

# Composites University Technology Centre

## Current Themes

### **Through-Thickness Reinforcement**

Including: characterisation; delamination management; mechanical performance; numerical models

### **In-service Conditions**

Including: foreign object damage; complex stress states

### **Advance Modelling Methods**

Including: cohesive zone modelling; novel numerical methods; fatigue modelling; multi-scale modelling

### **Defects & Features**

Including: testing and modelling; fatigue; environmental effects

### **Vibration & Fatigue**

Including: understanding composite behaviour; environmental conditions

### **Novel Structures and Materials**

Including: curing; nano-reinforcement; thermoplastic composites; ceramic matrix composites; high temperature polymers

### **Composites Manufacturing**

Including: automated manufacturing methods; process modelling; design studies

### **Composite Repair**

Including: impact damage repair

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