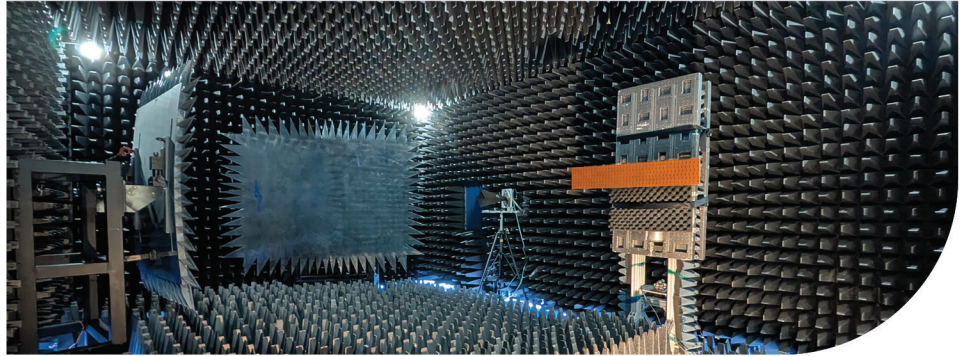
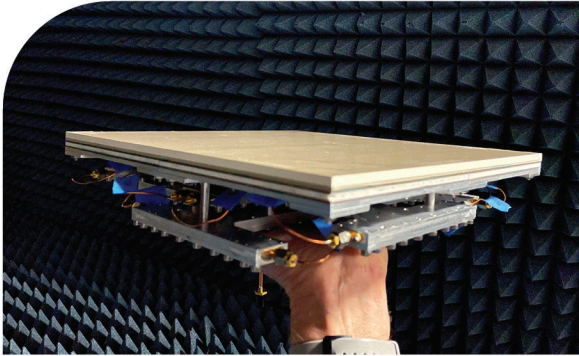


Spectrum Dominance



Integrating high-fidelity modeling and simulation, next-generation sensor development and testing, advanced radar signal processing, and data-fusion to drive EMSO superiority across all domains.



- **SENSOR DESIGN, FABRICATION, AND TEST**
- **ANTENNA AND RADAR CROSS SECTION (RCS) MEASUREMENT**
- **RF AND EO/IR SIGNATURE PREDICTION**
- **EW EFFECTS M&S AND HARDWARE IN THE LOOP (HWIL) ANALYSIS**
- **RADAR SIGNAL PROCESSING**
- **COGNITIVE ELECTRONIC WARFARE (EW)**

SENSORS & RADAR SYSTEMS

Design, fabrication, integration, and testing of apertures and radomes – from concept to complete radar systems

- High-power, wideband, modular solutions
- Low-cost solutions tailored to mission needs
- Conformal design for platform integration

HIGH-FIDELITY MODELING & SIMULATION

Physics-based tools and algorithms to develop capabilities and effects across the kill chain (detect through hard/soft kill)

- Fast-solvers for RCS prediction of large complex targets
- EW threat modeling, simulation, and effects analysis
- AI/ML based target ID & EW response
- Digital design and performance evaluation



TEST & EVALUATION

Effectiveness assessment spanning indoor chamber measurements, HWIL testing, and open-air testing

- RCS and antenna measurement and analysis
- Hardware-in-the-loop (HWIL) testing
- Deployable threat surrogates to emulate signal environments
- Low SWaP-C electronic warfare hardware

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