



## Prof. Brian G. Falzon

Professor of Composite Materials and  
Aerostructures

Director, Advanced Composites Research Group

Prof. Brian G. Falzon is the Director of the Advanced Composites Research Group at the School of Mechanical and Aerospace Engineering, Queen's University Belfast. He is the current Head of School of Mechanical and Aerospace Engineering and between 2013 and 2017 held the Royal Academy of Engineering-Bombardier Chair in Aerospace Composites. He has over 20 years' research experience in advanced composites and has initiated and managed a number of projects with academic and industry partners across Europe and Australia. He is the Project Coordinator of the EU Horizon 2020 Marie Skłodowska-Curie Actions Innovative Training Network ICONIC, funded with €4M from 2016-2020. He has published extensively in high impact academic journals, delivered keynote presentations at international conferences, has published one book, edited two and contributed numerous chapters in others.

## ACRG Overview

The Advanced Composites Research Group (ACRG), within the School of Mechanical and Aerospace Engineering, brings together a multidisciplinary team of researchers, focussing on the science and engineering of composite materials and structures, and their applications.

We have an established track record of working with industry and of securing funding from highly competitive national and European funding agencies.

## Contact Details



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AEROSPACE  
ENGINEERING



# ADVANCED COMPOSITES RESEARCH GROUP

[www.qub.ac.uk/  
sites/acrg](http://www.qub.ac.uk/sites/acrg)





## Facilities



The Advanced Composites Laboratory is well equipped and includes the following:

- ASC Econoclave high temperature/pressure autoclave
- Composite lay-up facility
- RTM composite manufacturing facility
- Hitachi FlexSEM1000 Scanning Electron Microscope
- Chemical Vapour Depositor (CVD) system for CNT production
- A suite of static and dynamic mechanical testing machines
- Gas-phase functionalisation furnace
- Atmospheric microplasma system
- Rapidscan ultrasonic NDT system
- Perkin-Elmer Spectrum 100 FT-IR Spectrometer
- Perkin-Elmer Differential Scanning Calorimetry DSC-6
- Two Markforged Mark2 3D printers
- Agilent 34450A 5 1/2 Digit Multimeter
- UV-Vis Spectroscopy (Cary 60) with solid film sample holder
- Hermle Centrifuge Z 206 A with angle rotor (up to 6000 rpm) 6 x 50 ml
- RS-1384 4 Input Data Logging Thermometer
- FLIR SC650 thermal imaging video camera

## Research Themes

Virtual testing and design of composite materials and structures

Damage modelling and crashworthiness

Multifunctional nano-enhanced composites

Injection overmoulding

Auxetic composite materials

Material characterisation

Composite repairs

