

Engineering

Design

Airframe, installations, Modifications, Electrical systems, Avionics, Environmental systems, Mockups etc. using 3D CAD systems with solid capabilities.

Analysis

Full capability for all required substantiations:

- Load analysis
- Stress Analysis (linear and non-linear)
- Thermal Analysis
- Aerodynamic Analysis (Loads, Stability & control, Drag & Performance, Aero-Optical)
- Dynamic and modal Analysis
- Fatigue Analysis
- Computational Fluid Dynamics
- Store Separation/Ejection/Trajectory/Analysis
- EMI/EMC Analysis
- Reliability, Maintainability and ILS

Testing

Full capability of planning and performing the following:

- Ground Test
- Wind Tunnel Tests
- Safety of Flight Tests
- Environmental Conditions Test
- Ground Fit & Function Tests
- ECS Tests
- EMI/RFI Tests
- Flight Test

Installations

Performing systems installation on A/C (Mechanical and Electrical)

Integration

Ground Integration of systems to A/C (Mechanical and Electrical)

Certification

performing all activities required for Airworthiness Certification

