TECHNICAL SHOWCASE

HYPERSONICS RADOMES

April 2026

Tech Transfer

HIGHLIGHTS

Focus: *Mass-Producible Radio Frequency (RF) Radome Solutions for Hypersonic Weapon Systems*

Eighteen companies were down-selected for direct engagement, resulting in multiple targeted follow-on efforts and informing a preliminary multi-year government roadmap for scalable hypersonic radome capabilities.

Event Outcomes

- **44** total EOI submissions
- **30** five-page capability summaries submitted
- **18** 1:1 government–industry sessions (ongoing)
- **Multiple** follow-on actions
- **1,470** webpage views
- **700+** LinkedIn impressions
- **6,217** innovation ecosystem members reached

21-23 April 2026

The Doolittle Institute, in partnership with the Air Force Research Laboratory (AFRL) at Eglin AFB, hosted DI Tech Showcase - Hypersonic Radomes, centered on advancing mass-producible RF radome solutions for hypersonic weapon systems.

The objective was to identify material systems and scalable production approaches capable of withstanding the extreme thermo-mechanical environment of hypersonic flight while enabling cost-effective, high-volume manufacturing of three-dimensional radome nose cones.

The event took place 21–23 April 2026 and engaged U.S.-based industry participants, including established companies, startups, academic institutions, and government-affiliated laboratories and innovation centers.

An RFI soliciting five-page capability summaries and an Expression of Interest (EOI) form supported government vetting and down-selection. Of the 44 initial respondents, 30 submitted full capability packages. From these, 18 companies were selected for in-depth discussions with AFRL during the three-day event.

Engagements focused on technical performance characteristics of proposed radome solutions, as well as each company's ability to scale production to meet Air Force demand at an acceptable cost profile.

Multiple companies were identified for follow-on engagement, and the government established a preliminary multi-year roadmap informed by industry inputs and presentations.

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