 1225 38 34 81



You can also contact:

Caroline Ang

Research Development Manager

[c.w.ang@bath.ac.uk](mailto:c.w.ang@bath.ac.uk)