



# Novel Composites

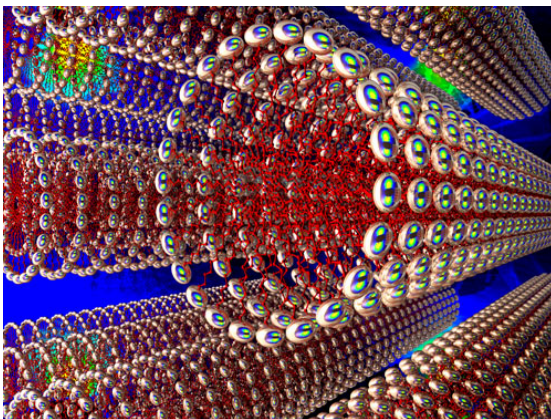
*STFC's Advanced Materials group is involved in the composition, optimisation, void and fibre content, characterisation, lifetime and metrology of [novel composites](#). An extensive database of novel material properties and invaluable experience and expertise is held.*

The Advanced Materials group at the Rutherford Appleton Laboratory (RAL) study a wide range of novel materials and specialise in [novel composites](#). The group are involved in materials development and evaluation, optimisation and prototype manufacture as well as holding an extensive database of novel material properties and invaluable experience and expertise.

Facilities cover the following main areas of expertise:

- ❖ Metrology
- ❖ Novel materials
- ❖ Composition
- ❖ Lifetime
- ❖ Void and fibre content
- ❖ Vacuum infusion technology

Past projects range from neutron stopping materials to materials for use in Space missions where coefficients of thermal expansion as close to zero as possible are sought to give excellent dimensional stability in precise optical assemblies. **Aircraft** material selection requires the right balance of many factors including structural integrity, weight, stiffness, lifetime and temperature characteristics, our expertise is well suited to identifying new and novel ways to work within these strict constraints.



For further information, please contact **Andy Bennett** or **Paul Vernon**  
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