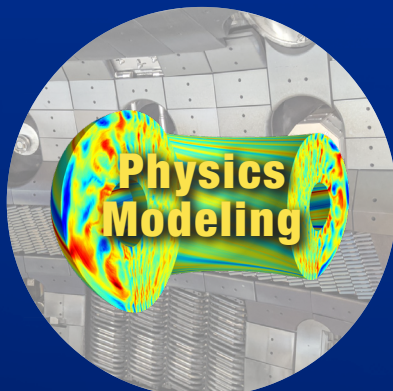
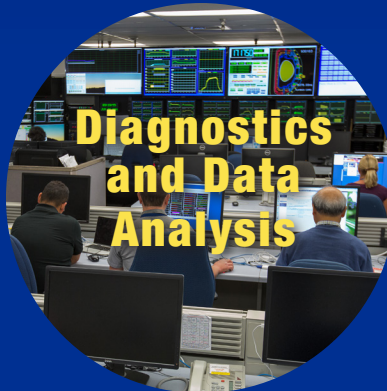


# RF SYSTEMS INTEGRATION

*Milliwatts to Megawatts*

End-to-end systems for RF-based applications

Innovative solutions for generation,  
transmission, and detection of RF energy





# RF SYSTEMS INTEGRATION

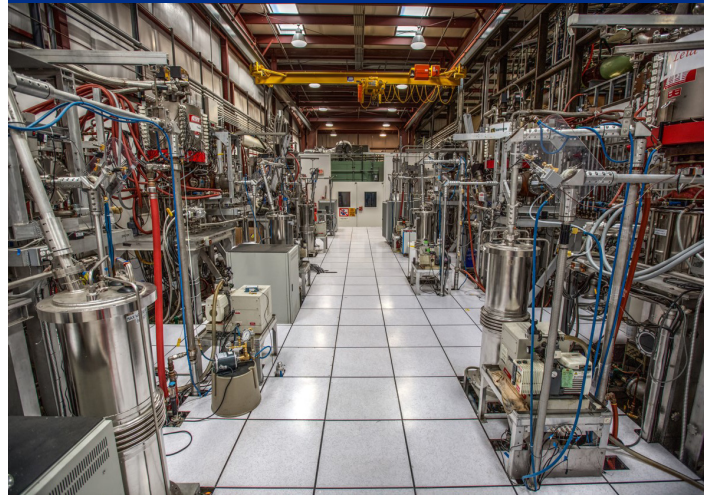
GA is a recognized worldwide supplier for high-quality RF systems, with decades of design know-how, unique fabrication capabilities, and a rigorous quality-assurance program.

## WARLOC Radar Transmitter



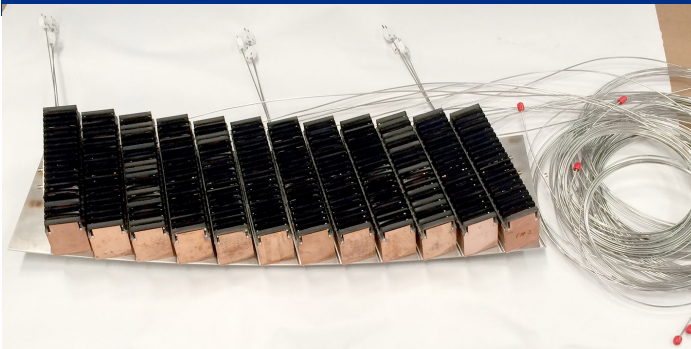
*This proof-of-concept long-range radar transmitter used for imaging aircraft produced a 10 kW amplified signal with nearly 1 GHz bandwidth at 94 GHz. (Naval Research Laboratory)*

## DIII-D Tokamak Electron Cyclotron Heating System



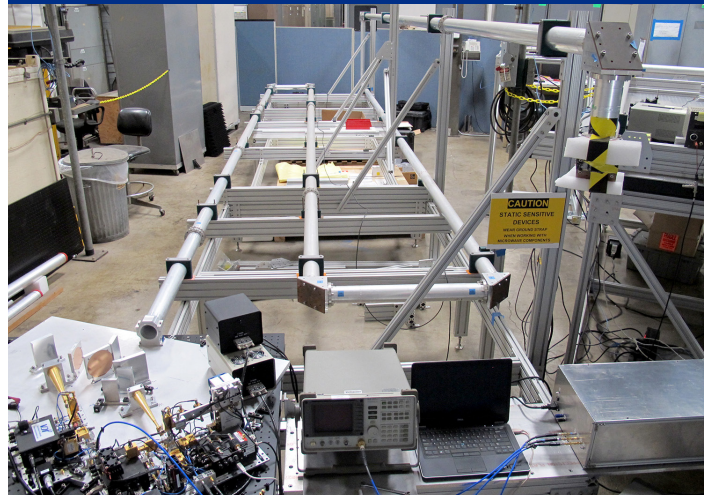
*This first-of-its-kind high-power microwave system delivers over 4 MW at 110 GHz in a 10 s pulse length. New waveguide components from GA have been designed for steady-state MW-level conditions from 110 to 170 GHz. (Department of Energy)*

## DIII-D Tokamak Helicon Antenna



*The helicon project is a novel plasma heating system based on a high-power travelling-wave antenna operated in vacuum. The system is designed to deliver over 1 MW at 460 MHz. (Department of Energy)*

## ITER Low Field Side Reflectometer



*This key microwave-based diagnostic provides real-time data for ITER operations. The system uses a 30-165 GHz frequency-chirped waveform to probe the plasma. (ITER Organization)*