



Since its founding in 1970, MSC has been providing engineering services to the advanced materials and composites industry. MSC is considered a nontraditional defense contractor and headquartered in a 25,000 ft² combined engineering, laboratory, and prototyping facility in Horsham, PA which is supplemented by a 15,000 ft² advanced textile production facility and a 30,000 ft² composite manufacturing facility in Greenville, SC, and a 6,000 ft² engineering and composites manufacturing facility in Huntsville, AL.

MSC's Quality Management System is certified to ISO 9001:2015. MSC is expected to obtain AS9100D certification in early 2020. MSC's unclassified computing network is fully compliant with NIST SP 800-171 Rev 1 (Protecting Controlled Unclassified Information in Nonfederal Information Systems and Organizations) requirements. MSC, as a DoD cleared possessing facility, utilizes a classified Multi-User Standalone information system to view and process classified information for DoD contracts, and is approved to operate by DCSA under NISPOM (DoD 5220.22-M) and DAAPM v2.0 regulations.

MSC is actively supporting DoD hypersonic offensive and defensive product development efforts. MSC offers unique expertise and capabilities relevant to these efforts in the following areas:

- ✓ Design and Analysis of Composite Structures
- ✓ Process Simulation for High-Temperature Composites, e.g., CMC, C-C, etc.
- ✓ Material Characterization and Thermo-Structural Testing
- ✓ Development and Application of Topology and Shape Optimization Based Design Tools
- ✓ Design and Additive Manufacturing of High Temperature Alloy Structures
- ✓ Nonlinear Material Response and Damage Modeling of TPS Materials
- ✓ Hypervelocity Impact and Shock of Composite Materials
- ✓ Prototype and Production Composite Manufacturing
- ✓ Specialty Textile Engineering and Production
- ✓ Non-Destructive Evaluation, Quality Assurance, and Metrology

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