

Who we are:

Transportation is so basic that many of us overlook its overwhelming importance in our daily lives. Practically everything used in our homes, offices, or schools across Tennessee - from furniture to food items to clothing - requires a large and complex transportation network. The Tennessee Department of Transportation provides citizens of Tennessee and travelers with one of the best transportation systems in the country. TDOT is a multimodal agency with responsibilities in building and maintaining roads, aviation, public transit, waterways, railroads, cycling and walking. Our involvement ranges from airport improvements to funding transit buses to planning for river ports. The Department of Transportation has approximately 3,500 employees with four statewide region facilities in Knoxville, Chattanooga, Nashville, and Jackson.



Aircraft Mechanic 2

Aeronautics Division - Aircraft Maintenance Section

\$61,200 - \$76,476 annually

Job Overview

The Aircraft Mechanic 2 is responsible for aircraft mechanical work of considerable difficulty in scheduled and unscheduled maintenance and repair of assigned aircraft. The position supports reciprocating- and turbine-powered, fixed-wing aircraft, including single-engine, multi-engine, and turbine aircraft, and may be assigned to aircraft requiring specialized training and experience.

The Aircraft Mechanic 2 applies advanced technical expertise, sound judgment, and careful attention to safety in inspecting, troubleshooting, repairing, overhauling, testing, and returning aircraft to service. The position ensures all work complies with Federal Aviation Administration requirements, manufacturer maintenance manuals, service bulletins, airworthiness directives, and TDOT policies and procedures. The position also coordinates maintenance activities with pilots, vendors, FAA personnel, other State agencies, and facility support staff while maintaining complete and accurate aircraft records.

Essential Job Responsibilities

Lead and perform routine, special, scheduled, and unscheduled inspections of aircraft, engines, airframes, and components. Inspect turbine blades, cylinders, fuselage, wings, tail assemblies, and related components for corrosion, wear, warping, cracks, leaks, distortion, and other deficiencies using precision measuring instruments, FAA Inspection Authorization practices, and appropriate testing equipment.

Diagnose, troubleshoot, maintain, and repair hydraulic, electrical, oil, transmission, drive, exhaust, flight-control, powerplant, fuel, and related aircraft systems. Study technical drawings, diagrams, maintenance manuals, and manufacturer specifications to identify causes of malfunctions and determine appropriate corrective action.

Perform post-maintenance functional tests and operational checks to verify that installed or repaired components meet specifications and that aircraft systems operate safely. Adjust, align, and calibrate aircraft systems; reassemble and reinstall engines following repair or inspection; and support periodic disassembly and overhaul of aircraft components and powerplants.

Coordinate non-destructive testing for corrosion, distortion, and invisible cracks in aircraft structures and components. Obtain fuel and oil samples and check for contamination. Accompany aircraft on flights when required to make in-flight adjustments and corrections and assist in confirming safe system performance.

Operate and use specialized hand tools, electrical and hydraulic testing devices, propeller protractors, hoists, towing devices, ground-support equipment, and Department vehicles. Remove and install aircraft engines and components using hoists and fabricate defective sections or parts using metal-fabrication machines, saws, brakes, shears, and grinders when authorized.

Clean, strip, prime, sand, prepare, and paint structural surfaces and materials. Examine aircraft components while working from ladders or elevated platforms and follow all applicable safety procedures for shop, ramp, and aircraft maintenance operations.

Read and interpret maintenance manuals, specifications, airworthiness directives, service bulletins, supplemental type certificates, and instructions for continued airworthiness. Submit FAA Form 337 when required following major repairs or alterations and ensure FAA Inspection Authorization status is maintained in accordance with applicable regulations.

Maintain and oversee aircraft maintenance records, historical documents, logbook entries, maintenance-manual libraries, flight-time tracking, fuel-storage-facility maintenance records, and aircraft maintenance man-hour reports. Review documentation for accuracy, completeness, and regulatory compliance and support forecasting and coordination of future aircraft maintenance.

Serve as a primary liaison with aircraft manufacturers and technical representatives for troubleshooting and maintenance support; contract vendors for required aircraft maintenance; FAA maintenance inspectors; other State agencies; and building-maintenance vendors. Communicate with pilots and supervisors regarding maintenance issues, aircraft availability, work status, and scheduling priorities.

Support continuous improvement and quality-management practices that improve the efficiency, reliability, and safety of aircraft maintenance operations. Apply consistent processes, maintain accountability for assigned work, and provide prompt, professional service to internal and external customers.

Qualifications

- Possession of both the Federal Aviation Administration (FAA) Airframe and Powerplant (A&P) licenses.

Necessary Special Qualifications

- Complete a TBI fingerprint based criminal history records check
- Possession of a valid motor vehicle operator's license, or the ability to obtain one before appointment.

Ideal Candidate

The ideal candidate is an experienced, safety-focused aviation maintenance professional that demonstrates advanced skill in inspecting, troubleshooting, repairing, and overhauling aircraft systems. They are highly organized, attentive to detail, and able to interpret complex technical publications and regulatory requirements while maintaining complete and accurate maintenance records. They exercise sound judgment, leads work effectively, communicates clearly with pilots, vendors, inspectors, and team members, and takes full ownership of assigned maintenance activities from diagnosis through return to service. They are committed to regulatory compliance, quality workmanship, aircraft availability, and the safe and reliable operation of the State's aircraft fleet.