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Research Theme

Aerospace and Transportation Materials and Manufacturing (ATMM)

Research Areas

- Textile composites and structures
- Modeling advanced fabric forming processes
- Defect mitigation (in particular wrinkling)
- Multiscale finite element methods
- Design and analysis of experiments
- Multicriteria optimization & decision making
- Sensor-integrated composites for structural health monitoring

Research Facilities/Tools

- Mechanical characterization stations with DIC capability
- In-house fixtures for fabric testing
- Thermal conductivity meter, DMA, environmental chamber
- Composite manufacturing stations
- Micro-tomography facility
- High speed impact characterization
- White light interferometry
- FE simulation and optimization tools

