



## Advanced Carbon Based Materials and Composite R&D and Prototyping for Innovative Applications

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### Materials

AREA OF EXPERTISE	DESCRIPTION	APPLICATION EXAMPLES
Carbon-based Materials	Carbon Foam for Structural and Thermal Applications	<ol style="list-style-type: none"> <li>1. <a href="#">Stable and Light Weight Thermal Structure, e.g. ATLAS at CERN</a></li> <li>2. <a href="#">Advanced Heat Exchanger, e.g. Liquid Cooler, PCM Enhanced Thermal Energy Storage</a></li> </ol>
Carbon Fiber Preforms	Needled Carbon Fiber Preforms for Structural, Thermal and Frictional Applications	<ol style="list-style-type: none"> <li>1. Low-Cost Pseudo-3D Preforms for Hot Component and Structure where Interlaminar Strengths are Critical</li> </ol>
Fiber Interface Coating	CVD Carbon Interface Coating for Advanced Ceramic Matrix Composites (CMC) Applications	<ol style="list-style-type: none"> <li>1. Interface Coating on both 2D Fabric and 3D Preforms for Enhanced Properties</li> </ol>
Oxidation Protection Coating	Advanced Oxidation Protection Systems for Advanced Applications	<ol style="list-style-type: none"> <li>1. Applications where short term or long term oxidation protections under various environments is required</li> </ol>
Carbon-Fiber Reinforced Composites	Carbon Fiber Reinforced 2D and 3D Ceramic Matrix Composites (CMC), including Carbon and Silicon Carbide Matrices and others.	<ol style="list-style-type: none"> <li>1. High Temperature Affordable Structural Component for Commercial Applications replacing Graphite</li> <li>2. <a href="#">Ion Grids and Structure</a></li> <li>3. <a href="#">Composite Bearing Retainer</a></li> <li>4. High Performance Brake and Clutch</li> <li>5. Thermal Management using High Conductivity Composites</li> <li>6. Advanced Thermal &amp; Structural Applications <a href="#">Hot Component/ Structure</a> Thermal Protection Leading Edge/ Acreage Structure</li> </ol>

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