

2019 AIAA/IEEE Electric Aircraft Technologies Symposium (EATS)

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Submissions across three topic areas are solicited, including: 1) Aircraft Configurations and System Requirements, 2) Enabling Technologies and Components, and 3) System Integration and Controls. A non-exhaustive list of example subtopics associated with these three topic areas are provided in the following, though all abstracts relevant to the broader topic areas are also welcomed.

Topic Area 1: Aircraft Configurations & Systems Requirements

- System feasibility studies
- Electric-enabled innovative aircraft design and propulsion concepts
- Electrical powertrain performance requirements
- Safety, critical failure modes, certification
- Lifecycle energy, operational cost, and emission analysis

Topic Area 2: Enabling Technologies and Components

- Machines and drives integration for optimum performance
- Conventional, cryogenic, and superconducting power systems
- Energy storage devices and systems
- Electric machine and gas turbine integration
- New material solutions or applications
- Novel thermal management solutions

Topic Area 3: System Integration and Controls

- Electric powertrain architectures
- Fault isolation and reconfigurable systems
- Energy management systems
- Integrated electro-thermal systems
- System modeling tools
- Monitoring and diagnostics
- Verification and testing