

# Call for Papers

The AIAA Materials Technical Committee and the Survivability Technical Committee are sponsoring a Joint Special Session on

## Survivable Materials and Structures

**AIAA SciTech 2024**

January 8-12 2024

Orlando, Florida

The AIAA (American Institute of Aeronautics and Astronautics) Materials Technical Committee and the Survivability Technical Committee are soliciting papers with recent research, technological advancements, and systems-level perspectives on **Survivable Materials and Structures** within the AIAA SciTech conference. Survivability improvements for air and space systems increasingly rely on the development of new structural designs, which must be lightweight but also satisfy a demanding set of mechanical, thermal, electromagnetic, or other requirements. Topics of interest include but are not limited to design, analysis, modeling, optimization, and/or testing of:

- Novel structural designs for impact mitigation and stress wave management
- Crashworthy structures
- Multifunctional structures for survivability
- Designs that incorporate structural health monitoring or self-healing
- Additively manufactured structural components with properties optimized for specific applications
- Improved ballistic protection systems for rotary-wing aircraft
- Improved thermal protection systems for spacecraft
- Low observability structures
- Thermal protection system materials, including polymer and ceramic matrix composites

The committee welcomes submissions from government, industry, academic, and small businesses. All abstracts are peer-reviewed.

Extended abstracts of no less than 1,000 words are due **June 1, 2023**

Author notification of paper acceptance on or about **August 31, 2023**

Final manuscript due **December 5, 2023**

Detailed deadline information, abstract preparation instructions, and policies can be found at:

<https://www.aiaa.org/SciTech/presentations-papers/call-for-papers>

**Make sure to select the “Survivable Materials and Structures” topic option under “Materials” or “Survivability” when prompted during submission.**

For more information, contact one of the following organizers:

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Materials

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