Company Overview

Conductive Composites develops and delivers conductivity-based polymer and composite solutions that answer the combined demands of conductivity and shielding performance in lightweight materials systems. In essence, we make plastics and composites conduct and shield like metals, creating a whole new realm of possibilities and opportunities for plastic and composite products. We do this through the development and supply of Advanced Materials, the direct development of ready to field products using our materials & technologies, and by providing technical expertise through Partnered Development services. We enable game changing solutions for a variety of markets including defense, aerospace, telecommunications, security, medical, specialty construction, and consumer products.

Advanced Materials

Conductive Composites manufactures and modifies composite and plastic materials through a unique and proprietary Chemical Vapor Deposition process. Our materials integrate game-changing conductivity and shielding performance as part of a multifunctional materials system, while preserving the basic weight, cost, structural, environmental, and manufacturing performance advantages of composites and plastics. Manufactured in commercial volumes in ISO 9001 compliant facilities, our materials have been proven effective in all composites and plastics manufacturing processes. Our Advanced Materials are customizable to meet many types of requirements and are available in four product families: Nickel CVD Coated Fibers, Nickel CVD Coated Nonwovens, Nanostrands, and Integrated Products.

System Solutions

Conductive Composites develops and delivers the highest quality, conductivity-based products and solutions to address existing and emerging markets. The unique nature of our technology provides the ability to create a wide range of solutions with excellent electrical and electromagnetic performance in otherwise nonconductive or underperforming materials systems. Utilizing the advantageous properties of our technologies, our customers and partners realize great benefits:

- Outstanding electromagnetic performance
- Integrated performance that is part of the materials system
- Improvements in strength and structural integrity
- Significant weight reduction
- Reduced or equivalent cost to traditional solutions
- Improved capabilities of flexible plastic & composite manufacturing
- Reduction of package size without compromising performance
- Improved corrosion resistance
Partnered Development

Our Partnered Development program accelerates the success of our customers and partners by enabling and supporting revolutionary breakthroughs in product capabilities and design. We do this by providing material and technology expertise directly to the programs of our customers and partners. Through formalized and protected relationships, we ensure that the right materials, fabrication processes, validation steps, and product development processes are in place to realize performance requirements, value/cost parameters, and market potential. We deliver the expertise needed to minimize development times/costs and maximize product maturity.

Our support is available at every step in the product development cycle:

- Identification of market and product requirements
- Selection of materials
- Manufacturing and assembly processes
- Testing & validation
- Product launch & manufacturing scale-up

Tailored to maximize performance metrics and value parameters, our programs reduce development time, cost, and budget. As a successful SBIR, DAC, and DPA Title III prime contractor and subcontractor, our support levels range from basic partnerships to fully managed programs and integrated product team development. In addition, we actively engage in joint ventures and formal partnerships.