

Engineering Services



Comprehensive Engineering Services

As a major commercial airline, we understand your functional requirements and provide a high quality output with the lowest possible cost per flight hour. Our expertise allows us to minimize turn time, limiting the need for engine spares, reducing your overall maintenance costs. And we offer unparalleled flexibility.

Repair. Replace. Re-manufacture to the highest standards in the business. As a **full-service MRO provider**, TechOps delivers a full range of **engineering services** to support both operational and maintenance requirements for Delta Air Lines and MRO customer fleets. We maintain a consistent staffing level of approximately 450+ engineers across fleet types and business units.

The Delta TechOps engineering organization is divided into the following distinct areas: **Fleet Engineering, Operations Support Engineering and Operational Reliability Teams (Reliability Engineering)**

The different groups are responsible for Engineering, Planning and Quality, for the overall Safety Administration and Operation of all departments and the performance of the organization. Organizational responsibilities include:

- Provide Engineering Authorization for alterations, repairs and inspections on engine, aircraft and components
- Provide engineering support to all engine, component and hangar shops; other departments within Delta TechOps regarding modification projects; 24-hour support for all maintenance needs
- Provide Reliability Engineering, author Engineering Authorizations (EA) to accomplish Service Bulletins, FAA Airworthiness Directives and reliability improvements to aircraft and aircraft components
- Provide Parts Manufacturer Approval PMA Engineering – FAA-PMA Approval and Service Evaluations
- Develop and approve major repairs and alterations through internal Designated Engineering Representatives (FAA-DER) or Organization Designation Authorization (FAA-ODA) resources
- Design Aircraft Maintenance Programs, authoring tasks required to ensure the continuing airworthiness of aircraft, including any one or combination of overhaul, inspection, replacement, defect rectification, and the embodiment of an alteration or repair
- Authoring and administration of all technical manuals publications and procedures
- Support Delta TechOps' emergency response and long-term mechanical performance monitoring program via representation of the department on the Technical Operations Executive Committee (TOEC)

Fleet Engineering:

- Fleet Management Engineering (Aircraft Systems, Structures, and Avionics Engineering groups): provides engineering support.
- Fleet propulsion Engineering: configures fleet, sets the maintenance specification, and handles on-wing engine issues.
- Workscope Engineering: Responsible for shop support, workscope development, and shop visit management.
- Interiors Engineering is charged with Cabin and Interiors Systems design and certification as well as paint and livery management.

Operations Support Engineering:

- Liaison Engineering (Aircraft Systems and Aircraft Structures Engineering groups): responsible for 24x7 support of all in-service aircraft. Also provides engineering support and oversight for all aircraft maintenance.
- Technical Services: responsible for Engine Condition Monitoring (ECM) and on-wing trouble shooting of the fleet's engines.
- Repair and Process Engineering (RPE): Provides direct engineering support and innovative repairs & improvements for all engine repair and support shops. Directly interact with OEM engineering sources to resolve and document emerging support issues.
- Engine Technologies and Repair Development (ETRD): Provides advanced engineering design, statistical analysis and advanced failure analysis for complex engine repair development.
- Component Engineering: Provides direct engineering support for all component shops and engineering dispositions for all component hardware with discrepancies not covered by the OEM manuals.
- Enabling Technologies: Responsible for monitoring industry, evaluating, and incorporating new, value added technologies into Delta TechOps to improve quality and reduce costs across all lines of maintenance.

Operational Reliability Teams (ORT):

Serve as the strategic extension of the other engineering teams. Support the Reliability Control Board by resolving issues or concerns at the highest technical level of Engine ORT, Airframe Specific ORT, or ETOPS Reliability and more.

To see what sets Delta TechOps apart, visit
www.DeltaTechOps.com or call
+1-404-773-5192.



 **DELTA**
TechOps
WHAT IT TAKES TO FLY.