

# MOOG S250 EVTOL FLIGHT TESTBED

## ADVANCING MOOG'S POSITION AS AN AGILE PRIME

The addition of the S250 vehicle technologies and key technical personnel will allow Moog to more rapidly develop innovative system solutions to better support both existing and new customers in the aerospace market.

### DISTRIBUTED ELECTRIC PROPULSION DRIVE SYSTEMS

DEP is safer and simpler than traditional drive trains. Moog has been developing its own electric propulsion system for aerospace use. Key lessons learned from the S250 platform will be applied to Moog's development program.

### HYBRID POWER SYSTEMS (UNDER DEVELOPMENT)

At the core of the evolution of the S250 is an internal combustion piston powered hybrid power plant capable of running Diesel, Jet-A, or other sustainable fuels.

### AUTONOMY/OPTIONAL PILOTED

Moog has been developing solutions to enhance autonomy for aircraft ranging from several pounds to several thousand pounds, both manned and unmanned. S250 provides a pathway to rapidly deploy potential systems on a technology demonstrator to expedite entrance to the market.

### SAFETY SYSTEMS

When the consequence of loss is high, Moog has a solid pedigree in providing high integrity, redundant flight control solutions. With the S250, Moog continues to refine its capability in this area for a whole new class of future vehicles.

### COMPOSITE STRUCTURES

The S250 vehicle is full carbon fiber construction. While composite structures are not a core business of Moog, the platform provides Moog an opportunity to better understand design and manufacturability of composite structures.

### FLIGHT CONTROL SYSTEMS

Moog is a market leader in flight control systems for aerospace platforms. The S250 platform provides an agile test bed for Moog to develop new system architecture solutions as well as develop flight control laws and other software solutions which position Moog for future growth on a variety of aircraft programs.

### SIMPLIFIED VEHICLE OPERATIONS

With a forecast for future pilots that far exceeds current staffing levels, a move towards simplified vehicle operations is essential. With the S250, Moog is developing and refining not only the flight control solutions, but also to examine human factors engineering within the flight deck environment.

